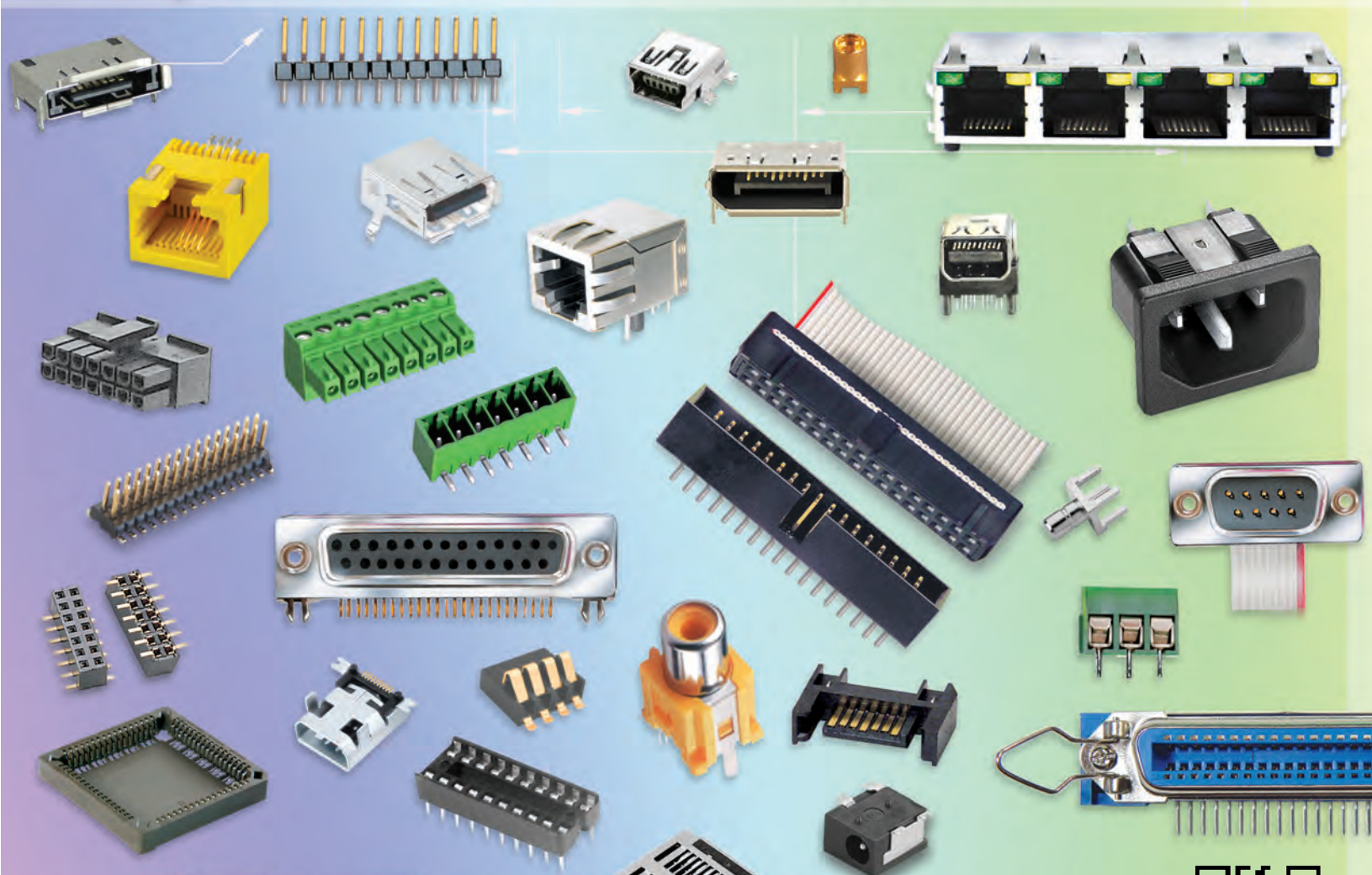




# ADAM TECH®

ADVANCED INTERCONNECT  
PRODUCTS AND SYSTEMS



**GREEN PRODUCT**

- RoHS2 Compliant, Lead Free
- REACH Compliant
- Deca BDE Compliant
- Halogen Free



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## INTRODUCTION AND PROMISE

Adam Tech is pleased to present our full line of interconnect products and welcomes the chance to be your valued supplier. It is our continuing goal to offer a wide range of world class connectors and cable assemblies with one simple promise: We will provide you with the Highest Quality Product with the Best Service Available at the Lowest Possible Price.

## CAPABILITIES

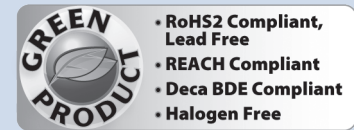
Adam Tech prides itself on the scope of our product offering which features innovative connector designs and manufacturing capabilities that reduce cost and improves performance in a broad range of applications. Our exclusive automated manufacturing processes provide consistent high quality product with low cost and short lead times. Adam Tech welcomes the opportunity to offer our experience to provide custom solutions to your application specific product requirements. We can develop concepts into designs, tooling and production.

## SALES, SERVICE & AVAILABILITY

Adam Tech has professionally staffed sales and engineering teams at our facilities in the USA, Taiwan, China & India. From these locations and forty representative offices throughout the Americas, Europe & Asia we provide worldwide service to our customers and their contract manufacturers. Adam Tech products are also available internationally through our network of experienced distributors who offer local stock and value added services. Please check our website for a complete listing of our representative offices and distributors.

## ENVIRONMENTAL

Adam Tech acknowledges the need to eliminate hazardous materials which impact our environment and affect human health. We have taken strict measures to produce products that are lead-free and free from other hazardous materials. Adam Tech's products are all fully compliant to RoHS2 Directive 2011/65/EU with no exemptions, China RoHS, REACH, Deca BDE and Halogen Free.



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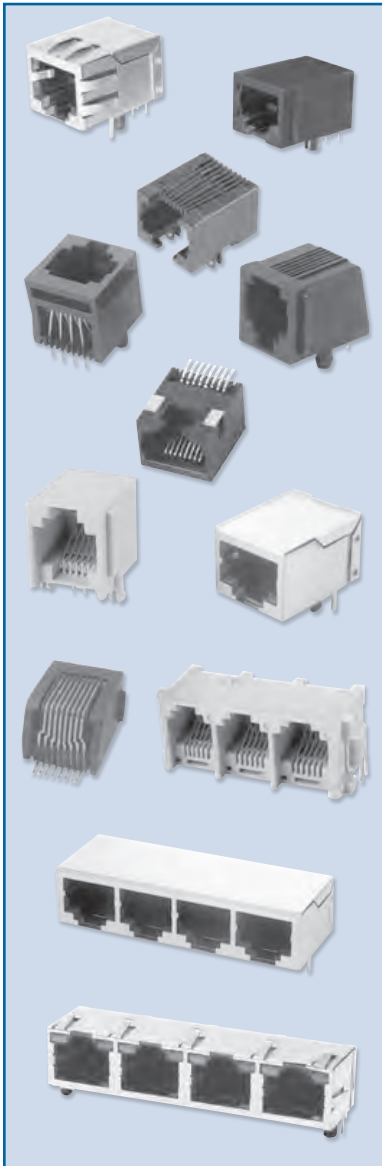


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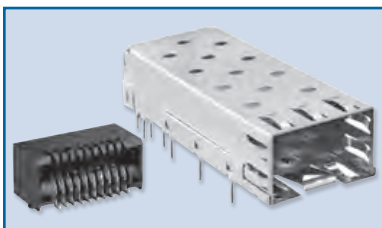
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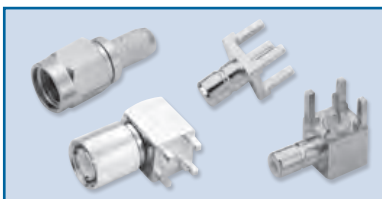


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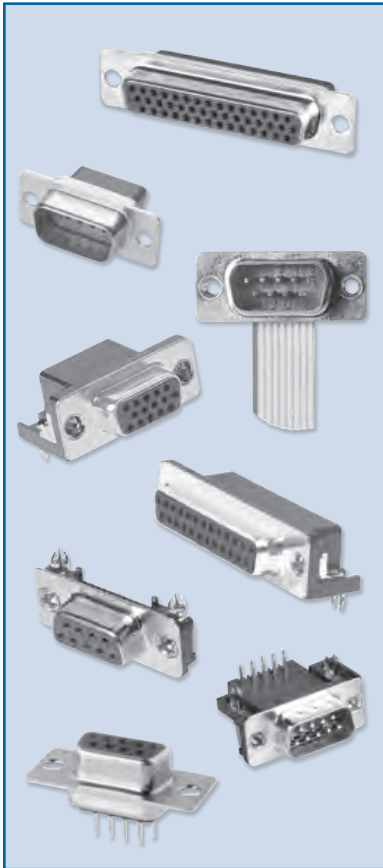
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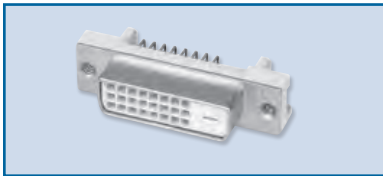


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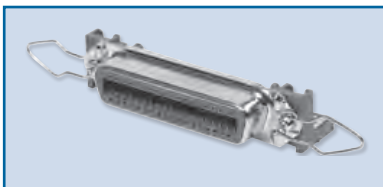
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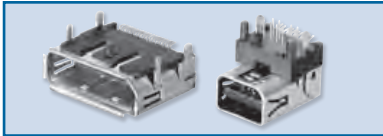
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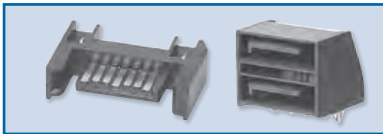
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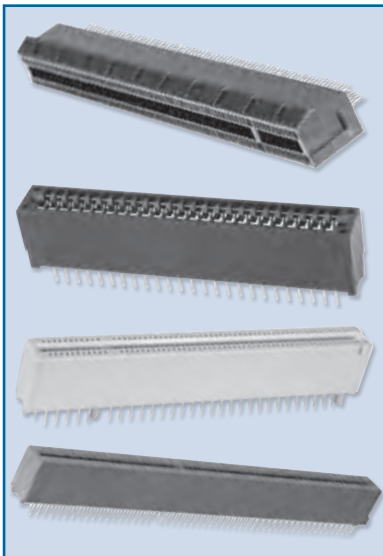


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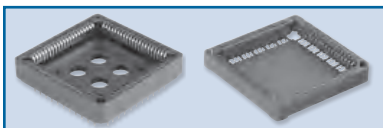
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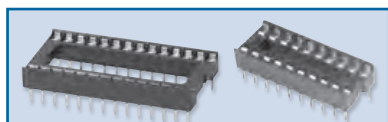
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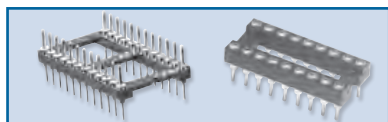


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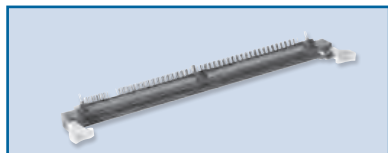
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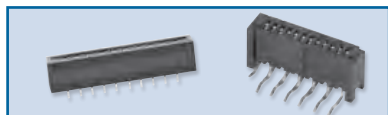
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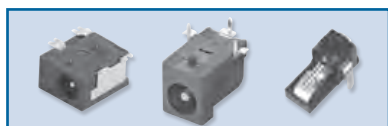
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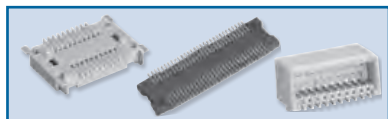
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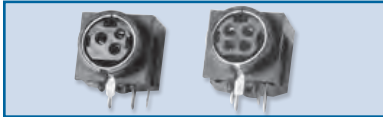
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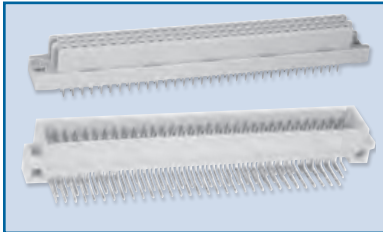
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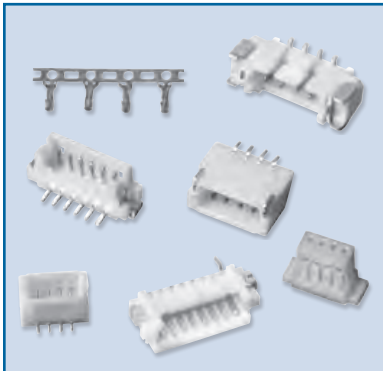
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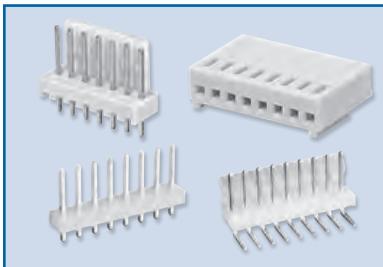
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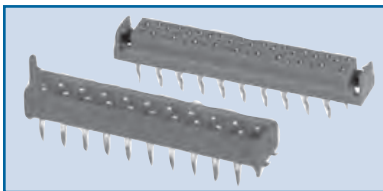
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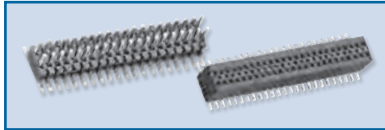
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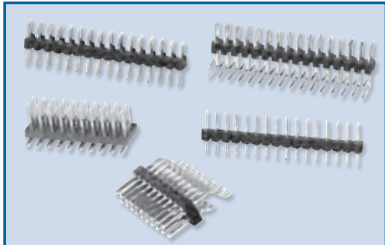


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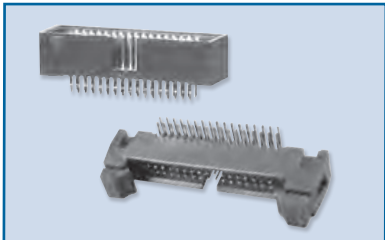
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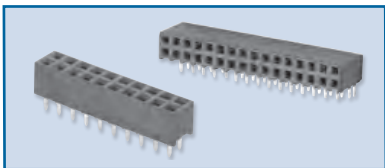
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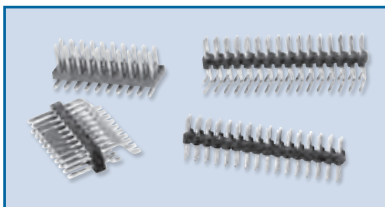
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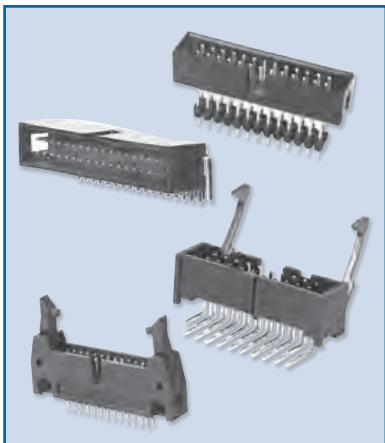
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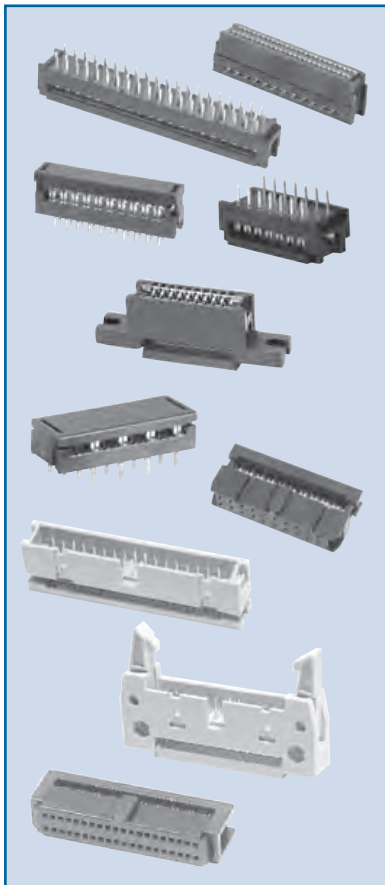
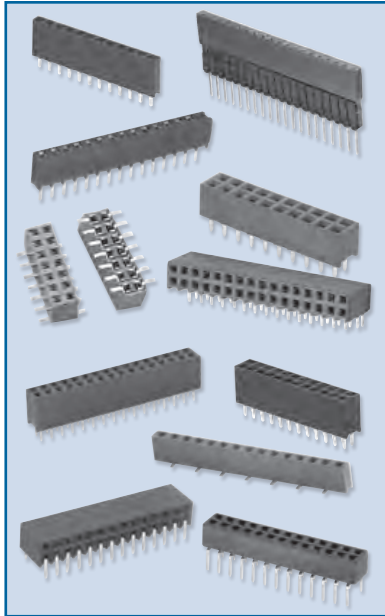
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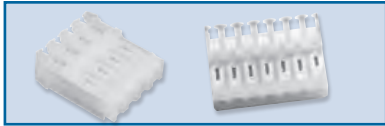
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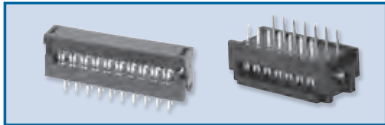
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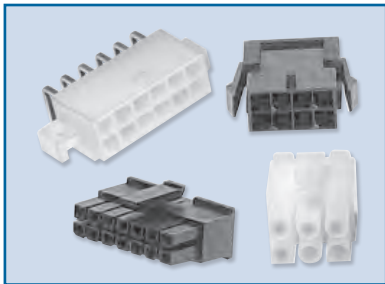
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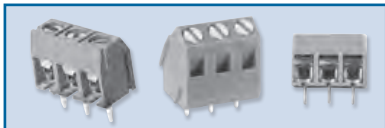


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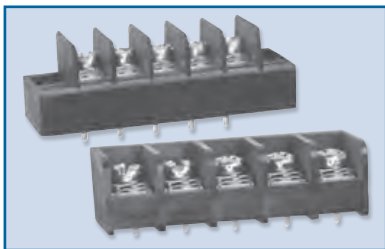
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## **INDEX BY PRODUCT . . . . . Inside Back Cover**

**INTRODUCTION:**

Adam Tech MTJ series Modular Jacks are a complete line of PCB and wire leaded jacks which are UL approved and meet all required FCC rules and regulations. Adam Tech offers a multitude of sizes (4P2C thru 10P10C) with styles including single, ganged and stacked versions with options of ferrite or magnetic filtering and or metal shielding. Jacks with integral LED's and combination hybrids such as MTJ/USB jacks are also available. These jacks are available in thru-hole or SMT mounting.

**FEATURES:**

- UL 1863 recognized versions
- FCC compliant to No. 47 CFR part 68
- Magnetic and Ferrite filtered types
- 4,6,8 and 10 positions available
- Single, stacked or ganged
- Hi-Temp and LED options
- Unshielded or Metal Shielded
- Thru-Hole or SMT mounting
- Cat. 5 & 5e ANSI/TIA/EIA 568.2

**MATING PLUGS:**

Adam Tech modular plugs and all industry standard telephone plugs.

**SPECIFICATIONS:**

**Material:**

- Standard Insulator: PBT, or ABS, rated UL94V-0
- Optional Hi-Temp Insulator: Nylon 6T rated UL94V-0
- Insulator Colors: Black or medium gray
- Contacts: Phosphor Bronze
- Shield: Phosphor Bronze, Nickel plated

**Contact Plating:**

- Flat contacts: Gold over Nickel underplate on contact area, Tin over Copper underplate on solder tails.
- Round contacts: Gold over Nickel underplate overall

**Electrical:**

- Operating voltage: 150V AC max.
- Current rating: 1.5 Amps max.
- Contact resistance: 20 mΩ max. initial
- Insulation resistance: 500 MΩ min.
- Dielectric withstanding voltage: 1000V AC for 1 minute

**Mechanical:**

- Insertion force: 4 contacts: 17.6N
- 6 contacts: 20.6N
- 8 contacts: 22.5N
- 10 contacts: 24.5N

Durability: 500 Cycles

**Temperature Rating:**

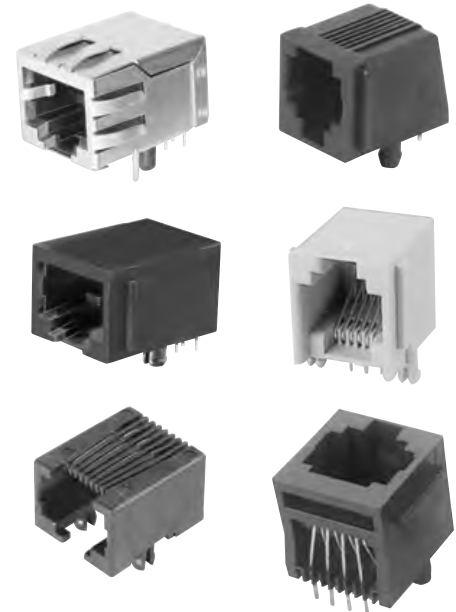
- Operating temperature: -40°C to +85°C
- Soldering process temperature:
  - Standard insulator: 235°C
  - Hi-Temp insulator: 260°C

**PACKAGING:**

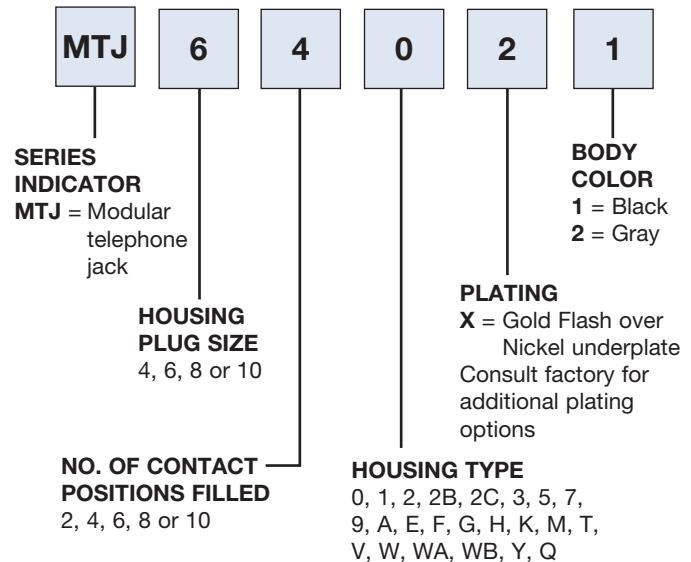
Anti-ESD plastic trays

**SAFETY AGENCY APPROVALS:**

UL Recognized File no. E224049



**ORDERING INFORMATION**



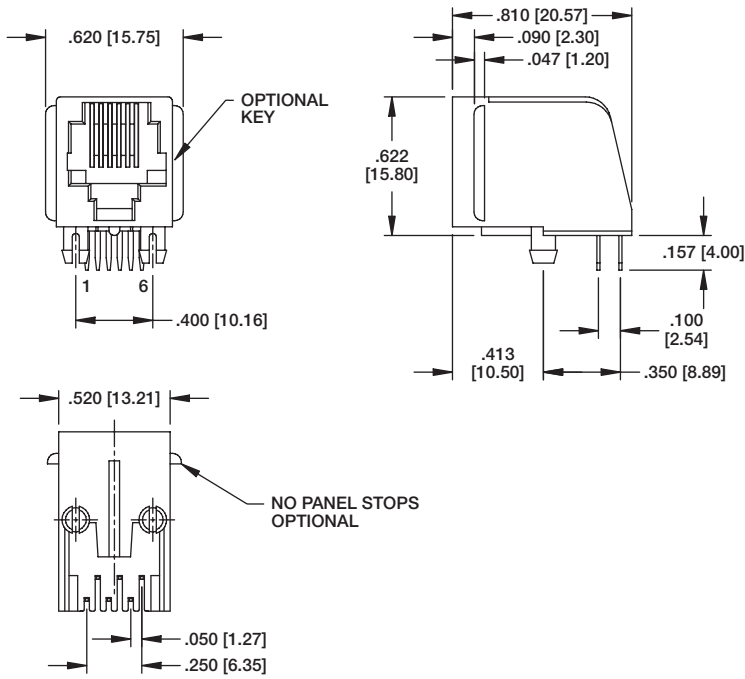
**OPTIONS:**

- Add designator(s) to end of part number
- S** = Face shielded jack (Body type 0 only)
- FSX** = Full metal shield (Use FSA, FSB, FSD, FSE)
- SMT** = Surface mount tails, housings 0, 5, 9, G & W with Hi-Temp insulator
- N** = No panel stops (Types: 1, 0, 2, 3, D)
- K** = Keyed telephone jack
- HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)
- PG** = Panel ground tabs
- KT** = Kapton Tape pickup when applicable



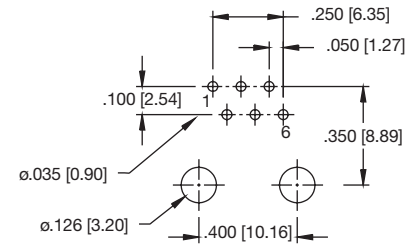
**TYPE 1**

**6P6C  
6P4C**



**MTJ-661X1**

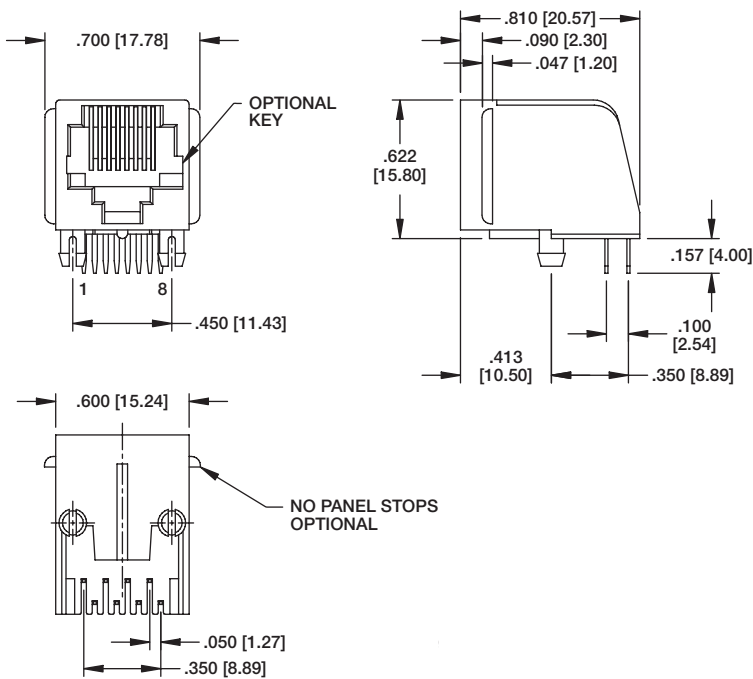
[Ordering Information pg. 9](#)



[Recommended PCB Layout](#)

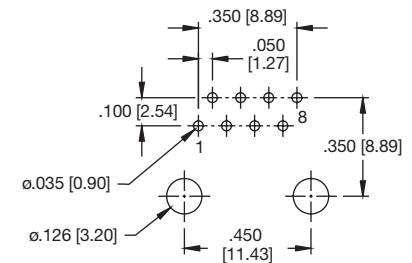
**TYPE 1**

**8P8C**



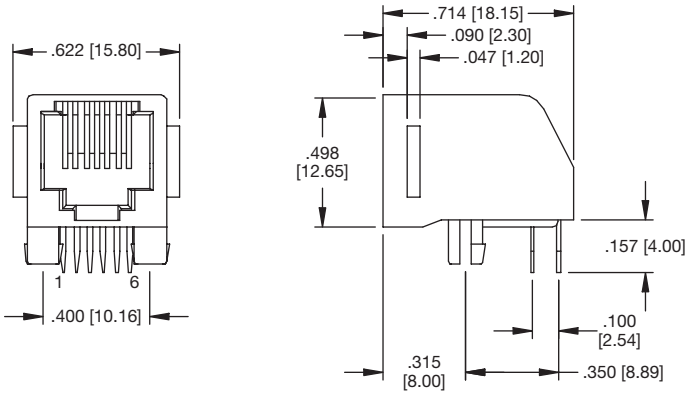
**MTJ-881X1**

[Ordering Information pg. 9](#)



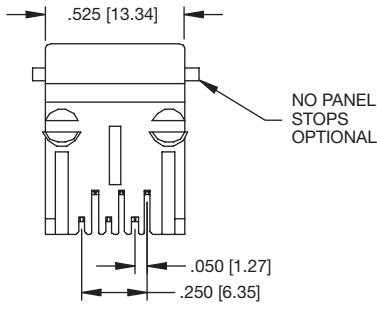
[Recommended PCB Layout](#)

**TYPE 0**  
**6P6C**  
**6P4C**

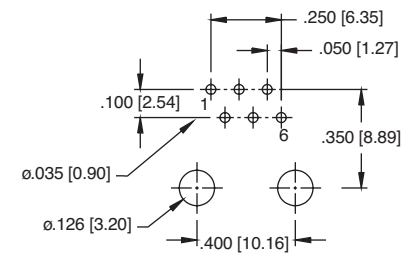


**MTJ-660X1**

[Ordering Information pg. 9](#)

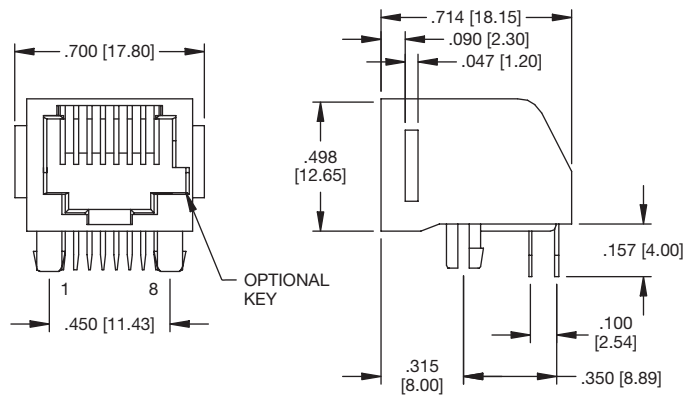


**Face Shield Option**



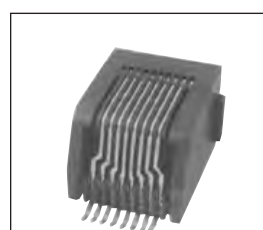
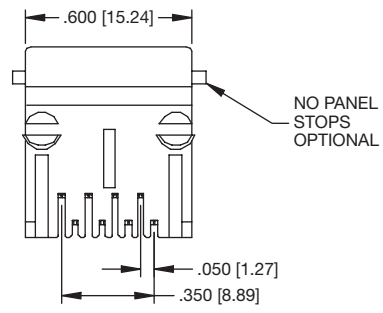
**Recommended PCB Layout**

**TYPE 0**  
**8P8C**

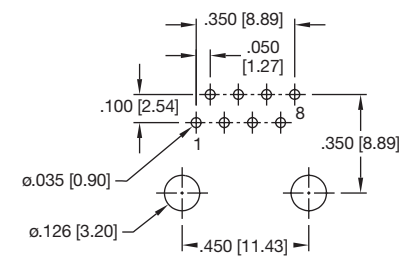


**MTJ-880X1**

[Ordering Information pg. 9](#)



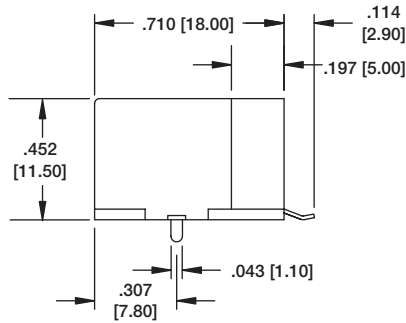
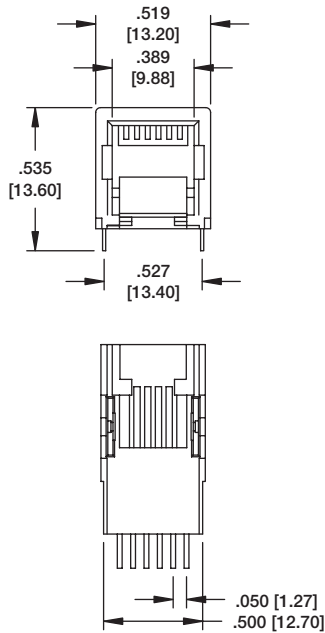
**SMT Option**



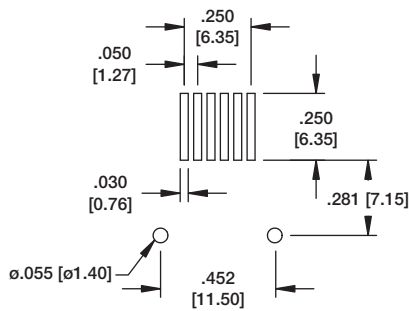
**Recommended PCB Layout**

Ordering Information pg. 9

**TYPE Y**  
6P6C  
6P4C

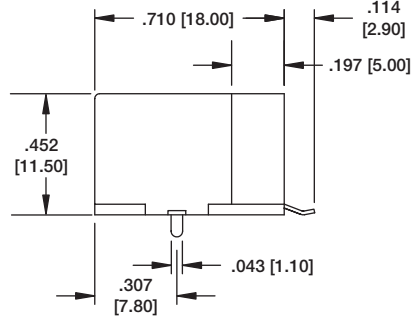
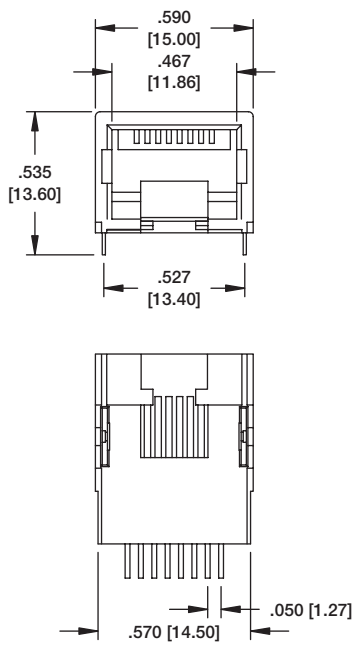


**MTJ-66YX1**

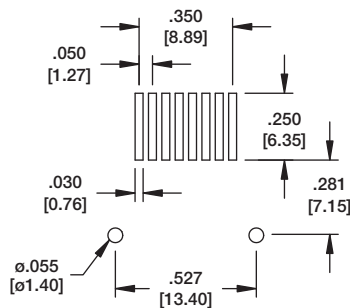


Recommended PCB Layout

**TYPE Y**  
8P8C

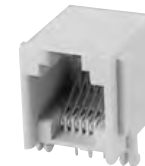
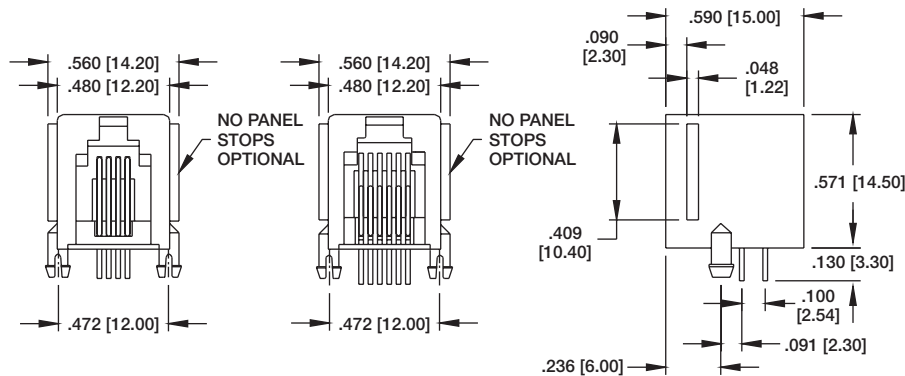


**MTJ-88YX1**



Recommended PCB Layout

Ordering Information pg. 9

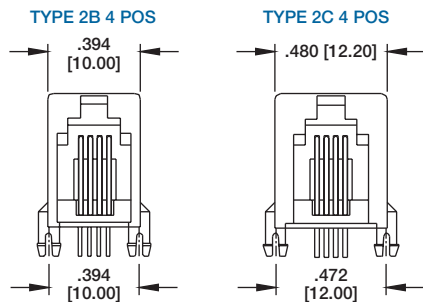


MTJ-662X2



MTJ-442X2

**TYPE 2**  
4P4C  
6P6C  
6P4C

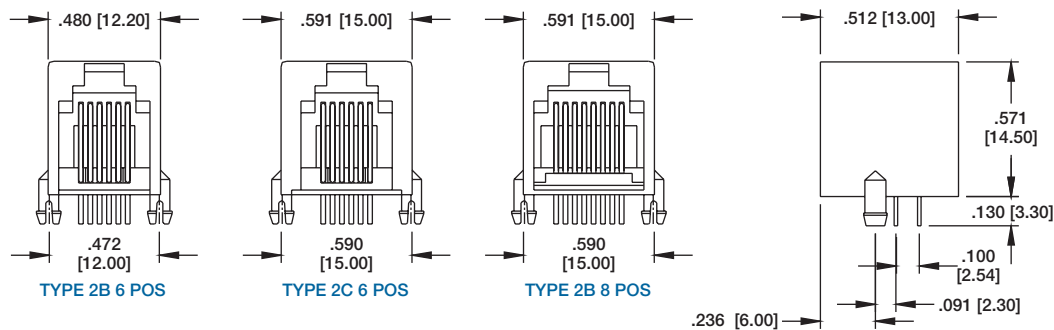


MTJ-442BX2



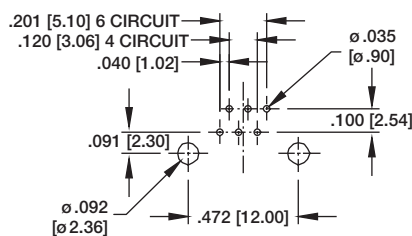
MTJ-662BX2

**TYPE 2B & 2C**  
4P4C  
6P6C  
6P4C  
8P8C

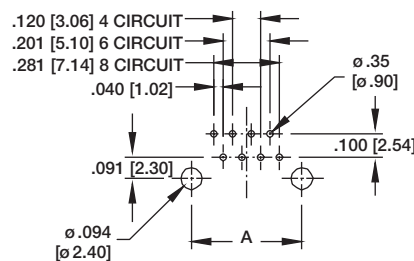


MTJ-882BX1

**TYPE 2**



**TYPE 2B & 2C**



Recommended PCB Layout

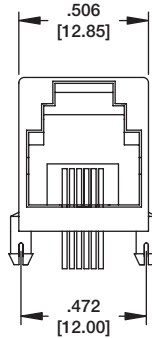
DIM. "A"	
TYPE 2B 4P4C	.394 [10.00]
TYPE 2C 4P4C	.472 [12.00]
TYPE 2B 6P6C	.472 [12.00]
TYPE 2C 6P6C	.591 [15.00]
TYPE 2B 8P8C	.590 [15.00]



Ordering Information pg. 9

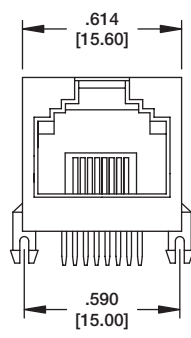
**TYPE 2B  
SHIELDED**  
6P6C  
6P4C  
8P8C

**MTJ-662BX1-FS**

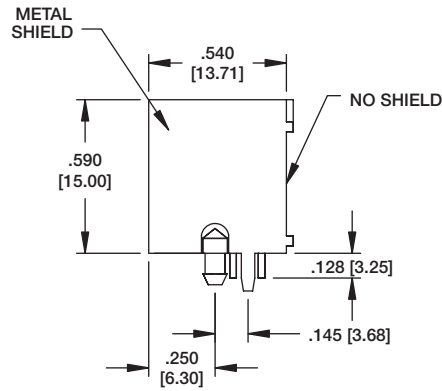


**6 POS  
2B SHIELDED**

**MTJ-882BX1-FS**



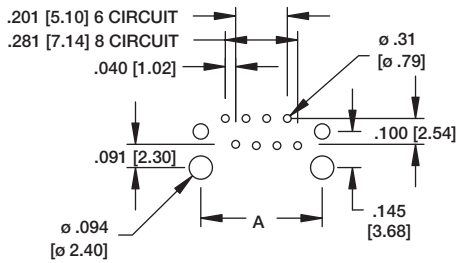
**8 POS  
2B SHIELDED**



**MTJ-662BX1-FS**

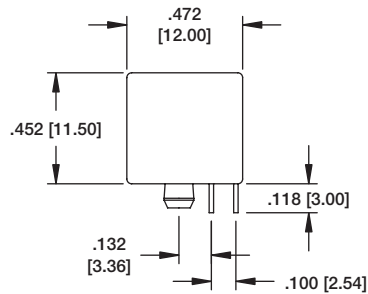
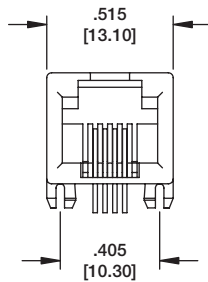


**MTJ-882BX1-FS**

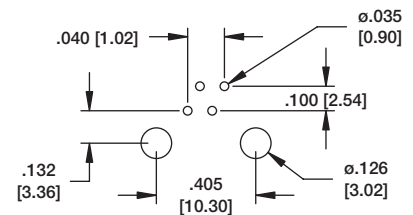
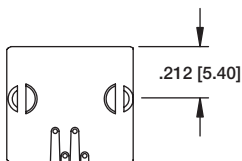


**Recommended PCB Layout**

DIM. "A"	
TYPE 2B 6P6C	.472 [12.00]
TYPE 2B 8P8C	.590 [15.00]



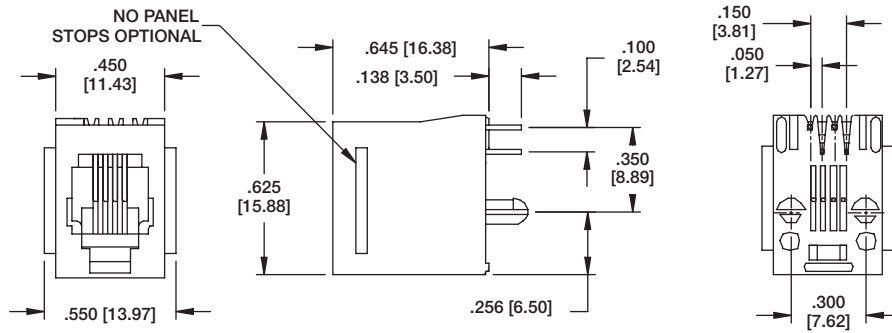
**MTJ-44QX1**



**Recommended PCB Layout**

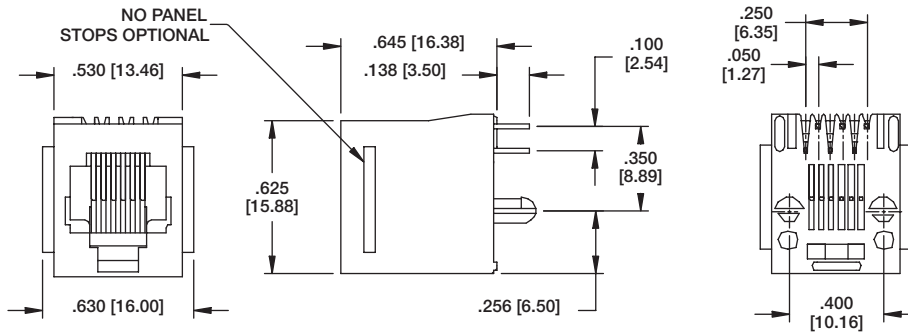
Ordering Information pg. 9

**TYPE 3**  
**4P4C**



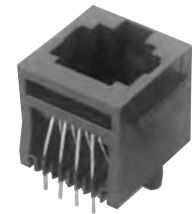
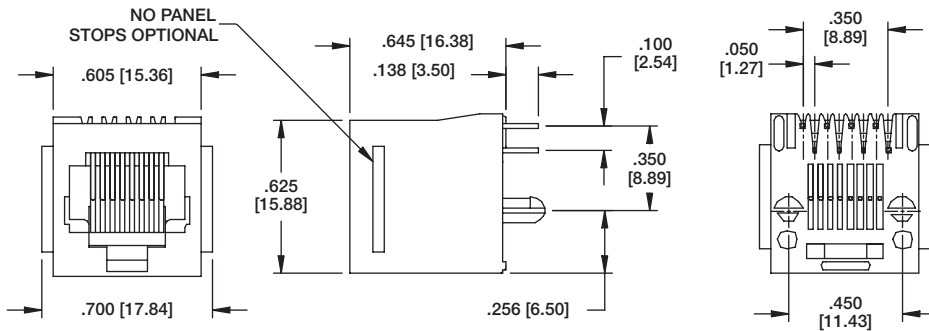
**MTJ-443X1**

**TYPE 3**  
**6P4C**



**MTJ-663X1**

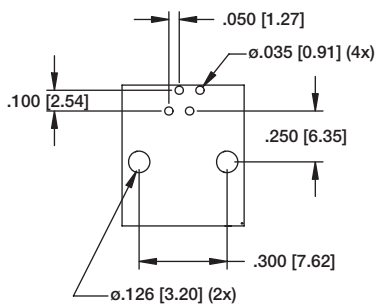
**TYPE 3**  
**8P8C**



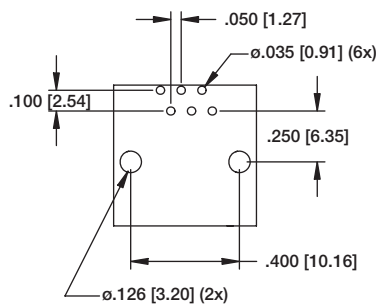
**MTJ-883X1**

**Recommended PCB Layout**

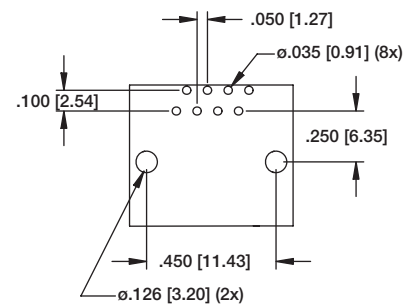
**4p4c**



**6p4c**  
**6p6c**

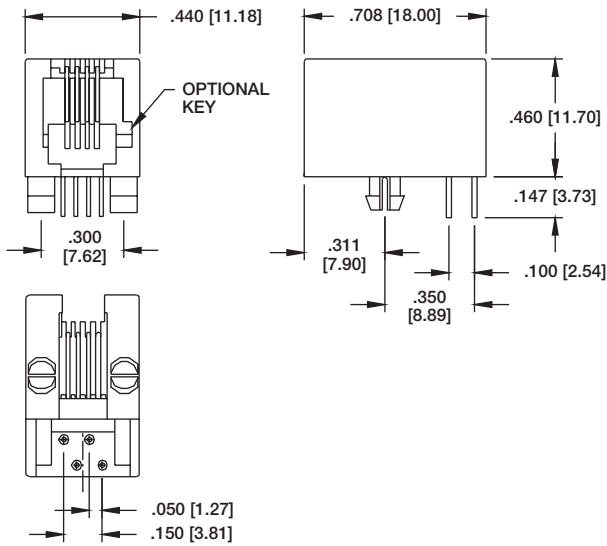


**8p8c**



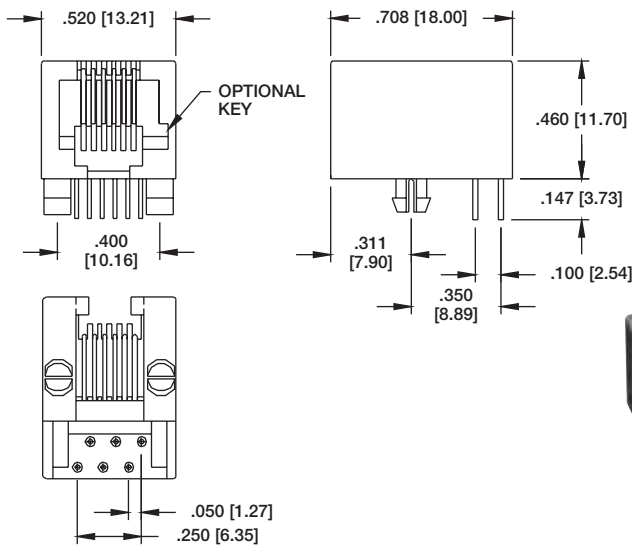
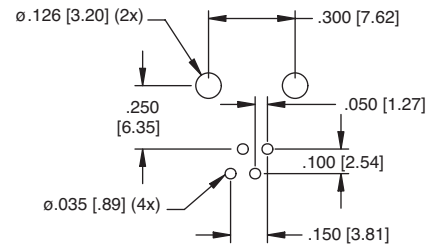
Ordering Information pg. 9

**TYPE 5**  
**4P4C**



**MTJ-445X1**

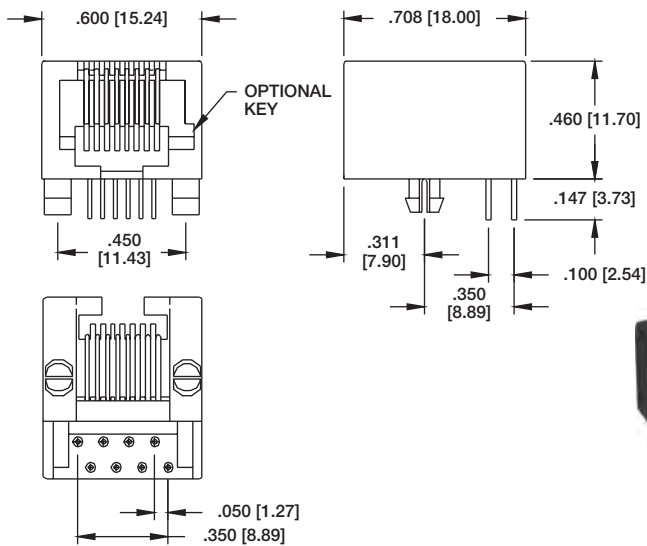
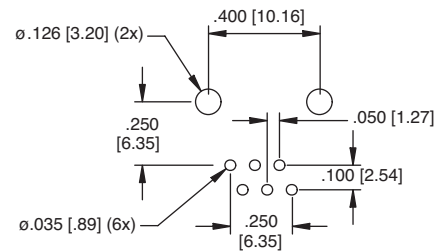
**Recommended PCB Layout**



**MTJ-665X1**

**TYPE 5**  
**6P4C**  
**6P6C**

**Recommended PCB Layout**



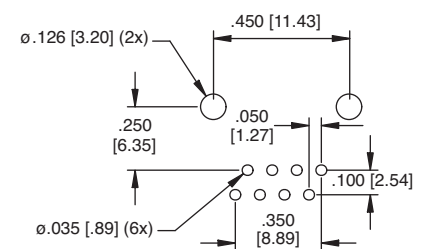
**MTJ-885X1**

**TYPE 5**  
**8P8C**

**MT Option**

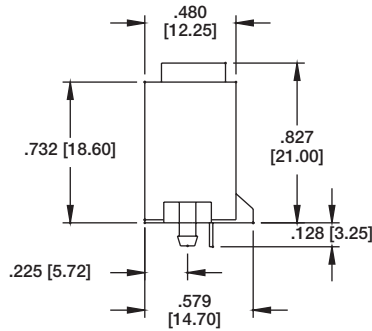
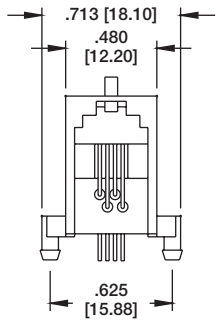


**Recommended PCB Layout**



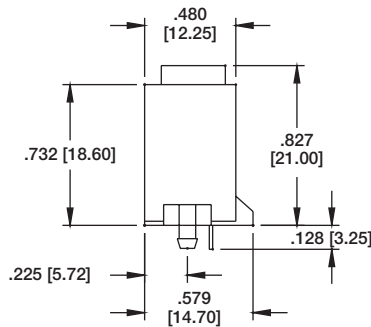
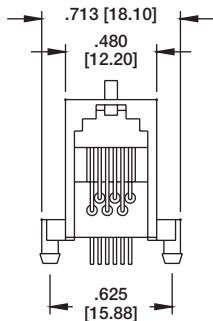
Ordering Information pg. 9

**TYPE 7**  
**4P4C**



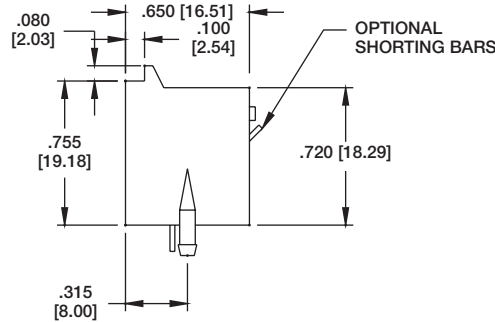
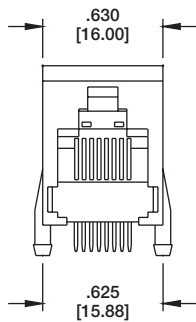
**MTJ-447X1**

**TYPE 7**  
**6P4C**  
**6P6C**



**MTJ-647X1**

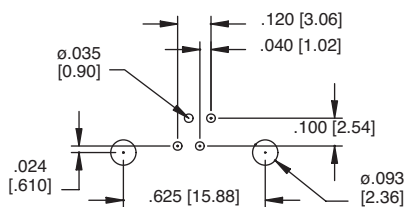
**TYPE 7**  
**8P8C**



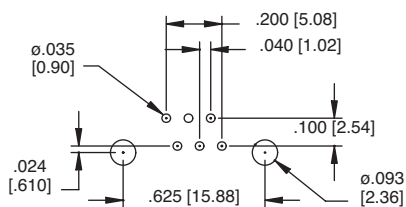
**MTJ-887X1**

**Recommended PCB Layout**

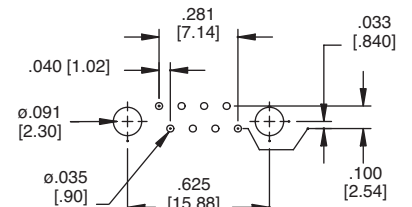
**4p4c**



**6p4c**  
**6p6c**



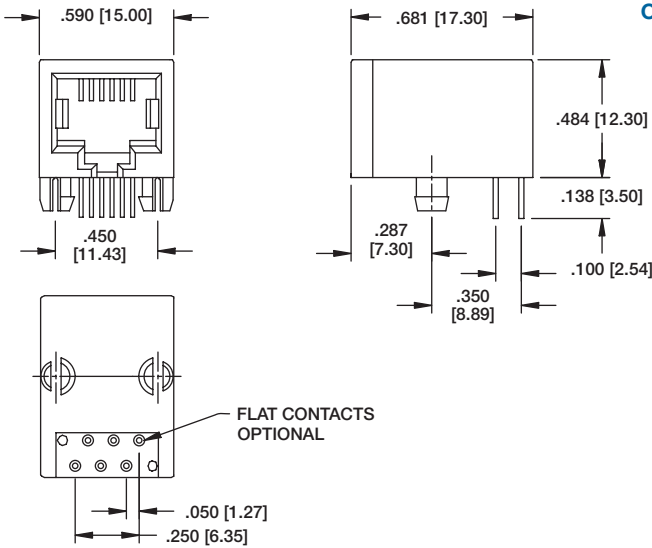
**8p8c**



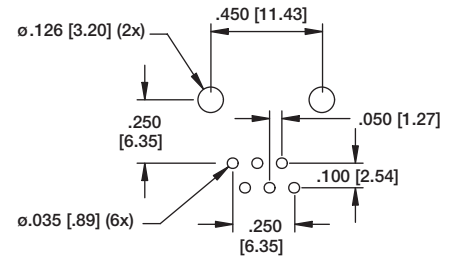


Ordering Information pg. 9

**TYPE 9**  
6P4C  
6P6C

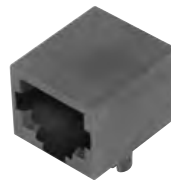
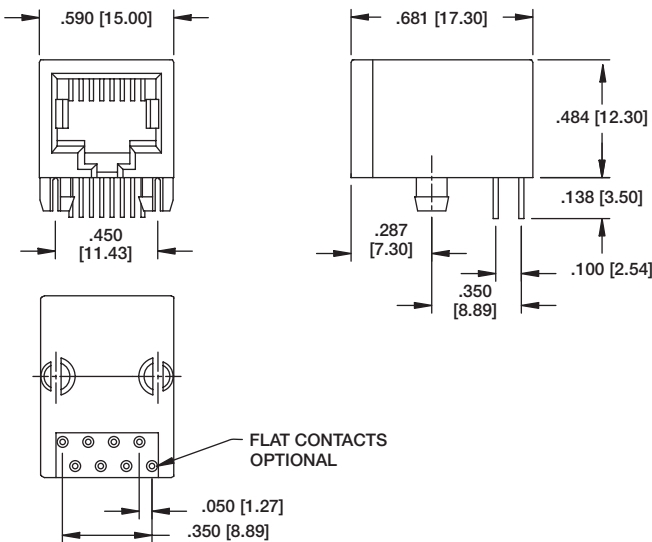


**MTJ-669X1**

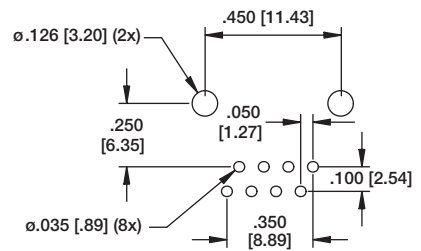


**Recommended PCB Layout**

**TYPE 9**  
8P8C



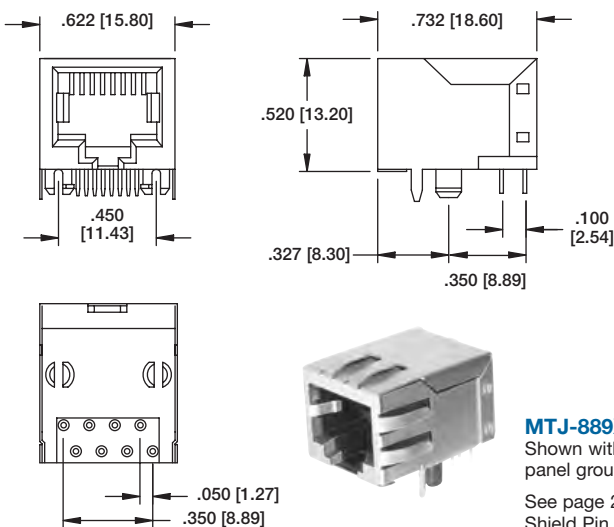
**MTJ-889X1**



**Recommended PCB Layout**

**TYPE 9**  
8P8C  
SHIELDED

**SMT Option**

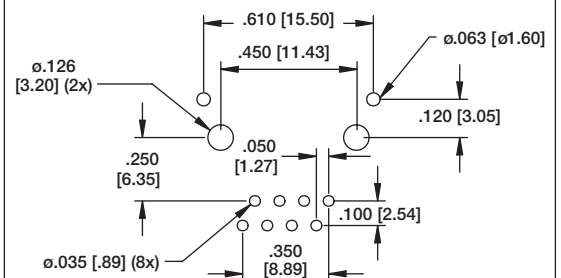
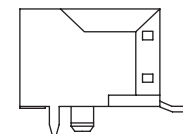


**MTJ-889X1-FSE**

**MTJ-889X1-FSE-PG**

Shown with optional panel ground tabs

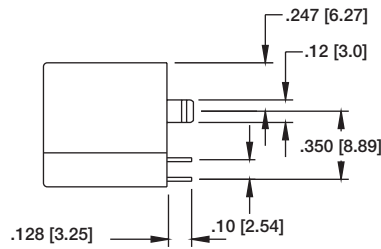
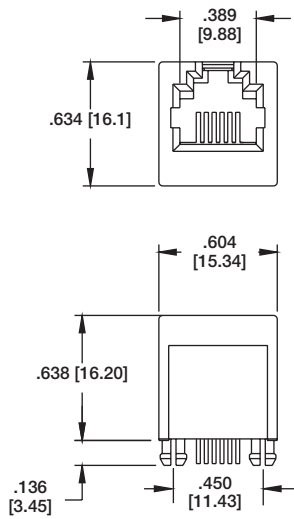
See page 20 for other Shield Pin Location Options



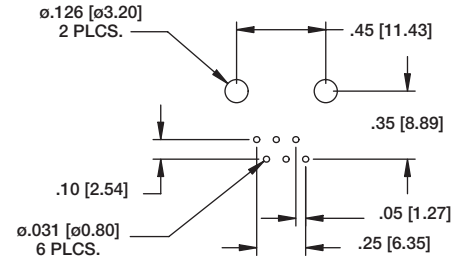
**Recommended PCB Layout**

Ordering Information pg. 9

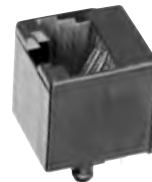
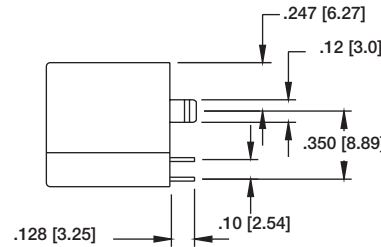
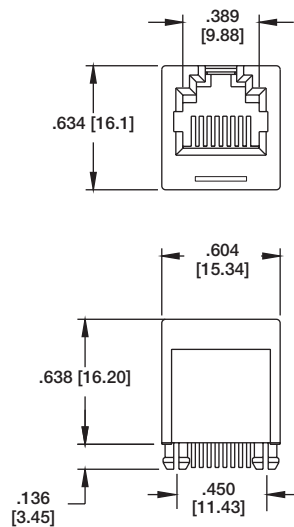
**TYPE F**  
**6P6C**



**MTJ-66FX1**

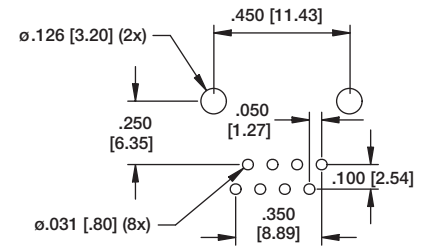


Recommended PCB Layout

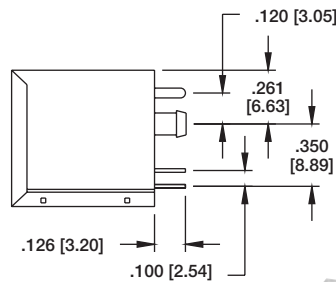
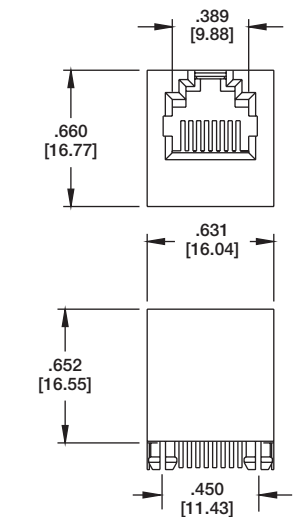


**MTJ-88FX1**

**TYPE F**  
**8P8C**

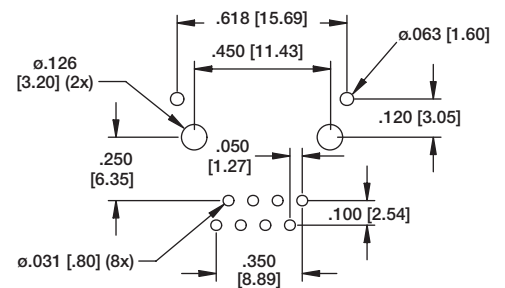


Recommended PCB Layout



**MTJ-88FX1-FS**

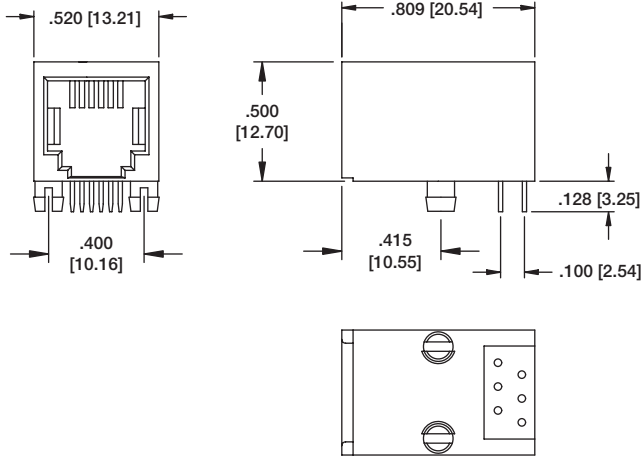
**TYPE F**  
**SHIELDED**  
**8P8C**



Recommended PCB Layout

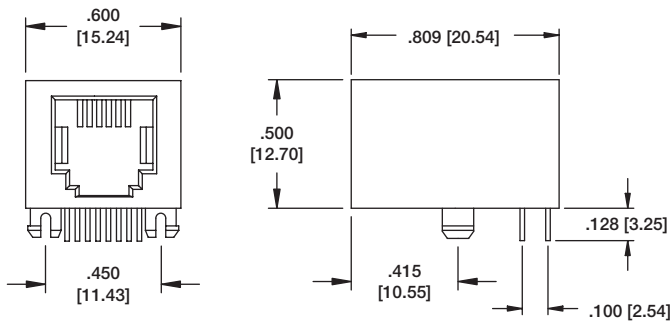
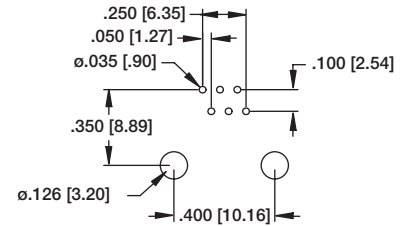
Ordering Information pg. 9

**TYPE G**  
**6P6C**



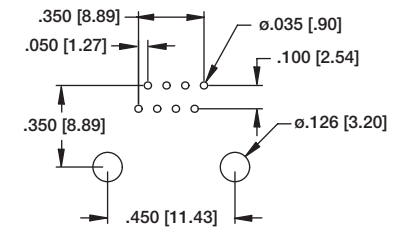
**MTJ-66GX1**

**Recommended PCB Layout**

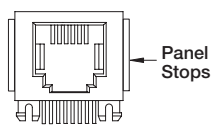


**MTJ-88GX1**

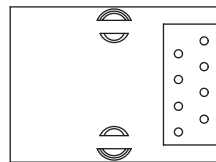
**Recommended PCB Layout**



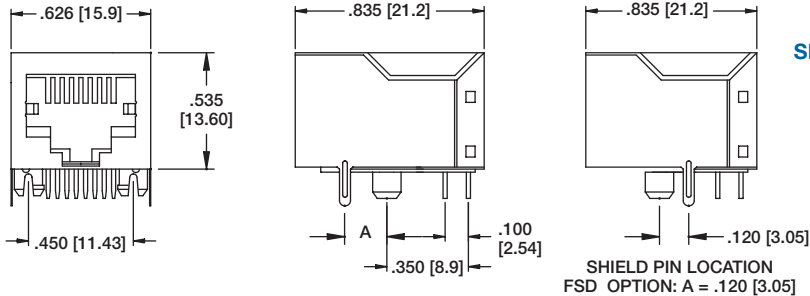
**TYPE G**  
**8P8C**



Available with optional panel stops  
Add -PS to end of part No.

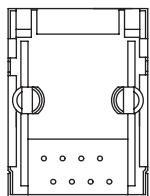


**TYPE G**  
**SHIELDED**  
**8P8C**



**SHIELD PIN LOCATION OPTIONS**

- FSA OPTION: A = .170 [4.32]
- FSB OPTION: A = .144 [3.66]
- FSE OPTION: A = .120 [3.05]

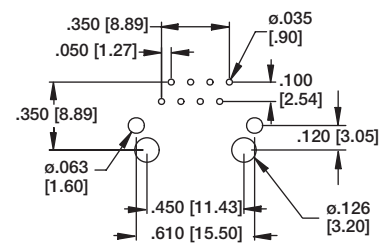


**MTJ-88GX1-FSB-PG**  
Shown with Full Metal Shield & Panel Ground Tab options

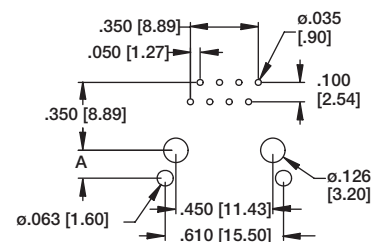


**MTJ-88GX1-FSD**  
Shown with Full Metal Shield option

**Recommended PCB Layout (FSD)**

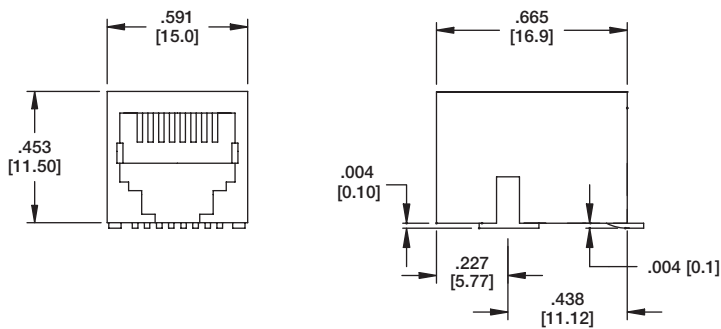


**PCB Layout (FSA, FSB, & FSE)**

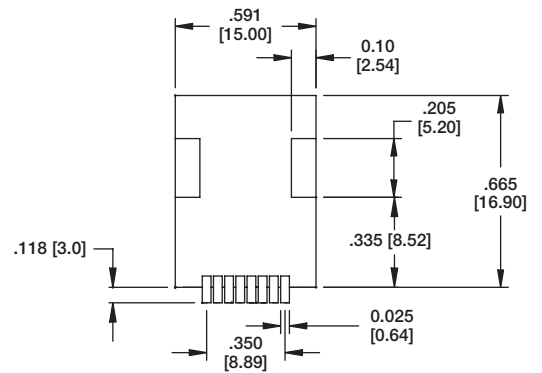
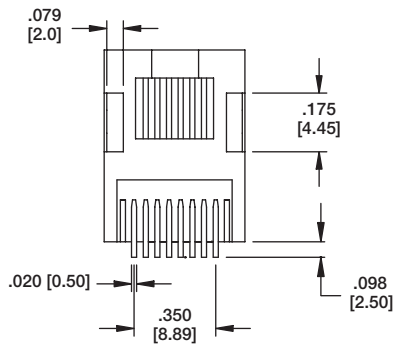


Ordering Information pg. 9

**TYPE WA**  
SMT TABS IN  
8P8C

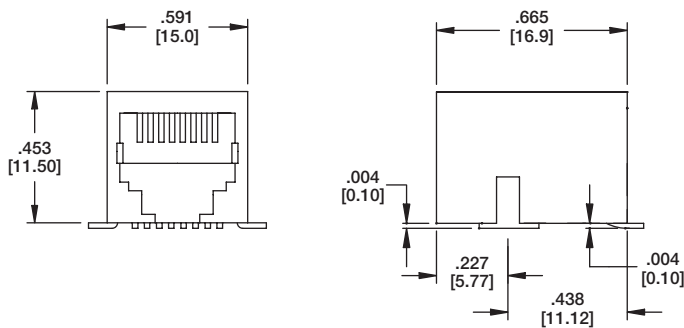


**MTJ-88WAX1**

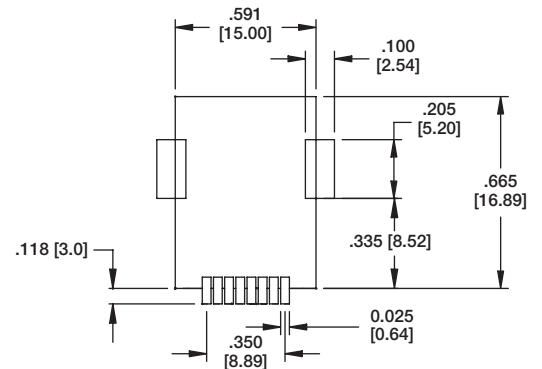
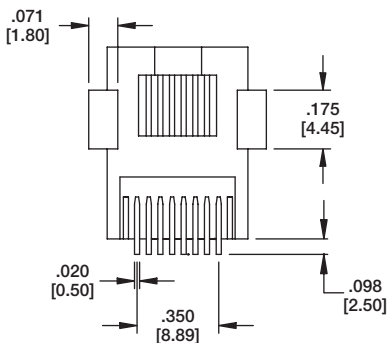


**Recommended Solder Pad Layout**

**TYPE WB**  
SMT TABS OUT  
8P8C



**MTJ-88WBX1**

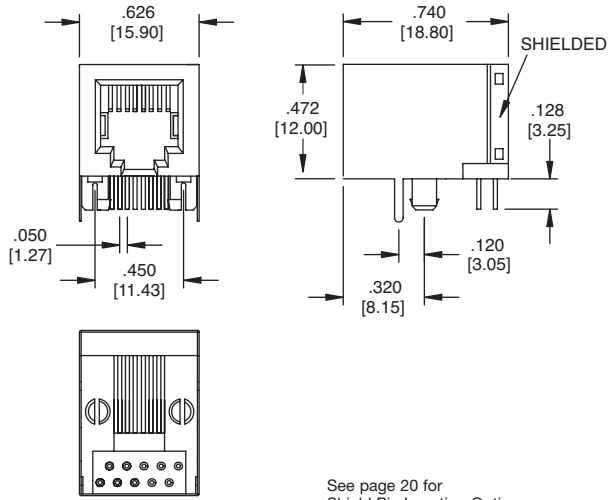


**Recommended Solder Pad Layout**



Ordering Information pg. 9

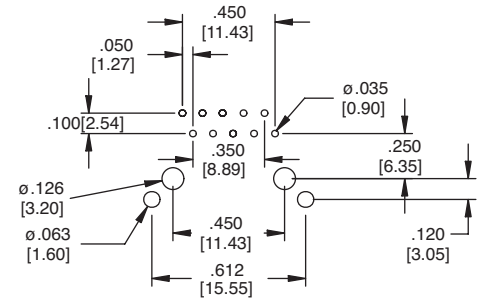
**TYPE W**  
**SHIELDED, THRU HOLE**  
**8P8C**  
**10P10C**



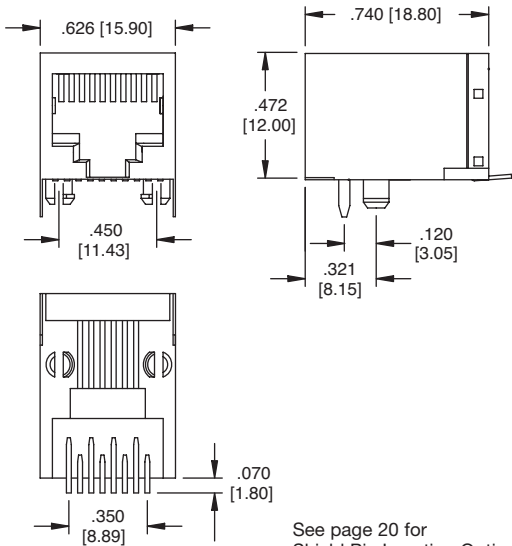
**MTJ-88WX1-FSE**



**MTJ-88WX1-FSE-PG**  
Shown with optional panel ground tabs



**Recommended PCB Layout**

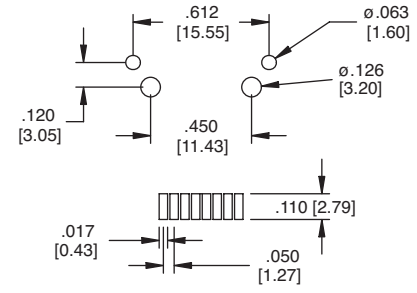


**MTJ-88WX1-FSE-SMT**

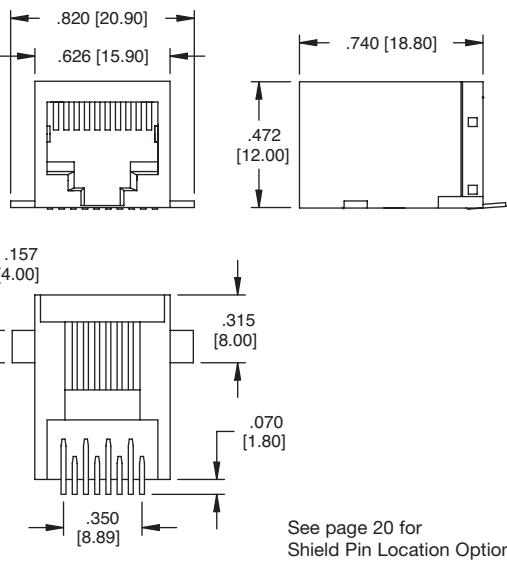


**MTJ-88WX1-FSE-SMT-PG**  
Shown with optional panel ground tabs

**TYPE W**  
**SHIELDED SMT WITH PLASTIC PEG**  
**8P8C**



**Recommended Solder Pad Layout**

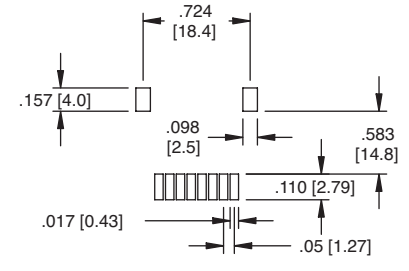


**MTJ-88WX1-FS-TSMT**



**MTJ-88WX1-FS-TSMT-PG**  
Shown with optional panel ground tabs

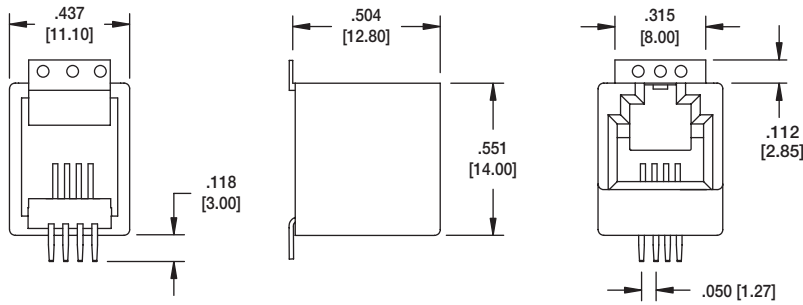
**TYPE W**  
**SHIELDED TRUE SMT**  
**8P8C**



**Recommended Solder Pad Layout**

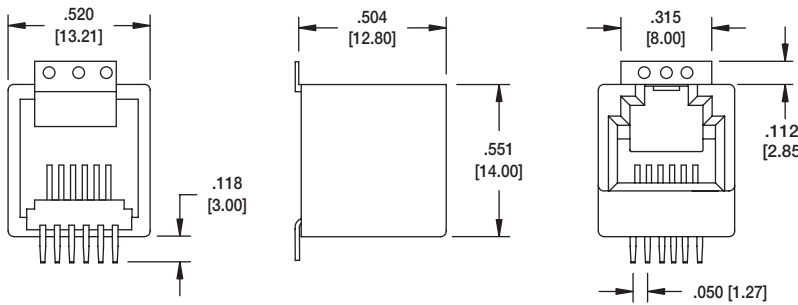
Ordering Information pg. 9

**TYPE H**  
**4P4C**



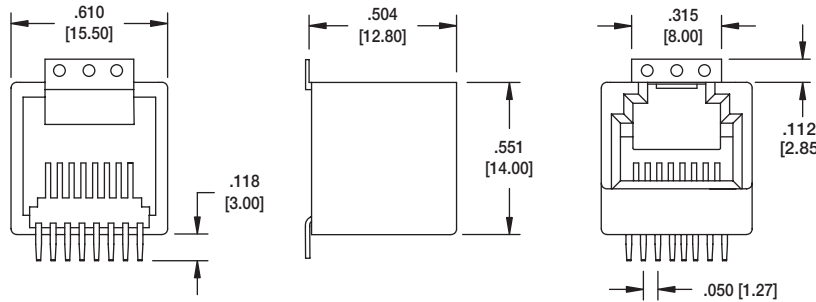
**MTJ-44HX1**

**TYPE H**  
**6P6C**



**MTJ-66HX1**

**TYPE H**  
**8P8C**



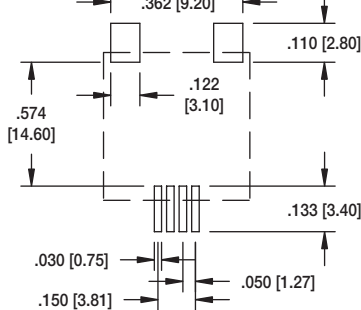
**MTJ-88HX1**



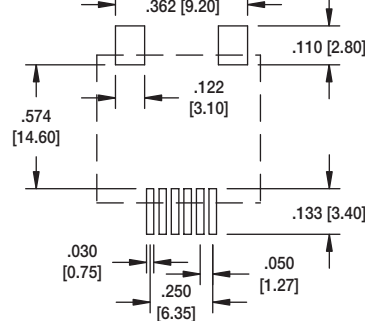
**MTJ-88HX1-FS**

Recommended PCB Layout

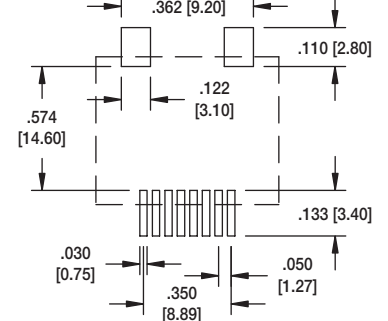
**4p4c**



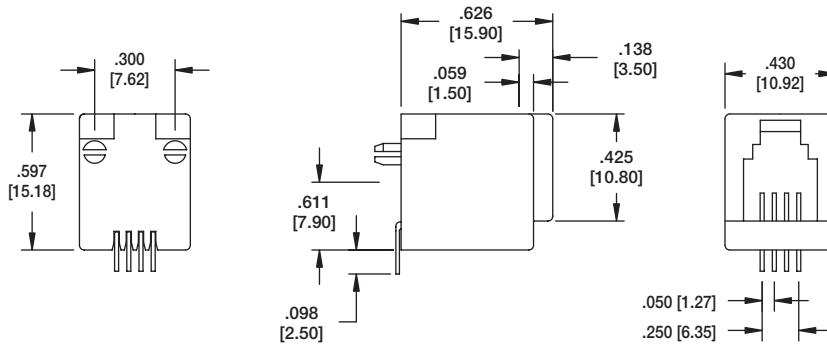
**6p6c**



**8p8c**



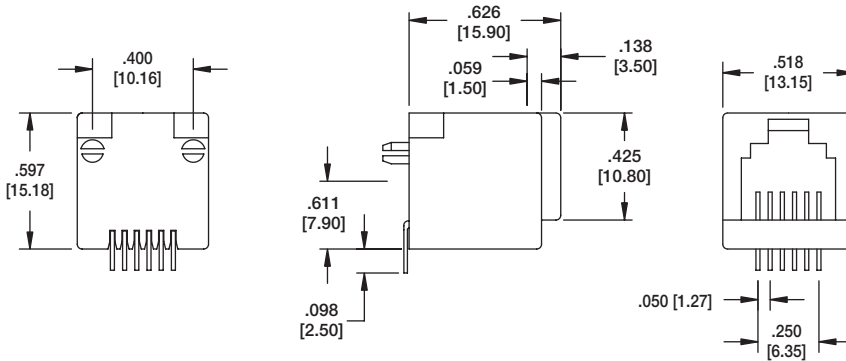
Ordering Information pg. 9



**TYPE K**  
4P4C



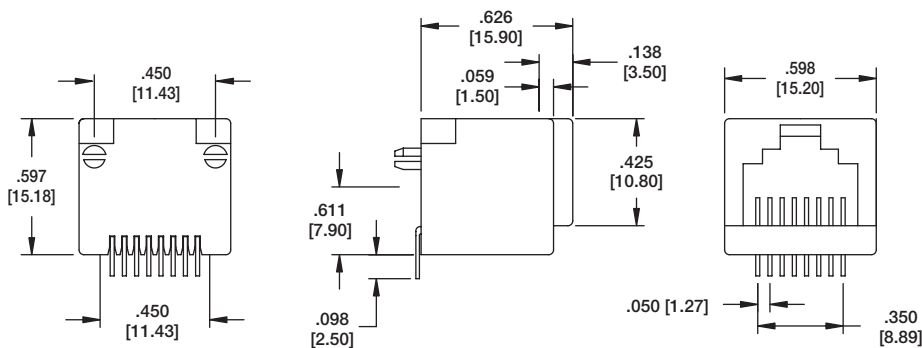
**MTJ-44KX1**



**TYPE K**  
6P4C  
6P6C



**MTJ-66KX1**



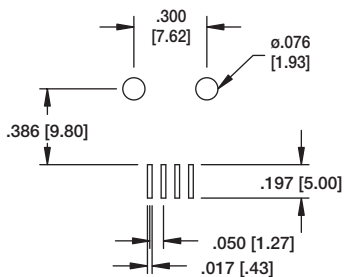
**TYPE K**  
8P8C



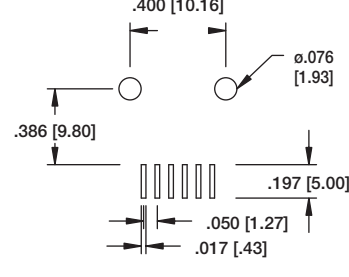
**MTJ-88KX1**

Recommended PCB Layout

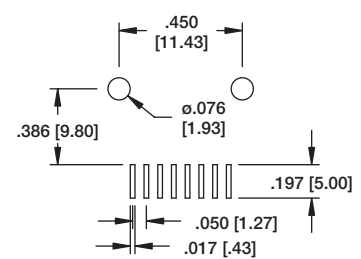
4p4c



6p4c

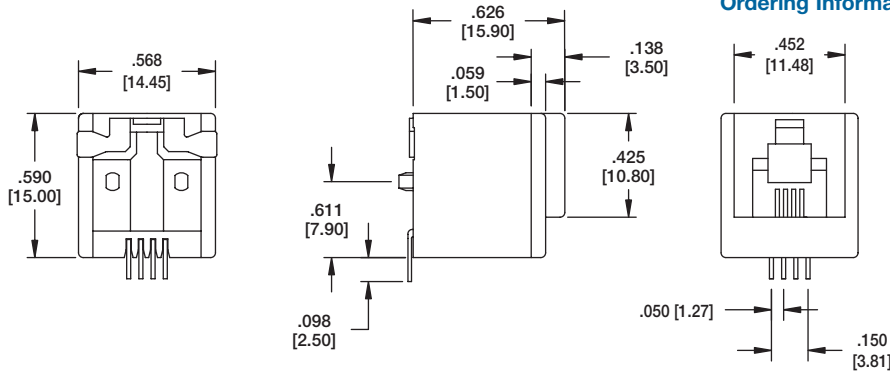


8p8c



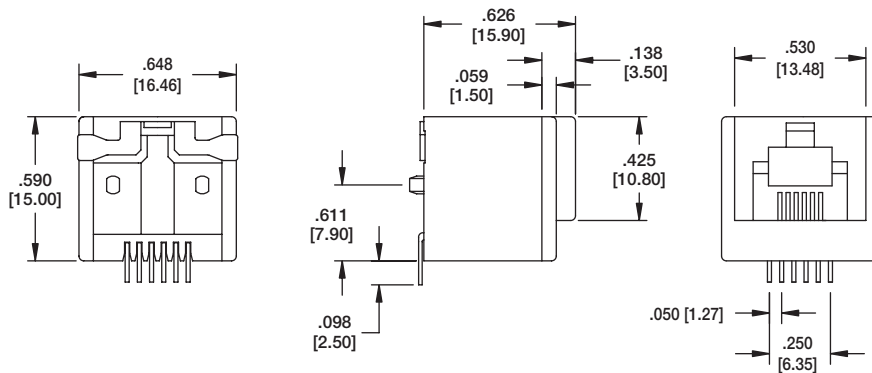
Ordering Information pg. 9

**TYPE V**  
**4P4C**



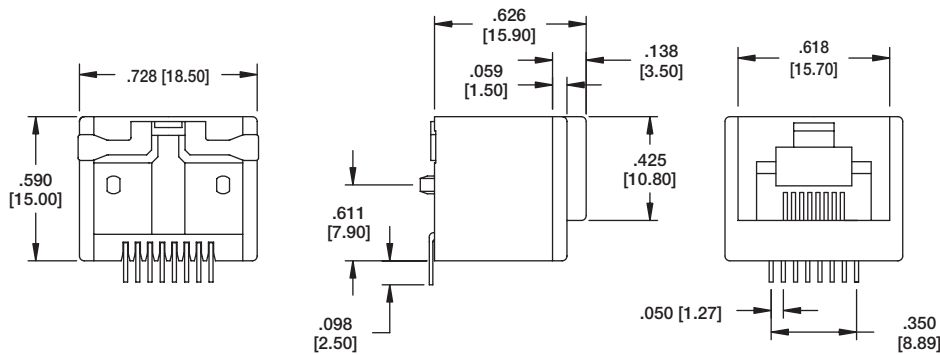
**MTJ-44VX1-SMT**

**TYPE V**  
**6P6C**  
**6P4C**



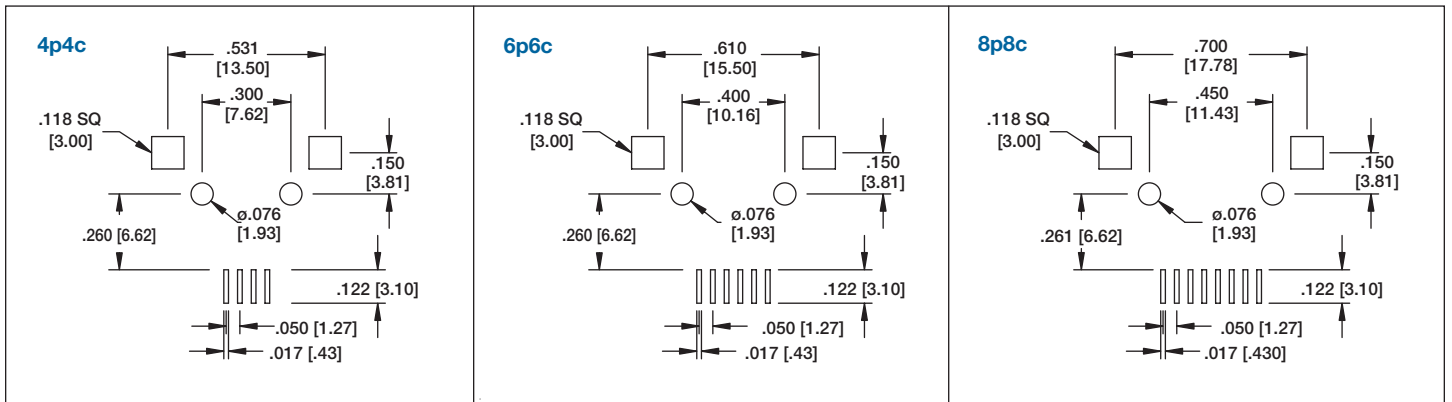
**MTJ-66VX1-SMT**

**TYPE V**  
**8P8C**



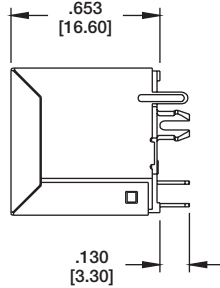
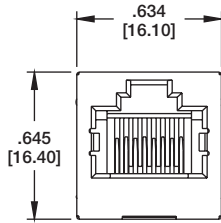
**MTJ-88VX1-SMT**

**Recommended PCB Layout**





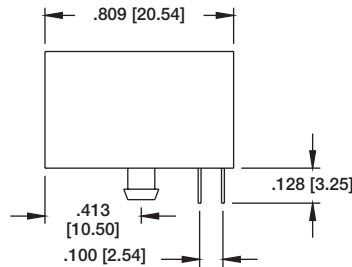
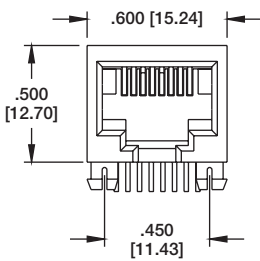
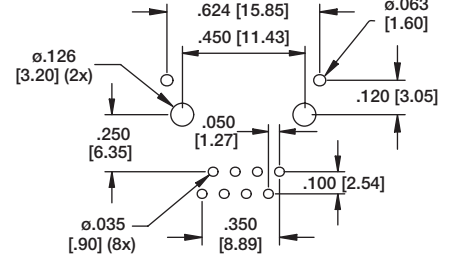
Ordering Information pg. 9



**MTJ-88AX1-FSE**

**TYPE A**  
**CAT. 5, TOP ENTRY**  
**8P8C**

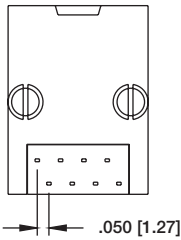
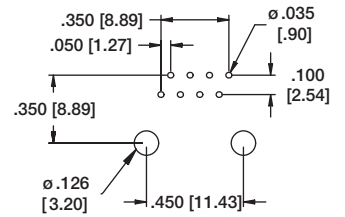
**Recommended PCB Layout**



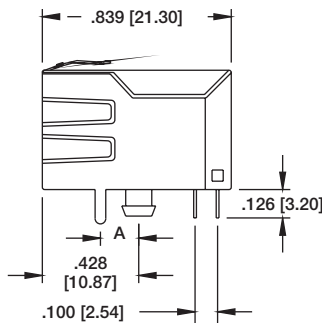
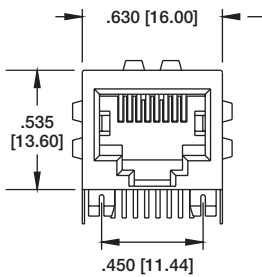
**MTJ-88TX1**

**TYPE T**  
**CAT. 5, SIDE ENTRY**  
**8P8C**

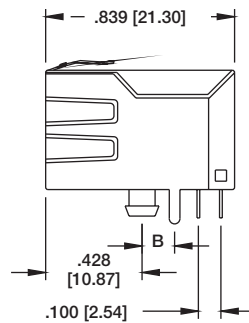
**Recommended PCB Layout**



**TYPE T**  
**CAT. 5, SHIELDED**  
**8P8C**



FSA, FSB & FSE

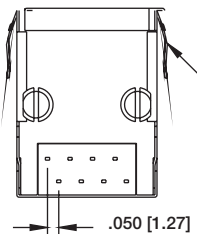


FSD = .120 [3.05]



**MTJ-88TX1-FSE-PG**

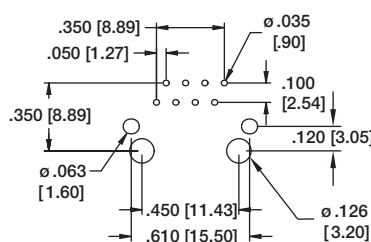
Available with or without panel ground tabs



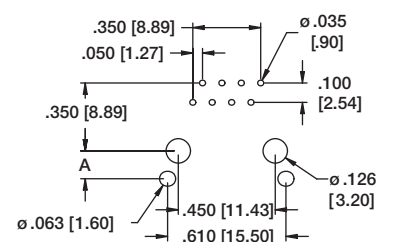
OPTIONAL  
PANEL GROUND TABS

Dimensions A & B  
SHIELD PIN LOCATION OPTIONS  
FSA OPTION: A = .170 [4.32]  
FSB OPTION: A = .144 [3.66]  
FSE OPTION: A = .120 [3.05]  
FSD OPTION: B = .120 [3.05]

**PCB Layout (FSD)**



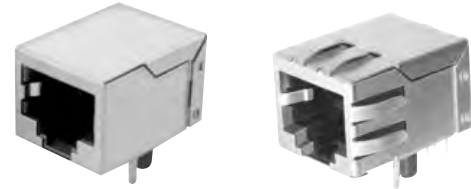
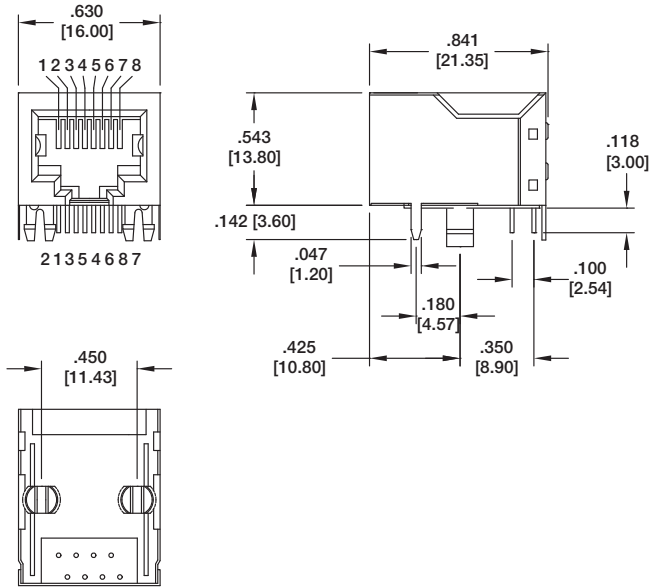
**PCB Layout (FSA, FSB & FSE)**





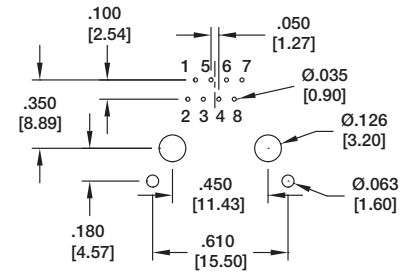
#### TYPE T

CAT. 5e, SHIELDED



MTJ-88TX1-FSG-C5e

MTJ-88TX1-FSG-PG-C5e

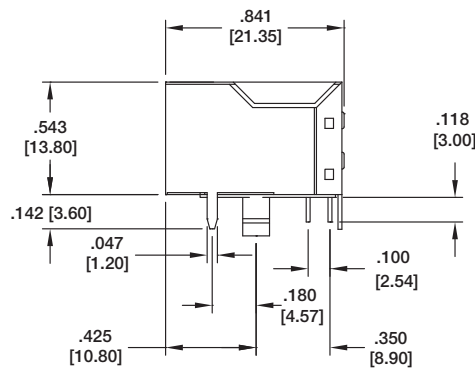
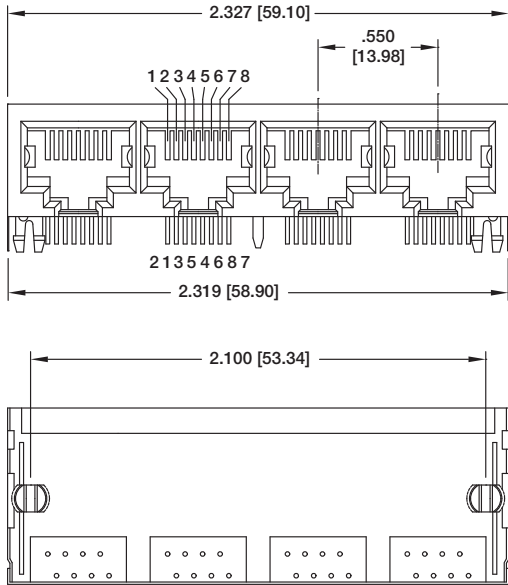


Recommended PCB Layout

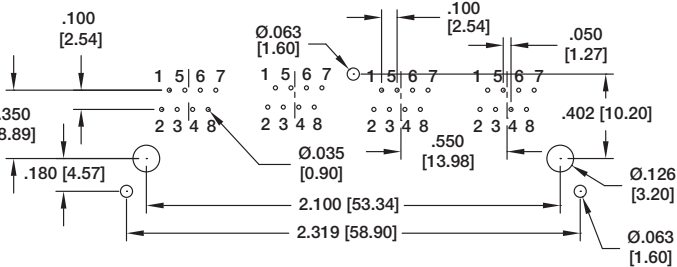
#### TYPE T

GANGED

CAT. 5e, SHIELDED



MTJG-4-88TX1-FSG-C5e



Recommended PCB Layout



MTJG-4-88TX1-FSG-PG-C5e

**TYPE AR**  
LED JACK .531" HEIGHT  
TOP TAB & TOP LEDs, THRU HOLE  
8P8C

**MTJ-88ARX1-FS-LG**  
Also available with panel ground tabs

**TYPE AA**  
LED JACK BOTTOM TAB &  
BOTTOM LEDs THRU HOLE  
8P8C

**MTJ-88AAX1-FSV-LG**

**TYPE D**  
TOP ENTRY LED JACK .610" HEIGHT WITH LEDs, NON-SHIELDED  
8P8C

**MTJ-88DX1-LG**

Add suffix to end of P/N:

LED CONFIGURATION		
SUFFIX	LED 1	LED 2
LA	YELLOW	YELLOW
LD	GREEN	GREEN

See pg. 43 for additional LED options

**Recommended PCB Layout**

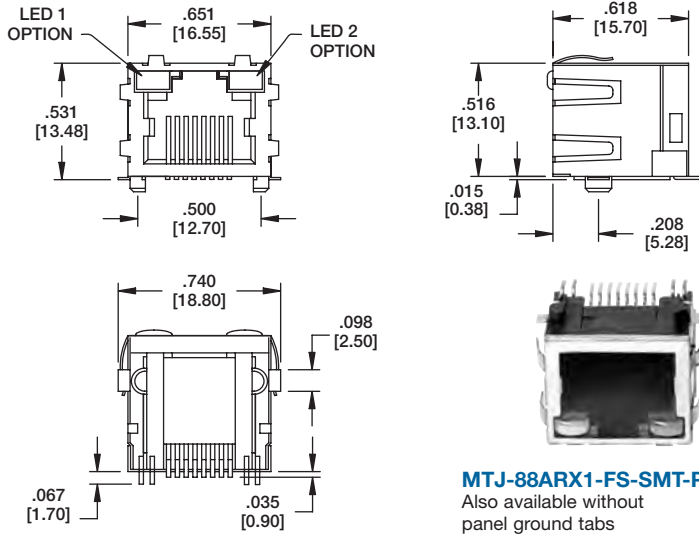
### JACKS WITH LEDs ORDERING INFORMATION

<b>MTJ</b>	<b>8</b>	<b>8</b>	<b>AR</b>	<b>2</b>	<b>1</b>	<b>LD</b>
<b>SERIES INDICATOR</b> MTJ = Modular telephone jack	<b>HOUSING PLUG SIZE</b> 8 or 10	<b>NO. OF CONTACT POSITIONS FILLED</b> 6, 8 or 10	<b>HOUSING TYPE</b> AR, AA, D, G	<b>PLATING</b> X = Gold Flash 0 = 15 μin gold 1 = 30 μin gold 2 = 50 μin gold	<b>BODY COLOR</b> 1 = Black 2 = Gray	<b>LED CONFIGURATION</b> See Chart above <i>Leave blank for no LEDs</i>

**OPTIONS:**  
**SMT** = Surface mount tails with Hi-Temp insulator  
**PG** = Panel Ground Tabs  
**LX** = LEDs, use LA, LD, LG, LH, LI, see LED Configuration Chart

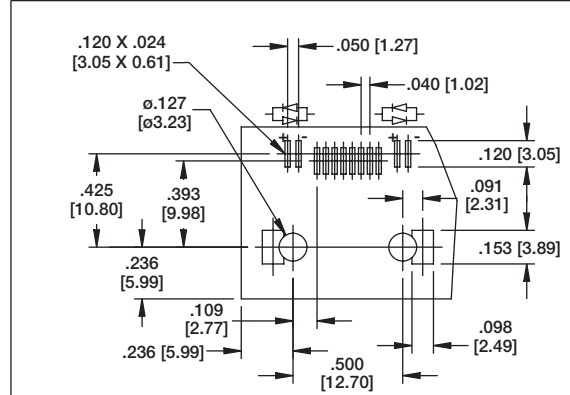
Ordering Information pg. 29

**TYPE AR  
WITH SMT OPTION  
8P8C**



**MTJ-88ARX1-FS-SMT-PG-LG**

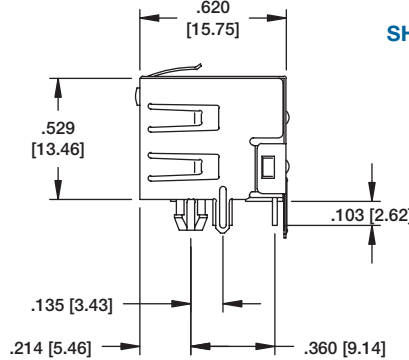
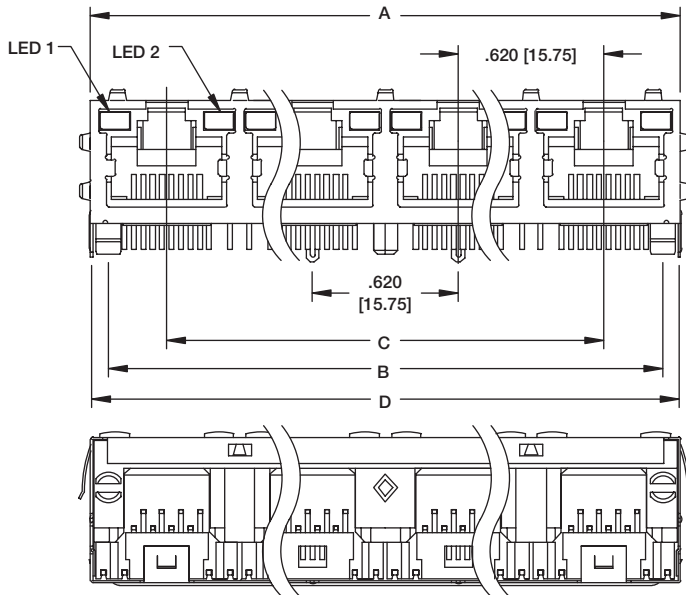
Also available without panel ground tabs



**Recommended PCB Layout**

Ordering Information pg. 34

**TYPE AR  
GANGED WITH METAL  
SHIELD, PANEL GROUND  
TABS AND  
LED OPTION  
8P8C**



**MTJG-4-88ARX1-FSM-PG-LG**

Shown with metal shield, panel ground tabs and LED options

Add suffix to end of P/N:

LED CONFIGURATION		
SUFFIX	LED 1	LED 2
LA	YELLOW	YELLOW
LD	GREEN	GREEN

**2, 4 & 8 Ports available**

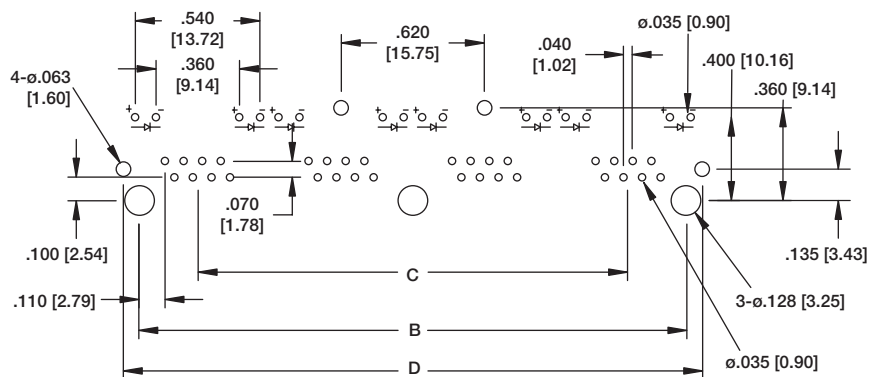
See pg. 43 for additional LED options

A = .620 [15.75] x No. of Ports + .029 [0.75]

B = .620 [15.75] x No. of Ports - 1 + .500 [12.70]

C = .620 [15.75] x No. of Ports - 1

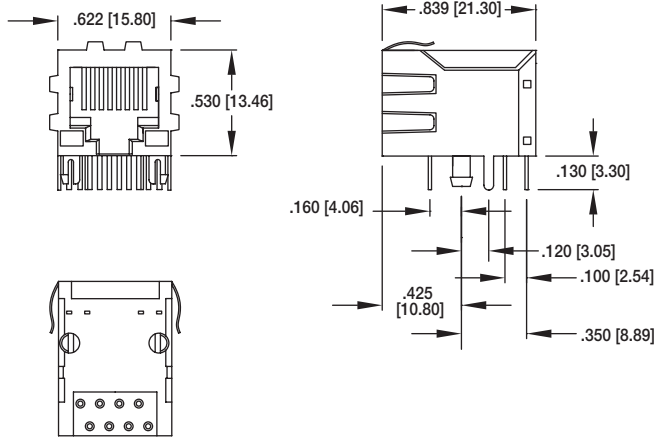
D = .620 [15.75] x No. of Ports + .019 [0.50]



**Recommended PCB Layout**

Ordering Information pg. 29

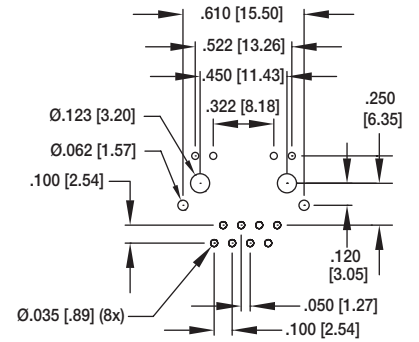
### TYPE G WITH LEDs



MTJ-88GX1-FSD-LH

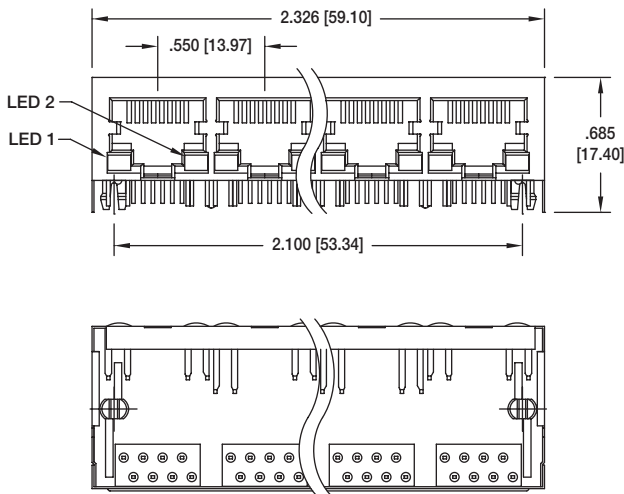


MTJ-88GX1-FSD-LH-PG

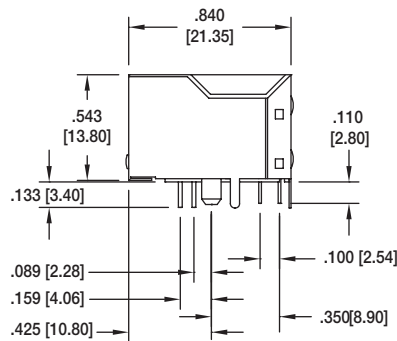


Recommended PCB Layout

### TYPE G GANGED WITH LEDs



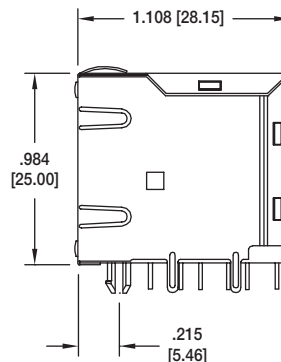
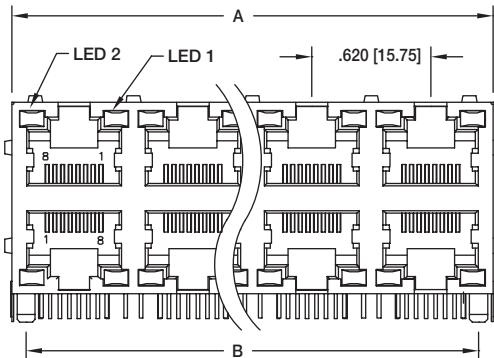
2, 4 & 6 PORTS AVAILABLE



MTJG-4-88GX1-FSD-PG-LG

Ordering Information pg. 34

### TYPE J STACKED WITH LEDs

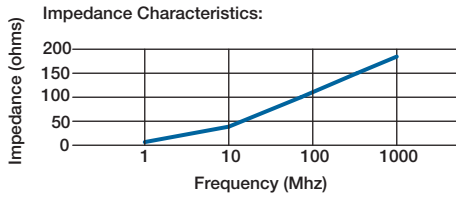


PART NUMBER	PORTS	DIMENSIONS	
		A	B
MTJG-2-88JX1-FSM-LXX	2 X 1	.650 [16.51]	.500 [12.70]
MTJG-4-88JX1-FSM-LXX	2 X 2	1.265 [32.15]	1.120 [28.45]
MTJG-8-88JX1-FSM-LXX	2 X 4	2.50 [63.65]	2.360 [59.95]
MTJG-12-88JX1-FSM-LXX	2 X 6	3.74 [95.15]	3.600 [91.45]

See pg. 43 for additional LED options

### FILTERED MODULAR JACKS

Inductive filtered modular jacks improve signal integrity and are available in a variety of styles including tin plated copper shielding with a choice of magnetic transformer or ferrite filter. Adam Tech offers drop in equivalents to all industry standard filtered jacks



Ordering Information pg. 9

**TYPE M**

**EMI FERRITE FILTERED JACK**



**MTJ-88MX1**  
Non-Shielded



**MTJ-88MX1-FSE**  
Metal Shielded

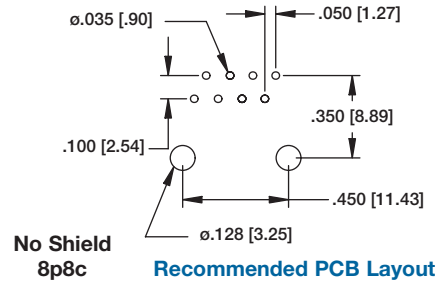
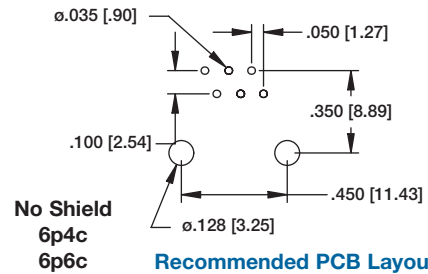
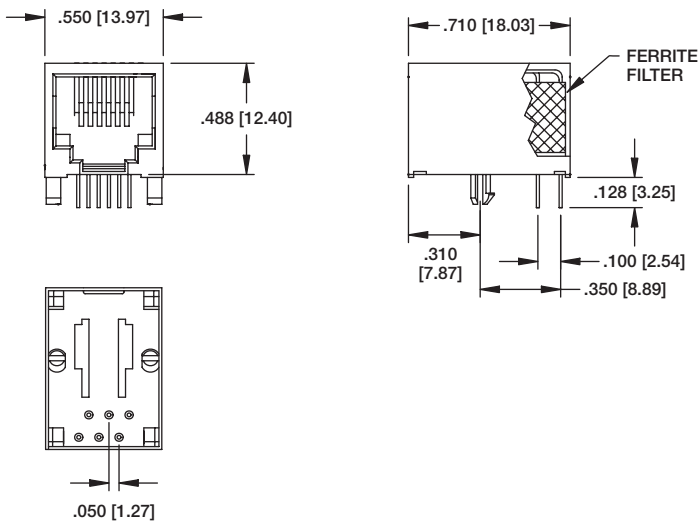


**MTJ-88MX1-FSE-PG**  
Metal Shielded with panel ground tabs

### EMI FERRITE FILTERED JACK

**TYPE M**

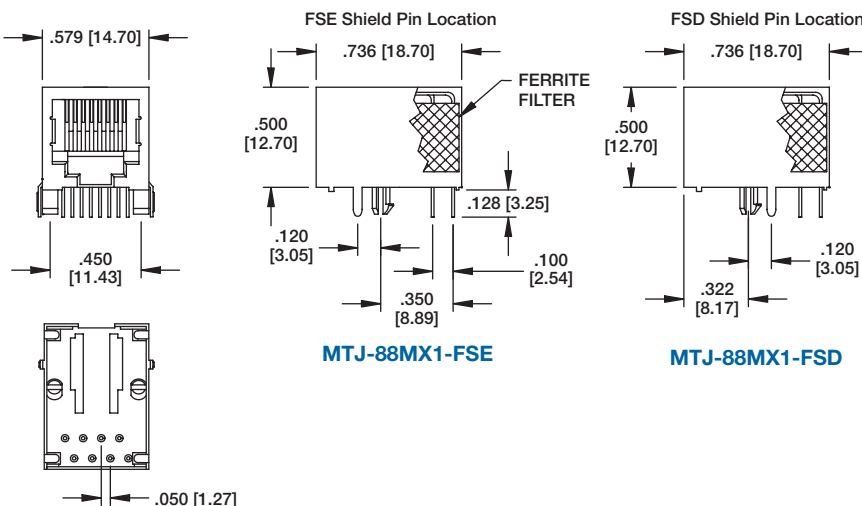
**6P6C  
6P4C**



### EMI FERRITE FILTERED & SHIELDED JACK

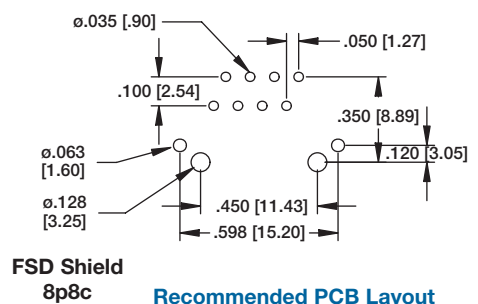
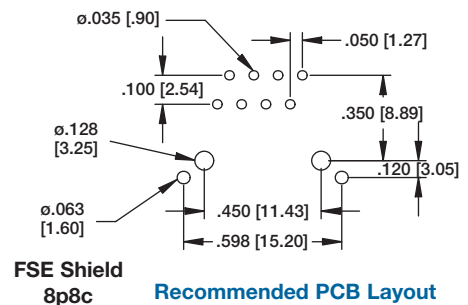
**TYPE M**

**8P8C**

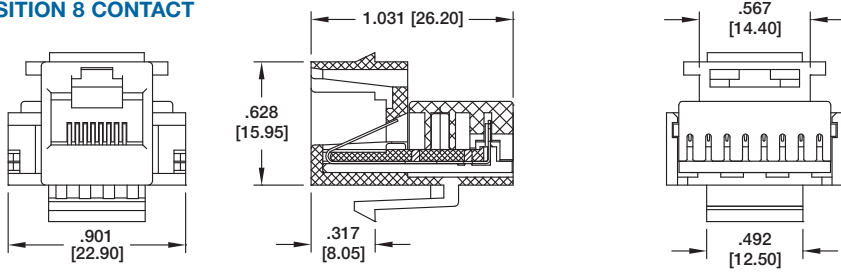


**MTJ-88MX1-FSE**

**MTJ-88MX1-FSD**

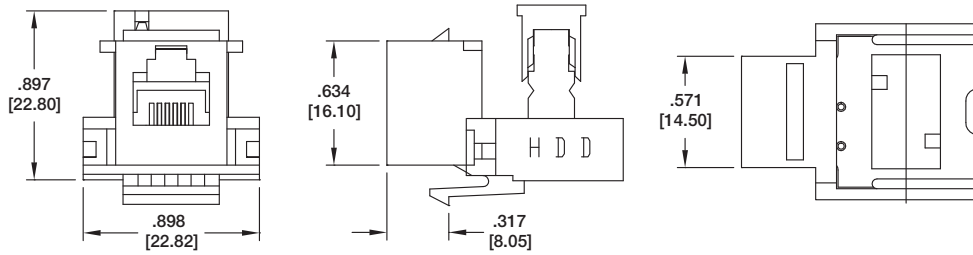


**CAT. 3 KEYSTONE JACK  
8 POSITION 8 CONTACT**



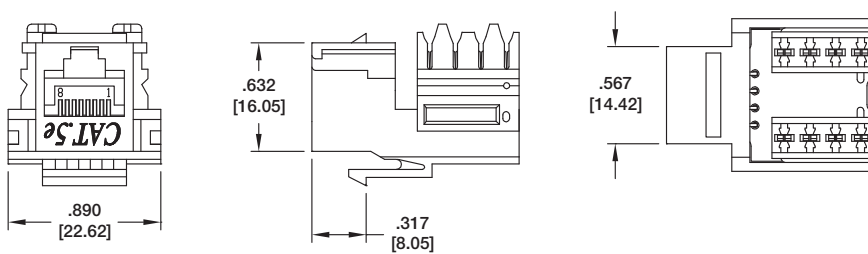
**MTJK-88-10**

**CAT. 3 KEYSTONE JACK  
6 POSITION 4 CONTACT**



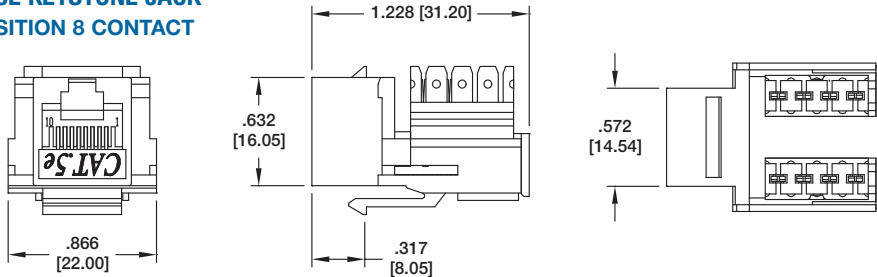
**MTJK-64-29**

**CAT. 5E KEYSTONE JACK  
8 POSITION 8 CONTACT**



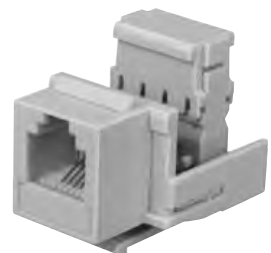
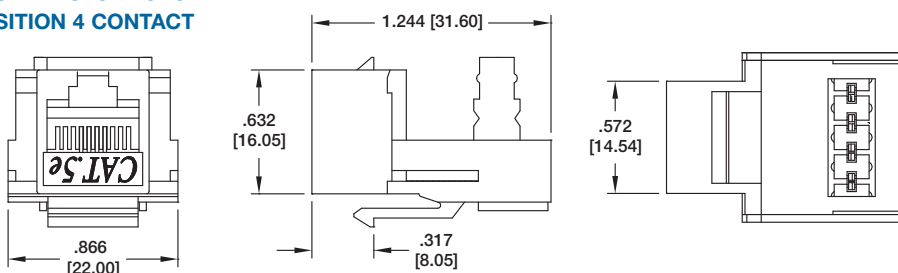
**MTJK-88-02-C5E**

**CAT. 5E KEYSTONE JACK  
8 POSITION 8 CONTACT**



**MTJK-88-05-C5E**

**CAT. 5E KEYSTONE JACK  
8 POSITION 4 CONTACT**



**MTJK-84-01-C5E**



### ORDERING INFORMATION GANGED JACKS WITHOUT LEDs

<b>MTJG</b>	<b>2</b>	<b>64</b>	<b>2</b>	<b>2</b>	<b>1</b>
<p><b>SERIES INDICATOR</b> MTJG = Ganged Telephone Jack</p>	<p><b>NO. OF PORTS</b> 2 thru 16</p>	<p><b>PORT SIZE / POSITIONS FILLED</b> 64 = 6 position, 4 contacts (6P4C) 66 = 6 position, 6 contacts (6P6C) 88 = 8 position, 8 contacts (8P8C)</p>	<p><b>CONTACT PLATING</b> X = Gold flash 0 = 15 <math>\mu</math>in. gold 1 = 30 <math>\mu</math>in. gold 2 = 50 <math>\mu</math>in. gold</p>	<p><b>HOUSING TYPE</b> 2, 2B, 2C, 5, 7H, 7V, AR, C, G, J, N</p>	<p><b>HOUSING COLOR</b> 1 = Black 2 = Medium Gray (Housing Type 7 only)</p>



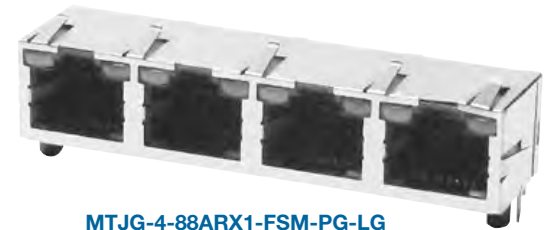
MTJG-12-88JX1-FSG-PG



MTJG-2-88GX1-FSG

### ORDERING INFORMATION GANGED JACKS WITH LEDs

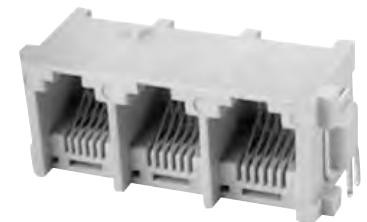
<b>MTJG</b>	<b>2</b>	<b>64</b>	<b>AR</b>	<b>2</b>	<b>1</b>	<b>LD</b>
<p><b>SERIES INDICATOR</b> MTJG = Ganged Telephone Jack</p>	<p><b>NO. OF PORTS</b> 2, 4, 6, 8, 12 or 16</p>	<p><b>PORT SIZE / POSITIONS FILLED</b> 62 = 6 position, 2 contacts (6P2C) 64 = 6 position, 4 contacts (6P4C) 66 = 6 position, 6 contacts (6P6C) 88 = 8 position, 8 contacts (8P8C)</p>	<p><b>HOUSING TYPE</b> AR, G, J</p>	<p><b>CONTACT PLATING</b> X = Gold flash 0 = 15 <math>\mu</math>in. gold 1 = 30 <math>\mu</math>in. gold 2 = 50 <math>\mu</math>in. gold</p>	<p><b>HOUSING COLOR</b> 1 = Black</p>	<p><b>LED CONFIGURATION</b> See Chart Below</p>



MTJG-4-88ARX1-FSM-PG-LG



MTJG-4-88GX1-FSB



MTJG-3-667HX2

**OPTIONS:**  
Add as suffix to basic part no.  
**FSX** = Full metal shield  
**PG** = Panel ground tabs  
**SMT** = Surface mount tails with Hi-Temp insulation for hi-temp soldering processes up to 260°C

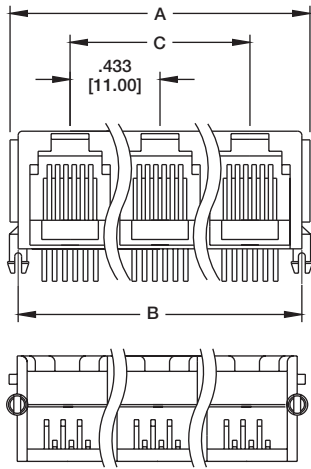
Add suffix to end of P/N:

LED CONFIGURATION		
SUFFIX	LED 1	LED 2
LA	YELLOW	YELLOW
LD	GREEN	GREEN
LG	YELLOW	GREEN
LH	GREEN	YELLOW
LI	ORANGE/ GREEN	ORANGE/ GREEN

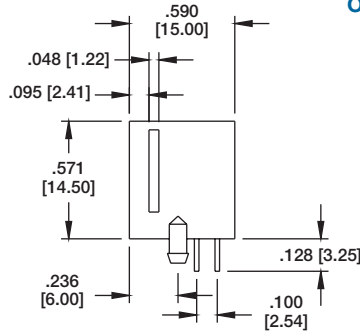


Ordering Information pg. 34

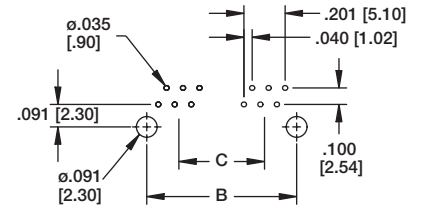
**TYPE 2**  
6P4C  
6P6C



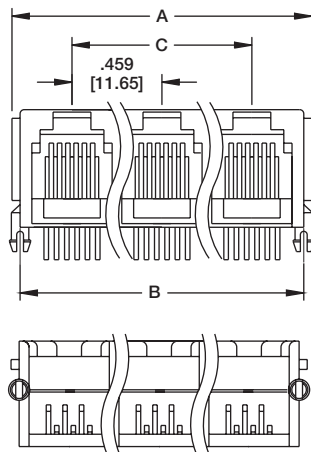
$A = .433 [11.00] \times \text{No. of Ports} + .100 [2.54]$   
 $B = .433 [11.00] \times \text{No. of Ports} + .020 [0.50]$   
 $C = .433 [11.00] \times \text{No. of Ports} - 1$



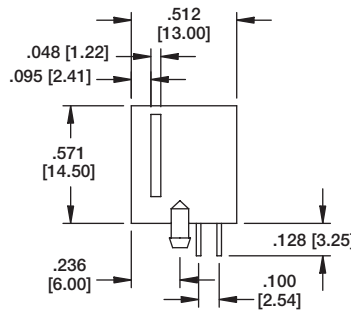
**MTJG-2-642X1**



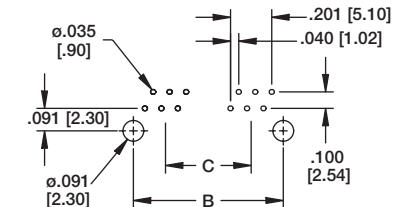
Recommended PCB Layout



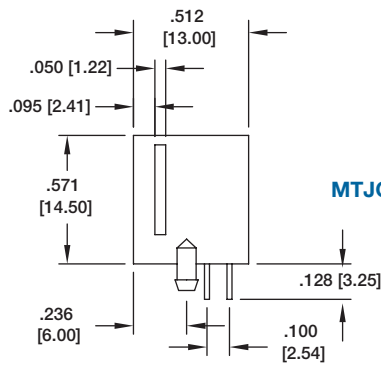
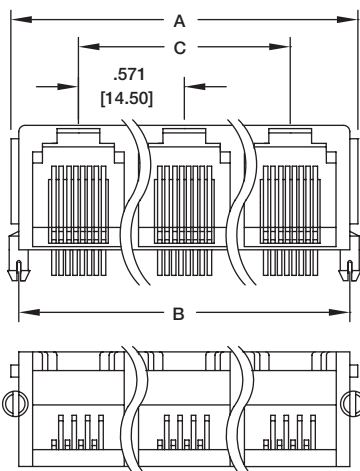
$A = .459 [11.65] \times \text{No. of Ports} + .100 [2.54]$   
 $B = .459 [11.65] \times \text{No. of Ports} + .020 [0.50]$   
 $C = .459 [11.65] \times \text{No. of Ports} - 1$



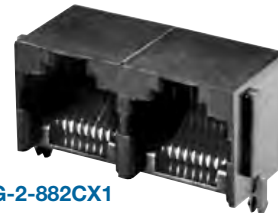
**MTJG-2-642BX1**



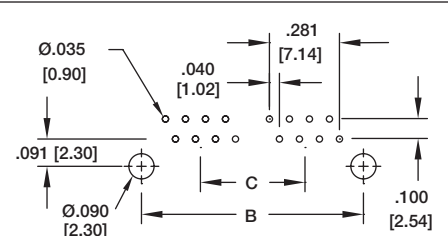
Recommended PCB Layout



$A = .571 [14.50] \times \text{No. of ports} + .122 [3.10]$   
 $B = .571 [14.50] \times \text{No. of Ports} + .019 [0.50]$   
 $C = .571 [14.50] \times \text{No. of Port} - 1$



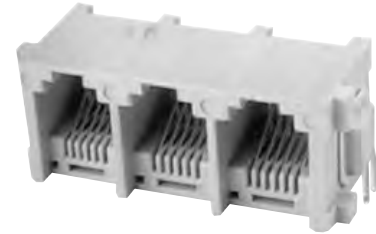
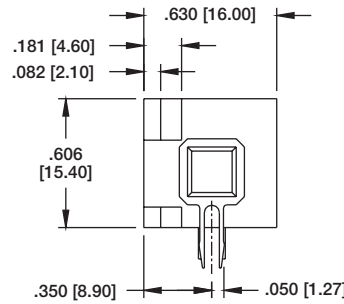
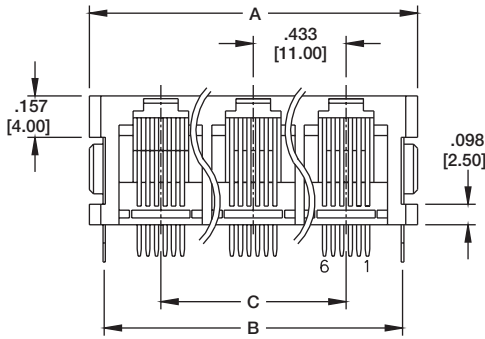
**MTJG-2-882CX1**



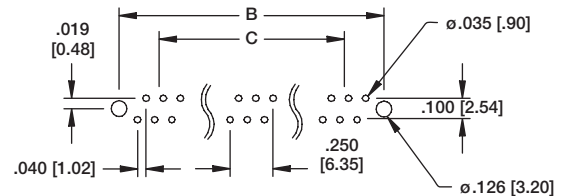
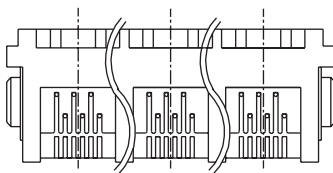
Recommended PCB Layout

Ordering Information pg. 34

**TYPE 7H**  
**RIGHT ANGLE ENTRY**  
 6P4C  
 6P6C

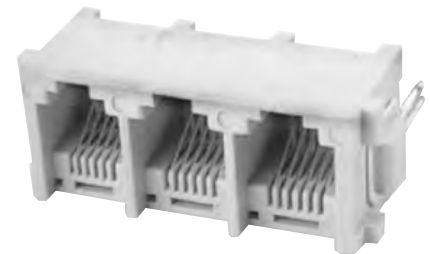
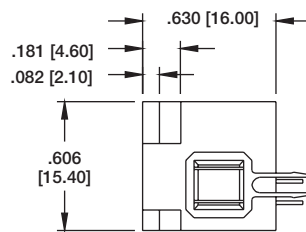
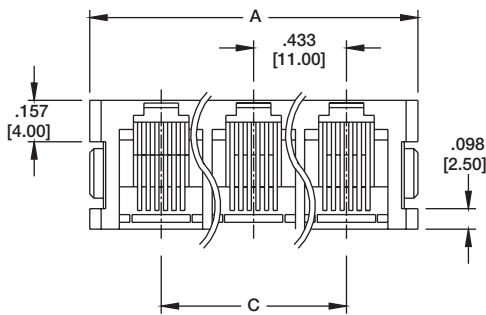


**MTJG-3-667HX2**

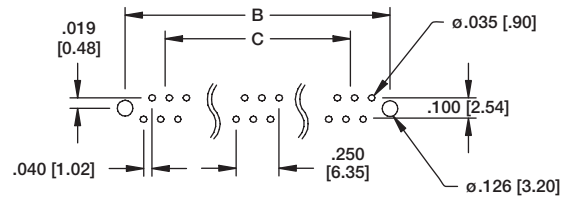
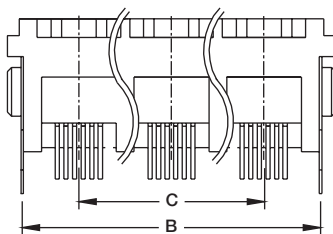


**Recommended PCB Layout**

**TYPE 7V**  
**TOP ENTRY**  
 6P4C  
 6P6C



**MTJG-3-667VX2**



**Recommended PCB Layout**

DIMENSION	No of Ports							
	2	3	4	5	6	7	8	
A	1.110 [28.20]	1.543 [39.20]	1.976 [50.20]	2.409 [61.20]	2.843 [72.20]	3.275 [83.20]	3.710 [94.20]	
B	.992 [25.20]	1.425 [36.20]	1.858 [47.20]	2.291 [58.20]	2.724 [69.20]	3.157 [80.20]	3.590 [91.20]	
C	.433 [11.00]	.886 [22.00]	1.299 [33.00]	1.732 [44.00]	2.165 [55.00]	2.598 [66.00]	3.030 [77.00]	

A = .500 [12.70] X (NO. OF PORTS - 1) + .519 [13.20]  
B = .500 [12.70] X (NO. OF PORTS - 1) + .400 [10.16]  
C = .500 [12.70] X NO. OF PORTS - 1

**Ordering Information pg. 34**

**Recommended PCB Layout**



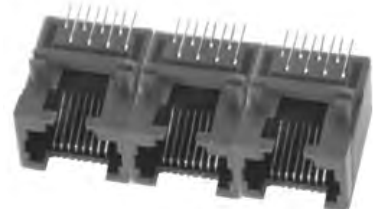
**MTJG-3-665X1**

**TYPE 5  
THRU HOLE  
6P4C  
6P6C**

A = .500 [12.70] X (NO. OF PORTS - 1) + .519 [13.20]  
B = .500 [12.70] X (NO. OF PORTS - 1) + .400 [10.16]  
C = .500 [12.70] X NO. OF PORTS - 1

**Ordering Information pg. 34**

**Recommended PCB Layout**



**MTJG-3-885X1-SMT**  
Available in 6P6C or 8P8C Versions

**TYPE 5  
SMT  
8P8C**

**Ordering Information pg. 34**

**Recommended PCB Layout**

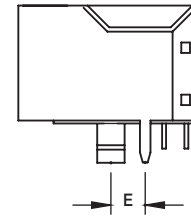
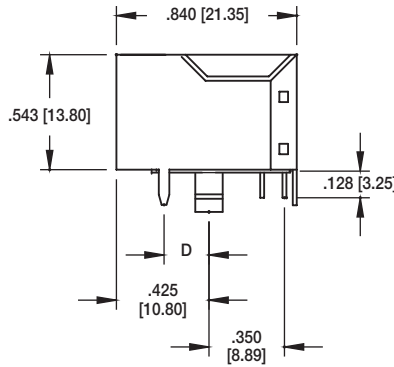
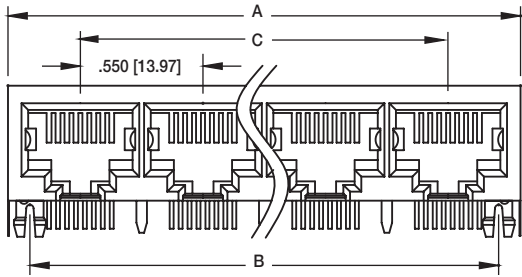


**MTJG-2-66nx1**

**TYPE N  
METAL PEG  
6P4C  
6P6C**

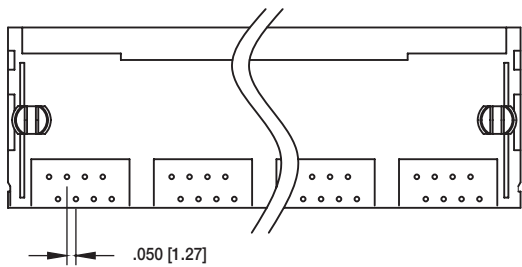
Ordering Information pg. 34

**TYPE G**  
**GANGED**  
**8P8C**



"E" DIM.  
FSD = .120 [3.05]  
FSR = .144 [3.65]

"D" DIM.  
FSA = .170 [4.32]  
FSB = .144 [3.65]  
FSG = .180 [4.57]  
FSE = .120 [3.05]



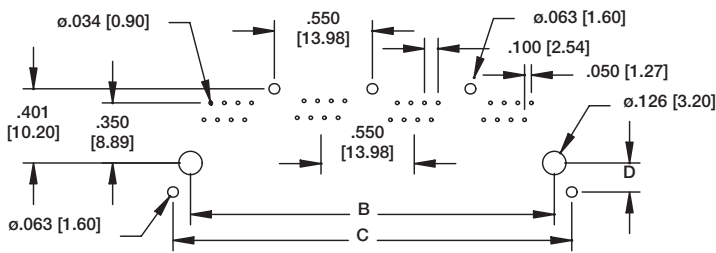
A = .550 [13.97] X (NO. OF PORTS - 1) + .679 [17.27]  
B = .550 [13.97] X (NO. OF PORTS - 1) + .450 [11.43]  
C = .550 [13.97] X NO. OF PORTS - 1



MTJG-4-88GX1-FSB

**Recommended PCB Layout for shield ground pin locations specified as FSA, FSB, FSG & FSE**

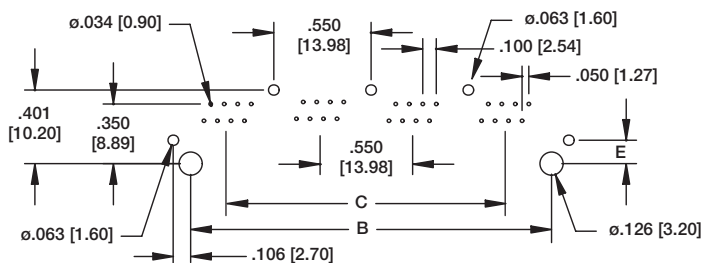
"D" DIM.  
FSA = .170 [4.32]    FSE = .120 [3.05]  
FSB = .144 [3.65]    FSG = .180 [4.57]



MTJG-4-88GX1-FSB-PG

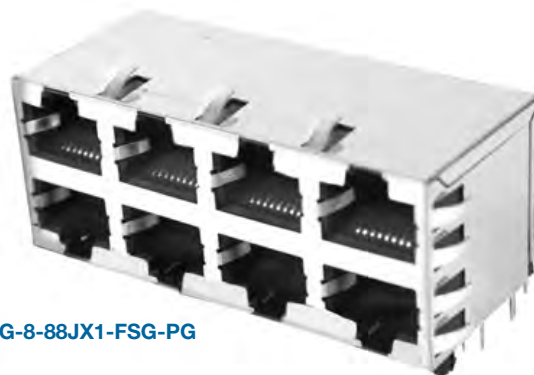
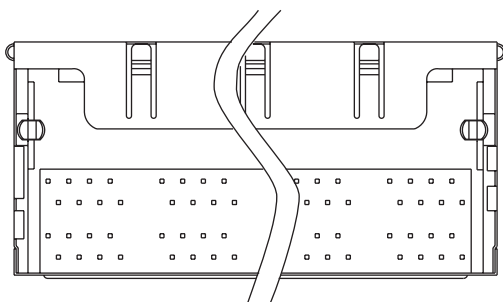
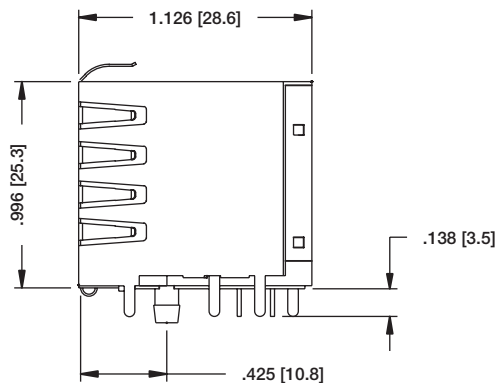
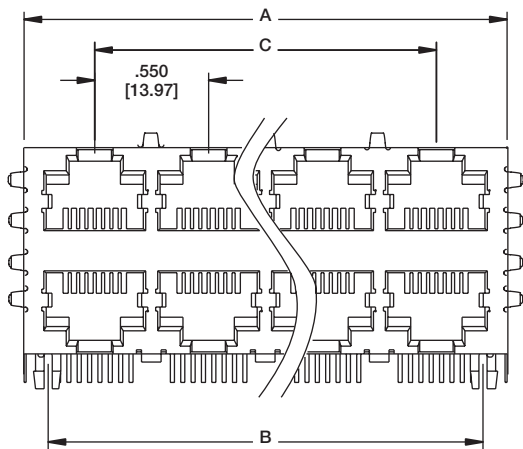
**Recommended PCB Layout for shield ground pin locations specified as FSD & FSR**

"E" DIM.  
FSD = .120 [3.05]  
FSR = .144 [3.65]

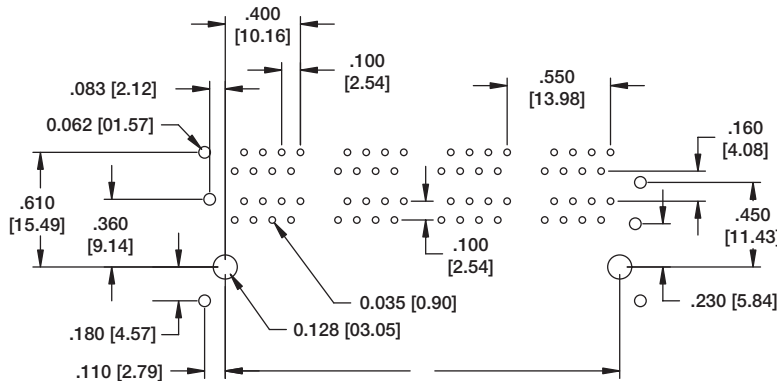


Ordering Information pg. 34

**TYPE J**  
8P8C



**MTJG-8-88JX1-FSG-PG**



**Recommended PCB Layout**

PART NUMBER	PORTS	DIMENSIONS		
		A	B	C
MTJG-2-88JX1-FSG-PG	2 X 1	.679 [17.25]	.450 [11.43]	—
MTJG-4-88JX1-FSG-PG	2 X 2	1.230 [31.25]	1.00 [25.40]	.550 [13.97]
MTJG-6-88JX1-FSG-PG	2 X 3	1.780 [45.21]	1.549 [39.34]	1.100 [27.94]

PART NUMBER	PORTS	DIMENSIONS		
		A	B	C
MTJG-8-88JX1-FSG-PG	2 X 4	2.33 [59.18]	2.100 [53.34]	1.650 [41.91]
MTJG-12-88JX1-FSG-PG	2 X 6	3.43 [87.10]	3.200 [81.28]	2.750 [69.85]
MTJG-16-88JX1-FSG-PG	2 X 8	4.537 [115.25]	4.30 [109.22]	3.850 [97.79]



### INTRODUCTION:

Adam Tech MTJ series RJ-45 connectors with integrated magnetics are designed to support Base 10, 100 and 1000-T applications such as hubs, routers, ADSL modems, and ATM transmission equipment. The integrated magnetics allows the design engineer to save PC board real-estate and lower the total part count per system. This series meets all applicable specifications for CAT 5, 5e, 6 and IEEE 802.3. The USB model meets all applicable USB 2.0 specifications. All configurations are available with optional LED's.

### FEATURES:

Single, stacked and ganged configurations available All products have a full metal shield to guard against electromagnetic interference. Hi-Temp option available All products are fully lead free and RoHS compliant

### MATING PLUGS:

Adam Tech modular telephone plugs and all industry standard telephone plugs.

### SPECIFICATIONS:

#### Material:

Insulator: PBT, glass filled, rated UL94V-0

Insulator Color: Black

Contacts: Phosphor Bronze or Brass

Shield: Copper Alloy, Nickel or Tin plated

#### Contact Plating:

Gold over Nickel underplate on contact area, Tin over Copper underplate on solder tails.

### ELECTRICAL:

Operating Voltage: 150V AC

Current Rating: 1.5 Amps Max.

Contact Resistance: 20 mΩ Max.

Insulation Resistance: 500 MΩ Min.

Dielectric Withstanding Voltage: 1500V AC for 1 Minute

DC resistance: 1.2 Ohms Max.

Interwinding capacitance: 35pF @ 1MHz

Insertion loss: 100KHz to 80MHz = -1.1dB Min.

Return loss: 1MHz to 30MHz = -18dB Min.

30MHz to 80MHz = -12dB Min.

Rise time: 30nS Max.

Cross talk: 1MHz to 100MHz = 40dB TYP.

Common to Common mode Attenuation: 35dB TYP.

### MECHANICAL:

Insertion force: 8 Contacts: 22.5N

10 Contacts: 24.5N

### TEMPERATURE RATING:

Operation Temperature: -40°C ~ +85°C

### PACKAGING:

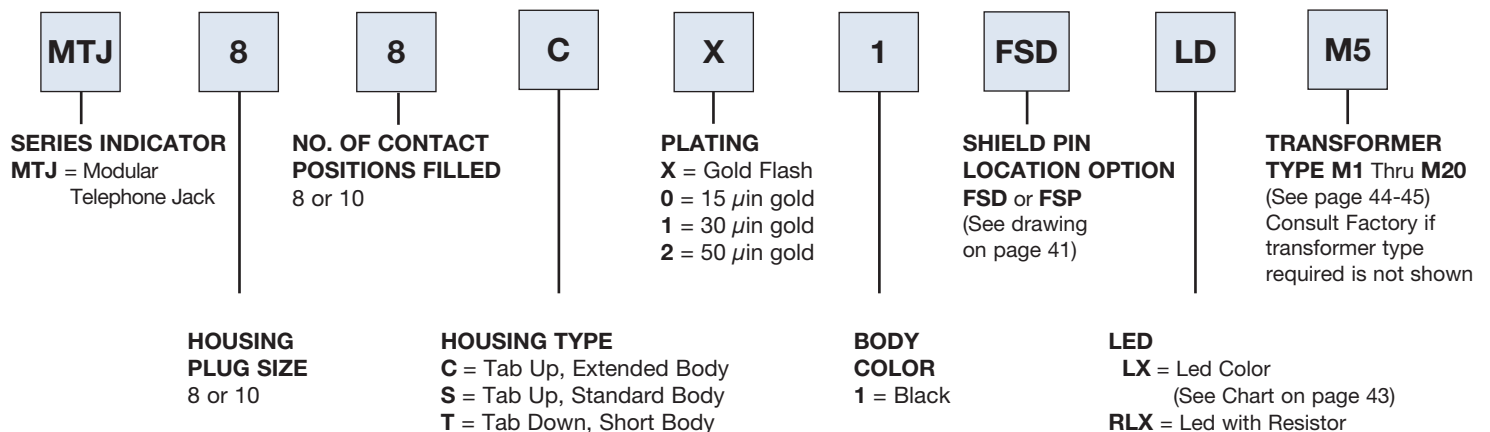
Anti-ESD plastic trays or tubes

### SAFETY AGENCY APPROVALS:

UL Recognized File no. E224049



## MAGNETICS TELEPHONE JACK ORDERING INFORMATION



### OPTIONS:

Add designator(s) to end of part number

PG = Panel ground tabs

LED 1 OPTION  
LED 2 OPTION

8  
1

.653 [16.60]

.200 [5.08]  
.100 [2.54]

1.283 [32.60]

.531 [13.50]

.137 [3.50]

.423 [10.75]  
.796 [20.22]

A

**MTJ-88CX1-FSP-PG-LG-M3**

**TYPE C**  
**TAB UP & TOP LEDs,**  
**EXTENDED BODY**

.100 [2.54]  
.100 [2.54]  
.100 [2.54]

.280 [7.12]

.080 [2.03]

.050 [1.27]

.125 [3.18]

.500 [12.70]

.635 [16.13]

ø.035 [0.89]  
ø.128 [3.25]  
ø.062 [1.57]

**Recommended PCB Layout**  
**FSP Option Shown**

AVAILABLE WITH MAGNETIC TRANSFORMERS: M1, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M16 & M20.

---

LED 1 OPTION  
LED 2 OPTION

8  
1

.637 [16.20]

.450 [11.43]

.290 [7.37]  
.100 [2.54]

.996 [25.30]

.531 [13.50]

.137 [3.50]

.423 [10.75]

A

**MTJ-88SX1-FSP-PG-LG-M7**

**TYPE S**  
**TAB UP & TOP LEDs,**  
**STANDARD BODY**

.523 [13.28]  
.323 [5.20]

.450 [11.43]

.450 [11.43]

.610 [15.50]

.350 [8.89]

ø.035 [0.90]  
ø.128 [3.25]  
ø.063 [1.60]

ø.040 [1.02]  
ø.290 [7.37]

**Recommended PCB Layout**  
**FSP Option Shown**

AVAILABLE WITH MAGNETIC TRANSFORMERS: M1, M3, M4, M5, M6, M7, M9, M10, M11, M12 & M13. See pgs. 44-45

---

LED 1 OPTION  
LED 2 OPTION

11  
8

.626 [15.90]

.450 [11.43]

.100 [2.54]

.840 [21.35]

.531 [13.50]

.137 [3.50]

.423 [10.75]

A

**MTJ-88TX1-FSP-PG-LG-M5**

Tab Up Type also available

**TYPE T**  
**TAB DOWN & BOTTOM LEDs,**  
**SHORT BODY**

.450 [11.43]  
.050 [1.27]

.450 [11.43]

.610 [15.50]

.350 [8.89]

.159 [4.06]

ø.035 [0.90]  
ø.128 [3.25]  
ø.063 [1.60]

.323 [5.20]  
.523 [13.28]

ø.040 [1.02]

**Recommended PCB Layout**  
**FSP Option Shown**

AVAILABLE WITH MAGNETIC TRANSFORMERS: M1, M3, M4, M5, M6, M7, M9, M10, M11, M12 & M13. See pgs. 44-45

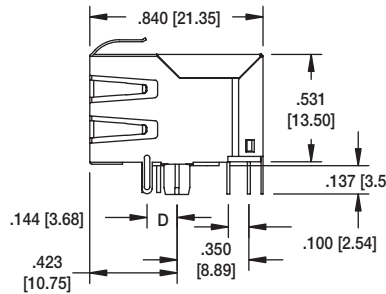
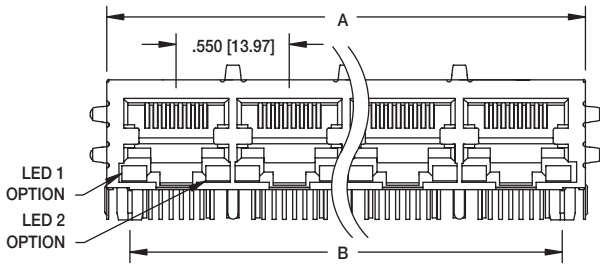
www.adam-tech.com

41

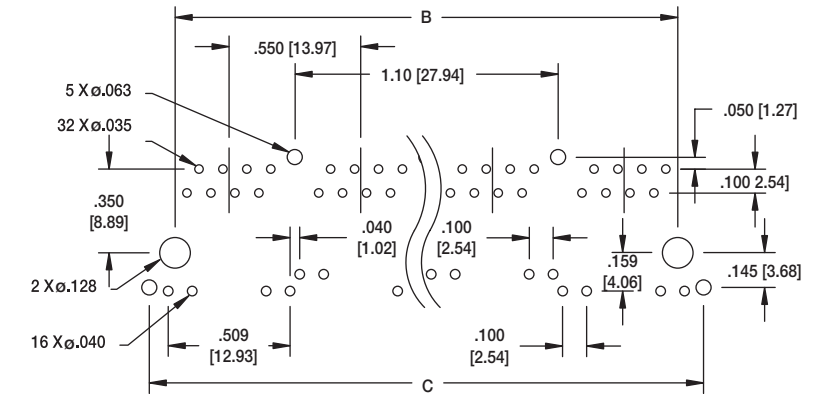
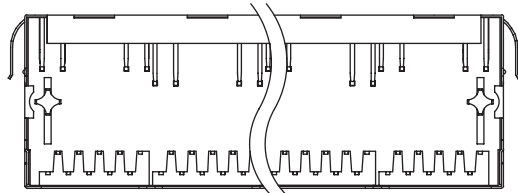
Ordering Information pg. 43

TYPE T

TAB DOWN, SHORT BODY  
MAGNETICS & LEDs  
2, 4 & 5 PORTS GANGED



"D" DIM.  
FSA = .170 [4.32]  
FSB = .144 [3.65]  
FSG = .180 [4.57]  
FSE = .120 [3.05]



Recommended PCB Layout

**MTJG-4-88TX1-FSB-PG**

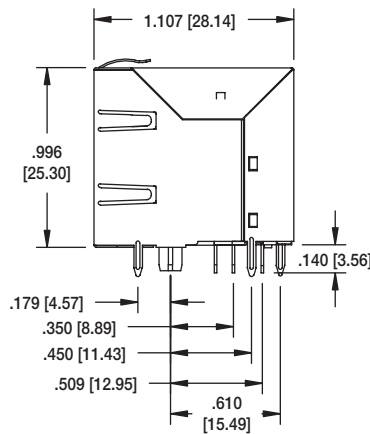
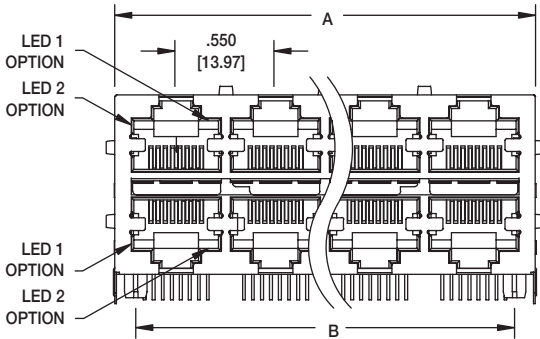
Drawing shown with metal shield, panel ground tabs, LEDs and magnetics option

A = .550 [13.97] X (NO OF PORTS - 1) + .679 [17.27]  
B = .550 [13.97] X (NO OF PORTS - 1) + .450 [11.43]

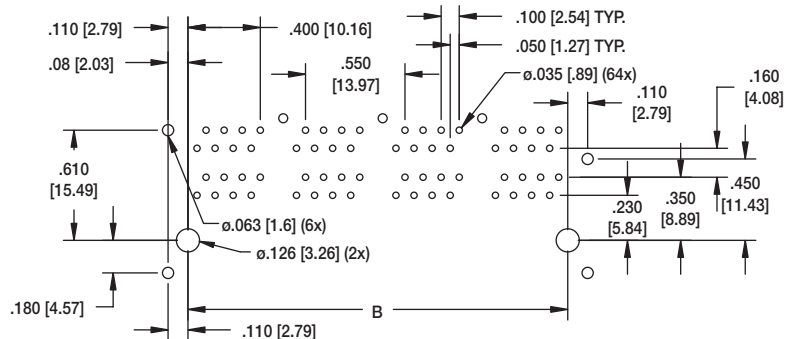
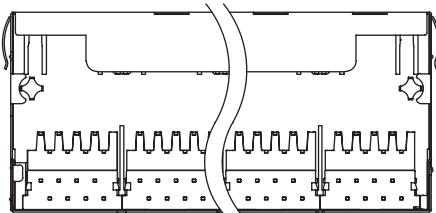
AVAILABLE WITH MAGNETIC TRANSFORMERS: M1, M3, M4, M5, M6, M7, M9, M10, M11, M12 & M13. See pgs. 44-45

TYPE J

STACKED



DIMENSIONS		
PORTS	A	B
2 X 1	.677 [17.20]	.450 [11.43]
2 X 2	1.227 [31.17]	1.00 [25.40]
2 X 4	2.331 [59.22]	2.100 [53.34]
2 X 5	2.876 [73.07]	2.650 [67.31]
2 X 6	3.426 [87.04]	3.200 [81.28]
2 X 8	4.527 [115.00]	4.300 [109.22]

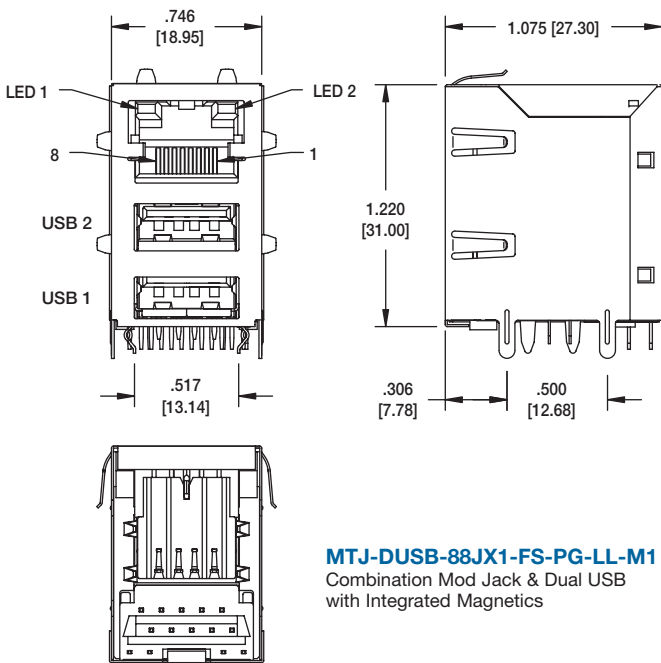


Recommended PCB Layout

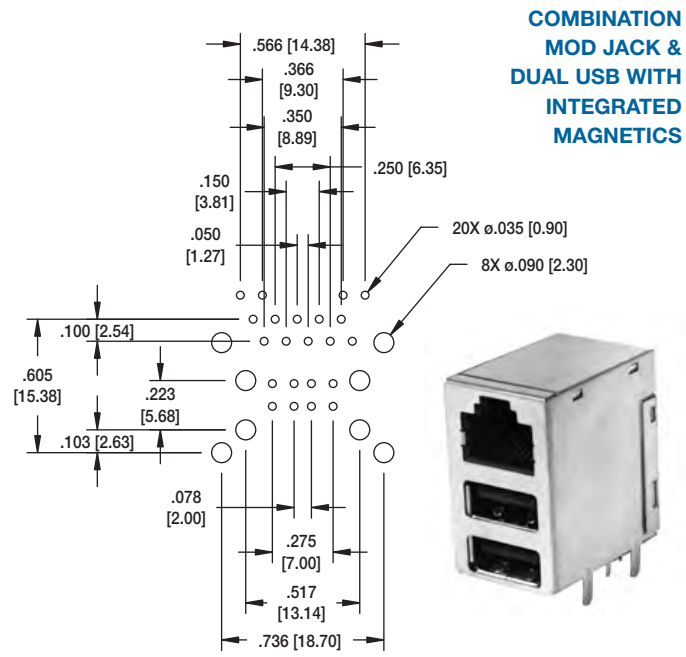
**MTJG-8-88JX1-FSE-LD-M1**

Drawing shown with metal shield, panel ground tabs & LEDs.

AVAILABLE WITH MAGNETIC TRANSFORMERS: M1, M3, M4, M5, M6, M7, M9, M10, M11, M12 & M13. See pgs. 44-45



**MTJ-DUSB-88JX1-FS-PG-LL-M1**  
Combination Mod Jack & Dual USB  
with Integrated Magnetics



**Recommended PCB Layout**

**COMBINATION  
MOD JACK &  
DUAL USB WITH  
INTEGRATED  
MAGNETICS**



LED CONFIGURATION (Add suffix to end of part no.)		
SUFFIX	LED 1	LED 2
LA	YELLOW	YELLOW
LD	GREEN	GREEN
LG	YELLOW	GREEN
LH	GREEN	YELLOW
LI	ORANGE/GREEN	ORANGE/GREEN
LP	YELLOW/GREEN	YELLOW/GREEN
LQ	YELLOW/GREEN	—
L11	RED	GREEN

OTHER LED COLOR  
COMBINATIONS AVAILABLE

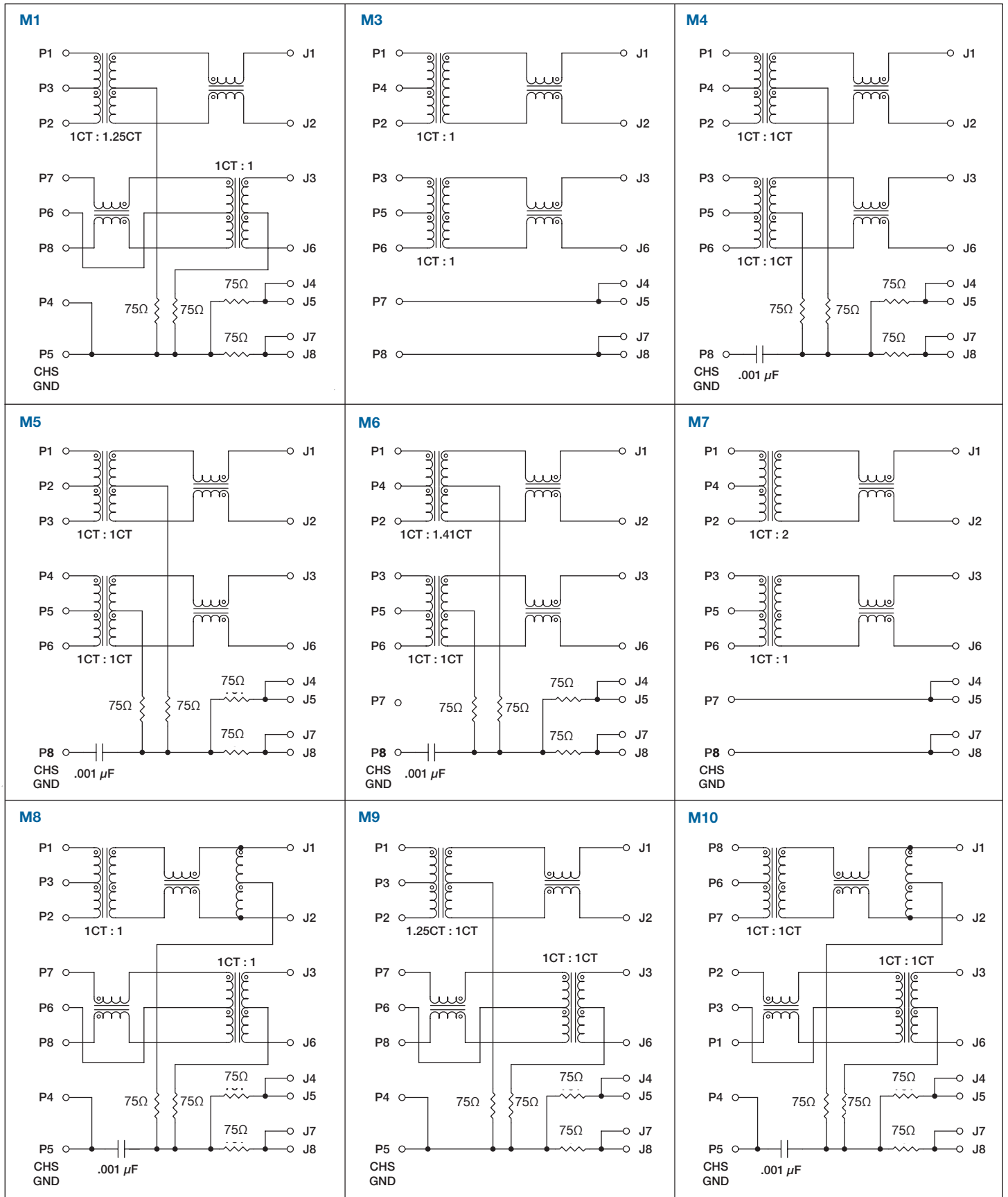
LED SPECIFICATION			
STANDARD LED	WAVE LENGTH	FORWARD VOLT / CURRENT	TYP
GREEN	565 nm	5.5V / 20mA	5.0V
YELLOW	590 nm	5.5V / 20mA	5.0V
ORANGE	610 nm	5.5V / 20mA	5.0V
RED	637 nm	5.5V / 20mA	5.0V

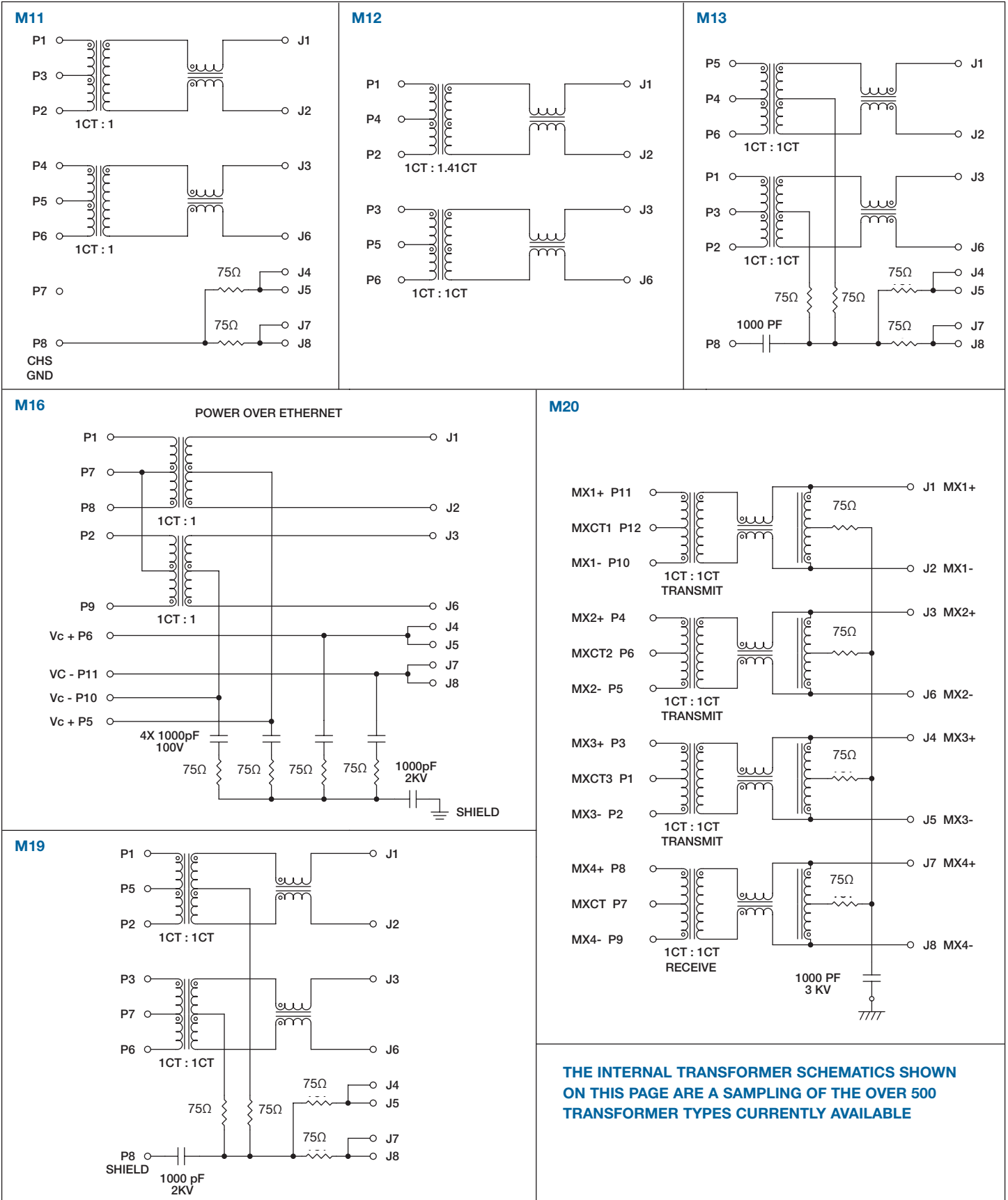
AVAILABLE WITH MAGNETIC  
TRANSFORMERS M1, M3, M4,  
M5, M6, M7, M8, M9, M10, M11,  
M12, M13, M16 & M20  
See Pgs 44-45:

## ORDERING INFORMATION FOR JACKS WITH INTEGRATED MAGNETICS & LEDs

<b>MTJG</b>	<b>4</b>	<b>8</b>	<b>8</b>	<b>T</b>	<b>X</b>	<b>1</b>	<b>FSD</b>	<b>LD</b>	<b>M5</b>
<b>SERIES INDICATOR</b> MTJG =Magnetics Ganged Jack	<b>NO. OF PORTS</b> 2 thru 8	<b>HOUSING PLUG SIZE</b> 8 or 10	<b>NO. OF CONTACT POSITIONS FILLED</b> 8 or 10	<b>HOUSING TYPE</b> T or J	<b>PLATING</b> X = Gold Flash 0 = 15 μin gold 1 = 30 μin gold 2 = 50 μin gold	<b>BODY COLOR</b> 1 = Black	<b>SHIELD PIN LOCATION</b> FSD thru FSH (See drawing on page 40)	<b>LED</b> LX = Led Color RLX = Led with Resistor	<b>TRANSFORMER</b> M1 Thru M20 (See page 44-45) Consult Factory for transformer types not shown

**OPTIONS:**  
Add designator(s) to end of part number  
PG = Panel ground tabs







**INTRODUCTION:**

Adam Tech MTJP Series Wire Leaded Handset and Panel Jacks are conveniently prepared with wire leads ready for final assembly. This series has a multitude of housing shapes to fit many specific applications. They are offered in 4, 6 & 8 positions with choice of Stripped and Tinned leads or leads with Spade Terminals, Adam Tech Jacks are UL approved and meet all required FCC rules and regulations.

**FEATURES:**

- UL approved
- FCC compliant to No. 47 CFR part 68
- Prepared for Final Assembly
- 4P, 6P and 8P versions
- Custom Jacks available

**MATING PLUGS:**

All industry standard line cords manufactured with telephone plugs

**SPECIFICATIONS:**

**Material:**

- Insulator: ABS, (Nylon 66 optional), rated UL94V-0
- Insulator Colors: Medium gray or black
- Contacts: Phosphor Bronze
- Wires: 26 Awg, UL-1061, 80°C, VW-1, 300V.

**Contact Plating:**

Gold over Nickel underplate on contact area.

**Electrical:**

- Operating voltage: 150V AC max.
- Current rating: 1.5 Amps max.
- Contact resistance: 20 mΩ max. initial
- Insulation resistance: 500 MΩ min.
- Dielectric withstanding voltage: 500V AC for 1 minute

**Mechanical:**

- Insertion force: 4 Contacts: 500g, 6 contacts 750g
- 8 contacts: 900g, 10 contacts: 1000g
- Durability: 500 Cycles min.

**Temperature Rating:**

Operating temperature: -40°C to +85°C

**PACKAGING:**

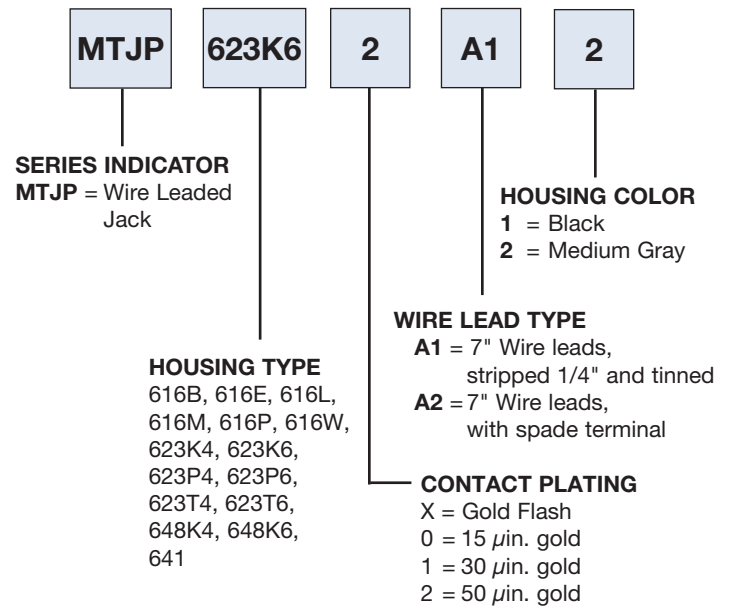
Anti-ESD plastic bags

**APPROVALS AND CERTIFICATIONS:**

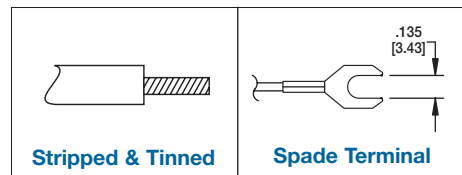
UL Recognized File no. E224049



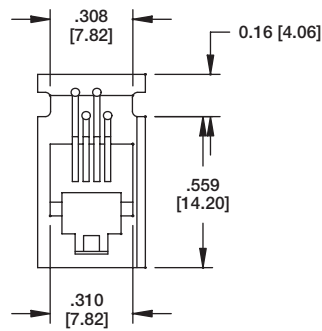
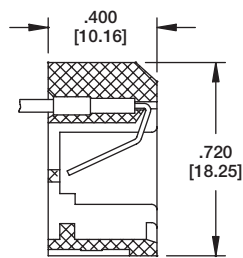
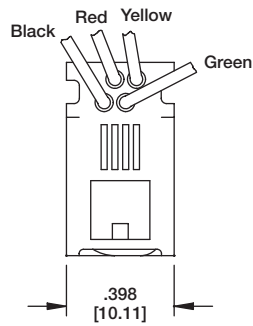
**ORDERING INFORMATION  
WIRE LEADED JACKS**



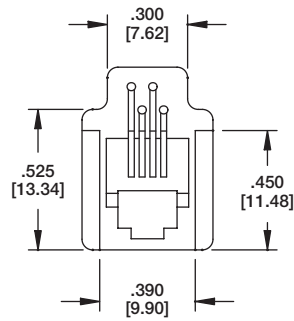
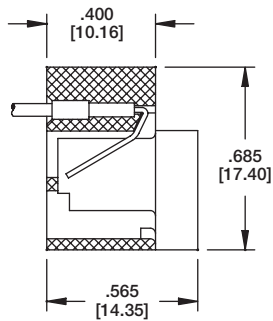
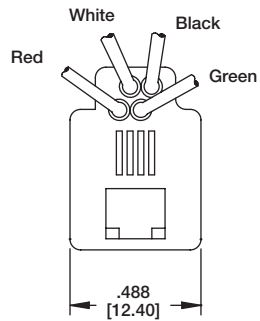
Wire Lead Options



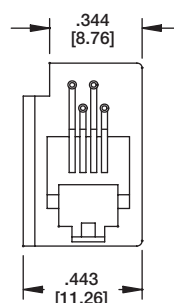
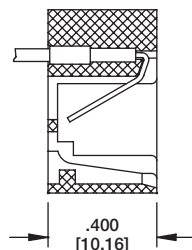
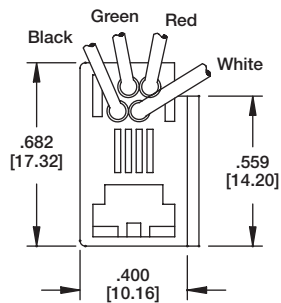
**MTJP-616L**



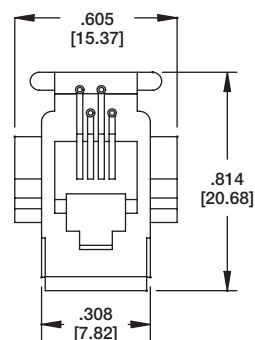
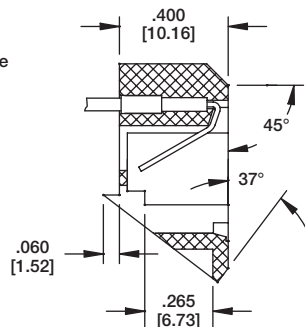
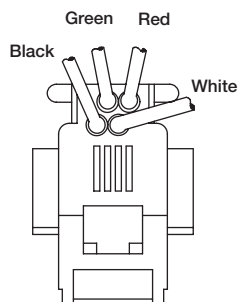
**MTJP-616M**



**MTJP-616E**

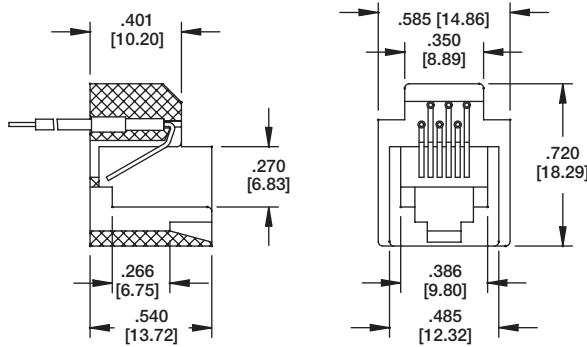
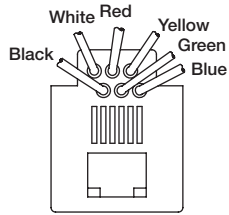


**MTJP-616W**



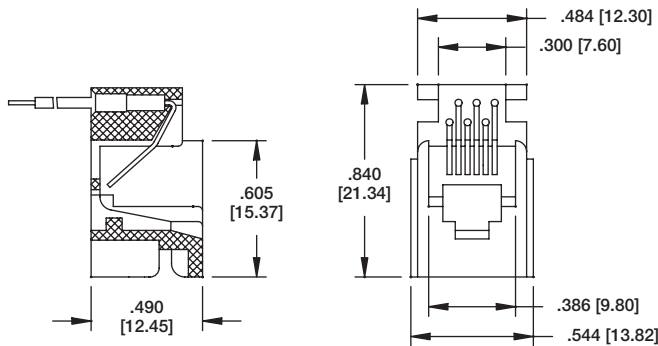
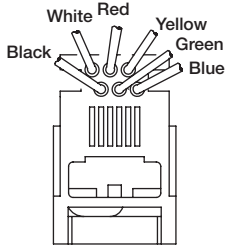
**MTJP-623K4**

**MTJP-623K6**



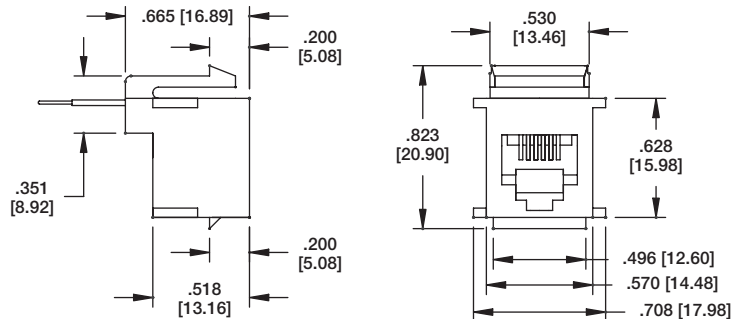
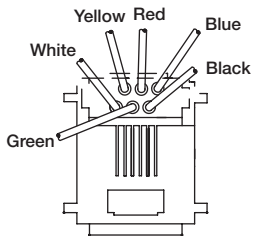
**MTJP-623P4**

**MTJP-623P6**



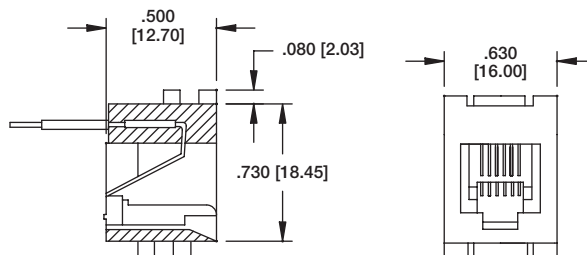
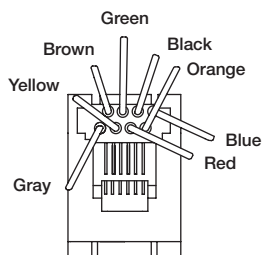
**MTJP-648K4**

**MTJP-648K6**



**MTJP-641**

**MTJP-641**



### ORDERING INFORMATION

**MTJC**

**SERIES INDICATOR**  
**MTJC** = Modular Jack Coupler

**8**

**HOUSING SIZE = 8**

**6**

**POSITIONS FILLED**  
 4, 6, or 8

**0**

**PLATING**  
**X** = Gold Flash  
**0** = 15  $\mu$ in gold  
**1** = 30  $\mu$ in gold  
**2** = 50  $\mu$ in gold

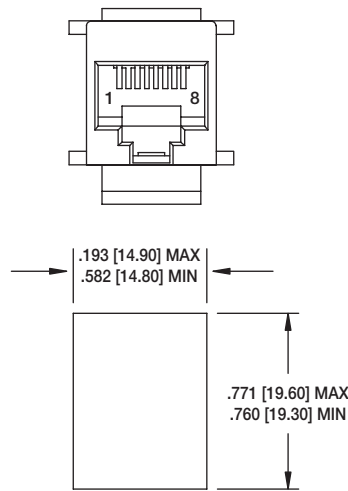
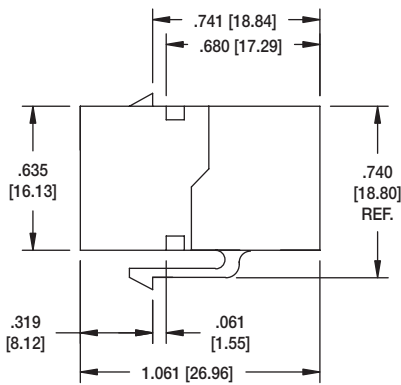
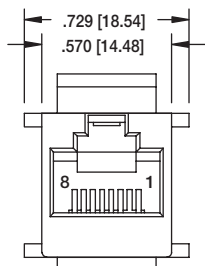
**B**

**INSULATOR COLOR**  
**B** = Black    **Y** = Yellow  
**W** = White   **R** = Red  
**IV** = Ivory   **G** = Green  
**GY** = Gray   **BL** = Blue

**OPTIONS:**

Add designator to end of part number

**S** = Shielded



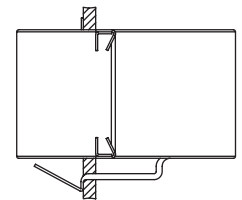
**MTJC-88-XB**  
**PLASTIC HOUSING**



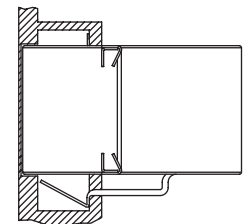
MTJC-88XIV

**RECOMMENDED PANEL CUT-OUT**  
**PANEL THICKNESS .062 [1.57]**

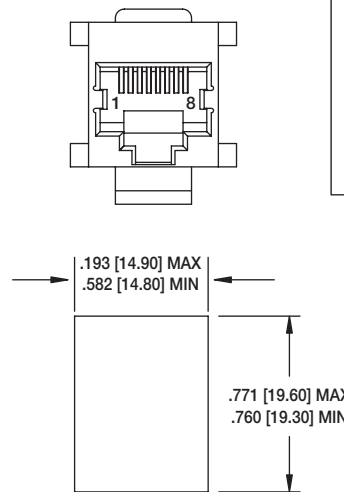
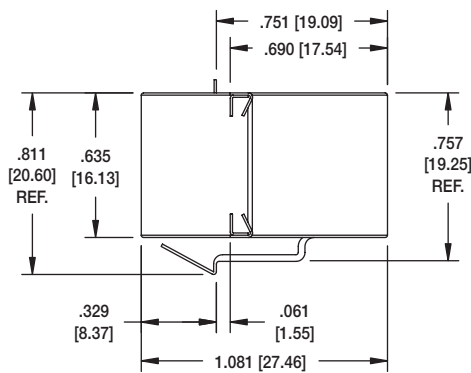
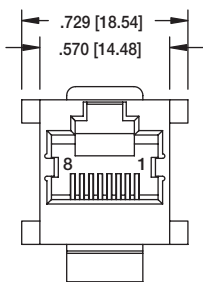
MTJC Couplers can be used in either of the following mounting applications



Single Wall Plate Mounting



Double Wall Plate Mounting



**MTJC-88-XBS**  
**METAL SHIELDED**



MTJC-88XB-S

**RECOMMENDED PANEL CUT-OUT**  
**PANEL THICKNESS .062 [1.57]**

**INTRODUCTION:**

Adam Tech MTP series Modular Plugs are manufactured to terminate flat oval or round cord to REA and Cat. 5 EIA/TIA specifications. Our double strain relief design, molded in polycarbonate, is manufactured with contacts pre-loaded in a variety of sizes and options including shielding and specific contacts for flat or round cable. Adam Tech is a major supplier of telephone line cords to the telecommunications industry.

**FEATURES:**

- Preassembled Contacts
- REA Compliant Terminations
- Cat. 5 and 5E available
- Contacts for Flat or Round wire
- Short or Long body choices
- Shielded versions

**MATING TELEPHONE JACKS:**

Adam Tech modular jack series and all industry standard telephone Jacks.

**SPECIFICATIONS:**

**Material:**

- Insulator: Polycarbonate, rated UL94V-0
- Insulator Color: Clear, (Blue optional)
- Contacts: Phosphor Bronze

**Contact Plating:**

Gold over nickel underplate.

**Electrical:**

- Operating voltage: 150V AC max.
- Current rating: 1.5 Amps max.
- Contact resistance: 20 mΩ max. initial
- Insulation resistance: 500 MΩ min.
- Dielectric withstanding voltage: 1000V AC for 1 minute

**Mechanical:**

- Cable to plug tensile strength: 7.71 Kgs (17 lbs) min.
- Durability: 250 Cycles min.
- Wire range: 26 to 28 Awg

**Temperature Rating:**

Operating temperature: -40°C to +70°C

**PACKAGING:**

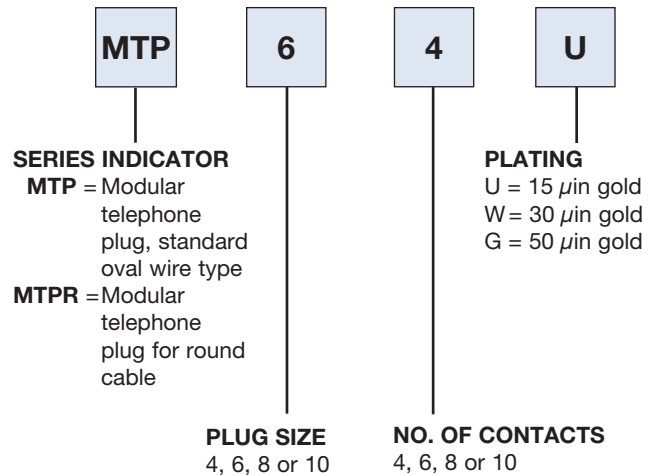
Anti-ESD plastic bags

**SAFETY AGENCY APPROVALS:**

UL Recognized File no. E224049



**ORDERING INFORMATION**



**OPTIONS:**

- Add designator(s) to end of part number
- K** = Molded in key (Plug size 8 & 10 only)
- S** = Solid wire contacts
- EMI** = Metal shielded type (Plug size 8 or 10 only)
- OL** = Offset Latch (Plug size 6 only)
- BU** = Clear Blue insulator color

**MTP-44  
4P4C PLUG**

**MTP-44-G**

**MTP-66  
6P6C PLUG**

**MTP-66-G  
MTP-64-G**

**MTP-88  
8P8C PLUG**

**MTP-88-G**

### Contact Options

**Standard Stranded Wire Contact**      **Optional Solid Wire Contact**

### Plug Options

**MTP Series Oval Wire Opening**      **MTPR Series Round Wire Opening**

**MTP Series Offset Latch Option**      **MTPR Series Offset Latch Option**

### Plug with Metal EMI Shield Option

**MTP-88-G-EMI**

**MTP-1010  
10P10C  
PLUG**

**MTP-1010-G**

### INTRODUCTION:

Adam Tech Small Form Factor connectors and cages are a popular interface for telecommunications and data communications applications. Our 20 position surface mount connector interfaces to both fiber optic and copper networking modules. Our cages are manufactured in single port and multiport configurations. All of our cages are available in both press fit and through hole mounting.

### FEATURES:

- Industry standard compatibility
- Alignment posts on SMT connector allow for PC board stability
- Standoffs allow for easy board cleaning
- Single, stacked or ganged cages
- Cages have multiple ground points for EMI shielding

### SPECIFICATIONS:

#### Material:

- SMT Connector:
- Insulator: High temperature thermoplastic
- Contacts: Phosphor Bronze
- Plating: Gold over nickel underplate
- Cage: Nickel plated copper alloy

#### Electrical:

- SMT Connector:
- Operating voltage: 100VAC max
- Current rating: 1 Amp max
- Contact resistance: 40 ohms max
- Insulation resistance: 1000 Mohms min
- Dielectric withstanding voltage: 500 VAC for 1 minute

#### Temperature rating:

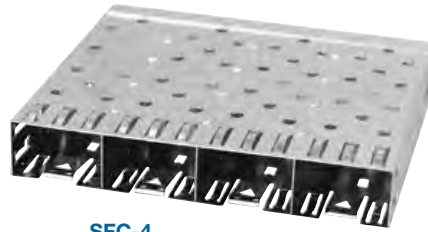
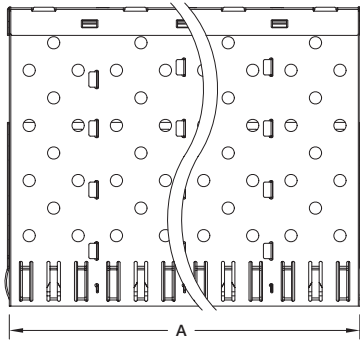
- Operating temperature: -40°C to +85°C
- Soldering temperature: 260°C for 5 seconds

### APPROVALS AND CERTIFICATIONS:

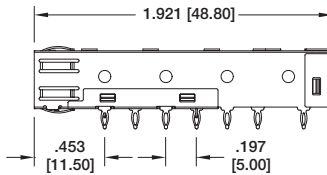
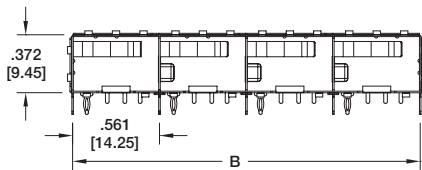
UL Recognized File no. E224053



### SFC CAGE (MULTI PORT)

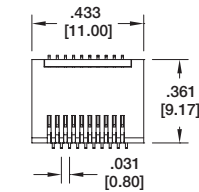


SFC-4

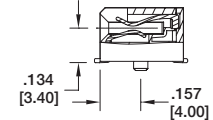
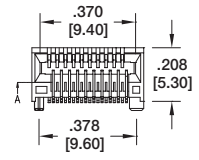


SFC-1

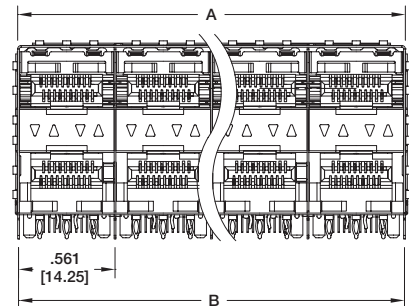
### SFF CONNECTOR



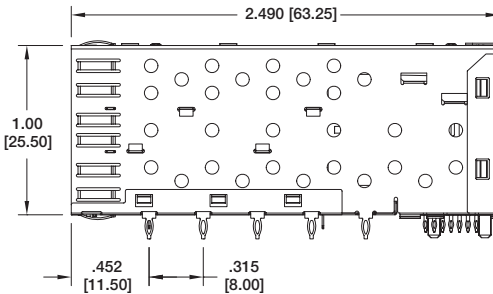
SFF-20-SG



DIMENSIONS			
PART NO.	PORTS	A	B
SFC-1	1	.571 [14.50]	.561 [14.25]
SFC-2	2	1.132 [28.75]	1.122 [28.50]
SFC-4	4	2.254 [57.25]	2.244 [57.00]
SFC-6	6	3.376 [85.75]	3.366 [85.50]
SFC-8	8	4.498 [114.25]	4.488 [114.00]



SHOWN WITH OPTIONAL LIGHT PIPE (L3)



### SFCJ CONNECTOR WITH CAGE (STACKED)

DIMENSIONS		
PORTS	A	B
2 X 1	.571 [14.50]	.561 [14.25]
2 X 2	1.132 [28.75]	1.122 [28.50]
2 X 4	2.254 [57.25]	2.244 [57.00]
2 X 6	3.376 [85.75]	3.366 [85.50]

CONFIGURATIONS				
	2 X 1	2 X 2	2 X 4	2 X 6
PART NO.	SFCJ-2	SFCJ-4	SFCJ-8	SFCJ-12



**INTRODUCTION:**

Adam Tech's RFC series RF connectors are a comprehensive assortment of Radio Frequency signal connectors in standard, miniature, sub-miniature, micro miniature and surface mount styles. Included are BNC, TNC, FME, FMA, SMA, SMB, N, F, PAL, UHF, Mini-UHF, MCX, MMCX, MHF, W.FL & 1.6/5.6 coupling versions. Each has a standard industry interface. Most are ideal for applications where size and weight are important in densely populated applications. All afford excellent RF characteristics

**FEATURES:**

Bodies available with gold or nickel plating  
 Insulators available in Teflon, Delrin, and Polypropylene  
 Standard availability of 50 or 75 ohms impedance  
 Through hole and SMT types for printed circuit board versions  
 Male and female types available in bulkhead and cable mount versions

**MATING CONNECTORS:**

Adam Tech RF series connectors and all industry Standard RF connectors

**SPECIFICATIONS:**

**Material:**

Housing: Brass, Nickel plated  
 Zinc diecast, Nickel plated  
 Standard Insulators: Delrin, Polypropylene or Teflon  
 Optional Hi-Temp Insulator: Teflon  
 Contacts: Beryllium copper, Gold plated

**Electrical:**

Operating voltage: 150V AC max.  
 Contact resistance: 5 mΩ max. initial  
 Impedance: 50 or 75 ohms  
 Insulation resistance: 5000 M min.  
 Dielectric withstanding voltage: 1000V AC for 1 minute  
 VSWR: 1.2 max  
 Frequency range: 0 – 6 GHZ

**Mechanical:**

Engagement force: 4.5 lbs max  
 Disengagement force: 2 lbs min  
 Cable retention: equal to breaking strength of cable employed  
 Durability: 500 cycles

**Temperature Rating:**

Operating temperature: -20°C to +85°C  
 Soldering process temperature:  
 Standard insulator: 235°C  
 Hi-Temp insulator: 260°C

**PACKAGING:**

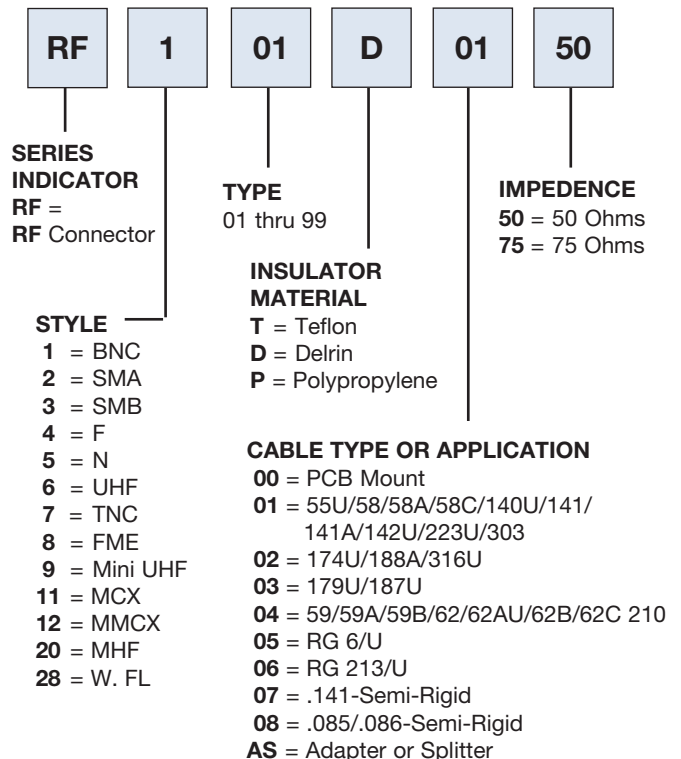
Anti-ESD plastic trays or bags

**APPROVALS AND CERTIFICATIONS:**

UL Recognized File no. E224053

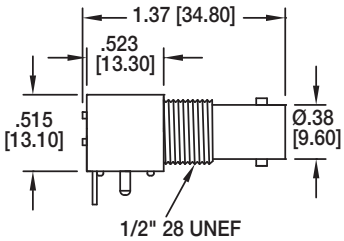
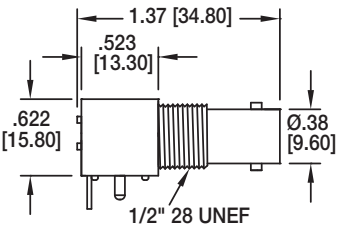


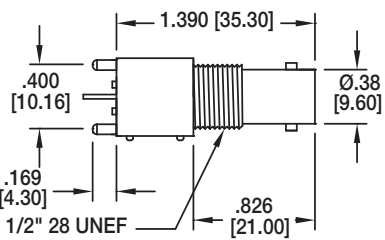


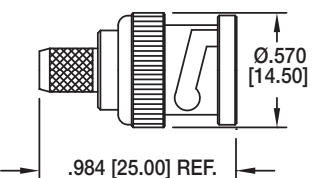






**ORDERING INFORMATION**



**OPTIONS:**

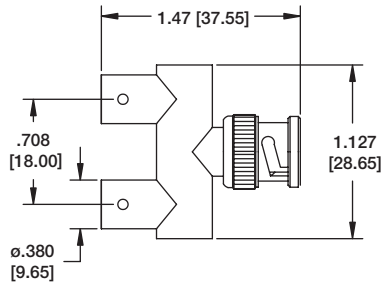
Add as suffix to basic part no.  
**HT** = Hi-Temp insulator for hi-temp soldering processes up to 260°C  
**G** = Gold plated body and contact

<p><b>RF1 TYPE 01</b> BNC RIGHT ANGLE FEMALE PCB MOUNT</p>  <p><b>RF1-01-P-00-50</b></p>	<p><b>FAKRA Automotive Connectors</b></p> <p>Adam Tech produces a series of FAKRA Automotive connectors designed to satisfy RF requirements in various telematic and multimedia applications. Our connectors provide high performance, cost effective RF interface to FAKRA and USCAR standards. Their SMB based design include multiple color coded plastic housings for easy identification. Adam Tech FAKRA connectors are designed to operate at up to 4GHz and meet the operational and environmental requirements of Digital Satellite Radio (SDARS) and other standards such as GSM and GPS.</p>	
<p><b>RF1 TYPE 01A</b> BNC HIGH PROFILE RIGHT ANGLE FEMALE PCB MOUNT</p>  <p><b>RF1-01A-P-00-50</b></p>	<p><b>RF55 TYPE 01</b> FAKRA JACK FOR CABLE</p> 	<p><b>RF55 TYPE 02</b> FAKRA JACK RIGHT ANGLE FOR CABLE</p> 
<p><b>RF1 TYPE 01V</b> BNC STRAIGHT FEMALE PCB MOUNT</p>  <p><b>RF1-01V-P-00-75</b></p>	<p><b>RF55 TYPE 03</b> FAKRA PLUG FOR CABLE ANTENNA TYPE</p> 	<p><b>RF55 TYPE 04</b> FAKRA RIGHT ANGLE JACK SQUARE BODY FOR SMT OR DIP PCB APPLICATIONS</p> 
<p><b>RF1 TYPE 03</b> BNC MALE CRIMP</p>  <p><b>RF1-03-D-05-75</b></p>	<p><b>RF55 TYPE 05</b> FAKRA RIGHT ANGLE JACK FOR DIP PCB</p> 	<p><b>RF55 TYPE 06</b> FAKRA RIGHT ANGLE PLUG FOR CABLE</p> 
<p><b>RF55 TYPE 07</b> FAKRA SQUARE PLUG FOR CABLE</p> 	<p><b>RF55 TYPE 08</b> FAKRA SQUARE BNC PLUG FOR CABLE</p> 	

**RF1 TYPE 06**  
**BNC MALE "Y" ADAPTER**



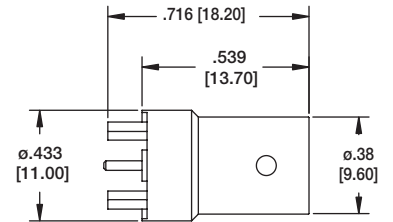
**RF1-06-D-AS-50**



**RF1 TYPE 07**  
**BNC FEMALE PC BOARD MOUNT**



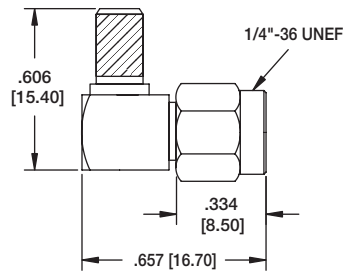
**RF1-07-T-00-75**



**RF2 TYPE 01**  
**SMA RIGHT ANGLE MALE CRIMP TYPE**



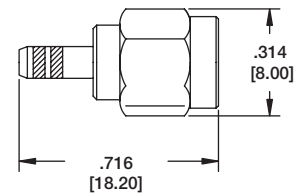
**RF2-01-T-02-50**



**RF2 TYPE 02**  
**SMA MALE CRIMP TYPE**



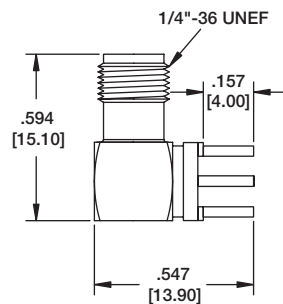
**RF2-02-T-02-50-G**



**RF2 TYPE 03**  
**SMA RIGHT ANGLE FEMALE PC BOARD MOUNT**



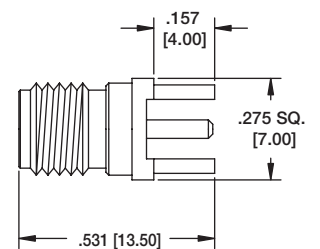
**RF2-03-T-00-50-G**



**RF2 TYPE 04**  
**SMA FEMALE PC BOARD MOUNT**



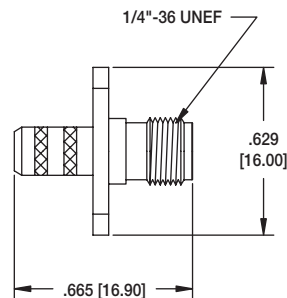
**RF2-04-T-00-50-G**



**RF2 TYPE 05**  
**SMA FEMALE CHASSIS CRIMP**



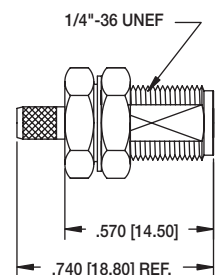
**RF2-05-T-00-50-G**



**RF2 TYPE 06**  
**SMA FEMALE BULKHEAD CRIMP**



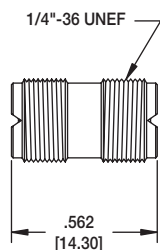
**RF2-06-T-02-50**



**RF2 TYPE 07**  
SMA DOUBLE FEMALE ADAPTOR



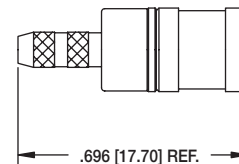
RF2-07-T-AS-50



**RF3 TYPE 01**  
SMB MALE CRIMP



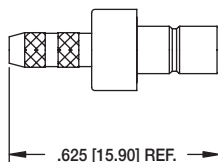
RF3-01-T-01-50-G



**RF3 TYPE 02**  
SMB FEMALE CRIMP



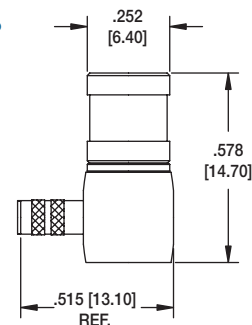
RF3-02-T-01-50-G



**RF3 TYPE 03**  
SMB MALE RIGHT ANGLE CRIMP



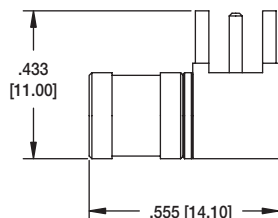
RF3-03-T-03-75-G



**RF3 TYPE 04**  
SMB RIGHT ANGLE MALE PCB MOUNT



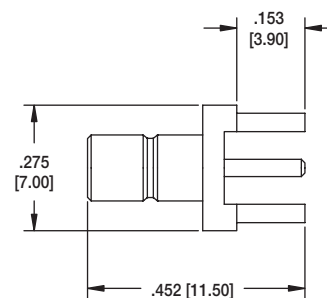
RF3-04-T-00-50-G



**RF3 TYPE 05**  
SMB FEMALE PCB MOUNT



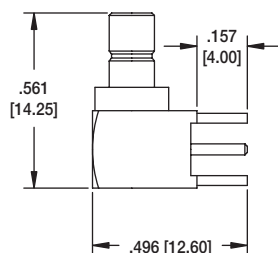
RF3-05-T-00-50-G



**RF3 TYPE 06**  
SMB RIGHT ANGLE FEMALE PCB MOUNT



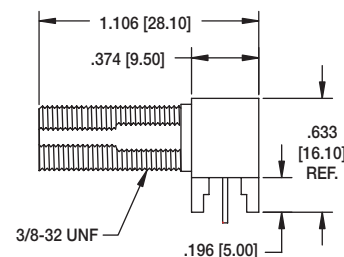
RF3-06-T-00-50-G



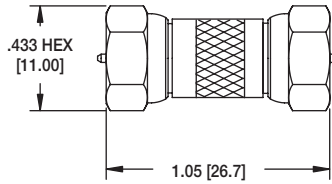
**RF4 TYPE 01**  
F FEMALE RIGHT ANGLE PCB MOUNT



RF4-01-T-00-75

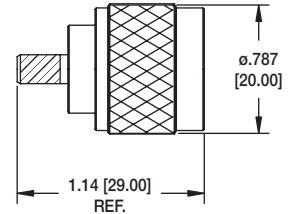


**RF4 TYPE 02**  
F MALE TO MALE



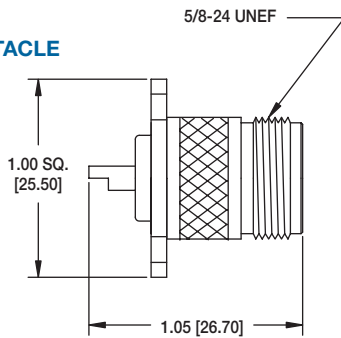
RF4-02-T-AS-75

**RF5 TYPE 01**  
N MALE CRIMP TYPE



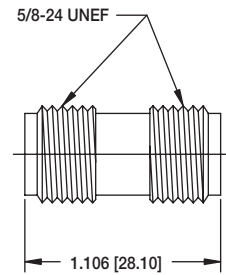
RF5-01-D-01-50

**RF5 TYPE 02**  
N FEMALE PANEL RECEPTACLE



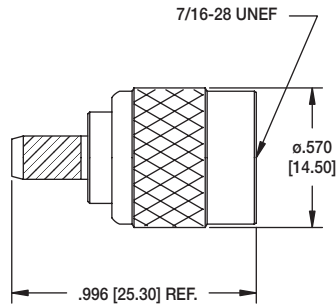
RF5-02-D-01-50

**RF6 TYPE 01**  
UHF DOUBLE FEMALE



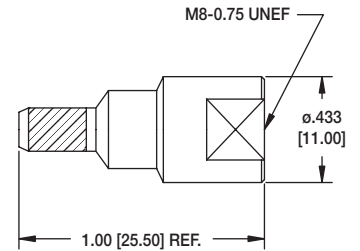
RF6-01-D-AS-50

**RF7 TYPE 01**  
TNC MALE CRIMP



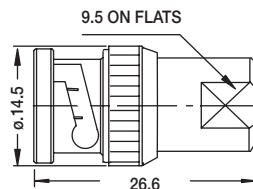
RF7-01-D-02-50

**RF8 TYPE 01**  
FME MALE CRIMP



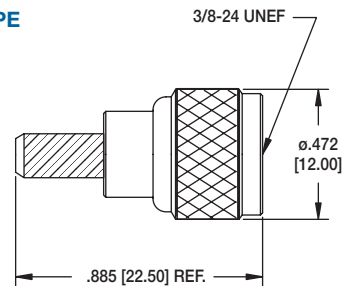
RF8-01-T-01-50-G

**RF8 TYPE 02**  
FME MALE TO BNC MALE



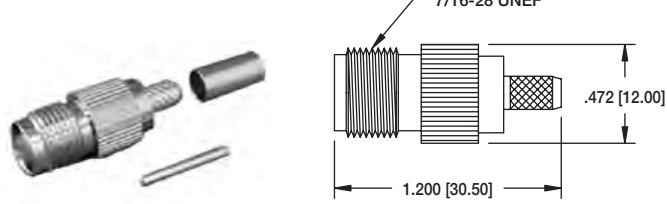
RF8-02-T-AS-50

**RF9 TYPE 01**  
MINI UHF MALE CRIMP TYPE



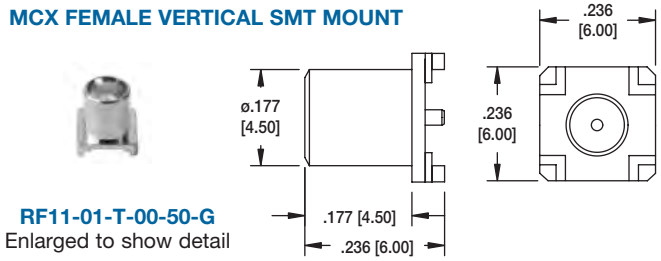
RF7-01-D-02-50

**RF7 TYPE 08  
TNC FEMALE CRIMP**



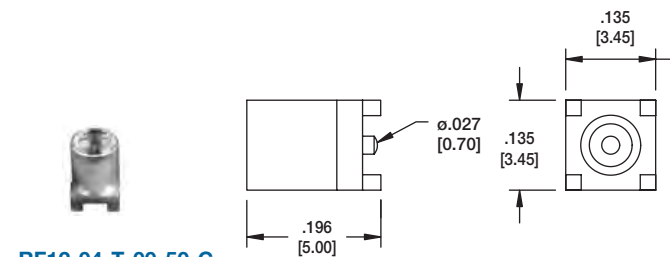
**RF7-08-T-02-50-G**

**RF11 TYPE 01  
MCX FEMALE VERTICAL SMT MOUNT**



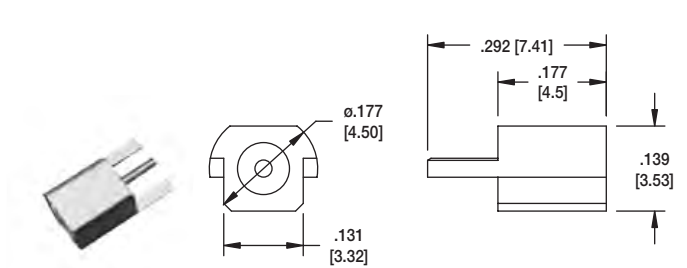
**RF11-01-T-00-50-G**  
Enlarged to show detail

**RF12 TYPE 04  
MMCX MALE VERTICAL PCB MOUNT**



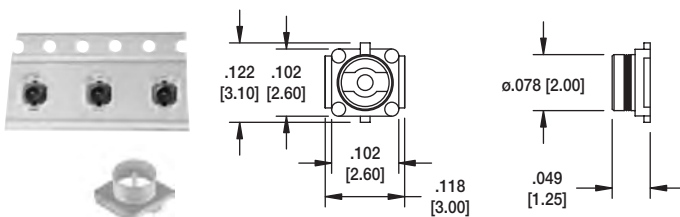
**RF12-04-T-00-50-G**  
Enlarged to show detail

**RF12 TYPE 05  
MMCX PCB MOUNT**



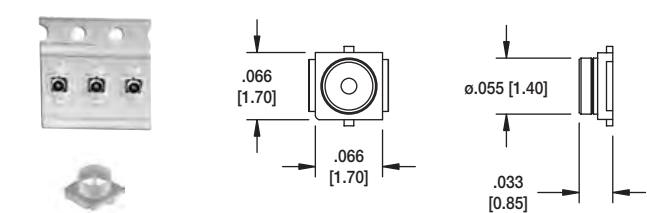
**RF12-05-T-00-50-G**

**RF20 TYPE 01  
MHF SURFACE MOUNT**



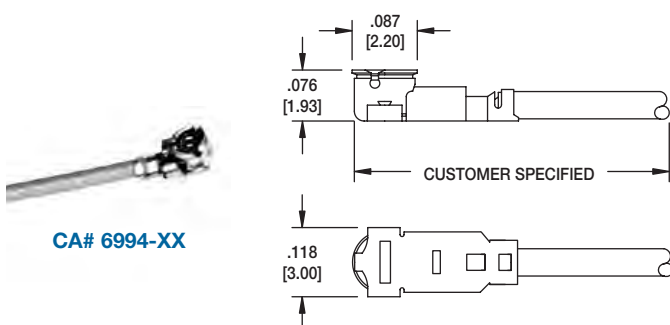
**RF20-01-p-00-50-G**  
Enlarged to show detail

**RF28 TYPE 01  
W.FL SURFACE MOUNT**



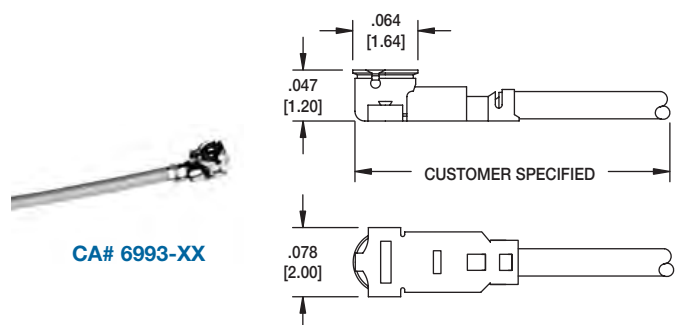
**RF28-01-T-00-50-G**  
Enlarged to show detail

**RF20 TYPE 01 CABLE ASSEMBLY  
MATES WITH MHF SMT CONNECTOR**



**CA# 6994-XX**

**RF28 TYPE 01 CABLE ASSEMBLY  
MATES W.FL SMT CONNECTOR**



**CA# 6993-XX**

### INTRODUCTION:

Adam Tech right angle PCB mount .318" footprint D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25 and 37 positions they are a good choice for a low cost industry standard connection. These connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

### FEATURES:

- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

### MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

### SPECIFICATIONS:

#### Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0  
 Optional Hi-Temp insulator: Nylon 6T  
 Insulator color: Black  
 Contacts: Phosphor Bronze  
 Shell: Steel, Tin or Zinc plated  
 Hardware: Brass, Nickel plated

#### Contact Plating:

Gold over Nickel underplate on contact area.

#### Electrical:

Operating voltage: 250V AC / DC max.  
 Current rating: 5 Amps max.  
 Contact resistance: 20 mΩ max. initial  
 Insulation resistance: 5000 MΩ min.  
 Dielectric withstanding voltage: 1000V AC for 1 minute

#### Mechanical:

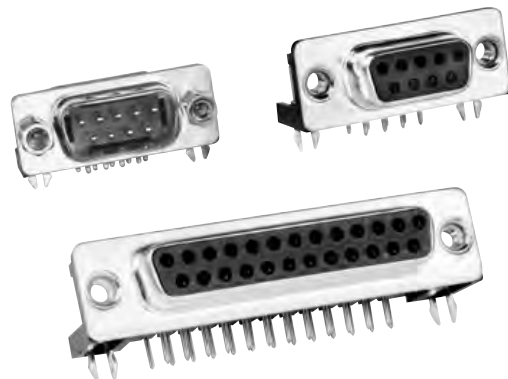
Insertion force: 0.75 lbs max  
 Extraction force: 0.44 lbs min  
 Temperature Rating:  
 Operating temperature: -55°C to +105°C  
 Soldering process temperature:  
     Standard insulator: 235°C  
     Hi-Temp insulator: 260°C

#### Packaging:

Anti-ESD plastic trays

#### Approvals and Certifications:

UL Recognized File no. E224053



### ORDERING INFORMATION



#### SHELL SIZE/ POSITIONS

DE09 = 9 Position  
 DA15 = 15 Position  
 DB25 = 25 Position  
 DC37 = 37 Position

#### CONTACT TYPE

PL = Plug, .318" Footprint  
 SL = Socket, .318" Footprint

#### MATING FACE MOUNTING OPTIONS

3 = #4-40 fixed jackscrews  
 4 = #4-40 flush threaded inserts  
 5 = #4-40 flush threaded inserts with removable jackscrews installed  
 6 = .120" non-threaded mounting holes

\* See Mounting Option diagrams pg. 66

#### PCB MOUNTING OPTIONS

1 = Wrap around ground straps with thru holes  
 2 = Forked board locks  
 3 = Top side only ground straps with thru holes  
 4 = Top side only ground straps with #4-40 threaded screw holes

\* See Mounting Option diagrams pg. 66

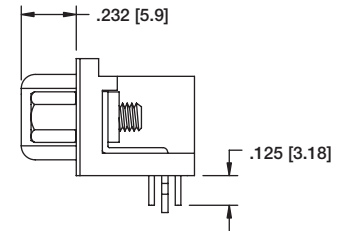
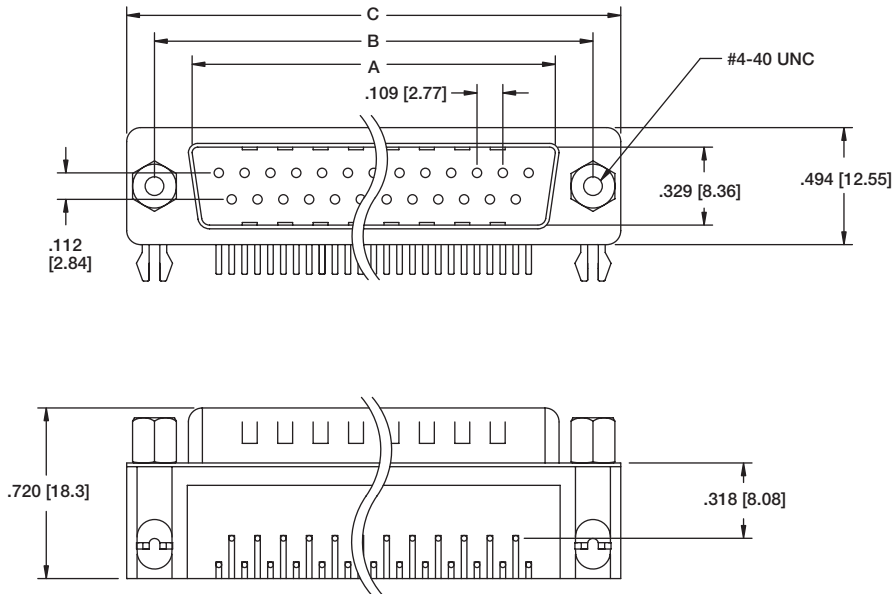
#### OPTIONS:

Add designator(s) to end of part number  
 15 = 15 μin gold plating in contact area  
 30 = 30 μin gold plating in contact area  
 EMI = Ferrite filtered version for EMI/RFI suppression  
 LPJ = Loose packed jackscrews  
 F = Superior retention 4 prong boardlocks  
 HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C  
 R = Round jackscrews



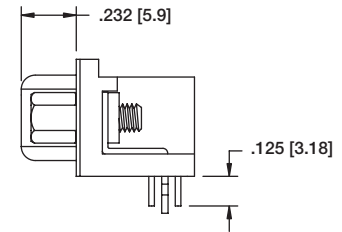
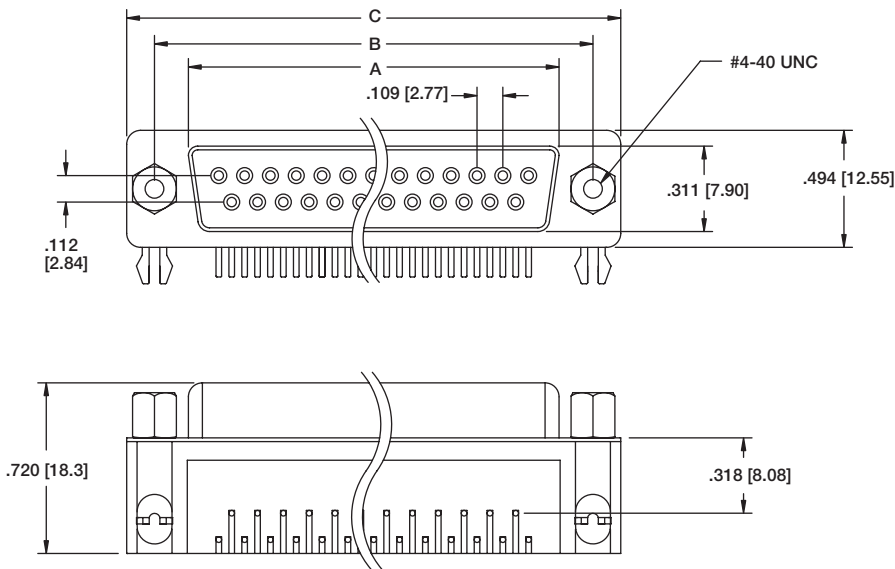


### PLUG

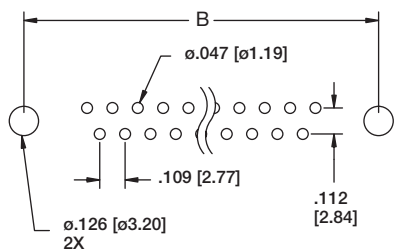


DB25-PL-25

### SOCKET



DB25-SL-24

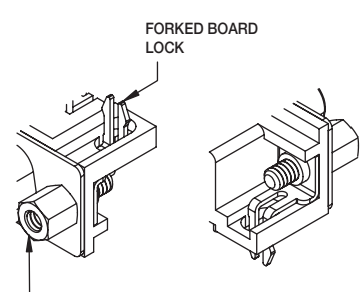
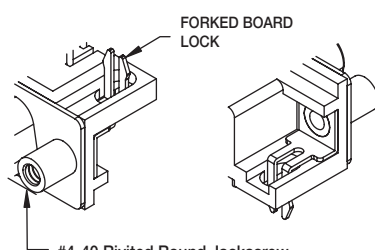
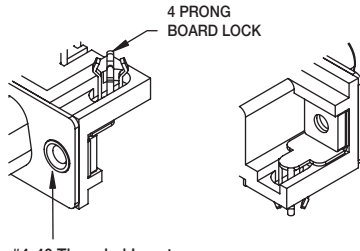
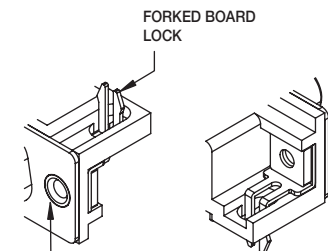
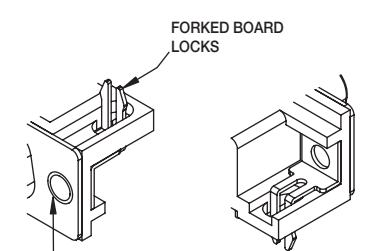
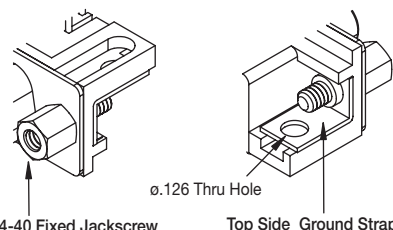
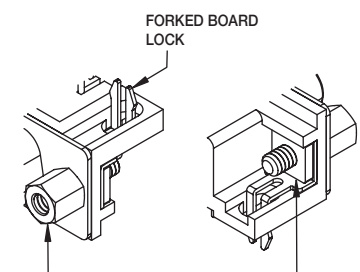
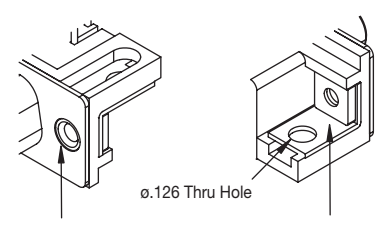
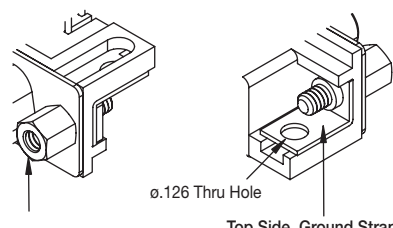
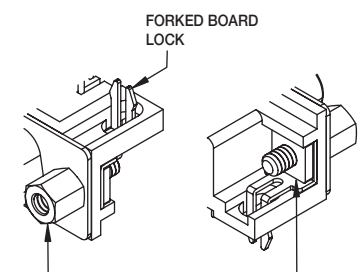
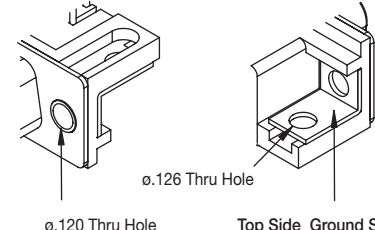
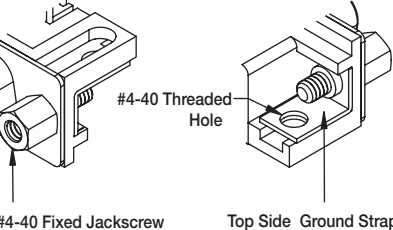


Recommended PCB Layout

Unit: Inch [mm]

Pos.	PLUG	SOCKET	DIMENSIONS	
	A	A	B	C
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]

### MATING FACE & PCB MOUNTING OPTIONS

<p><b>OPTION 23</b></p>  <p>FORKED BOARD LOCK</p> <p>#4-40 Fixed Jackscrew</p> <p>* Standard Stocked Item</p>	<p><b>OPTION 23-R</b> #4-40 Rivited Round Jackscrew (Shown)</p> <p><b>OPTION 27</b> #4-40 Rivited Hex Jackscrew (Not Shown)</p>  <p>FORKED BOARD LOCK</p> <p>#4-40 Rivited Round Jackscrew</p>	<p><b>OPTION 24-F</b></p>  <p>4 PRONG BOARD LOCK</p> <p>#4-40 Threaded Insert</p>
<p><b>OPTION 24</b></p>  <p>FORKED BOARD LOCK</p> <p>#4-40 Threaded Insert</p> <p>* Standard Stocked Item</p>	<p><b>OPTION 26</b></p>  <p>FORKED BOARD LOCKS</p> <p>#4-40 Fixed Jackscrew</p> <p>ø.120 Thru Hole</p>	<p><b>OPTION 33</b></p>  <p>#4-40 Fixed Jackscrew</p> <p>ø.126 Thru Hole</p> <p>Top Side Ground Strap</p>
<p><b>OPTION 25</b></p>  <p>FORKED BOARD LOCK</p> <p>Removable Jackscrew</p> <p>#4-40 Threaded Insert</p> <p>* Standard Stocked Item</p>	<p><b>OPTION 34</b></p>  <p>#4-40 Threaded Insert</p> <p>ø.126 Thru Hole</p> <p>Top Side Ground Strap</p>	<p><b>OPTION 35</b></p>  <p>#4-40 Threaded Insert with Removable Jackscrew</p> <p>ø.126 Thru Hole</p> <p>Top Side Ground Strap</p>
<p><b>OPTION 25</b></p>  <p>FORKED BOARD LOCK</p> <p>Removable Jackscrew</p> <p>#4-40 Threaded Insert</p> <p>* Standard Stocked Item</p>	<p><b>OPTION 36</b></p>  <p>#4-40 Threaded Insert</p> <p>ø.126 Thru Hole</p> <p>Top Side Ground Strap</p>	<p><b>OPTION 43</b></p>  <p>#4-40 Fixed Jackscrew</p> <p>#4-40 Threaded Hole</p> <p>Top Side Ground Strap</p>

### INTRODUCTION:

Adam Tech right angle PCB mount .590" footprint D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25 and 37 positions they are an excellent choice for a low cost industry standard connection. They are available with full or half size PCB side mounting flanges. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

### FEATURES:

- Half or Full flange options
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

### MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

### SPECIFICATIONS:

#### Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0  
 Optional Hi-Temp insulator: Nylon 6T  
 Insulator Color: Black  
 Contacts: Phosphor Bronze  
 Shell: Steel, Tin or Zinc plated  
 Hardware: Brass, Nickel plated

#### Contact Plating:

Gold over Nickel underplate on contact area.

#### Electrical:

Operating voltage: 250V AC / DC max.  
 Current rating: 5 Amps max.  
 Contact resistance: 20 mΩ max. Initial  
 Insulation resistance: 5000 MΩ min.  
 Dielectric withstanding voltage: 1000V AC for 1 minute

#### Mechanical:

Insertion force: 0.75 lbs max  
 Extraction force: 0.44 lbs min

#### Temperature Rating:

Operating temperature: -55°C to +105°C  
 Soldering process temperature:  
 Standard insulator: 235°C  
 Hi-Temp insulator: 260°C

#### PACKAGING:

Anti-ESD plastic trays

#### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



### ORDERING INFORMATION

**DB25**

**SQ**

**SA**

**4**

#### SHELL SIZE/ POSITIONS

**DE09** = 9 Position  
**DA15** = 15 Position  
**DB25** = 25 Position  
**DC37** = 37 Position

#### CONTACT TYPE

**PQ** = Plug,  
 .590" Footprint  
**SQ** = Socket,  
 .590" Footprint

#### MATING FACE MOUNTING OPTIONS

**3** = #4-40 fixed jack screws  
**4** = #4-40 flush threaded inserts  
**5** = #4-40 flush threaded inserts with removable jack screws installed  
**6** = .120" non-threaded mounting holes

\* See Mounting Option diagrams page 64

#### PCB MOUNTING OPTIONS

**SA** = Wrap around ground straps with thru holes on half flange  
**SB** = Wrap around ground straps with thru holes on full flange  
**SC** = Top side only ground straps with thru holes on half flange  
**SD** = Top side only ground straps with thru holes on full flange  
**F** = Forked boardlocks on half flange  
**R** = Forked boardlocks on full flange

\* See Mounting Option diagrams page 64

#### OPTIONS:

Add designator(s) to end of part number

**15** = 15 μin gold plating in contact area

**30** = 30 μin gold plating in contact area

**EMI** = Ferrite filtered version for EMI/RFI suppression

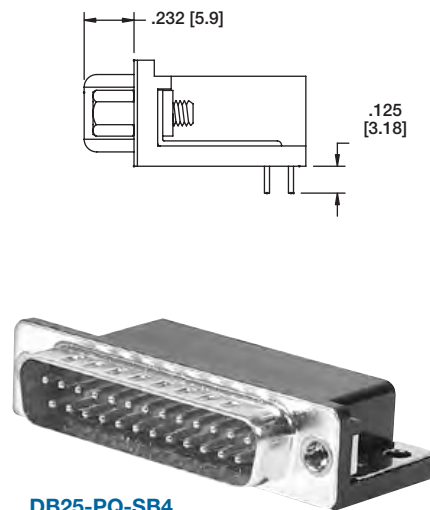
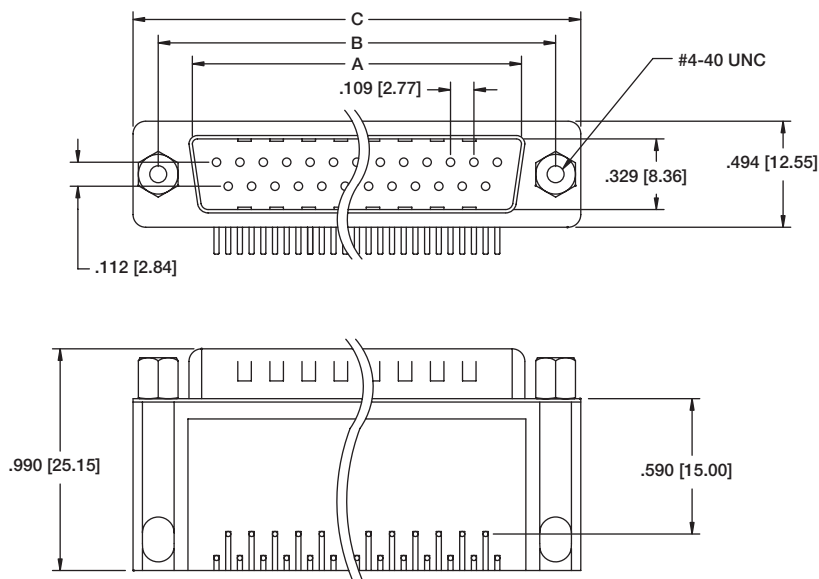
**LPJ** = Loose packed jackscrews  
**F** = Superior retention 4 prong boardlocks

**HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

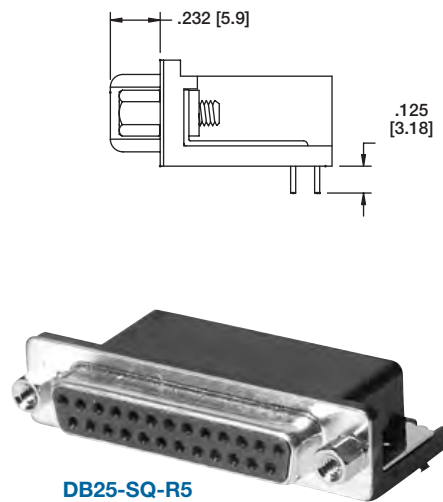
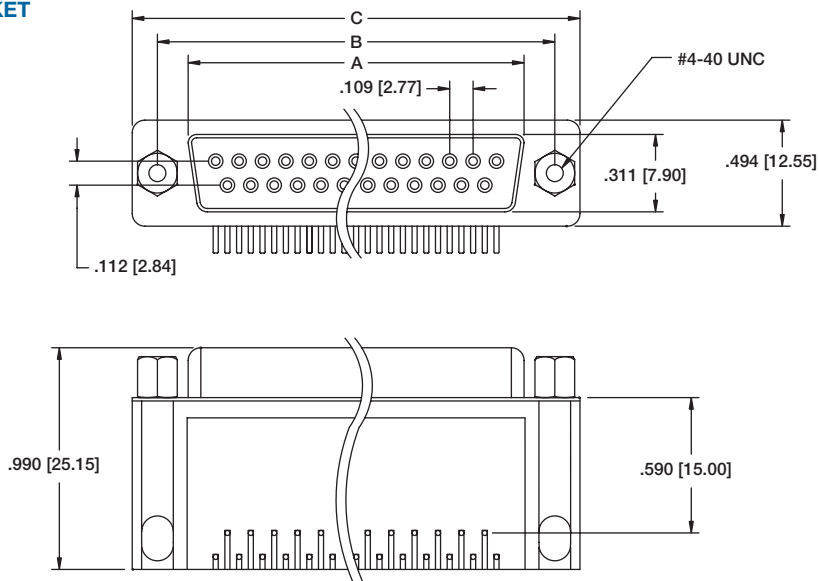
**R** = Round jackscrews

See pg. 64 for Mounting Options

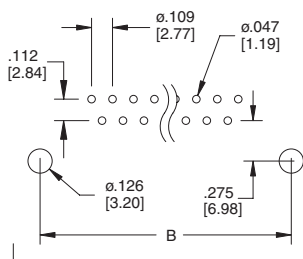
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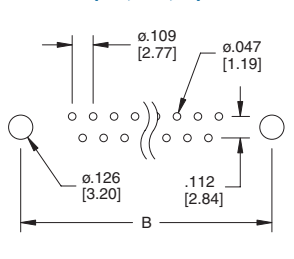
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### Half Flange PCB Layout for PCB mounting options (SA, SC, F)



### Full Flange PCB Layout for PCB mounting options (SB, SD, R)

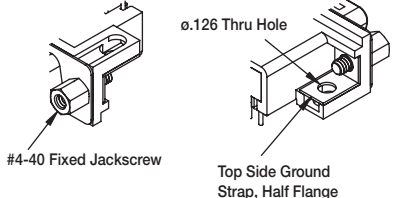
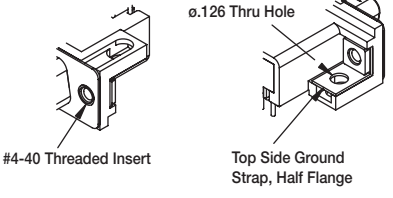
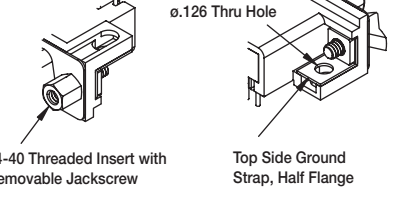
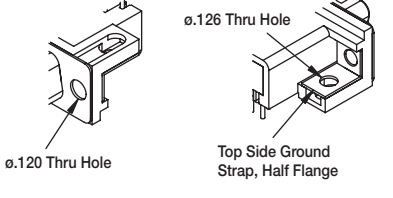
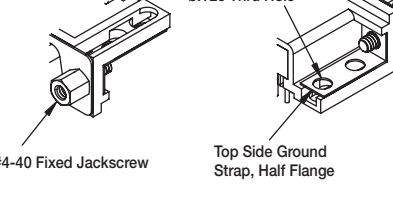
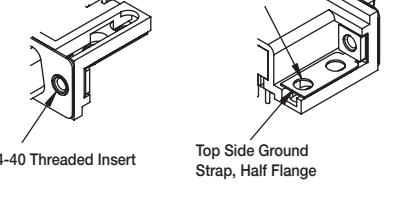
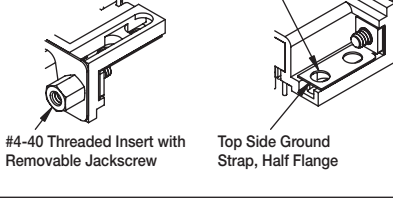
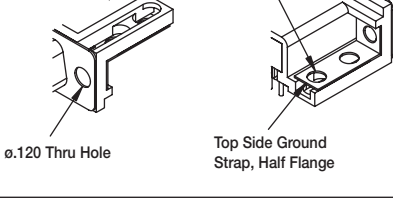
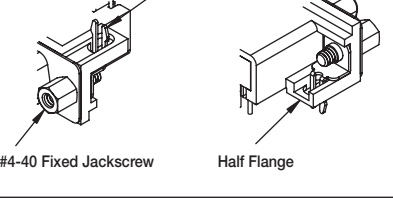
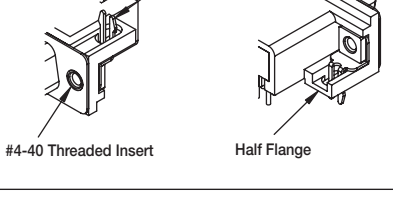
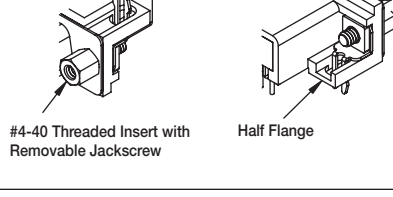
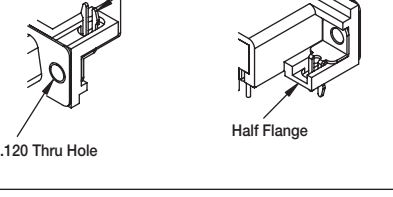
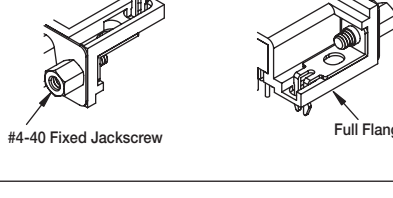
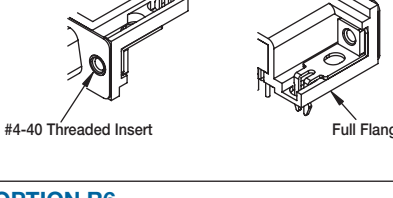
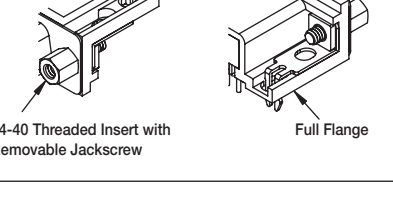
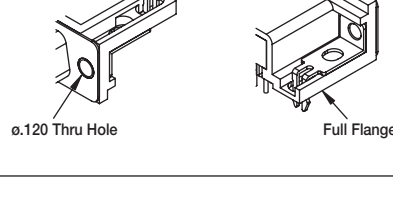


PCB Edge

Unit: Inch [mm]

Pos.	PLUG	SOCKET	DIMENSIONS	
	A	A	B	C
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]

### Mating Face & PCB Mounting Options

<p><b>OPTION SC3</b></p>  <p>#4-40 Fixed Jackscrew Top Side Ground Strap, Half Flange 0.126 Thru Hole</p>	<p><b>OPTION SC4</b></p>  <p>#4-40 Threaded Insert Top Side Ground Strap, Half Flange 0.126 Thru Hole</p>	<p><b>OPTION SC5</b></p>  <p>#4-40 Threaded Insert with Removable Jackscrew Top Side Ground Strap, Half Flange 0.126 Thru Hole</p>
<p><b>OPTION SC6</b></p>  <p>0.120 Thru Hole Top Side Ground Strap, Half Flange</p>	<p><b>OPTION SD3</b></p>  <p>#4-40 Fixed Jackscrew Top Side Ground Strap, Half Flange 0.126 Thru Hole</p>	<p><b>OPTION SD4</b></p>  <p>#4-40 Threaded Insert Top Side Ground Strap, Half Flange 0.126 Thru Hole</p>
<p><b>OPTION SD5</b></p>  <p>#4-40 Threaded Insert with Removable Jackscrew Top Side Ground Strap, Half Flange 0.126 Thru Hole</p>	<p><b>OPTION SD6</b></p>  <p>0.120 Thru Hole Top Side Ground Strap, Half Flange 0.126 Thru Hole</p>	<p><b>OPTION F3</b></p>  <p>#4-40 Fixed Jackscrew Half Flange Forked Board Lock</p>
<p><b>OPTION F4</b></p>  <p>#4-40 Threaded Insert Half Flange Forked Board Lock</p>	<p><b>OPTION F5</b></p>  <p>#4-40 Threaded Insert with Removable Jackscrew Half Flange Forked Board Lock</p>	<p><b>OPTION F6</b></p>  <p>0.120 Thru Hole Half Flange Forked Board Lock</p>
<p><b>OPTION R3</b></p>  <p>#4-40 Fixed Jackscrew Full Flange Forked Board Lock</p>	<p><b>OPTION R4</b></p>  <p>#4-40 Threaded Insert Full Flange Forked Board Lock</p>	<p><b>OPTION R5</b></p>  <p>#4-40 Threaded Insert with Removable Jackscrew Full Flange Forked Board Lock</p>
<p><b>OPTION R6</b></p>  <p>0.120 Thru Hole Full Flange Forked Board Lock</p>		

### INTRODUCTION:

Adam Tech Combination Signal/Coax D-Sub connectors are a popular interface for many mixed signal I/O applications. Offered in five shell sizes they are a good choice for a low cost industry standard connection that requires utilization of standard signal and high performance, low impedance signals either in signal-coax or signal -power choices. Adam Tech connectors are manufactured with precision stamped standard signal contacts and precision turned coax contacts. These connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

### Electrical:

Operating voltage: 250V AC / DC max.  
Signal Current rating: 5 Amps max.  
High Power contact current rating: 20 or 40 Amps.  
Coaxial Impedance: 50Ω (75Ω optional)  
Contact resistance: 20 mΩ max. initial  
Insulation resistance: 5000 MΩ min.  
Dielectric withstanding voltage: 1000V AC for 1 minute

### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



### ORDERING INFORMATION

**D13W3**

**SLP**

**1**

**2**

#### SHELL CONFIGURATIONS

D1W1, D2W2, D3W3, D5W1, D5W5, D7W2, D8W8, D9W4N, D11W1, D13W3, D13W6, D17W2, D17W5, D21W1, D21W4, D24W7, D25W3, D27W2, D36W4, D43W2

#### STYLE

SIGNAL - COAX

1 = 50 Ohm  
2 = 75 Ohm

SIGNAL - POWER

3 = 10 Amps  
4 = 20 Amps  
5 = 30 Amps  
6 = 40 Amps  
7 = 50 Amps

#### MOUNTING RIGHT ANGLE

- 1 = 120" non-threaded mounting holes, no bracket
- 2 = Short Bracket with #4-40 flush threaded inserts in mounting holes
- 2A = Short Bracket with #4-40 flush threaded inserts in mounting holes Jack Screws installed
- 3 = Long Bracket with #4-40 flush threaded inserts in mounting holes
- 3A = Long Bracket with #4-40 flush threaded inserts in mounting holes Jack Screws installed

#### TYPE

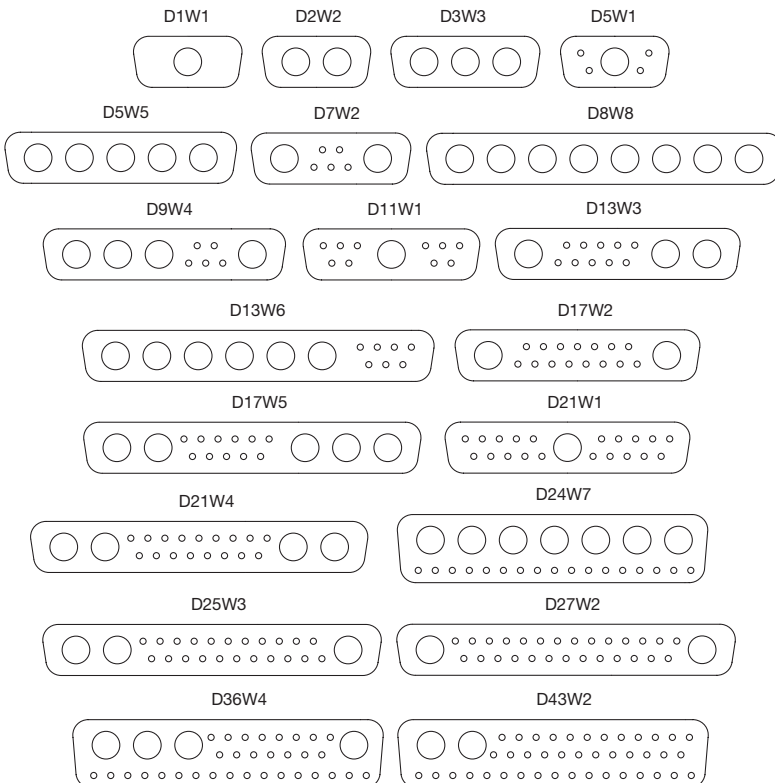
##### SIGNAL-COAX

- PT = Plug, Straight PCB
- ST = Socket, Straight PCB
- PL = Plug, Right Angle PCB
- SL = Socket, Right Angle PCB
- PD = Plug, Solder Cup
- SD = Socket, Solder Cup

##### SIGNAL-POWER

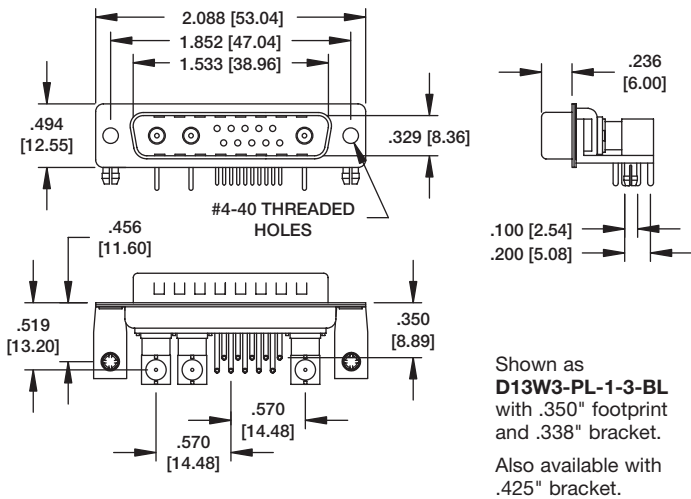
- PTP = Plug, Straight PCB, Power Contacts
- STP = Socket, Straight PCB, Power Contacts
- PLP = Plug, Right Angle PCB, Power Contacts
- SLP = Socket, Right Angle PCB, Power Contacts
- PDP = Plug, Solder Cup Power Contacts
- SDP = Socket, Solder Cup Power Contacts

### SHELL CONFIGURATIONS

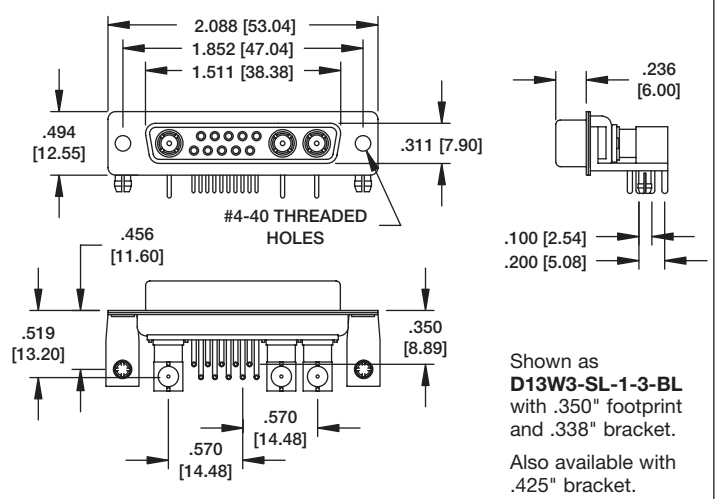




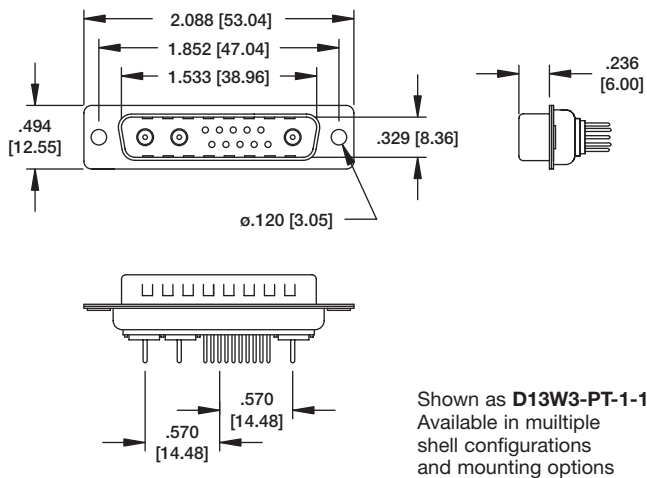
### PLUG - RIGHT ANGLE PCB MOUNT SIGNAL-COAX



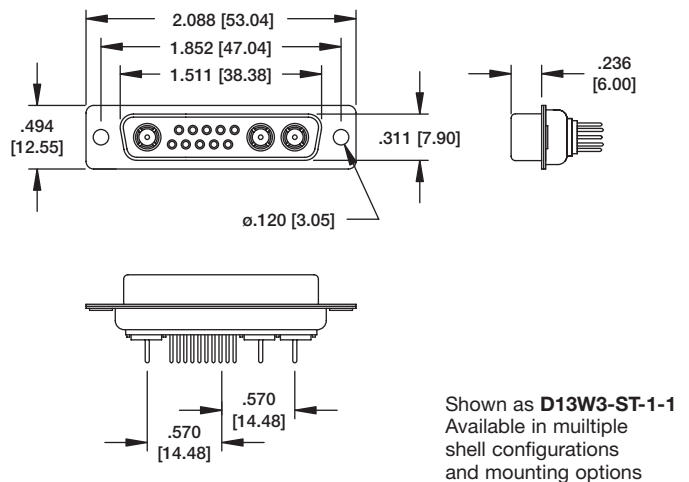
### SOCKET - RIGHT ANGLE PCB MOUNT SIGNAL-COAX



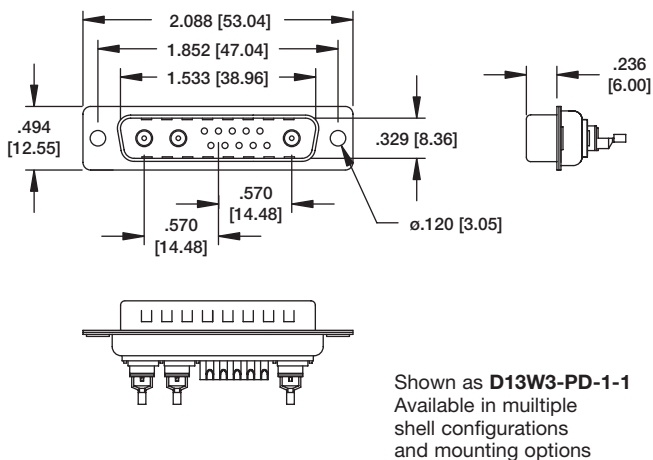
### PLUG - STRAIGHT PCB MOUNT SIGNAL-COAX



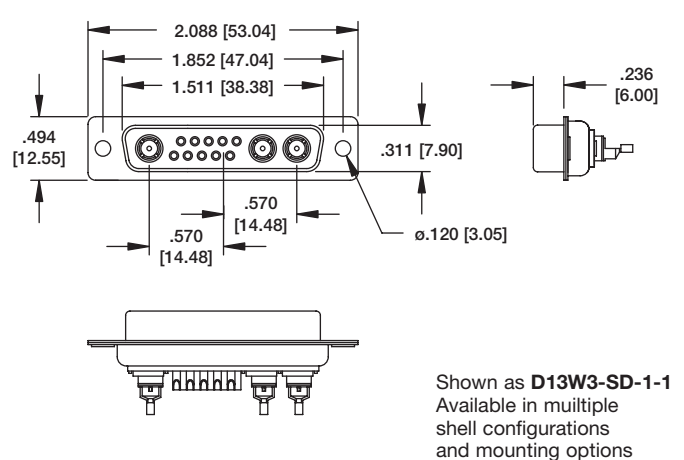
### SOCKET - STRAIGHT PCB MOUNT SIGNAL-COAX



### PLUG - STRAIGHT SOLDER CUP SIGNAL-COAX

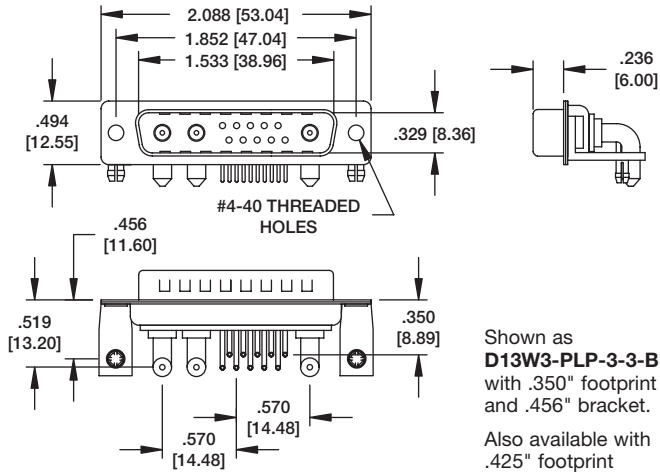


### SOCKET - STRAIGHT SOLDER CUP SIGNAL-COAX

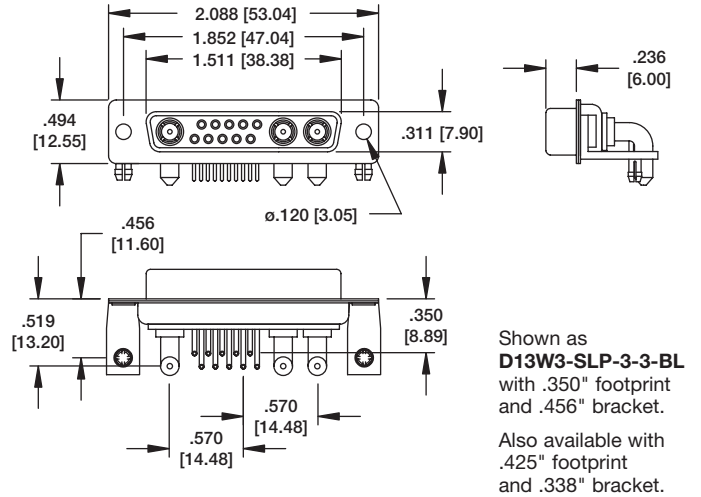




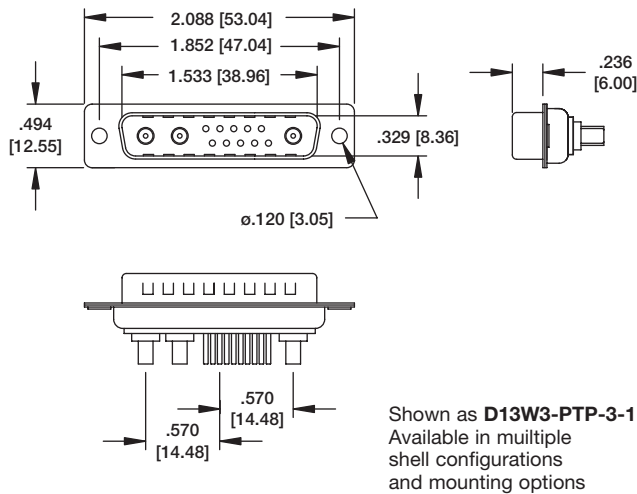
### PLUG - RIGHT ANGLE PCB MOUNT SIGNAL-POWER



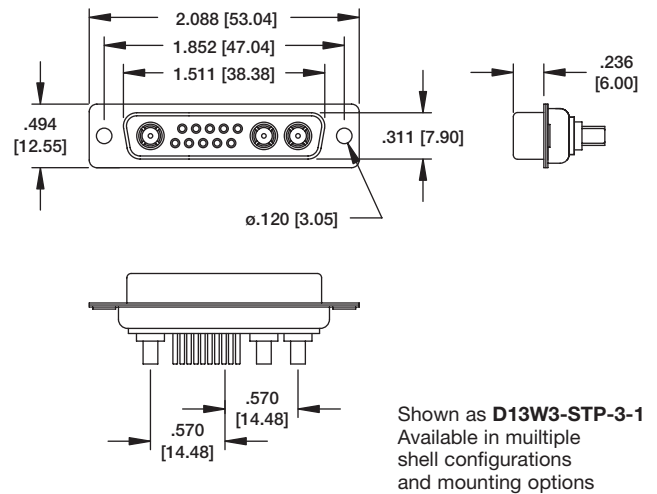
### SOCKET - RIGHT ANGLE PCB MOUNT SIGNAL-POWER



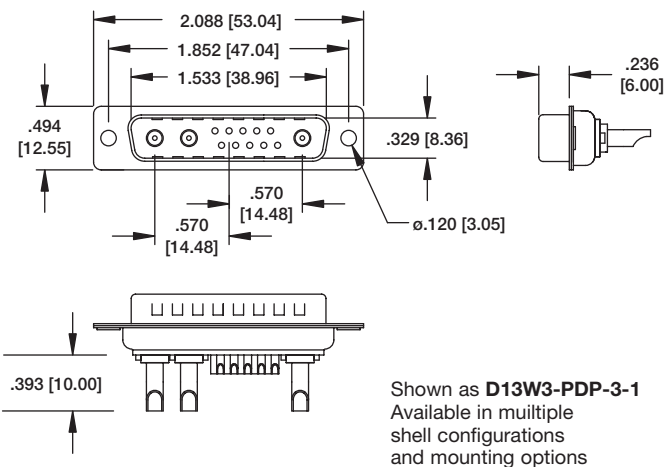
### PLUG - STRAIGHT PCB MOUNT SIGNAL-POWER



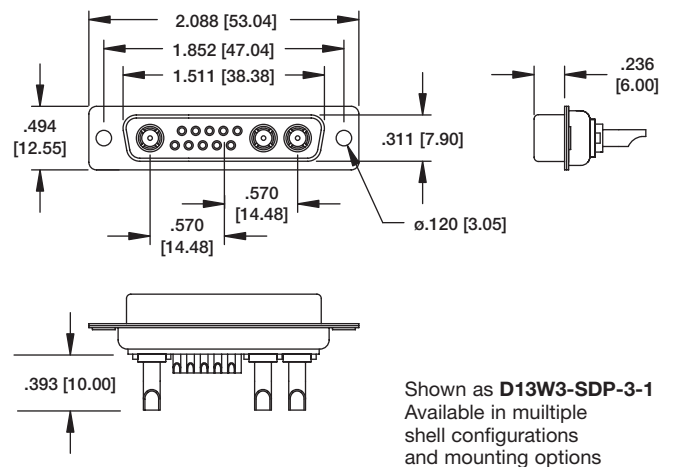
### SOCKET - STRAIGHT PCB MOUNT SIGNAL-POWER



### PLUG - STRAIGHT SOLDER CUP SIGNAL-POWER



### SOCKET - STRAIGHT SOLDER CUP SIGNAL-POWER



### INTRODUCTION:

Adam Tech Right Angle Slimline PCB tail D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15 and 25 positions they are an excellent choice for a low cost industry standard connection and are ideal for low profile design requirements. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

### FEATURES:

- Short profile space saving design
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

### MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

### SPECIFICATIONS:

#### Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0  
 Optional Hi-Temp insulator: Nylon 6T  
 Insulator Color: Black  
 Contacts: Phosphor Bronze  
 Shell: Steel, Tin or Zinc plated  
 Hardware: Brass, Nickel plated

#### Contact Plating:

Gold over Nickel underplate on contact area.

#### Electrical:

Operating voltage: 250V AC / DC max.  
 Current rating: 5 Amps max.  
 Contact resistance: 20 mΩ max. initial  
 Insulation resistance: 5000 MΩ min.  
 Dielectric withstanding voltage: 1000V AC for 1 minute

#### Mechanical:

Insertion force: 0.75 lbs max  
 Extraction force: 0.44 lbs min

#### Temperature Rating:

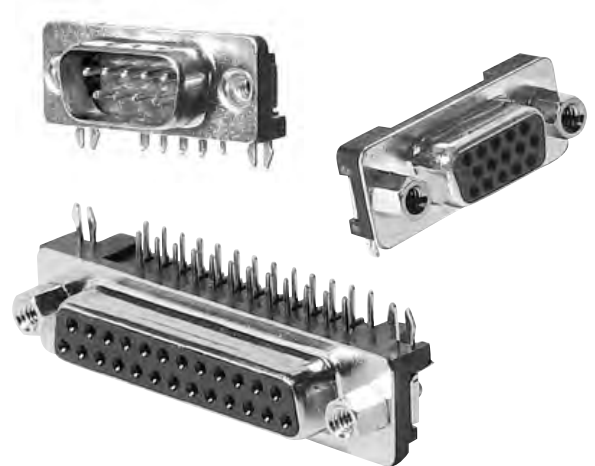
Operating temperature: -55°C to +105°C  
 Soldering process temperature:  
 Standard insulator: 235°C  
 Hi-Temp insulator: 260°C

#### PACKAGING:

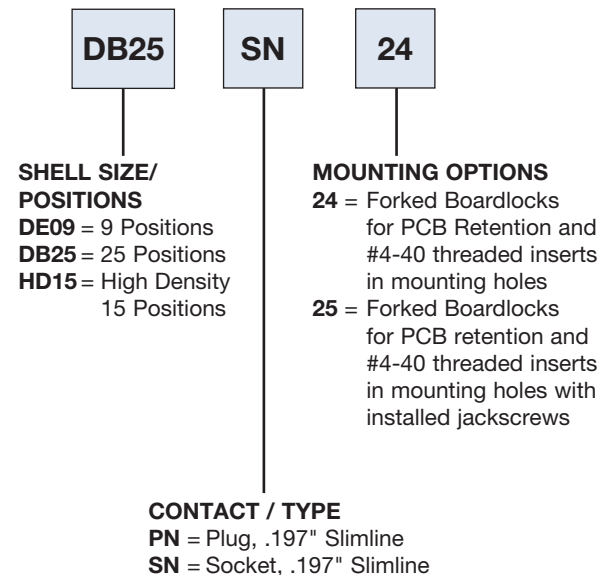
Anti-ESD plastic trays

#### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



### ORDERING INFORMATION

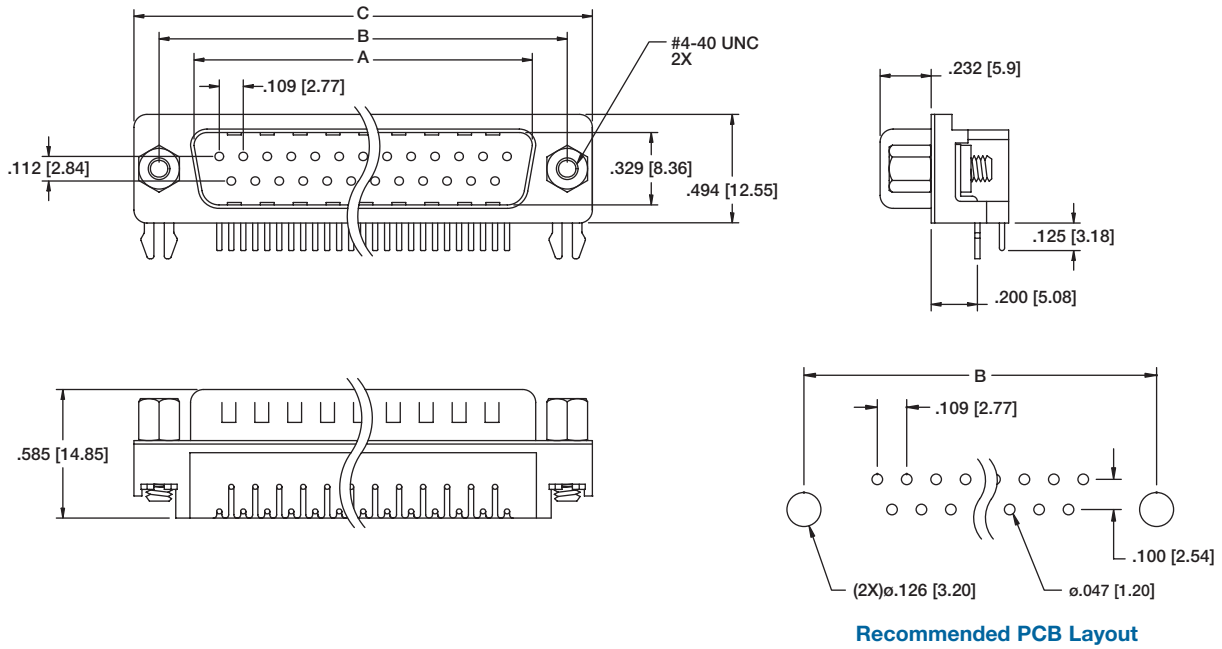


#### OPTIONS:

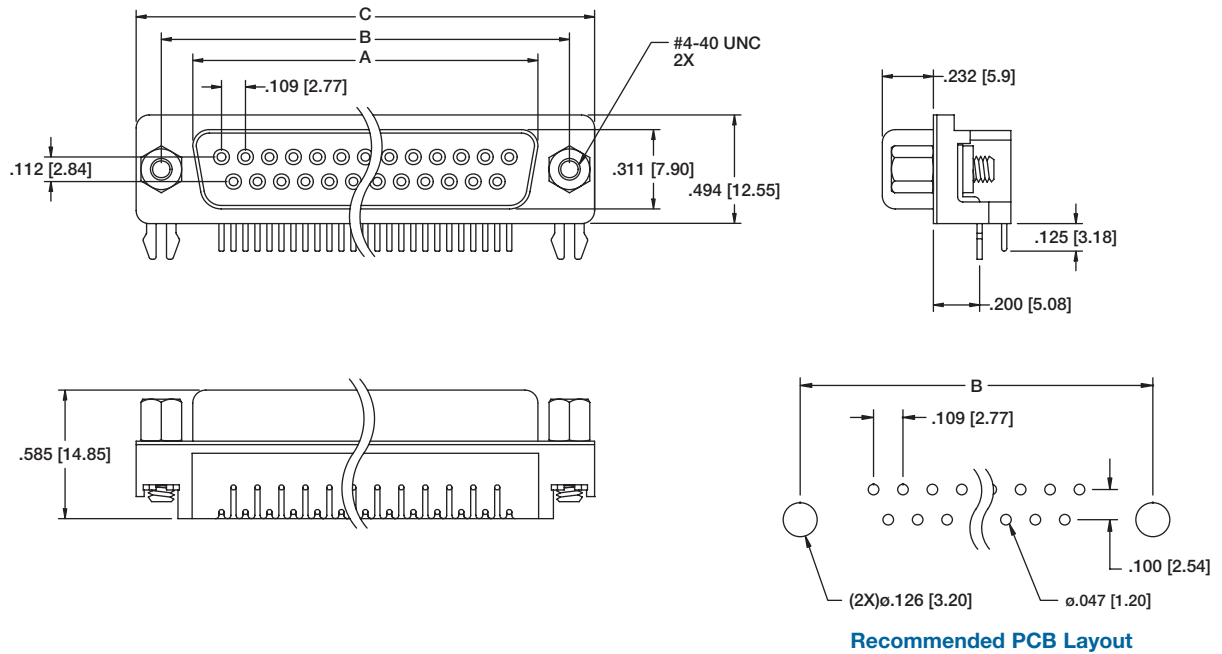
Add designator(s) to end of part number  
**15** = 15 μin gold plating in contact area  
**30** = 30 μin gold plating in contact area  
**LPJ** = Loose packed jackscrews  
**HT** = Hi-Temp insulator for Hi-Temp soldering  
 processes up to 260°C  
**R** = Round jackscrews installed



### PLUG



### SOCKET



Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS	
	A	A	B	C
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]

### INTRODUCTION:

Adam Tech Right Angle SMT Slimline D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15 and 25 positions they are an excellent choice for a low cost industry standard connection and are ideal for low profile design requirements. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

### FEATURES:

- Short profile space saving design
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

### MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

### SPECIFICATIONS:

#### Material:

Insulator: Hi-Temperature thermoplastic, rated UL94V-0  
 Insulator Color: Black  
 Contacts: Phosphor Bronze or Brass  
 Shell: Steel, Tin or Zinc plated  
 Hardware: Brass, Nickel plated

#### Contact Plating:

Gold over Nickel underplate on contact area.

#### Electrical:

Operating voltage: 250V AC / DC max.  
 Current rating: 1 Amp max.  
 Contact resistance: 20 mΩ max. initial  
 Insulation resistance: 5000 MΩ min.  
 Dielectric withstanding voltage: 1000V AC for 1 minute

#### Mechanical:

Insertion force: 0.75 lbs max  
 Extraction force: 0.44 lbs min

#### Temperature Rating:

Operating temperature: -55°C to +105°C  
 Soldering process temperature: 260°C

#### PACKAGING:

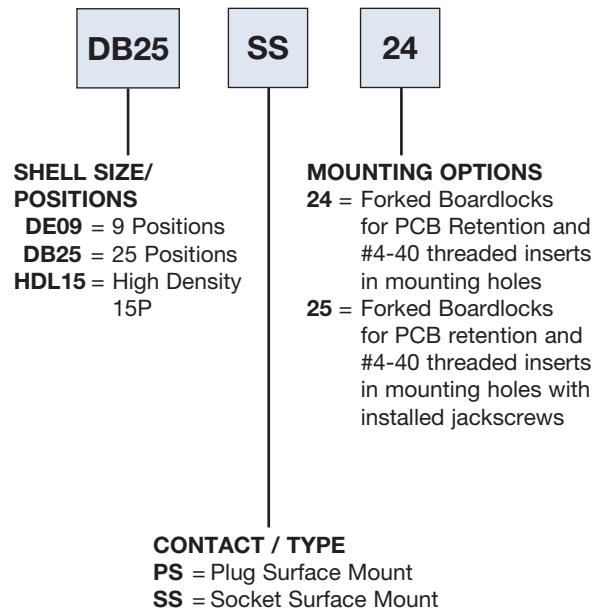
Anti-ESD plastic trays

#### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



### ORDERING INFORMATION

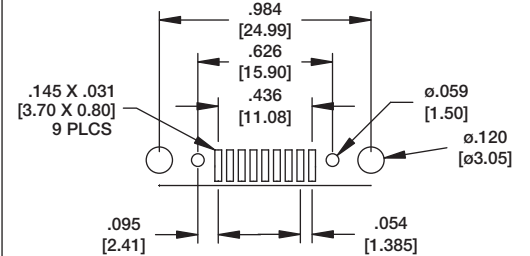
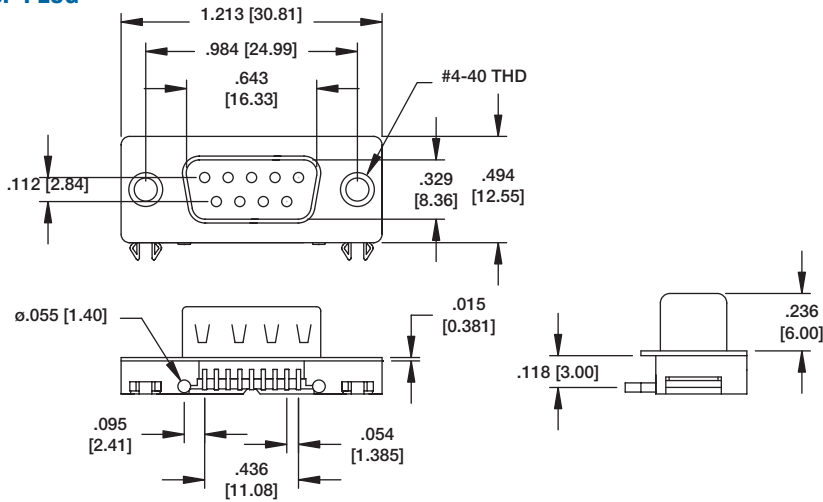


#### OPTIONS:

Add designator(s) to end of part number  
**15** = 15 μin gold plating in contact area  
**30** = 30 μin gold plating in contact area  
**R** = Round jackscrews



### 9P PLUG



Recommended PCB Layout

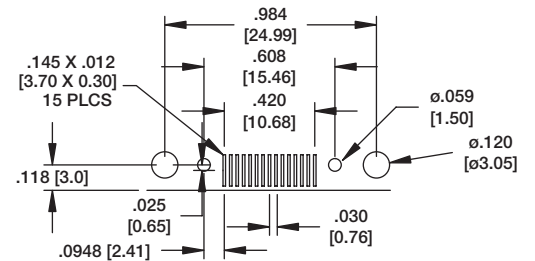
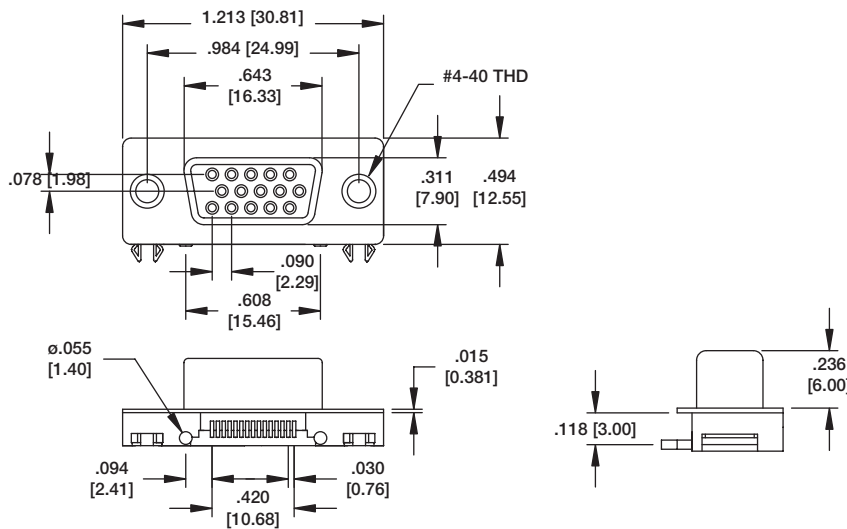


DE09-SS-24



DE09-PS-25

### HD15 SOCKET

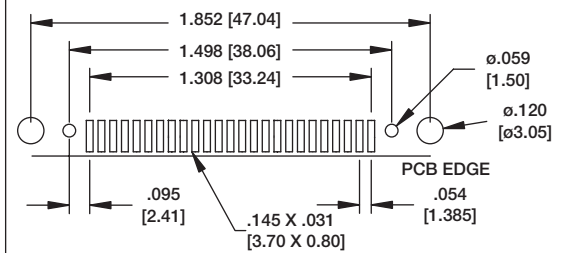
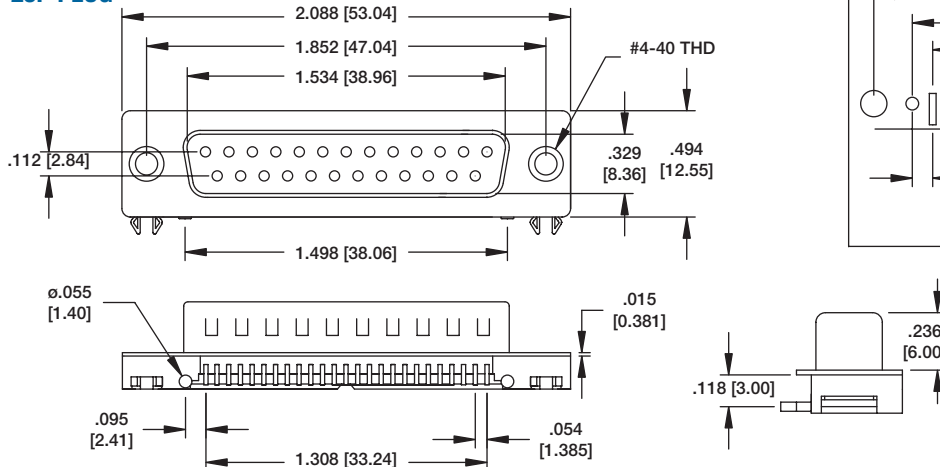


Recommended PCB Layout



HDL15-SS-25

### 25P PLUG



DB25-PS-24

### INTRODUCTION

Adam Tech Right Angle .283" footprint D-Sub connectors with Screw Machine Contacts are a popular interface for many I/O applications. Offered in 9, 15, 25 and 37 positions they are a good choice for a high reliability industry standard connection. These connectors are manufactured with precision machine turned contacts and offer an exceptional high reliability connection. They are available in a choice of contact plating and a wide selection of mating and mounting options.

### FEATURES:

- Exceptional Machine Contact connection
- Industry standard compatibility
- Durable metal shell design
- Precision turned screw machined contacts
- Variety of Mating and mounting options

### MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

### SPECIFICATIONS:

#### Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0  
 Optional Hi-Temp insulator: Nylon 6T rated UL94V-0  
 Insulator Colors: White (Black optional)  
 Contacts: Phosphor Bronze  
 Shell: Steel, Tin plated  
 Hardware: Brass, Nickel plated

#### Contact Plating:

Gold over Nickel underplate on contact area.

#### Electrical:

Operating voltage: 250V AC / DC max.  
 Current rating: 5 Amps max.  
 Contact resistance: 20 mΩ max. initial  
 Insulation resistance: 5000 MΩ min.  
 Dielectric withstanding voltage: 1000V AC for 1 minute

#### Mechanical:

Insertion force: 0.75 lbs max  
 Extraction force: 0.44 lbs min

#### Temperature Rating:

Operating temperature: -55°C to +105°C  
 Soldering process temperature:  
 Standard insulator: 235°C  
 Hi-Temp insulator: 260°C

#### PACKAGING:

Anti-ESD plastic trays

#### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

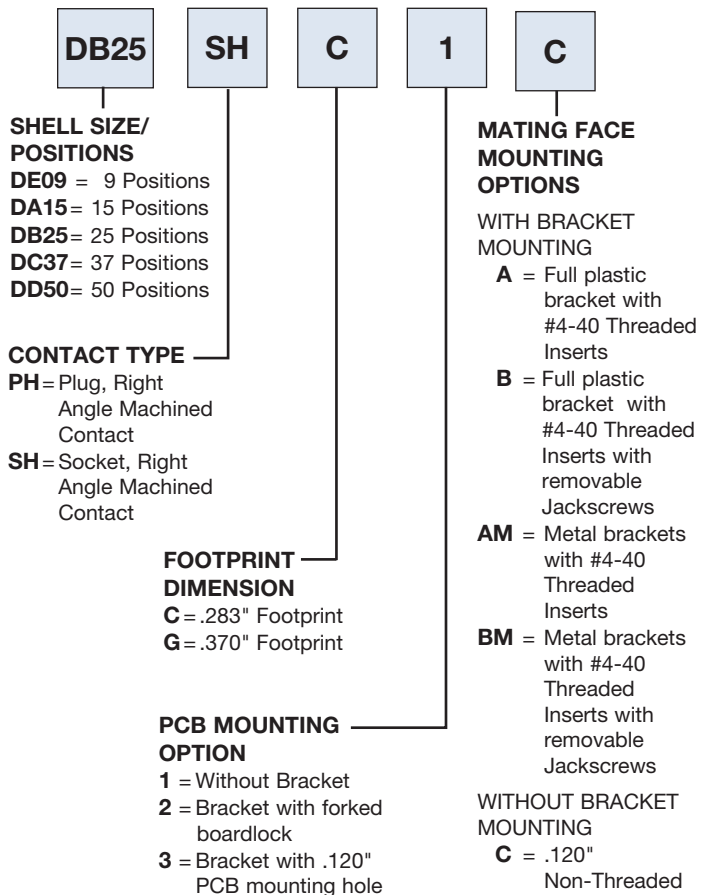


DB25-PH-C-3-AM

DB25-SH-C-2-B

DB25-PH-C-1-C

### ORDERING INFORMATION



### OPTIONS:

Add designator(s) to end of part number  
**15** = 15 μin gold plating in contact area  
**30** = 30 μin gold plating in contact area  
**BK** = Black insulator  
**HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C



### PLUG

Choice of Plastic or Metal Bracket  
Metal Bracket version shown

### PCB MOUNTING OPTIONS

**Option 1: Without Bracket**

**Option 2: Bracket with Board Lock**

**Option 3: Bracket with .120" Mounting Hole**

"X" = FOOTPRINT DISTANCE  
C = .283 [7.20] FOOTPRINT  
G = .370 [9.40] FOOTPRINT

### SOCKET

Choice of Plastic or Metal Bracket  
Metal Bracket version shown

### MATING FACE MOUNTING OPTIONS

**Option C: .120" Mounting Hole**

**Option D: #4-40 Rear Clinch Nut**

**Option E: #4-40 Threaded Insert with removable Jack Screws**

"X" = FOOTPRINT DISTANCE  
C = .283 [7.20] FOOTPRINT  
G = .370 [9.40] FOOTPRINT

**Recommended PCB Layout 9, 15, 25 & 37 Position**

**Recommended PCB Layout 50 Position**

Unit: Inch / mm

Positions	PLUG	SOCKET	DIMENSIONS		
	A	A	B	C	D
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.436 [11.08]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	.763 [19.39]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.310 [33.24]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	1.963 [49.86]
50	2.790 [52.80]	2.016 [52.34]	2.402 [61.00]	2.646 [67.20]	1.744 [44.32]



### INTRODUCTION:

Adam Tech Flat Cable IDC D-Sub connectors are a popular interface for many I/O and cable assembly applications. Offered in 9, 15, 25, 37 and 50 positions they are an excellent choice for a low cost industry standard connection that terminates .050" flat cable quickly, easily and compactly. These connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

### FEATURES:

- Quickly terminates to flat cable
- Industry standard compatibility
- Durable metal shell design
- Integral strain relief available
- Precision formed contacts
- Variety of Mating and mounting options

### MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

### SPECIFICATIONS:

#### Material:

Insulator: PBT, 30% glass reinforced, rated UL94V-0  
 Insulator Colors: Black (Blue optional)  
 Contacts: Phosphor Bronze  
 Shell: Steel, Tin or Zinc plated  
 Hardware: Brass, Nickel plated

#### Contact Plating:

Gold over Nickel underplate on contact area.

#### Electrical:

Operating voltage: 250V AC / DC max.  
 Current rating: 5 Amps max.  
 Contact resistance: 20 mΩ max. initial  
 Insulation resistance: 5000 MΩ min.  
 Dielectric withstanding voltage: 1000V AC for 1 minute

#### Mechanical:

Insertion force: 0.75 lbs max  
 Extraction force: 0.44 lbs min  
 Recommended cable size: 28 to 30 Awg.

#### Temperature Rating:

Operating temperature: -55°C to +105°C

#### PACKAGING:

Anti-ESD plastic trays

#### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



### ORDERING INFORMATION



#### SHELL SIZE/ POSITIONS

**DE09** = 9 Position  
**DA15** = 15 Position  
**DB25** = 25 Position  
**DC37** = 37 Position  
**DD50** = 50 Position

#### MOUNTING OPTIONS

**1** = .130" mounting holes  
 flush inserts  
 (Metal Shell only)

#### CONTACT TYPE

**PF** = Plug, IDC  
**SF** = Socket, IDC

#### BODY

**CONSTRUCTION**  
**M** = Metal shell  
**P** = All plastic body

#### STRAIN RELIEF

#### PART NO.:

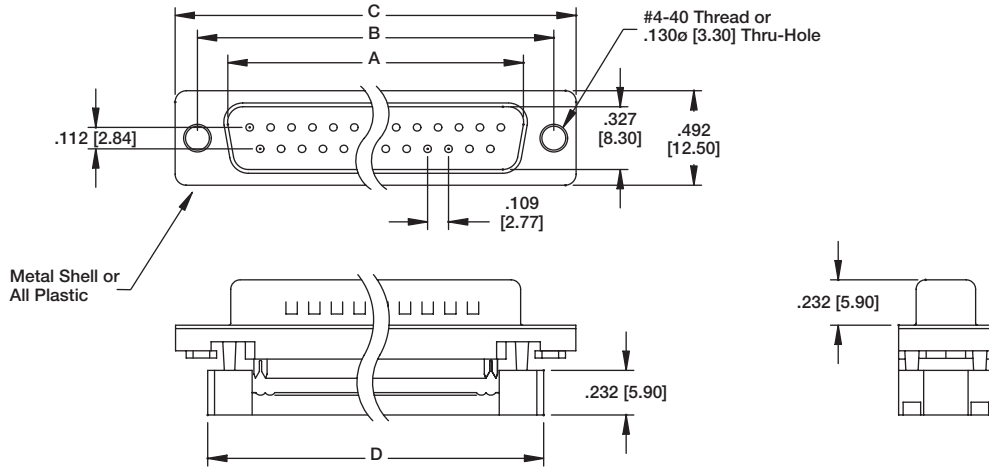
**DSR-09** = 9 Position  
**DSR-15** = 15 Position  
**DSR-25** = 25 Position  
**DSR-37** = 37 Position  
**DSR-50** = 50 Position

#### OPTIONS:

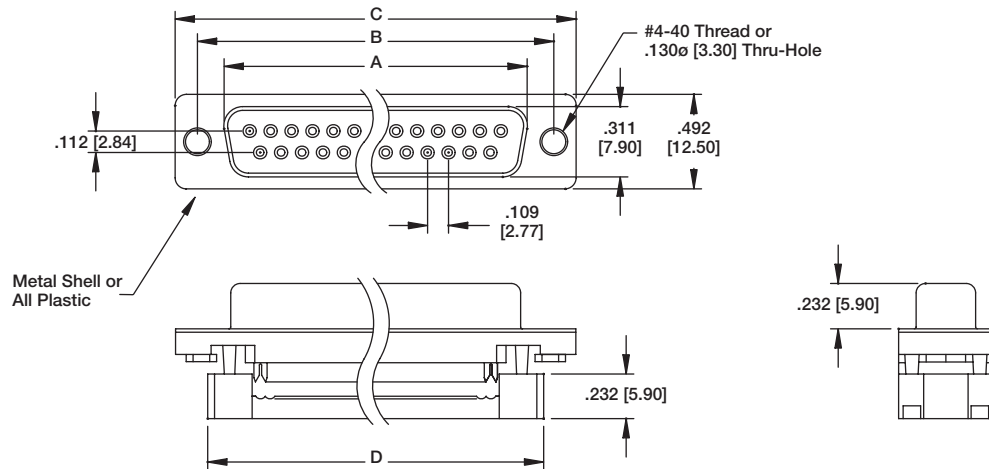
Add designator(s) to end of part number  
**15** = 15 μin. gold in contact area  
**30** = 30 μin. gold in contact area  
**BU** = Blue color insulator



### PLUG



### SOCKET



Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS		
	A	A	B	C	D
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.883 [22.44]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	1.213 [30.81]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.755 [44.57]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	2.414 [61.32]

### INTRODUCTION:

Adam Tech Solder Cup D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25, 37 and 50 positions, they are an excellent choice for a low cost industry standard connection. These connectors are manufactured with precision stamped contacts, and offer a wide selection of mating and mounting options. Adam Tech Solder Cup connectors can be soldered to cable ends or mounted directly to a PCB card edge.

### FEATURES:

- Cable or edge card mounting
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Mating and mounting options

### MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

### SPECIFICATIONS:

#### Material:

Insulator: PBT, 30% glass reinforced, rated UL94V-0  
 Insulator Colors: Black (White optional)  
 Contacts: Phosphor Bronze  
 Shell: Steel, Tin or Zinc plated  
 Hardware: Brass, Nickel plated

#### Contact Plating:

Gold over Nickel underplate on contact area.

#### Electrical:

Operating voltage: 250V AC / DC max.  
 Current rating: 5 Amps max.  
 Contact resistance: 20 mΩ max. initial  
 Insulation resistance: 5000 MΩ min.  
 Dielectric withstanding voltage: 1000V AC for 1 minute

#### Mechanical:

Insertion force: 0.75 lbs max  
 Extraction force: 0.44 lbs min

#### Temperature Rating:

Operating temperature: -55°C to +105°C

#### PACKAGING:

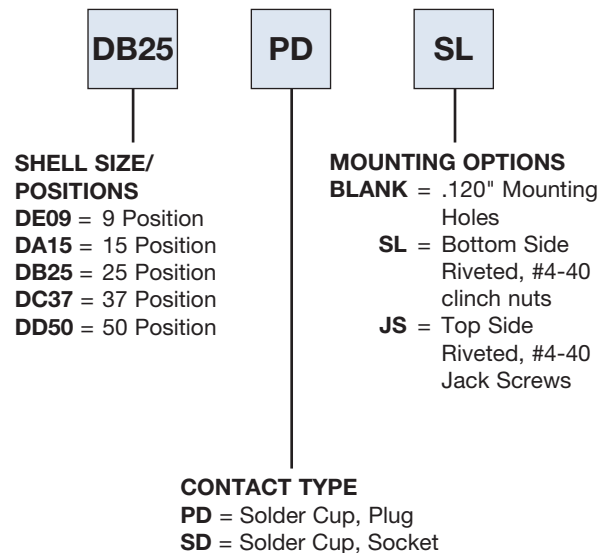
Anti-ESD plastic trays

#### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



### ORDERING INFORMATION

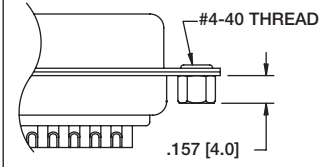


### OPTIONS:

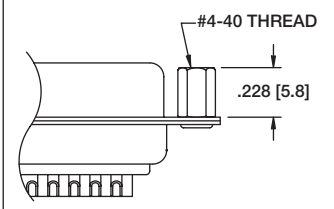
Add designator(s) to end of part number  
**15** = 15 μin gold plating in contact area  
**30** = 30 μin gold plating in contact area  
**WT** = White Color Insulator



### MOUNTING OPTIONS

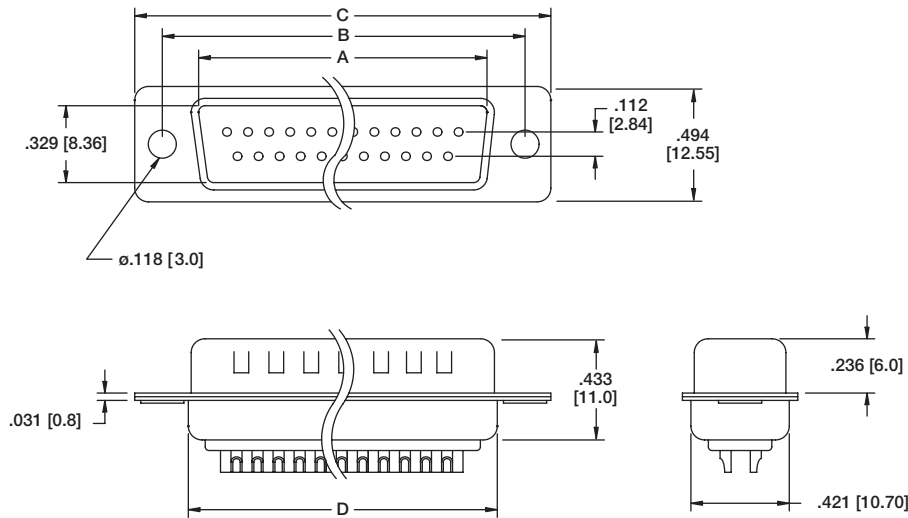


**SL Option**  
Bottom side riveted #4-40  
Clinch Nuts

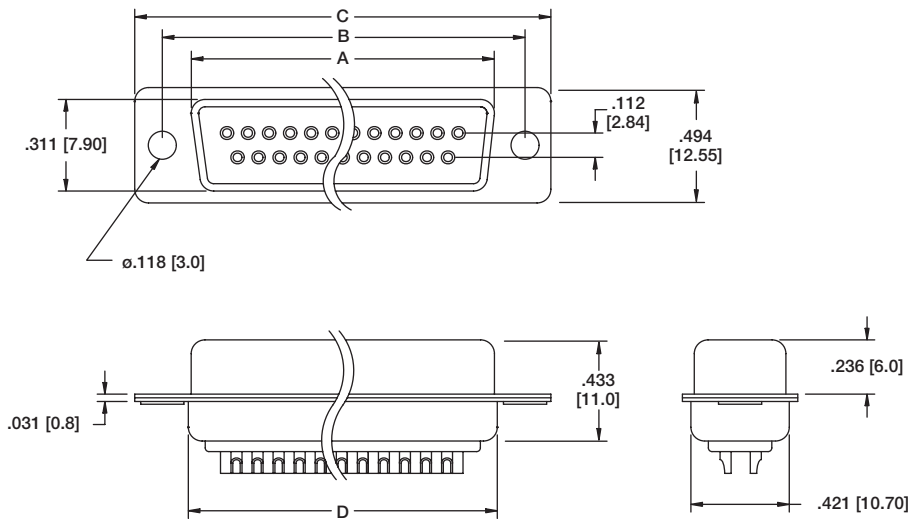


**JS Option**  
Top side riveted #4-40  
Jack Screws

### PLUG



### SOCKET



Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS		
	A	A	B	C	D
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.756 [19.20]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	1.091 [27.70]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.618 [41.10]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	2.256 [57.30]
50	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.637 [67.00]	2.169 [55.10]

### INTRODUCTION:

Adam Tech Crimp and Poke D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25, 37 and 50 positions they are a low cost alternative to soldering a connector to cable. Contacts are crimped onto discrete wires and pushed into the connector body. The connector is comprised of a metal shell and plastic insulator and is available with a variety of mating options. The contacts are precision stamped and are available in a variety of platings.

### FEATURES:

- Low cost no solder alternative
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

### MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

### SPECIFICATIONS:

#### Material:

Insulator: PBT, 30% glass reinforced, rated UL94V-0  
 Insulator Color: Black  
 Contacts: Phosphor Bronze  
 Shell: Steel, Tin or Zinc plated  
 Hardware: Brass, Nickel plated

#### Contact Plating:

Gold over Nickel underplate on contact area.

#### Electrical:

Operating voltage: 250V AC / DC max.  
 Current rating: 5 Amps max.  
 Contact resistance: 20 mΩ max. initial  
 Insulation resistance: 5000 MΩ min.  
 Dielectric withstanding voltage: 1000V AC for 1 minute

#### Mechanical:

Insertion force: 0.75 lbs max  
 Extraction force: 0.44 lbs min

#### Temperature Rating:

Operating temperature: -55°C to +105°C

#### PACKAGING:

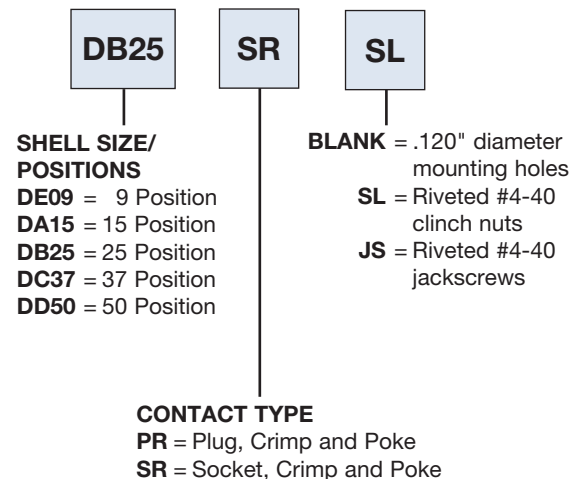
Anti-ESD plastic trays

#### APPROVALS AND CERTIFICATIONS:

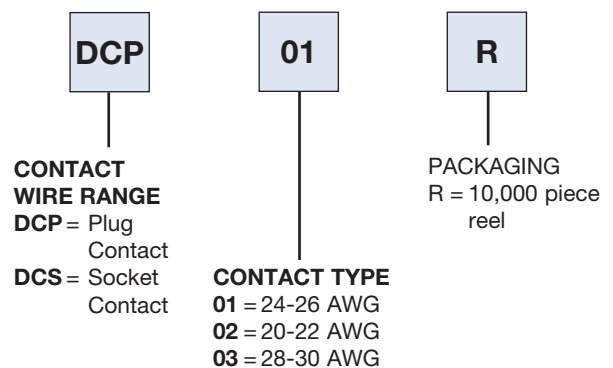
UL Recognized File no. E224053



### ORDERING INFORMATION HOUSING



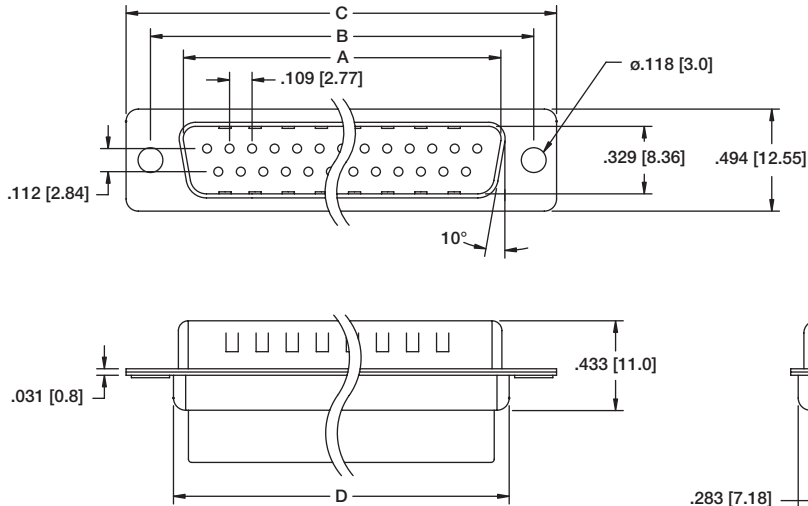
### CONTACTS



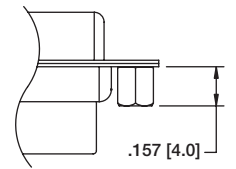
### OPTIONS:

Add designator(s) to end of part number  
**15** = 15 μin gold plating in contact area on crimp contacts  
**30** = 30 μin gold plating in contact area on crimp contacts

## PLUG HOUSING

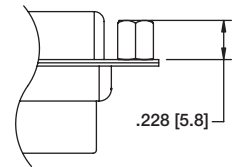
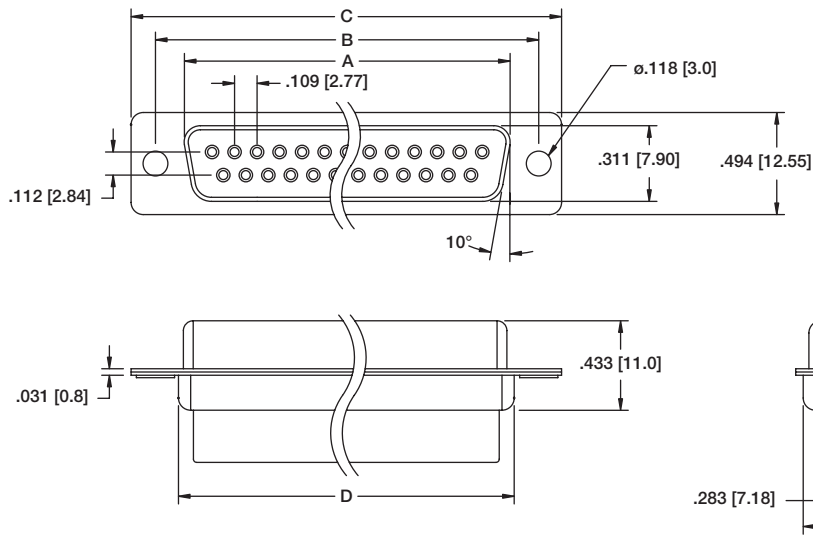


## MOUNTING OPTIONS



**SL Option**  
Bottom side riveted #4-40  
Clinch Nuts

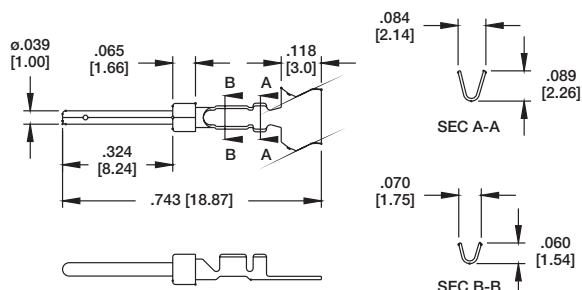
## SOCKET HOUSING



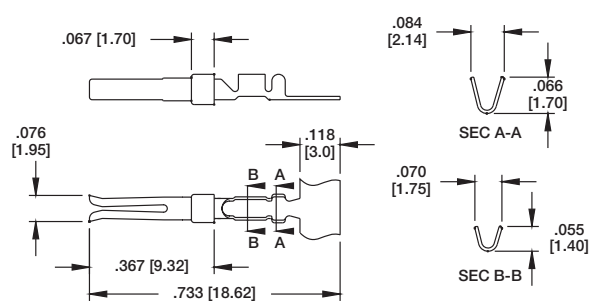
**JS Option**  
Top side riveted #4-40  
Jack Screws

See Dimension table pg. 77

## PLUG CRIMP CONTACTS



## SOCKET CRIMP CONTACTS



### INTRODUCTION:

Adam Tech Flush Mount Straight PCB tail D-Sub connectors are a popular interface for many limited space I/O applications. Offered in 9, 15 and 25 positions they are an excellent choice for a low cost industry standard connection and are ideal for low profile design requirements. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

### FEATURES:

- Low profile space saving design
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

### MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

### SPECIFICATIONS:

#### Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0  
 Optional Hi-Temp insulator: Nylon 6T  
 Insulator Color: Black  
 Contacts: Phosphor Bronze  
 Shell: Steel, Tin or Zinc plated  
 Hardware: Brass, Nickel plated

#### Contact Plating:

Gold over Nickel underplate on contact area.

#### Electrical:

Operating voltage: 250V AC / DC max.  
 Current rating: 5 Amps max.  
 Contact resistance: 20 mΩ max. Initial  
 Insulation resistance: 5000 MΩ min.  
 Dielectric withstanding voltage: 1000V AC for 1 minute

#### Mechanical:

Insertion force: 0.75 lbs max  
 Extraction force: 0.44 lbs min

#### Temperature Rating:

Operating temperature: -55°C to +105°C  
 Soldering process temperature:  
 Standard insulator: 235°C  
 Hi-Temp insulator: 260°C

#### PACKAGING:

Anti-ESD plastic trays

#### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



### ORDERING INFORMATION

**DB25**

**SA**

**M2**

#### SHELL SIZE/ POSITIONS

**DE09** = 9 Position  
**DA15** = 15 Position  
**DB25** = 25 Position  
**DC37** = 37 Position

#### CONTACT TYPE

**PA** = Plug, Flush mount,  
Straight PCB Tail  
**SA** = Socket, Flush Mount,  
Straight PCB Tail

#### MOUNTING OPTIONS

**M1** = Thru Hole Mounting  
**M2** = #4-40 Threaded  
mounting holes  
**M1-R3** = Round Jackscrews  
on top side  
**M2-R-BL** = Round Jackscrews  
on top side with  
Boardlocks  
underneath  
**M2-JS** = #4-40 Threaded  
Holes with removable  
Jackscrews  
**M2-BL** = Riveted #4-40  
Internal Threaded  
Standoffs with  
Boardlocks  
**M2-BL-JS** = Removable  
Jackscrews with  
Boardlocks

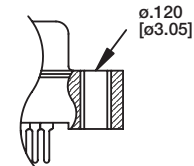
#### OPTIONS:

Add designator[s] to end of part number  
**15** = 15 μin gold plating in contact area  
**30** = 30 μin gold plating in contact area  
**PF** = Press Fit Pins  
**HT** = Hi-Temp insulator for hi-temp soldering  
processes up to 260°C

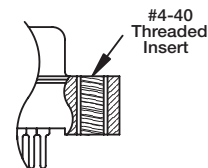


### MOUNTING OPTIONS

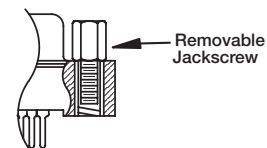
**M1 Option**  
Thru-Hole  
Mounting



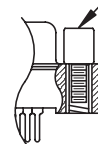
**M2 OPTION**  
Threaded Hole  
Mounting



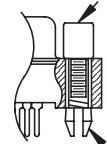
**M2-JS**  
Threaded Hole  
Mounting with  
removable  
Jack Screws



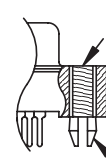
**M1-R3**  
Round  
Jackscrews



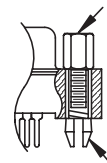
**M2-R-BL**  
Round Jackscrews  
with Boardlock



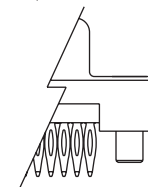
**M2-BL**  
#4-40 Threaded  
Insert with Boardlock



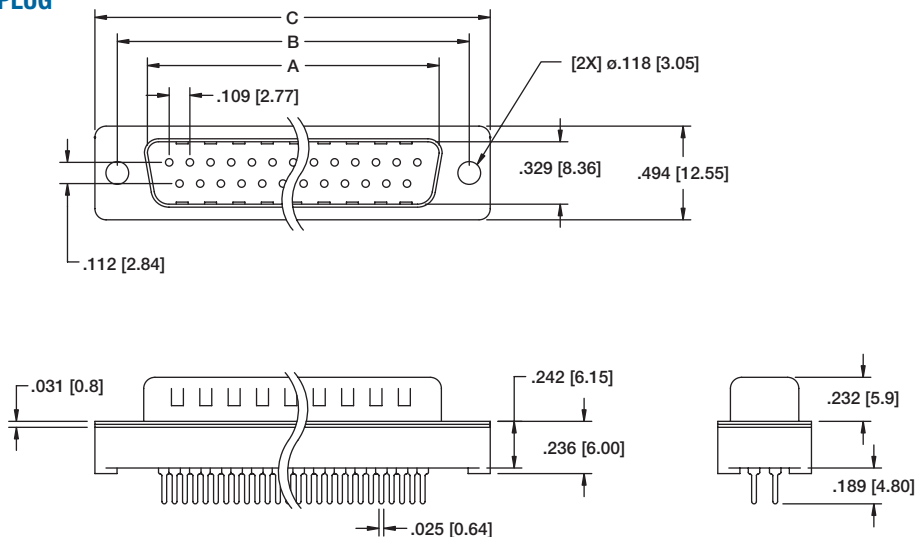
**M2-BL-JS**  
Removable Jackscrew  
with Boardlock



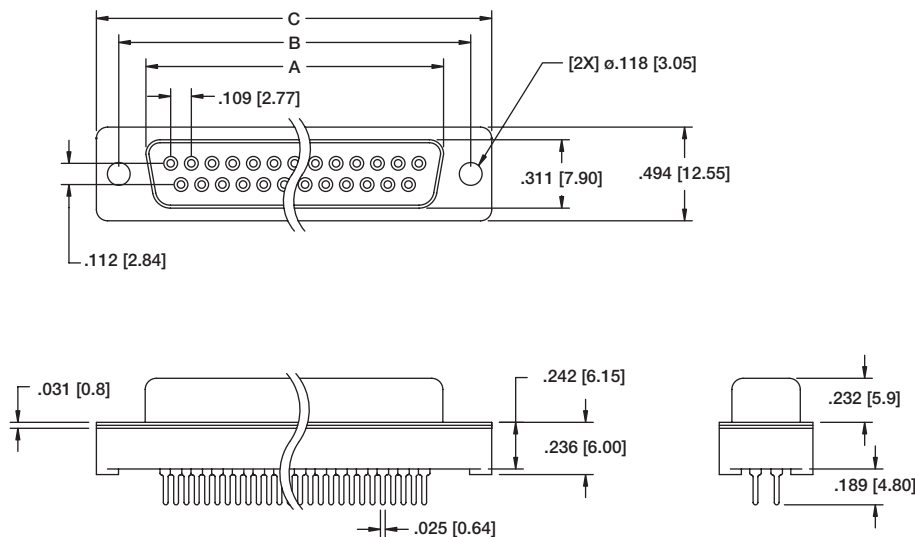
**Press  
Fit PCB Tail  
Option**



### PLUG

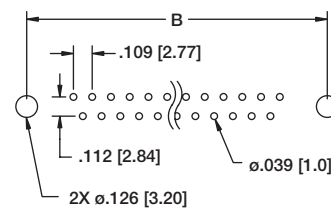


### SOCKET



Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS	
	A	A	B	C
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]



**Recommended PCB Layout**

#### INTRODUCTION:

Adam Tech Straight PCB tail D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25, 37 and 50 positions they are an excellent choice for a low cost, sturdy, full metal body industry standard connection. These connectors are manufactured with precision stamped or machined turned contacts offering a choice of contact plating and a wide selection of mating and mounting options.

#### FEATURES:

Industry standard compatibility  
Durable metal shell design  
Precision formed contacts  
Variety of Mating and mounting options

#### MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

#### SPECIFICATIONS:

##### Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0  
Optional Hi-Temp insulator: Nylon 6T  
Insulator Colors: Black (White optional)  
Contacts: Phosphor Bronze  
Shell: Steel, Tin or Zinc plated  
Hardware: Brass, Nickel plated

##### Contact Plating:

Gold over Nickel underplate on contact area.

##### Electrical:

Operating voltage: 250V AC / DC max.  
Current rating: 5 Amps max.  
Contact resistance: 20 mΩ max. initial  
Insulation resistance: 5000 MΩ min.  
Dielectric withstanding voltage: 1000V AC for 1 minute

##### Mechanical:

Insertion force: 0.75 lbs max  
Extraction force: 0.44 lbs min

##### Temperature Rating:

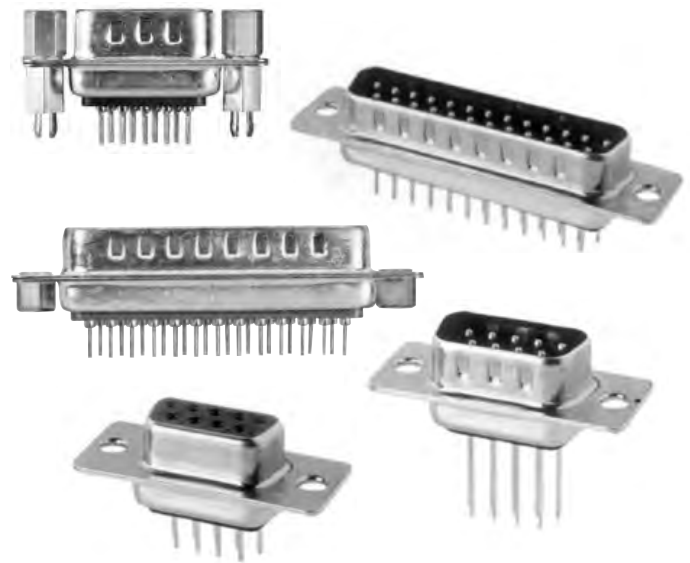
Operating temperature: -55°C to +105°C  
Soldering process temperature:  
Standard insulator: 235°C  
Hi-Temp insulator: 260°C

##### PACKAGING:

Anti-ESD plastic trays

##### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



#### ORDERING INFORMATION

**DB25**

**ST**

**1**

**SL**

##### SHELL SIZE/ POSITIONS

**DE09** = 9 Position  
**DA15** = 15 Position  
**DB25** = 25 Position  
**DC37** = 37 Position  
**DD50** = 50 Position

##### CONTACT TYPE

**PT** = Plug, Straight PCB Tail, Standard Profile  
**ST** = Socket, Straight PCB Tail, Standard Profile  
**PE** = Plug, Straight PCB Tail, High Profile  
**SE** = Socket, Straight PCB Tail, High Profile

##### TAIL LENGTH

**1** = Standard tail length for .062"-.125" PCB's  
(E = .189")  
**2** = Wire wrap tail  
(E = .512")

##### MOUNTING OPTIONS

**BLANK** = .120" Mounting Holes  
**SL** = Bottom side riveted #4-40 Clinch Nuts  
**JS** = Top side riveted #4-40 Jackscrews  
**BL** = Riveted #4-40 Internal Threaded Standoffs with Boardlocks  
**R** = Riveted Round Jack Screws  
**JSL** = Bottom side riveted #4-40 Clinch Nuts with Jack Screws installed

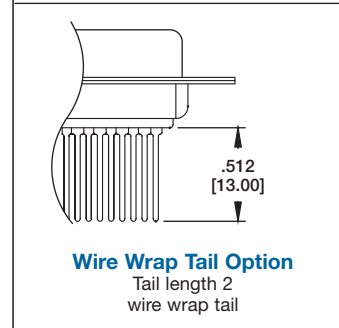
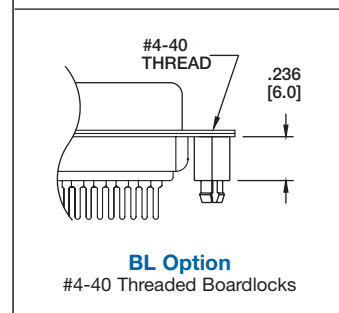
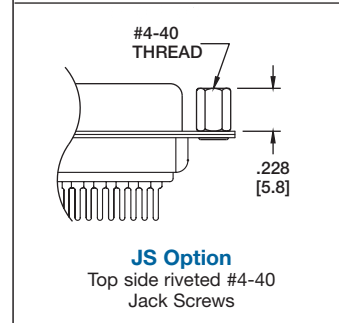
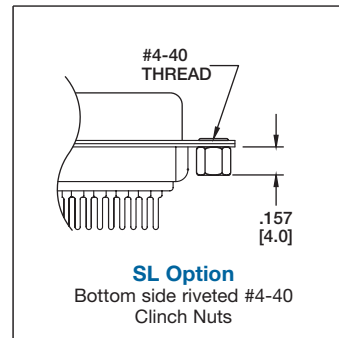
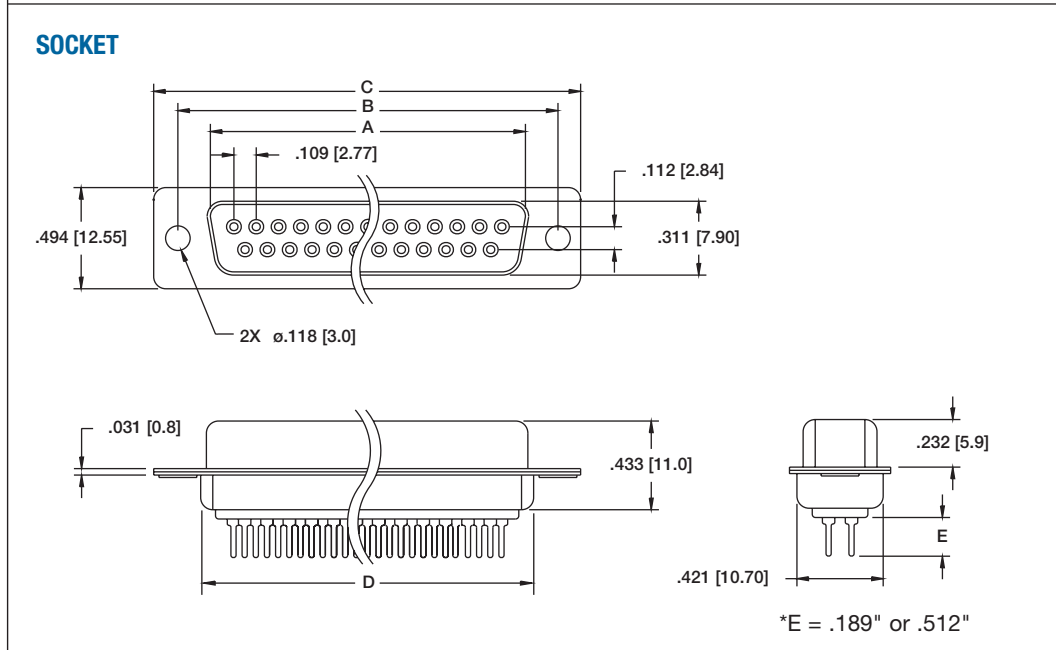
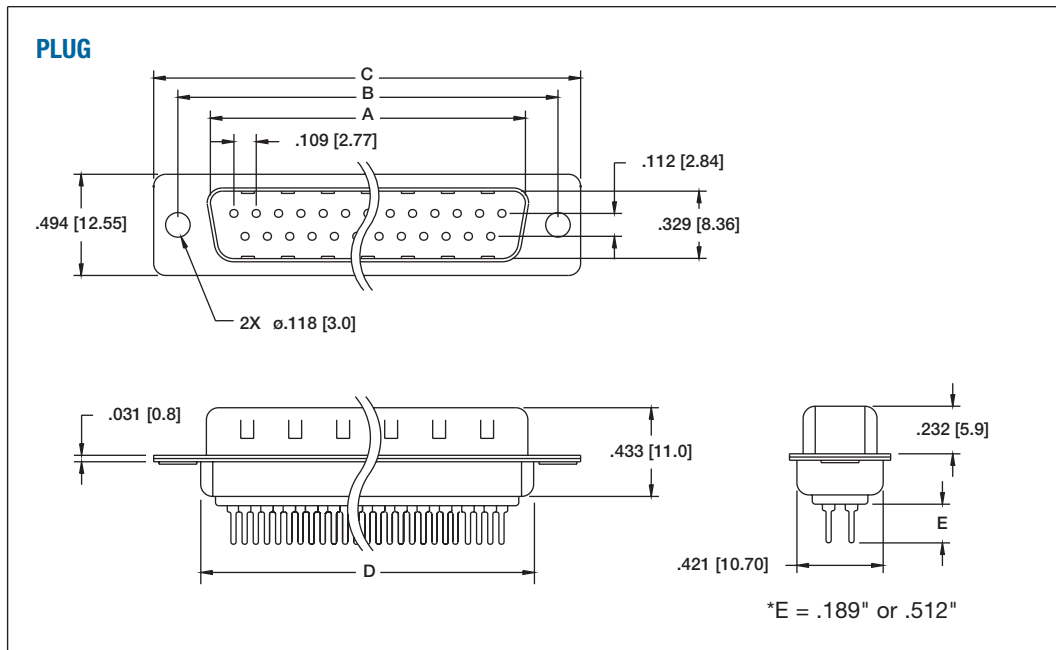
##### OPTIONS:

Add designator(s) to end of part number  
**EMI** = Ferrite filtered version for EMI / RFI suppression (Page 114)

**HT** = Hi-Temp insulator for hi-temp soldering processes up to 260°C

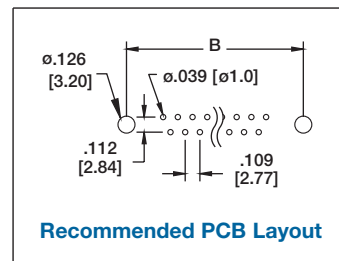


### MOUNTING OPTIONS



Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS		
	A	A	B	C	D
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.756 [19.20]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	1.091 [27.70]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.618 [41.10]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	2.256 [57.30]
50	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.637 [67.00]	2.169 [55.10]



### MOUNTING OPTIONS

**PLUG**

**DB25-PE-1**

**SL Option**  
Bottom side riveted #4-40  
Clinch Nuts

**JS Option**  
Top side riveted #4-40  
Jack Screws

**BL OPTION**  
#4-40 Threaded Boardlocks

**SOCKET**

**DB25-SE-1**

**Recommended PCB Layout**

Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS		
	A	A	B	C	D
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.756 [19.20]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	1.091 [27.70]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.618 [41.10]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	2.256 [57.30]
50	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.637 [67.00]	2.169 [55.10]

### INTRODUCTION:

Adam Tech Dual Port D-Sub connectors are a popular space saving interface for many I/O applications. Offered in 9, 15, 25, 37 and 50 positions they are a good choice for a low cost industry standard connection and are ideal for PCB space saving applications. These connectors are manufactured with precision stamped contacts and are available in a number of connector combinations including same and mixed gender, mixed density and mixed interface. Options include a choice of contact plating and a variety of mating, mounting and grounding options.

### FEATURES:

- Stacked space saving design
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

### MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

### SPECIFICATIONS:

#### Material:

Insulator: PBT, 30% glass reinforced, rated UL94V-0  
 Insulator Color: Black  
 Contacts: Phosphor Bronze  
 Shell: Steel, Tin or Zinc plated  
 Hardware: Brass, Nickel plated

#### Contact Plating:

Gold over Nickel underplate on contact area.

#### Electrical:

Operating voltage: 250V AC / DC max.  
 Current rating: 5 Amps max.  
 Contact resistance: 20 mΩ max. initial  
 Insulation resistance: 5000 MΩ min.  
 Dielectric withstanding voltage: 1000V AC for 1 minute

#### Mechanical:

Insertion force: 0.75 lbs max  
 Extraction force: 0.44 lbs min

#### Temperature Rating:

Operating temperature: -55°C to +105°C

### PACKAGING:

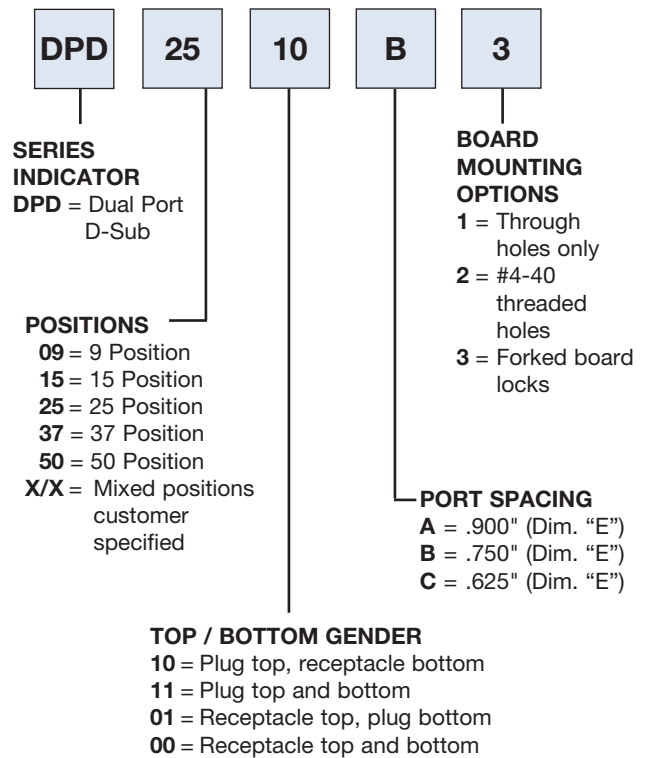
Anti-ESD plastic trays

### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



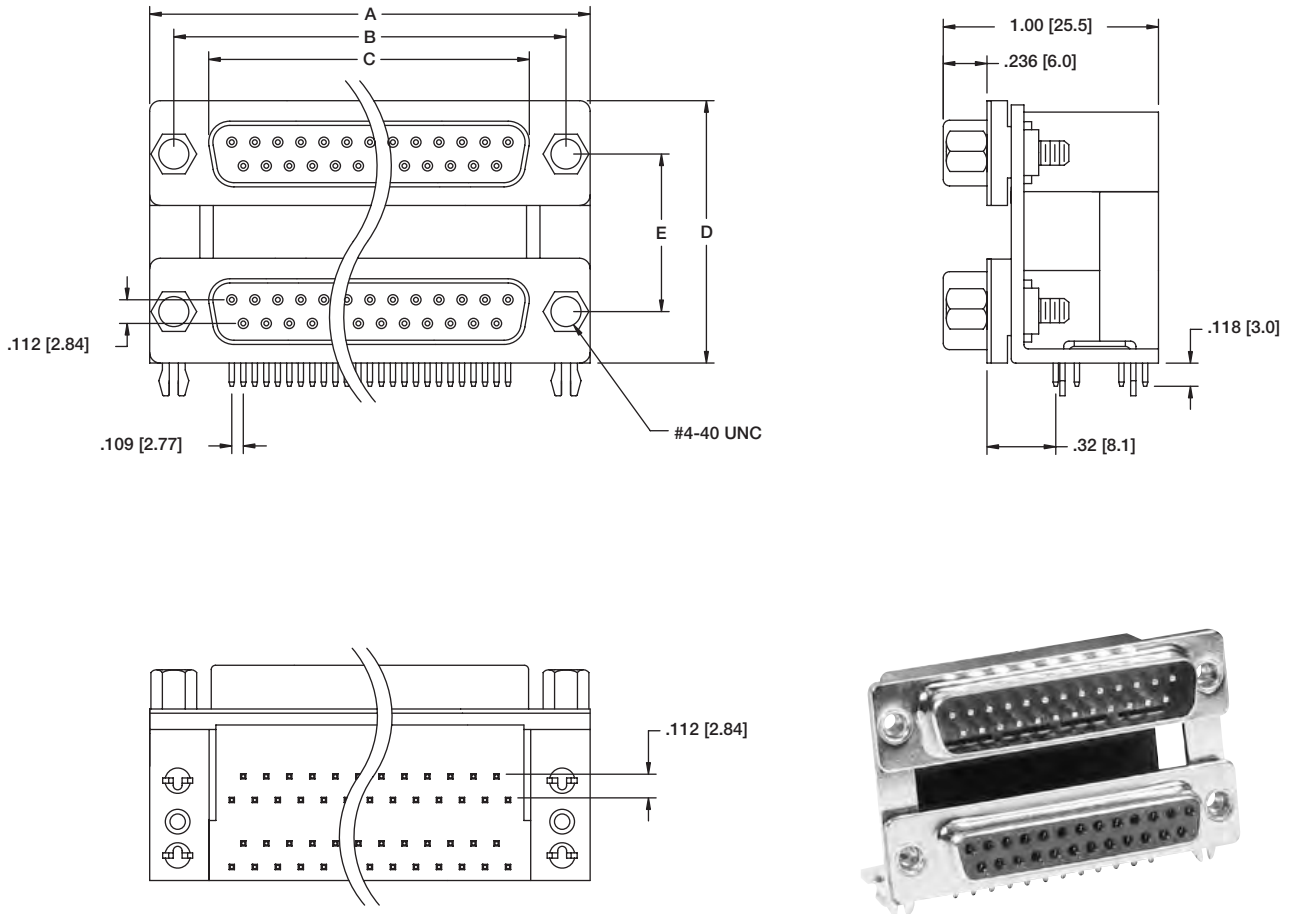
### ORDERING INFORMATION



### OPTIONS:

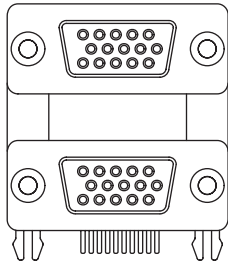
Add designator(s) to end of part number  
 15 = 15 μin gold plating in contact area  
 30 = 30 μin gold plating in contact area  
 JS = #4-40 Jackscrews installed  
 R = Rear boardlocks only

### DUAL PORT, RIGHT ANGLE

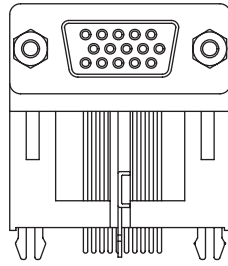


Unit: Inch [mm]

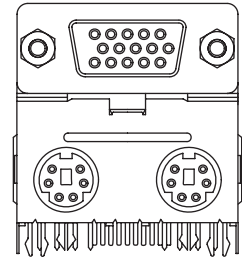
Positions	PLUG	SOCKET	DIMENSIONS			
	A	A	B	C	D	E
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	PORT HEIGHTS 1.119 [28.42] 1.244 [31.60] 1.394 [35.41]	PORT TO PORT CENTERLINE .900 [22.86] .750 [19.05] .625 [15.88]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]		
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]		
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]		
50	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.637 [67.00]		



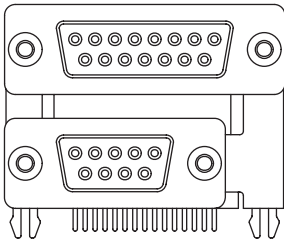
15P HD D-Sub over 15P HD D-Sub



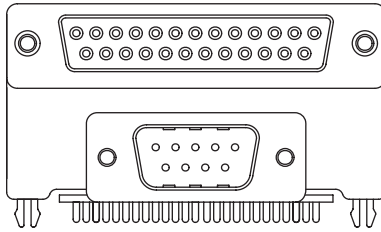
15P HD D-Sub Elevated



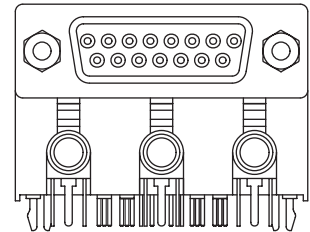
15P HD D-Sub over Dual Mini DINs



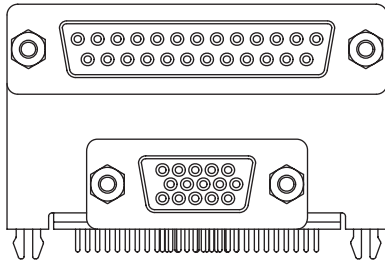
15P D-Sub over 9P D-Sub



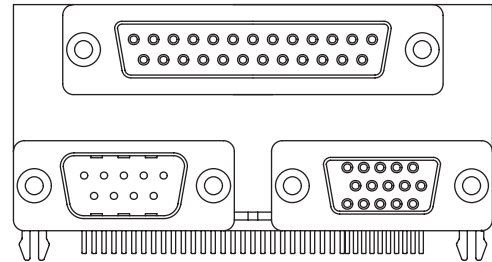
25P D-Sub over 9P D-Sub



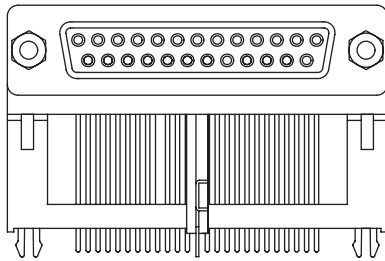
15P D-Sub over Ganged Stereo Jacks



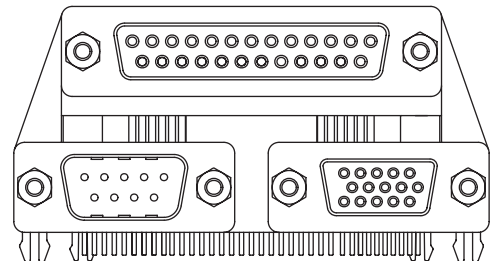
25P D-Sub over HD 15P D-Sub



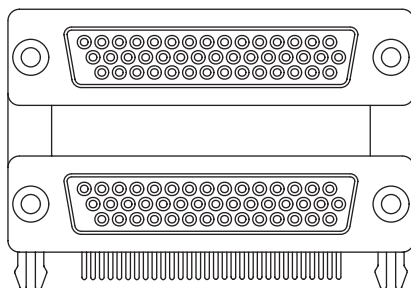
25P D-Sub over 9P D-Sub & HD 15P D-Sub



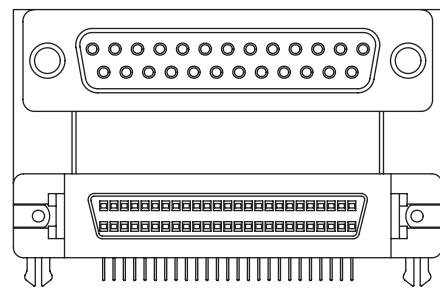
25P D-Sub Elevated



25P D-Sub over 9P D-Sub & HD 15P D-Sub



44P HD D-Sub over 44P HD D-Sub



25P D-Sub over 50P SCSI II



#### INTRODUCTION:

Adam Tech Solder Cup High Density D-Sub connectors are a popular interface for many I/O applications. Offered in 15, 26, 44, 62 and 78 positions, they are a good choice for a low cost industry standard high density connection. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

#### FEATURES:

- High Density pin count in standard size shell
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Mating and mounting options

#### MATING CONNECTORS:

Adam Tech high density D-Subminiatures and all industry standard high density D-Subminiature connectors.

#### SPECIFICATIONS:

##### Material:

- Insulator: PBT, 30% glass reinforced, rated UL94V-0
- Insulator Colors: Black (White optional)
- Contacts: Phosphor Bronze
- Shell: Steel, Tin or Zinc plated
- Hardware: Brass, Nickel plated

##### Contact Plating:

Gold over Nickel underplate on contact area.

##### Electrical:

- Operating voltage: 250V AC / DC max.
- Current rating: 5 Amps max.
- Contact resistance: 20 mΩ max. initial
- Insulation resistance: 5000 MΩ min.
- Dielectric withstanding voltage: 1000V AC for 1 minute

##### Mechanical:

- Insertion force: 0.75 lbs max
- Extraction force: 0.44 lbs min

##### Temperature Rating:

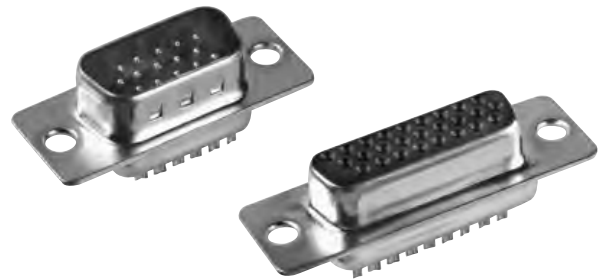
Operating temperature: -55°C to +105°C

##### PACKAGING:

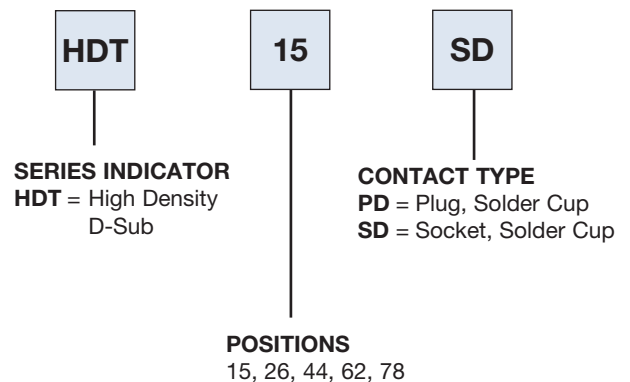
Anti-ESD plastic trays

##### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



#### ORDERING INFORMATION



#### OPTIONS:

Add designator(s) to end of part number

**15** = 15 μin gold plating in contact area

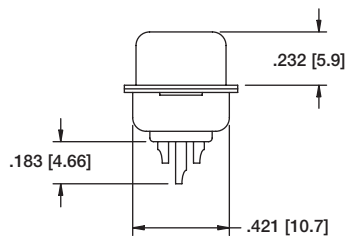
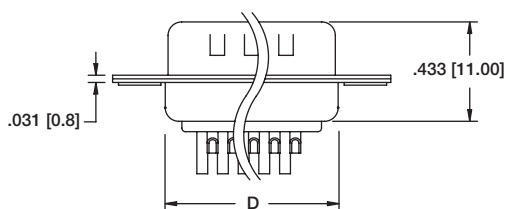
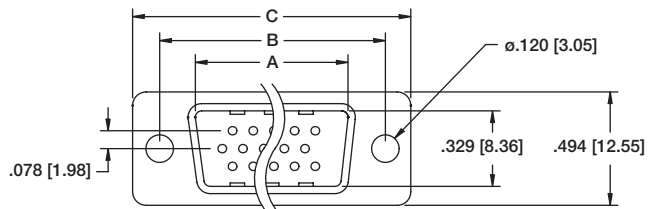
**30** = 30 μin gold plating in contact area

**WT** = White color insulator

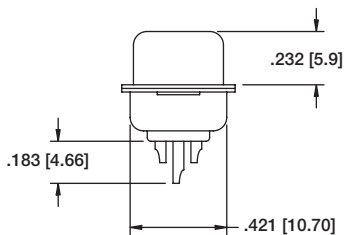
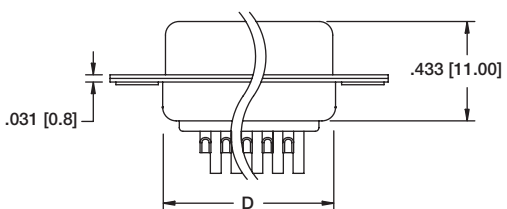
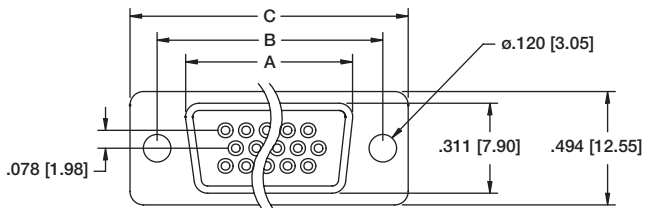
**SL** = Bottom side Riveted #4-40 Clinch Nuts

**JS** = Top side riveted #4-40 Jack Screws

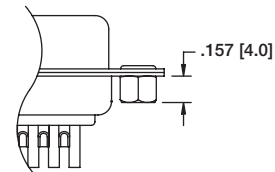
### PLUG



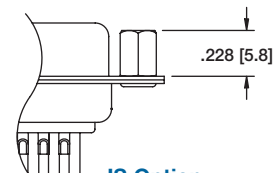
### SOCKET



### MOUNTING OPTIONS



**SL Option**  
Bottom side riveted #4-40  
Clinch Nuts



**JS Option**  
Top side riveted #4-40  
Jack Screws

Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS		
	A	A	B	C	D
15	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.759 [19.28]
26	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	1.083 [27.51]
44	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.626 [41.30]
62	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	2.271 [57.70]
78	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.635 [66.93]	2.099 [55.32]

#### INTRODUCTION:

Adam Tech Straight PCB tail High Density D-Sub connectors are a popular interface for many I/O applications. Offered in 15, 26, 44, 62 and 78 positions they are a good choice for a low cost industry standard high density connection. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

#### FEATURES:

- High Density pin count in standard size shell
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

#### MATING CONNECTORS:

Adam Tech high density D-Subminiatures and all industry standard high density D-Subminiature connectors.

#### SPECIFICATIONS:

##### Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0  
Optional Hi-Temp insulator: Nylon 6T rated UL94V-0  
Insulator Colors: Black (White optional)  
Contacts: Phosphor Bronze  
Shell: Steel, Tin or Zinc plated  
Hardware: Brass, Nickel plated

##### Contact Plating:

Gold over Nickel underplate on contact area.

##### Electrical:

Operating voltage: 250V AC / DC max.  
Current rating: 5 Amps max.  
Contact resistance: 20 mΩ max. initial  
Insulation resistance: 5000 MΩ min.  
Dielectric withstanding voltage: 1000V AC for 1 minute

##### Mechanical:

Insertion force: 0.75 lbs max  
Extraction force: 0.44 lbs min

##### Temperature Rating:

Operating temperature: -55°C to +105°C  
Soldering process temperature:  
Standard insulator: 235°C  
Hi-Temp insulator: 260°C

##### PACKAGING:

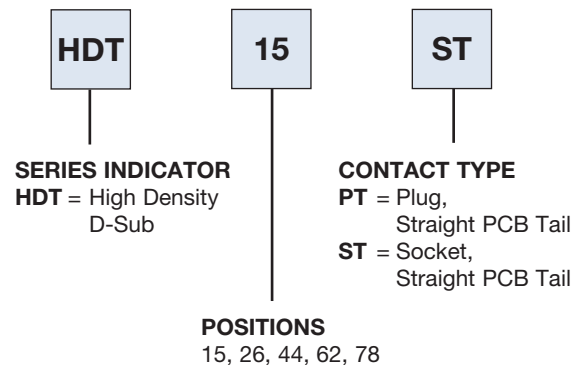
Anti-ESD plastic trays

##### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

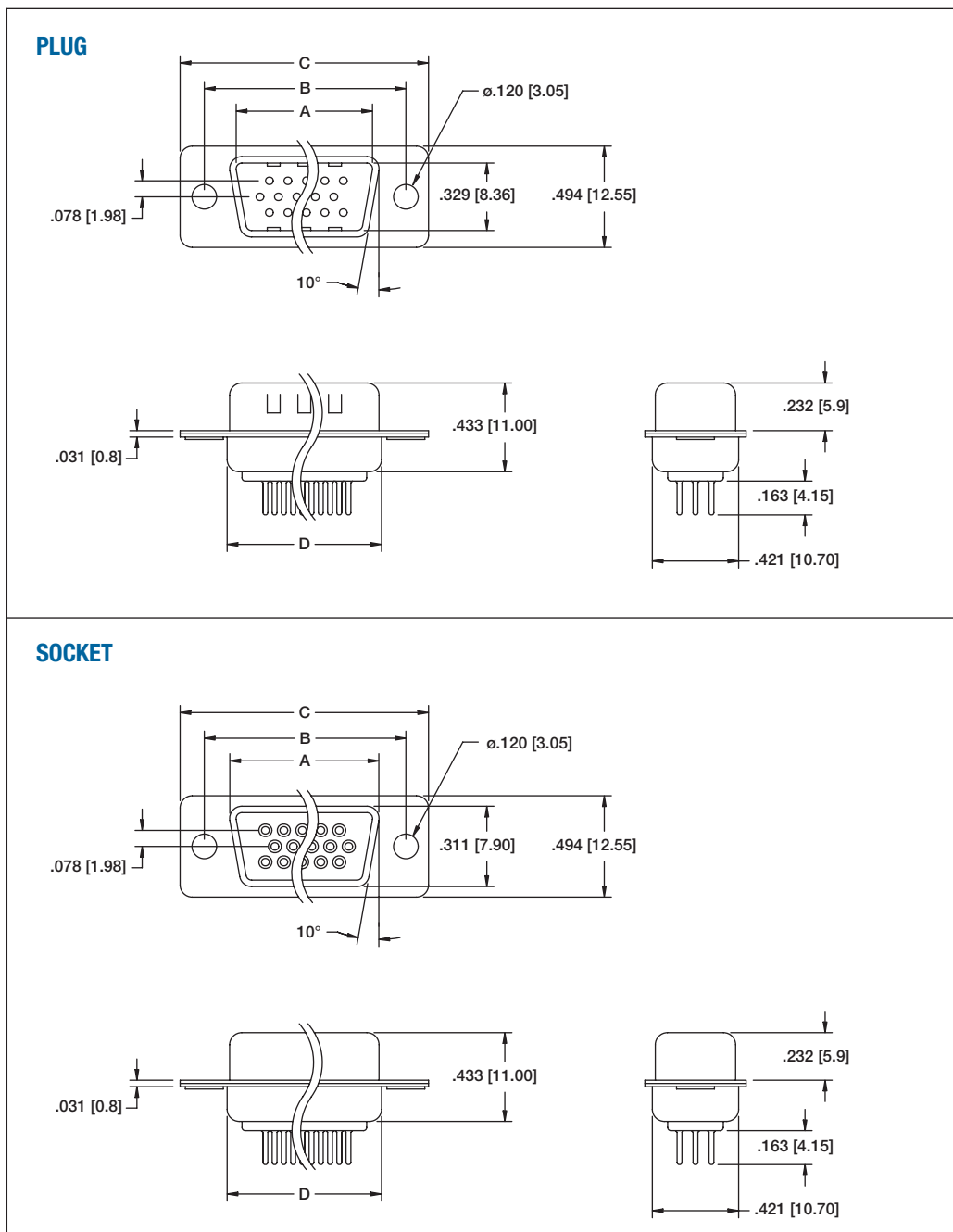


#### ORDERING INFORMATION

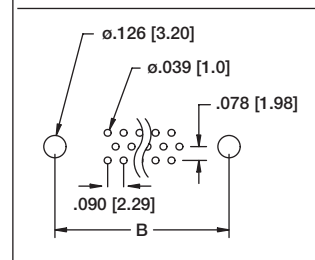
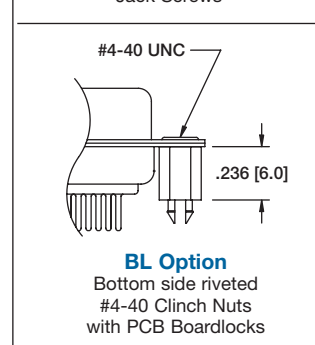
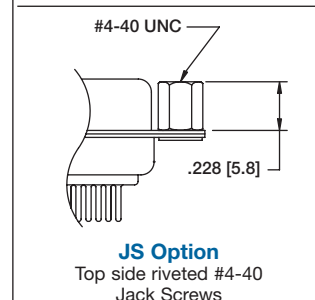
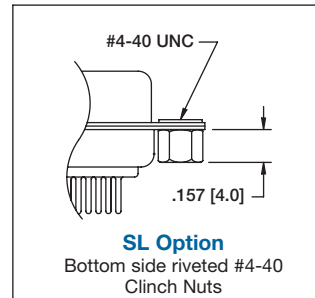


#### OPTIONS:

Add designator(s) to end of part number  
**WT** = White color insulator  
**HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C  
**SL** = Riveted #4-40 Clinch Nuts  
**JS** = Riveted #4-40 Jackscrews  
**BL** = Riveted #4-40 Internal Threaded Standoffs with Boardlocks  
**EMI** = Ferrite filtered version for EMI / RFI suppression (Page 98)



### MOUNTING OPTIONS



**Recommended PCB Layout**

Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS		
	A	A	B	C	D
15	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.759 [19.28]
26	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	1.083 [27.51]
44	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.626 [41.30]
62	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	2.271 [57.70]
78	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.635 [66.93]	2.099 [55.32]

#### INTRODUCTION:

Adam Tech right angle PCB mount High Density D-Sub connectors are a popular interface for many I/O applications. Offered in 15, 26, 44, 62 and 78 positions they are a good choice for a low cost industry standard high density connection. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

#### FEATURES:

- High Density in standard size shell
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

#### MATING CONNECTORS:

Adam Tech high density D-Subminiatures and all industry standard high density D-Subminiature connectors.

#### SPECIFICATIONS:

##### Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0

Optional Hi-Temp insulator: Nylon 6T rated UL94V-0

Insulator Colors: HDL Series: Black

HDVG Series: Blue

Contacts: Phosphor Bronze

Shell: Steel, Tin or Zinc plated

Hardware: Brass, Nickel plated

##### Contact Plating:

Gold over Nickel underplate on contact area.

##### Electrical:

Operating voltage: 250V AC / DC max.

Current rating: 5 Amps max.

Contact resistance: 20 mΩ max initial

Insulation resistance: 5000 MΩ min.

Dielectric withstanding voltage: 1000V AC for 1 minute

##### Mechanical:

Insertion force: 0.75 lbs max

Extraction force: 0.44 lbs min

##### Temperature Rating:

Operating temperature: -55°C to +105°C

Soldering process temperature:

Standard insulator: 235°C

Hi-Temp insulator: 260°C

##### PACKAGING:

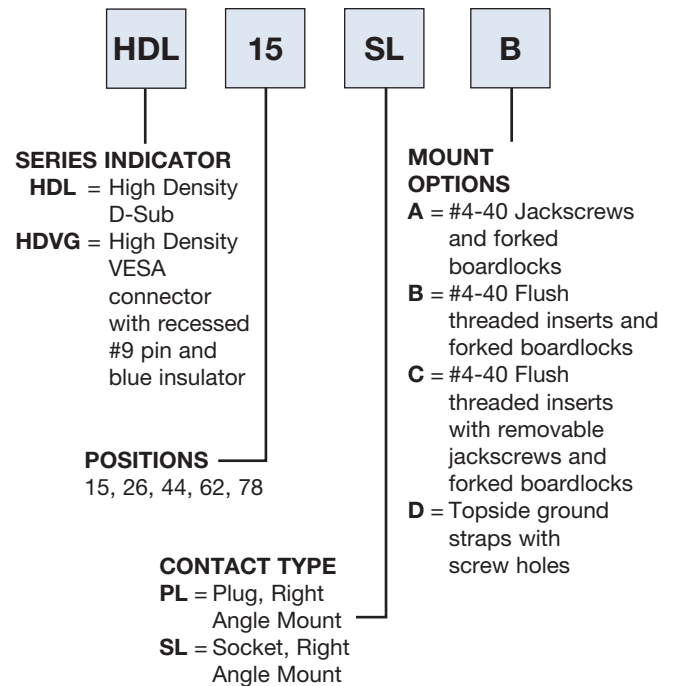
Anti-ESD plastic trays

##### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



#### ORDERING INFORMATION



#### OPTIONS:

Add designator(s) to end of part number

**15** = 15 μin gold plating in contact area

**30** = 30 μin gold plating in contact area

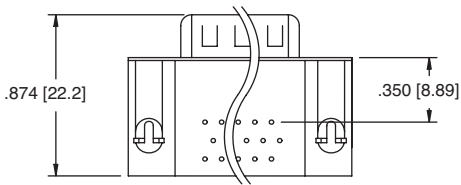
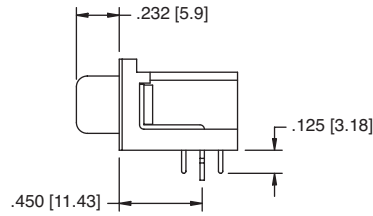
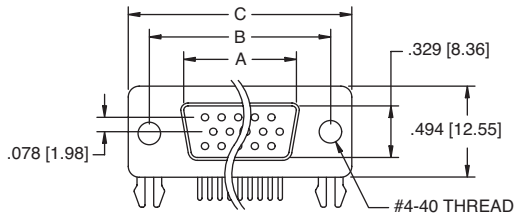
**EMI** = Ferrite filtered version for EMI / RFI suppression (Page 98)

**F** = Retention 4 prong boardlocks

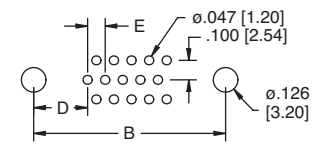
**HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

**R** = Round Riveted Jackscrews

#### PLUG

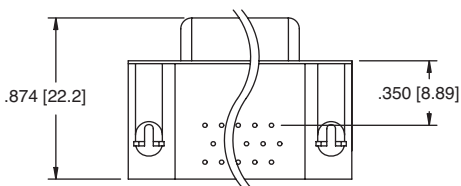
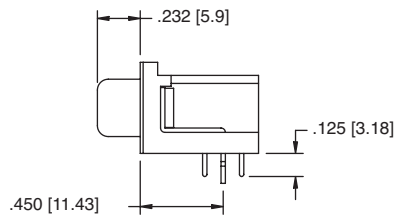
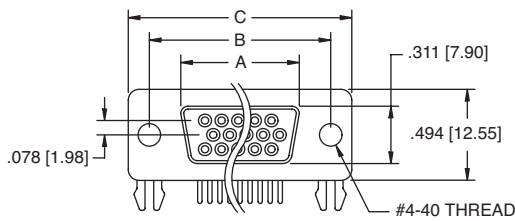


**HDL15-PL-B**

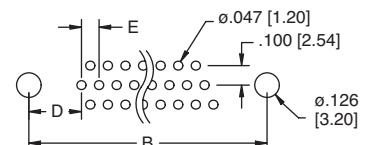


**15 Position PCB Layout**

#### SOCKET

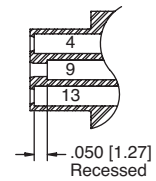


**HDL15-SL-B**



**26, 44, 62 Position PCB Layout**

#### Hi Density Video Graphics Connector



**HDVG-15-SL-B**

Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS			
	A	A	B	C	D	E
15	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.277 [7.04]	.090 [2.29]
26	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	.277 [7.04]	.090 [2.29]
44	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	.277 [7.04]	.090 [2.29]
62	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	.276 [7.00]	.095 [2.41]
78	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.635 [66.93]	.300 [7.63]	.095 [2.41]

#### INTRODUCTION:

Adam Tech Crimp and Poke High Density D-Sub connectors are a popular interface for many I/O applications. Offered in 15, 26, 44, 62 and 78 positions they are a low cost alternative to soldering a high density connector to cable. Contacts are crimped onto discrete wires and pushed into the connector body. The connector is comprised of a metal shell and plastic insulator and is available with a variety of mating options. The contacts are precision stamped and are available in a variety of platings.

#### FEATURES:

- High Density in standard size shell
- Low cost no solder alternative
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

#### MATING CONNECTORS:

Adam Tech high density D-Subminiatures and all industry standard high density D-Subminiature connectors.

#### SPECIFICATIONS:

##### Material:

- Insulator: PBT, 30% glass reinforced, rated UL94V-0
- Insulator Colors: Black (White optional)
- Contacts: Phosphor Bronze
- Shell: Steel, Tin or Zinc plated
- Hardware: Brass, Nickel plated

##### Contact Plating:

Gold over Nickel underplate on contact area.

##### Electrical:

- Operating voltage: 250V AC / DC max.
- Current rating: 5 Amps max.
- Contact resistance: 20 mΩ max. initial
- Insulation resistance: 5000 MΩ min.
- Dielectric withstanding voltage: 1000V AC for 1 minute

##### Mechanical:

- Insertion force: 0.75 lbs max
- Extraction force: 0.44 lbs min
- Recommended wire size: 22 to 28 Awg
- Temperature Rating:
- Operating temperature: -55°C to +105°C

##### PACKAGING:

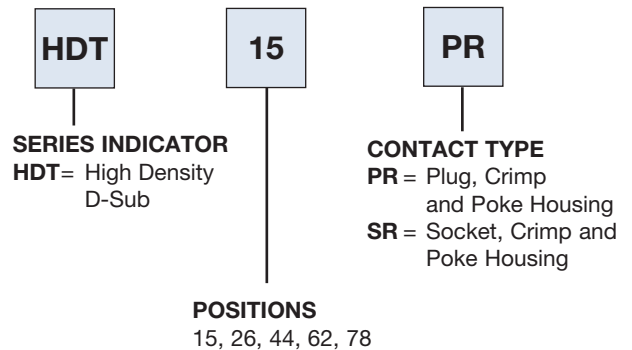
Anti-ESD plastic trays

##### APPROVALS AND CERTIFICATIONS:

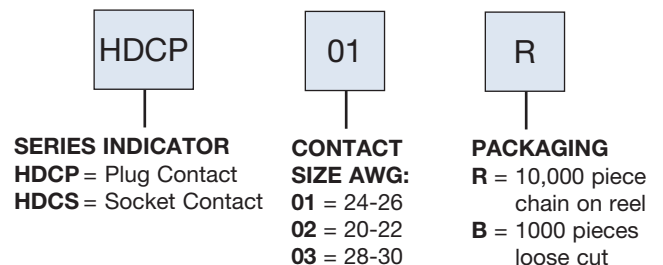
UL Recognized File no. E224053



#### ORDERING INFORMATION HOUSING



#### CRIMP CONTACT

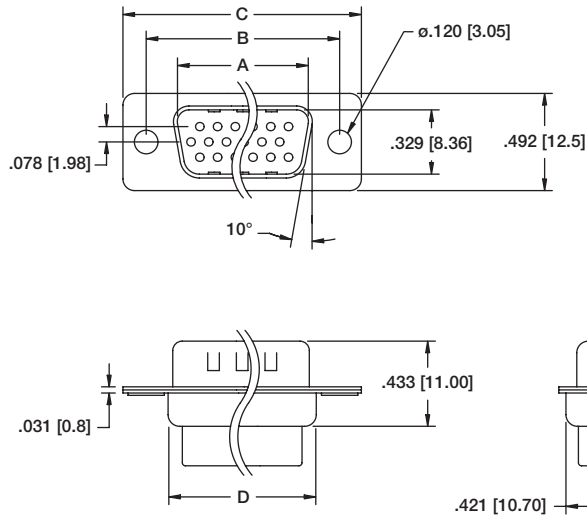


#### OPTIONS:

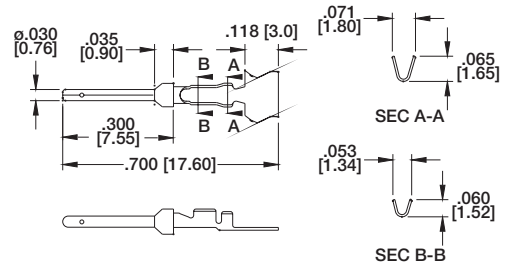
- Add designator(s) to end of part number
- 15 = 15 μin gold plating in contact area
- 30 = 30 μin gold plating in contact area
- WT = White color insulator.
- SL = Riveted #4-40 Clinch Nuts
- JS = Riveted #4-40 Jackscrews



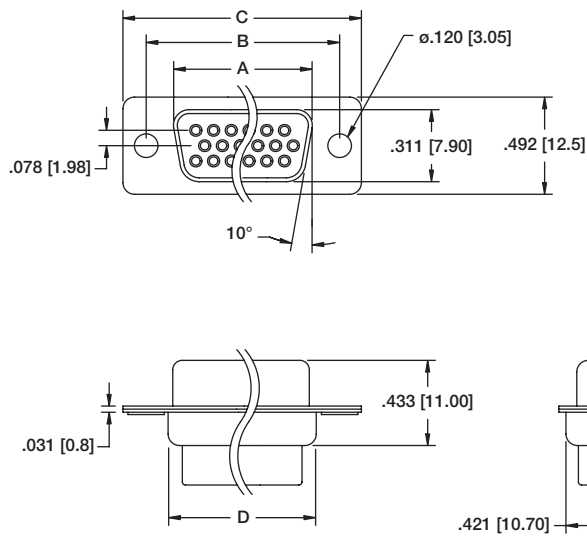
### PLUG



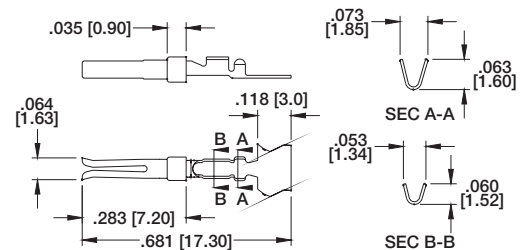
### Plug Contact



### SOCKET

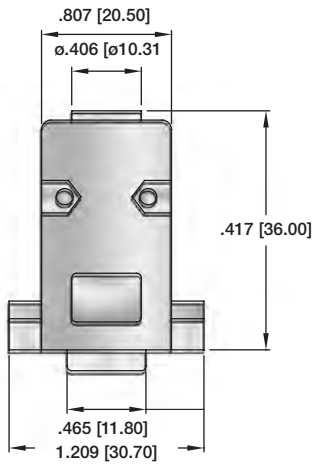


### Socket Contact

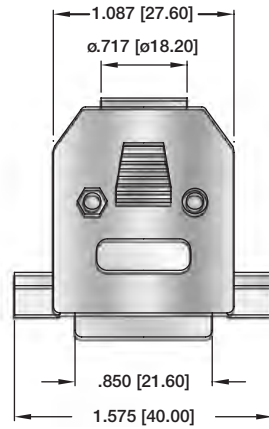


Unit: Inch [mm]

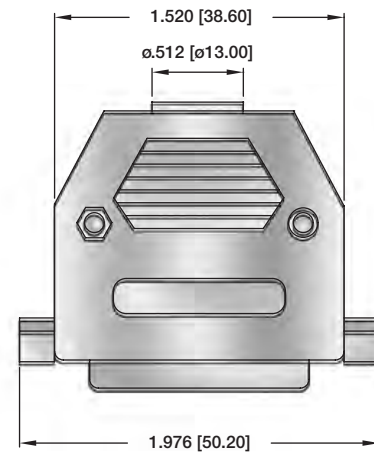
Positions	PLUG	SOCKET	DIMENSIONS		
	A	A	B	C	D
15	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.759 [19.28]
26	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	1.083 [27.51]
44	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.626 [41.30]
62	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	2.271 [57.70]
78	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.635 [66.93]	2.099 [55.32]



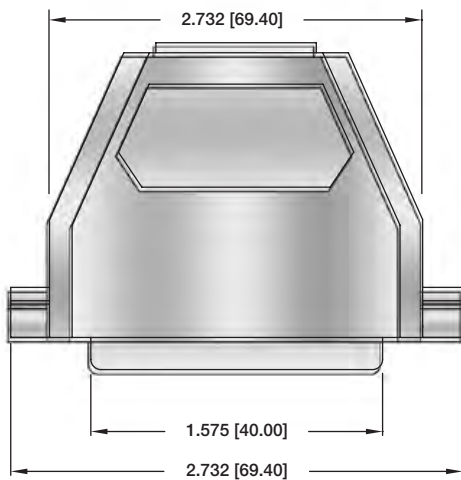
**DE09-HD-PN-(SS OR TS)**



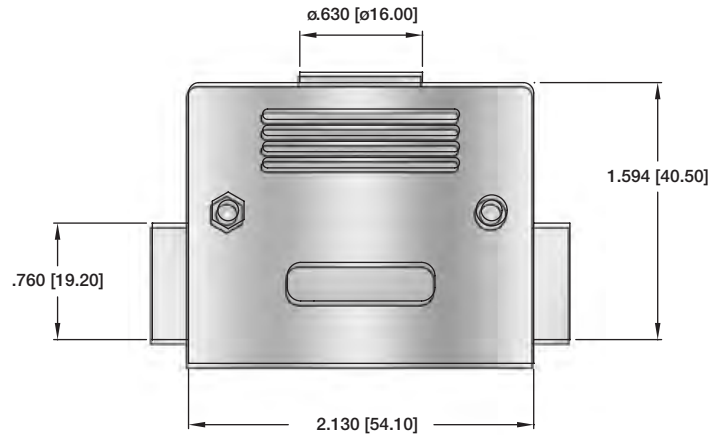
**DA15-HD-PN-(SS OR TS)**



**DB25-HD-PN-(SS OR TS)**



**DC37-HD-PN-(SS OR TS)**

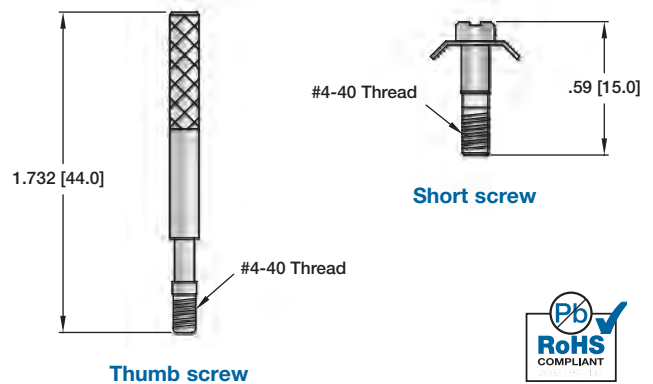


**DD50-HD-PN-(SS OR TS)**

#### ORDERING INFORMATION

choose one from each category as shown in sample below

DE09-HD	PY	TS
Hood Size	Hood Color	Hardware
DE09-HD - 9P Hood	PY - Gray Plastic	SS - Short Screw
DA15-HD - 15P Hood	PB - Black Plastic	TS - Thumb Screw
DB25-HD - 25P Hood	PN - Bright Chrome Plated Plastic	
DC37-HD - 37P Hood	AL - Aluminum Cast	
DD50-HD - 50P Hood		

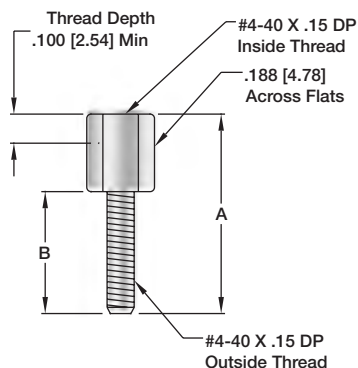


**Thumb screw**

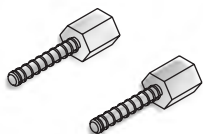
**Short screw**



### Jackscrews

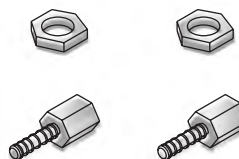


JACKSCREW DIMENSIONS		
PART NUMBER	A	B
JS-01	.416 [10.60]	.226 [5.70]
JS-02	.467 [11.86]	.270 [6.86]
JS-03	.500 [12.70]	.313 [7.95]
JS-04	.465 [11.81]	.226 [5.70]



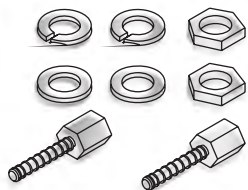
#### HDW-031

Set includes 2 #4-40 female jackscrews



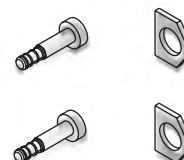
#### HDW-024

Set includes 2 #4-40 female jackscrews and 2 hex nuts



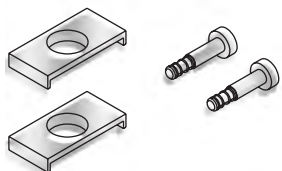
#### HDW-023

Set includes 2 #4-40 female jackscrews 2 flat washers, 2 split washers and 2 hex nuts



#### HDW-028

Screw retainer clip set includes 2 screw retainer clips and 2 retainer screws



#### HDW-029

Screw lock kit includes 2 screw locks and 2 retainer screws



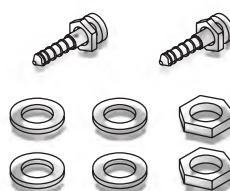
#### HDW-044

Sliding lock posts  
Set of 2



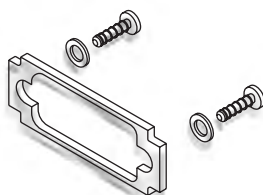
#### HDW-043A

Slide lock post set includes 2 posts, 2 washers and 2 lock-washers



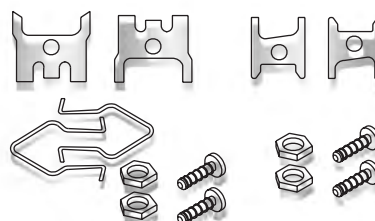
#### HDW-045

Slide lock post kit includes 2 posts, washers and hex nuts



#### HDW-043-XX

Slide lock assembly kit includes slide lock, screws and washers, Specify 9, 15, 25 or 37 position



#### HDW-041

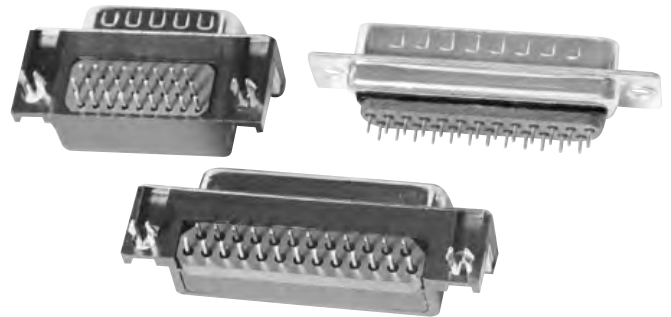
Spring latch set includes 1 pair of spring latches with holding hardware and 1 pair of notch clips with holding hardware

### INTRODUCTION:

Adam Tech EMI filtered D-Sub option includes the addition of a high performance Ferrite Filter which surrounds each contact and provides a low cost EMI answer for high frequency interference. Our ferrite filtered D-Subs are direct drop-in replacements with our standard unfiltered D-Subs with the same footprint.

### FEATURES:

Direct replacement for standard non-filtered parts  
 Low cost alternative to passive component types  
 Significant reduction of noise at high frequencies

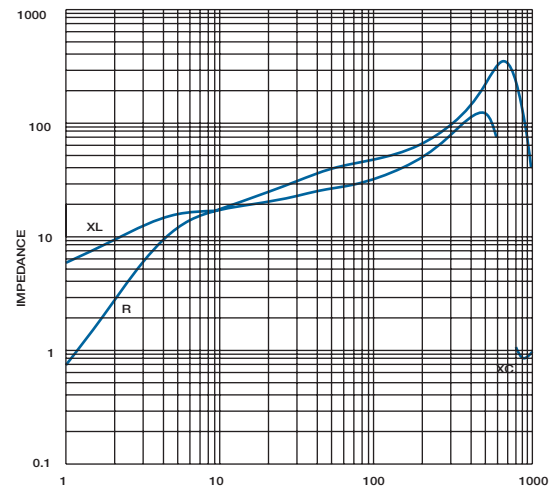


See pgs. 59, 62, 82, 90, 92, for ordering information

AdamTech offers a complete range of ferrite filtered D-Subs to satisfy EMI/RFI emissions in most applications. This series offers filtered connectors in a multitude of terminations, mating and mounting options.

- Drop in replacement for standard D-Subs
- Low applied cost
- Significant reduction of noise at high frequencies

Typical Performance



\* Consult factory for specific part number impedance performance.

FREQ (MHZ)

	1	5	10	25	30	40	50	100	200
XC-									
XL-	5.4	15	18	23	25	26	28	34	51
R-	0.656	11	18	29	32	37	40	50	64

	300	400	500	600	700	800	900	1000
XC-					1.27	0.807	0.856	0.977
XL-	73	101	122	57				
R-	84	121	199	342	344	170	77	40

### 25 Position

FREQ (MHZ)

	1	5	10	25	30	40	50	100	200
XC-									
XL-	4	14	18	22	24	26	27	35	55
R-	0.309	8.4	15	26	29	33	36	46	59

	300	400	500	600	700	800	900	1000
XC-					0.983	0.762	0.851	0.986
XL-	81	115	147	65				
R-	79	119	210	394	356	150	65	34

FREQ (MHZ)

	1	5	10	25	30	40	50	100	200
XC-									
XL-	3.6	15.9	19	24	25	27	28	36	54
R-	0.116	8.4	16	28	31	35	39	49	62

	300	400	500	600	700	800	900	1000
XC-					0.998	0.78	0.864	0.996
XL-	80	112	138	48				
R-	83	124	215	389	339	147	64	33

### 37 Position

FREQ (MHZ)

	1	5	10	25	30	40	50	100	200
XC-									
XL-	4.9	16	20	25	27	28	30	36	53
R-	0.45	8.4	15	26	29	33	36	46	59

	300	400	500	600	700	800	900	1000
XC-					1.082	0.814	0.879	1
XL-	76	105	122	29				
R-	80	122	224	424	332	131	56	29

#### INTRODUCTION:

Adam Tech DVI series Digital Visual Interface connectors are the standard digital interface for flat panels, video graphics cards, monitors, and HDTV units. This series includes DVI-D (Digital), DVI-A (Analog) and DVI-I (Integrated Digital/Analog) Their unique crossing ground blades provide high speed performance at low cost. They are available in Straight or Right Angle PCB mount receptacles and mating male cable connectors. They support a data transfer rate of 4.95Gbps with a dielectric withstanding voltage of 500VAC. Each version features our specially designed contacts which improve signal performance and a zinc alloy shield that reduces electromagnetic interference (EMI).

#### FEATURES:

- Supports Analog and Digital signals
- Offers excellent EMI/RFI performance
- Plug and Play interface
- Supports high bandwidth up to 2.5 GHz analog signal
- Variety of Mating and mounting options

#### MATING CONNECTORS:

Adam Tech DVI connectors and all industry standard DVI connectors.

#### SPECIFICATIONS:

##### Material:

Standard insulator: PA66, Glass filled, rated UL94V-0  
 Optional Hi-Temp insulator: Nylon 6T rated UL94V-0  
 Insulator Color: White, (Black optional)  
 Contacts: Phosphor Bronze  
 Shell: Steel, Nickel Plated

##### Contact Plating:

Gold over Nickel underplate on mating area,  
 Tin over Copper underplate on tails

##### Electrical:

Operating Voltage: 250V AC  
 Current Rating: 1.5 Amps max.  
 Contact Resistance: 20 mΩ max. initial  
 Insulation Resistance: 1000 MΩ min.  
 Dielectric Withstanding Voltage: 500V AC for 1 minute

##### Mechanical:

Insertion force: 10 lb max.  
 Withdrawal force: 2.2 lb. min.  
 Durability: 100 cycles

##### Temperature Rating:

Operating Temperature: -20°C to +85°C  
 Soldering process temperature:  
 Standard insulator: 235°C  
 Hi-Temp insulator: 260°C

##### PACKAGING:

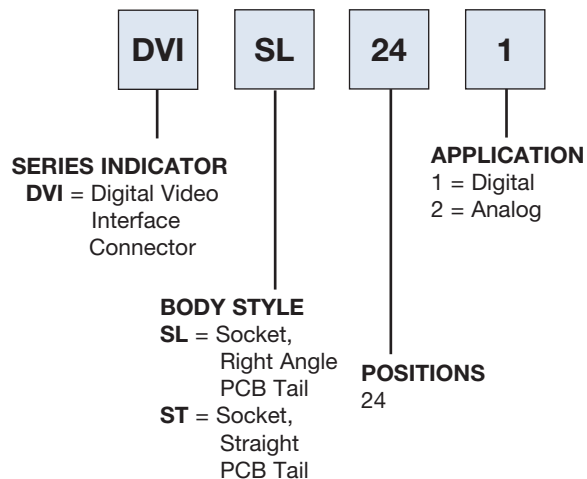
Anti-ESD plastic trays

##### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

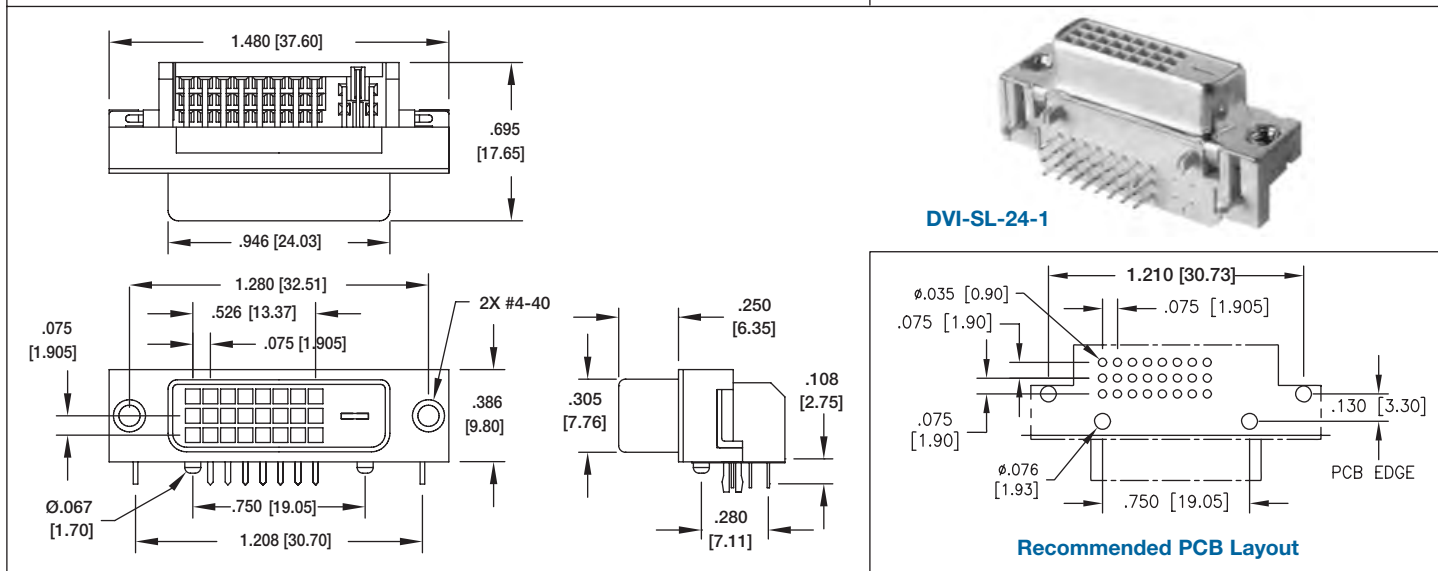
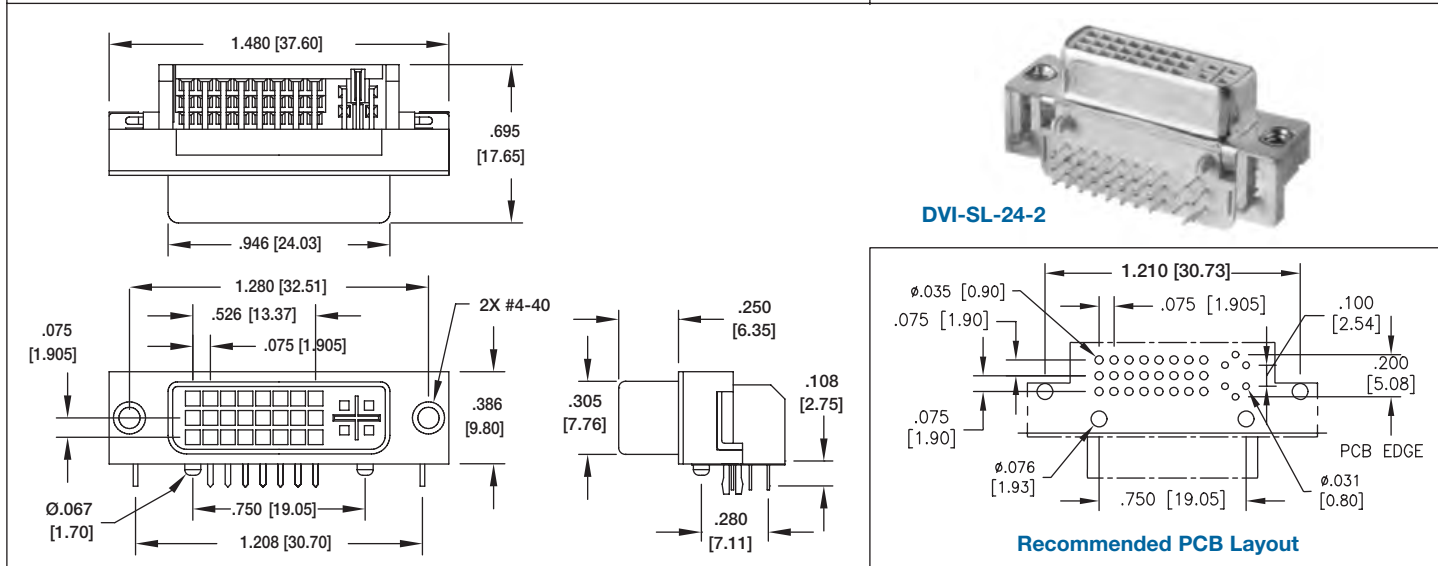
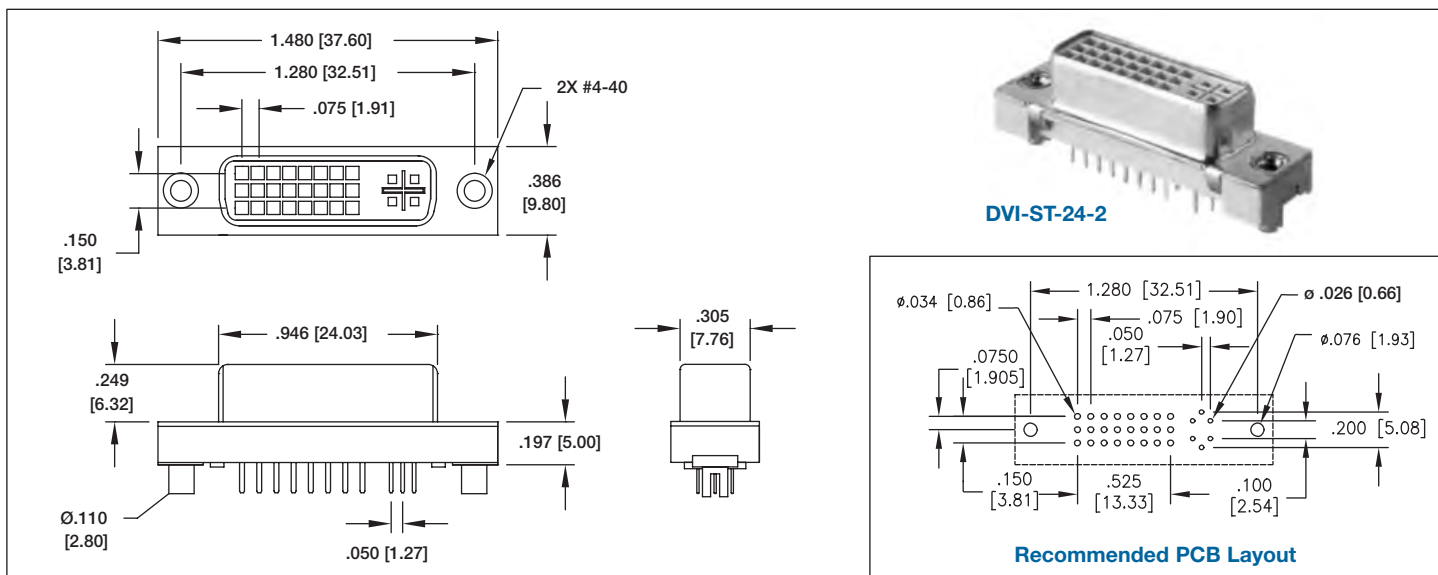


#### ORDERING INFORMATION



#### OPTIONS:

Add designator(s) to end of part number  
**BK** = Insulator color black  
**JS** = Jackscrews Installed  
**HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C





### MR SERIES

Adam Tech MR Series Miniature Ribbon connectors come in a variety of terminations including Solder Terminals, Straight PCB Tails, Right Angle PCB mount, Flat Cable IDC and Straddle Mount Card Edge. These connectors with their high pressure, flat wiping contacts are a very popular widely used interface especially in telecommunication applications. Offered in 14, 24, 36 and 50 positions they are a good choice for high reliability positive latching connector applications. They combine an extremely reliable contact design with the popular, polarized D face. Adam Tech connectors are manufactured with precision stamped contacts and offer a wide selection of mating and mounting options.

### FEATURES:

Available in many termination styles  
 High pressure blade contacts  
 Industry standard compatibility  
 Durable metal shell design  
 Variety of Mating and mounting options

### MATING CONNECTORS:

Adam Tech Miniature Ribbon connectors and all industry standard miniature ribbon connectors.

### SPECIFICATIONS:

#### Material:

Standard insulator: PBT, Glass filled, rated UL94V-0  
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0  
 Insulator Color: Blue (Black optional)  
 Contacts: Phosphor Bronze  
 Shell: Steel, nickel plated

#### Contact Plating:

Gold over Nickel underplate on mating area, Tin over Copper underplate on tails

#### Electrical:

Operating Voltage: 250V AC  
 Current Rating: 1 Amp max.  
 Contact Resistance: 35 mΩ max.  
 Insulation Resistance: 1000 MΩ min.  
 Dielectric Withstanding Voltage: 1000V AC for 1 minute

#### Mechanical:

Insertion force: 12 oz max.  
 Withdrawal force: 4.8 oz min.

#### Temperature Rating:

Operating Temperature: -55°C to +105°C  
 Soldering process temperature:  
     Standard insulator: 235°C  
     Hi-Temp insulator: 260°C

#### PACKAGING:

Anti-ESD plastic trays

#### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



### ORDERING INFORMATION



#### SHELL SIZE & POSITIONS

**MR14** = 14 Contacts  
**MR24** = 24 Contacts  
**MR36** = 36 Contacts  
**MR50** = 50 Contacts

#### CONTACT TYPE

**P** = Plug  
**S** = Socket

#### MOUNTING

**1** = Spring latches with .120" diameter mounting holes (socket only)  
**14** = Spring latches with #4-40 clinch nuts in mounting holes (socket only)  
**2** = Notch Ears (plug only)  
**3** = .120" diameter mounting holes only  
**34** = #4-40 threaded clinch nuts in mounting holes w/o spring latches

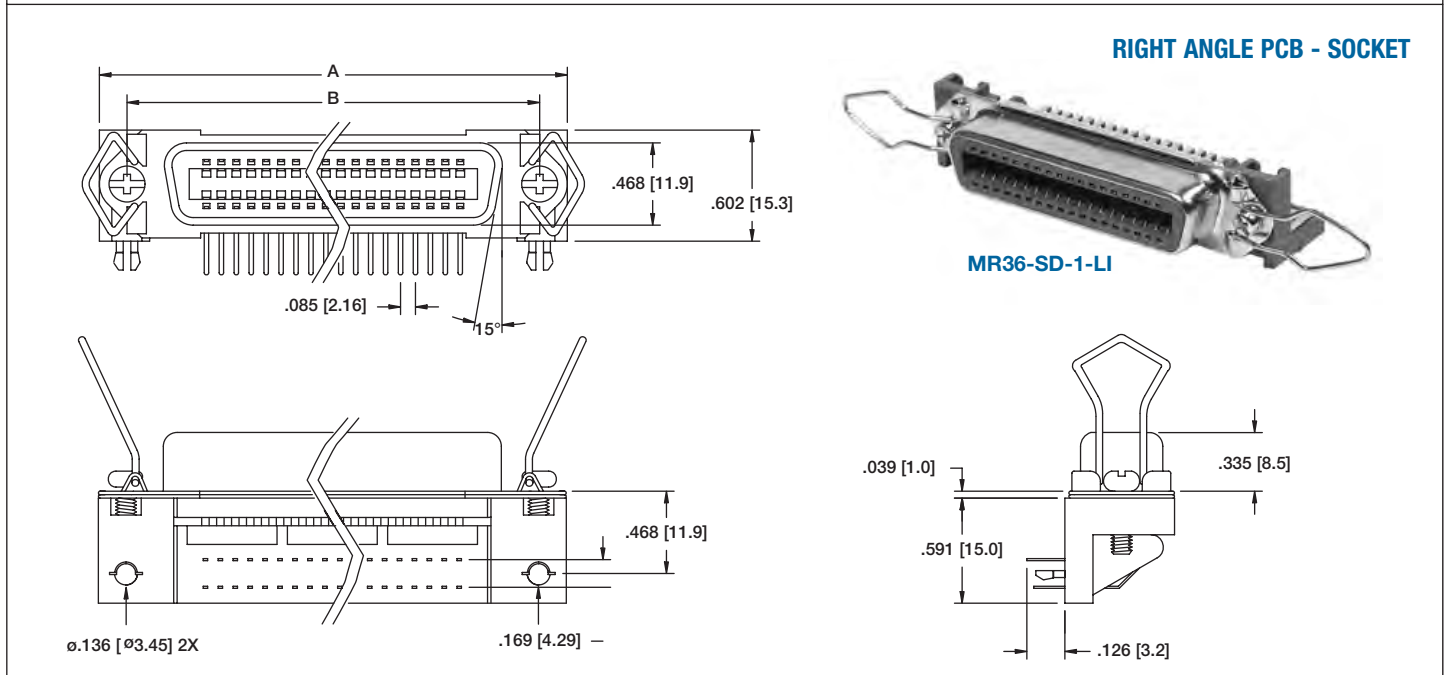
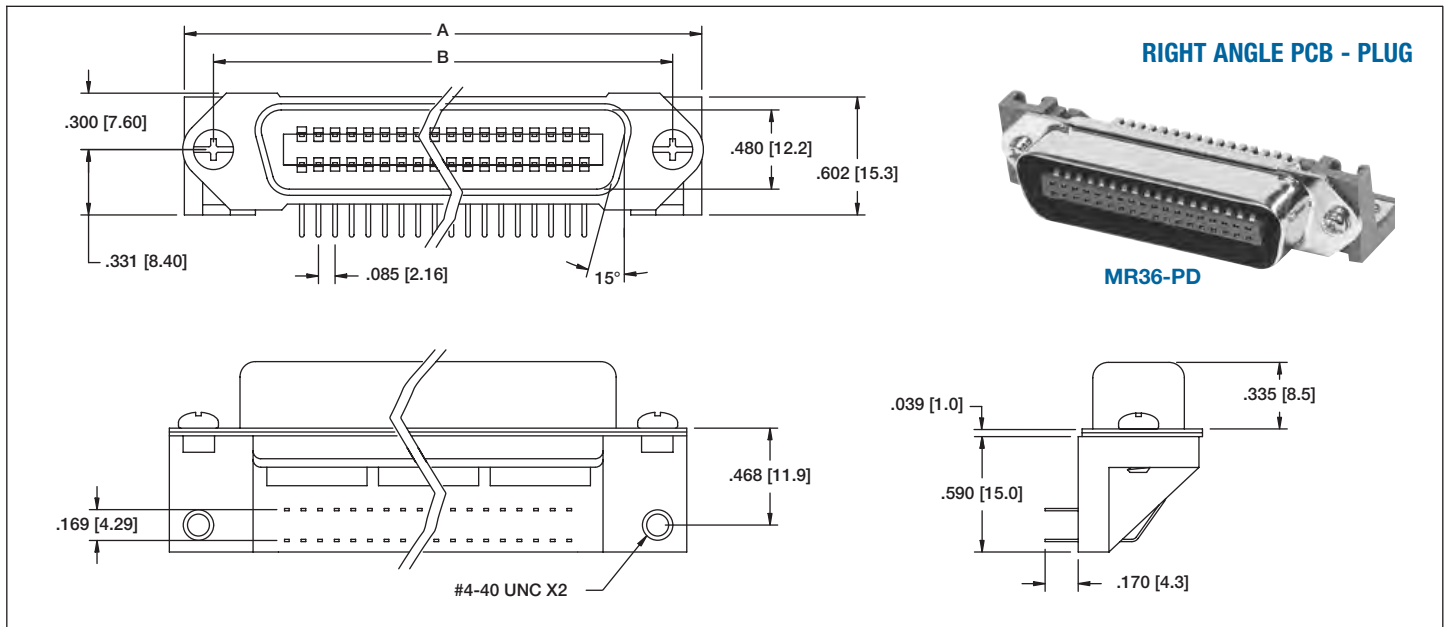
#### TERMINATION TYPE

**A** = Solder Terminals  
**C** = Straight PCB Tail  
**D** = Right Angle PCB Mount  
**E** = IDC, All plastic shell  
**F** = IDC, Metal Shell  
**G** = Straddle Mount Tails

#### OPTIONS:

Add designator(s) to end of part number  
**30** = 30 μin gold plating in contact area  
**BK** = Black color insulator  
**F** = Forked boardlocks  
**HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C  
**LI** = Spring Latches Installed

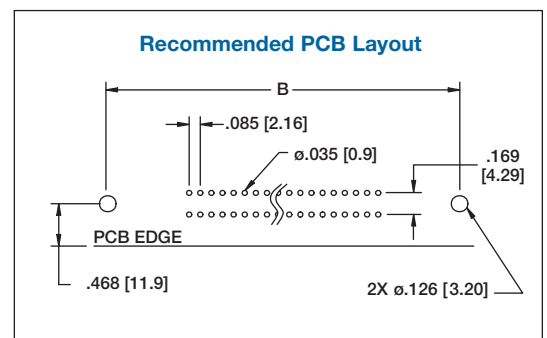




Ordering Information pg. 101

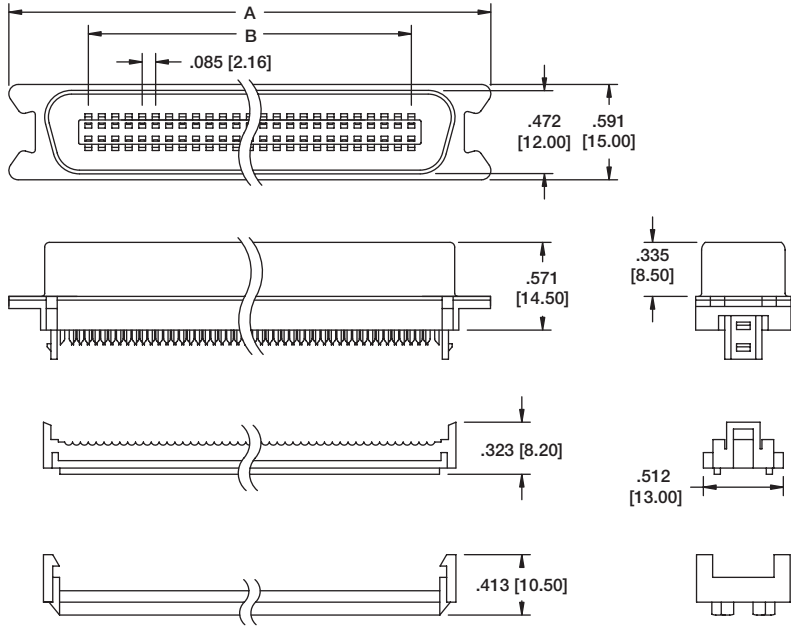
Unit: Inch [mm]

PART NO.	Dimensions	
	A	B
MR14-SD MR14-PD	1.750 [44.45]	1.417 [35.99]
MR24-SD MR24-PD	2.175 [55.25]	1.842 [46.79]
MR36-SD MR36-PD	2.685 [68.20]	2.352 [59.74]
MR50-SD MR50-PD	3.280 [83.31]	2.947 [74.85]



Ordering Information pg. 101

### IDC FLAT CABLE - PLUG

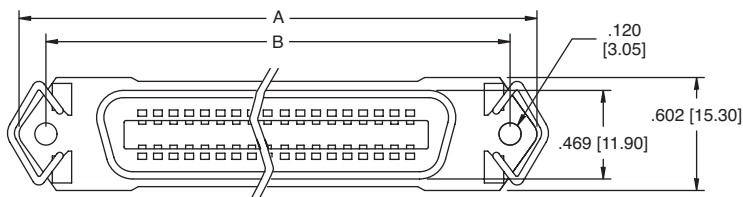


MR36-PF-2

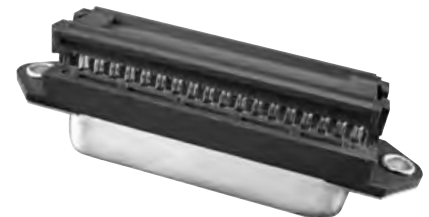
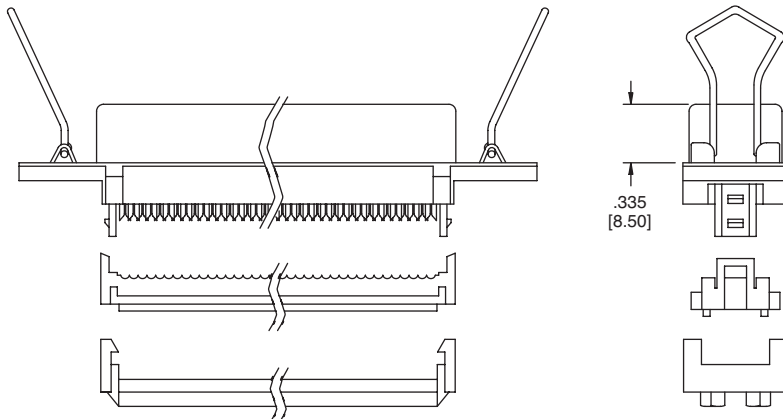
Unit: Inch [mm]

PART NO.	Dimensions	
	A	B
MR14-SF MR14-PF	1.750 [44.45]	1.417 [35.99]
	2.175 [55.25]	1.842 [46.79]
MR36-SF MR36-PF	2.685 [68.20]	2.352 [59.74]
	3.280 [83.31]	2.947 [74.85]

### IDC FLAT CABLE - SOCKET



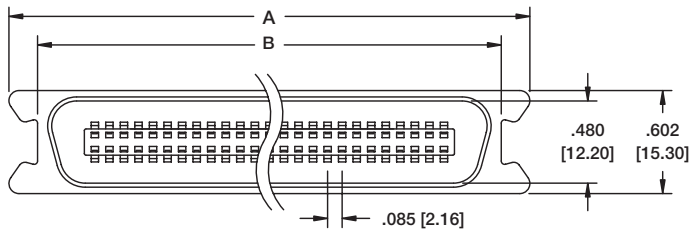
MR36-SF-1-LI



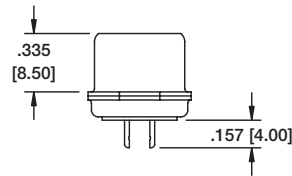
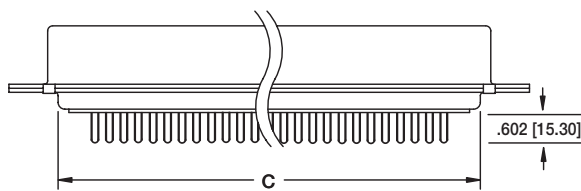
MR36-SF-3

Ordering Information pg. 101

#### STRAIGHT PCB TAIL PLUG

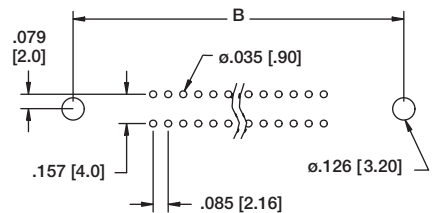
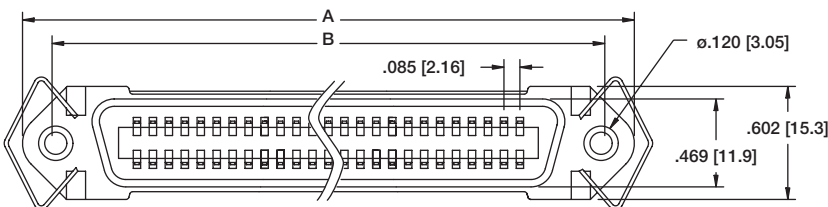


MR50-PC-3

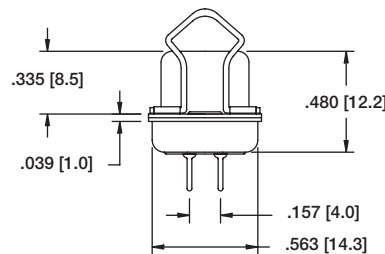
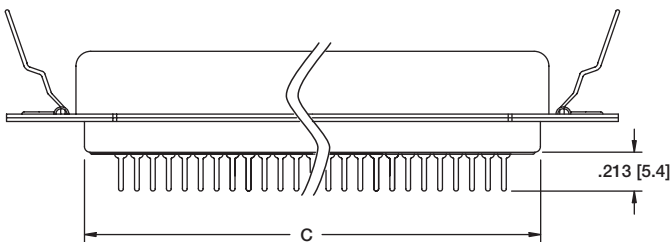


MR36-PC-2

#### STRAIGHT PCB TAIL SOCKET

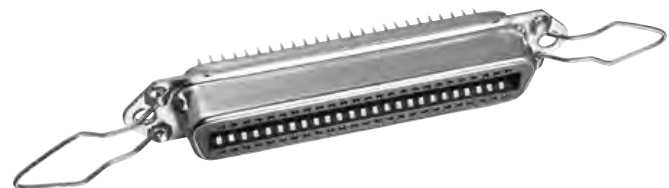


#### Recommended PCB Layout



Unit: Inch [mm]

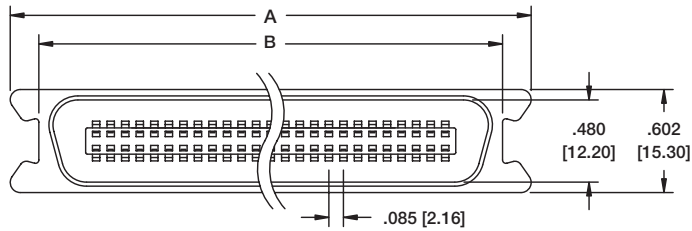
PART NO.	Dimensions	
	A	B
MR14-SC MR14-PC	1.750 [44.45]	1.417 [35.99]
MR24-SC MR24-PC	2.175 [55.25]	1.842 [46.79]
MR36-SC MR36-PC	2.685 [68.20]	2.352 [59.74]
MR50-SC MR50-PC	3.280 [83.31]	2.947 [74.85]



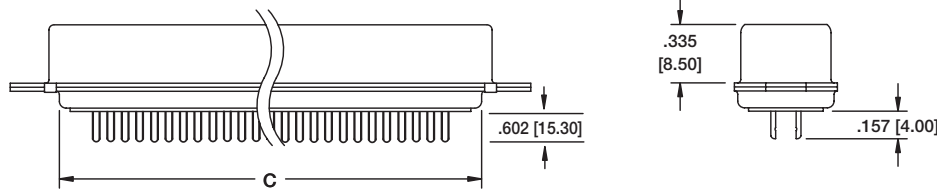
MR50-SC-1-LI

Ordering Information pg. 101

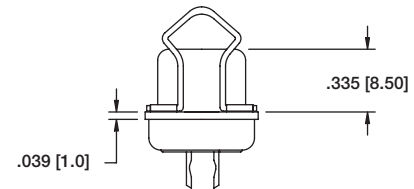
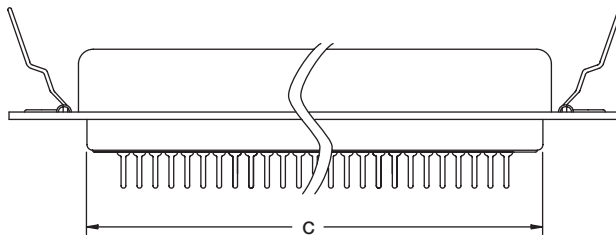
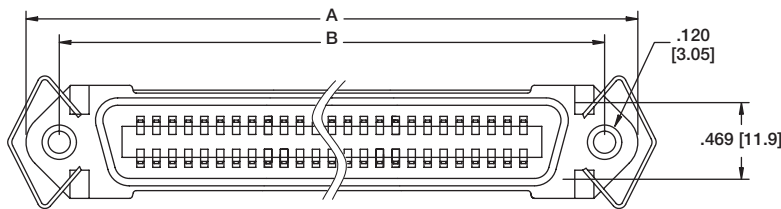
#### SOLDER TERMINALS - PLUG



MR36-PA-2

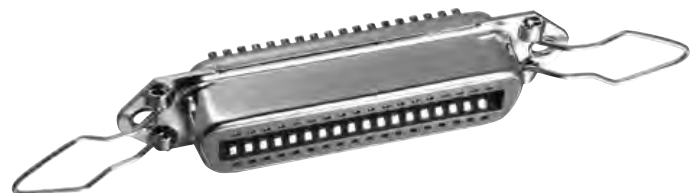


#### SOLDER TERMINALS - SOCKET



Unit: Inch [mm]

PART NO.	Dimensions	
	A	B
MR14-SA MR14-PA	1.750 [44.45]	1.417 [35.99]
MR24-SA MR24-PA	2.175 [55.25]	1.842 [46.79]
MR36-SA MR36-PA	2.685 [68.20]	2.352 [59.74]
MR50-SA MR50-PA	3.280 [83.31]	2.947 [74.85]



MR36-SA-1-LI

### INTRODUCTION:

Adam Tech USB, Mini USB & Micro USB (Universal Serial Bus) and IEEE 1394 (Firewire) Series connectors are a complete line of shielded, hot pluggable, high speed I/O interface connectors available in a variety of body styles, sizes, positions and mounting orientations. Each is shielded for superior EMI/RFI protection and features spring contacts for exceptional connectivity properties. Specially designed shells with flares eliminate misconnection and kinked boardlocks add a strong, stable PCB attachment. An ideal solution for a low cost, high speed connection to peripheral devices.

### FEATURES:

- USB-IF Compatible
- High Speed I/O applications
- Variety of Circuit sizes
- Variety of Body Styles
- Standard and Mini versions
- Shielded for EMI/RFI protection

### MATING CONNECTORS:

Adam Tech USB, Mini USB & Micro USB and IEEE 1394 series connectors and all industry standard USB and IEEE 1394 connectors.

### SPECIFICATIONS:

#### Material:

Standard insulator: PBT, Glass filled, rated UL94V-0  
 Optional Hi-Temp insulator: Nylon PA9T, rated UL94V-0  
 Insulator Color: Black (White optional)  
 Contacts: Phosphor Bronze or Brass  
 Shell: Steel, nickel plated

#### Contact Plating:

Gold over Nickel on mating area,  
 Tin over Copper underplate on tails

#### Electrical:

Operating Voltage: 30V AC  
 Current Rating: 1 Amp max.  
 Contact Resistance: 30 mΩ max.  
 Insulation Resistance: 1000 MΩ min.  
 Dielectric Withstanding Voltage: 100V AC for 1 minute

#### Mechanical:

Insertion force: 3 oz max.  
 Withdrawal force: 0.5 oz min.

#### Temperature Ratings:

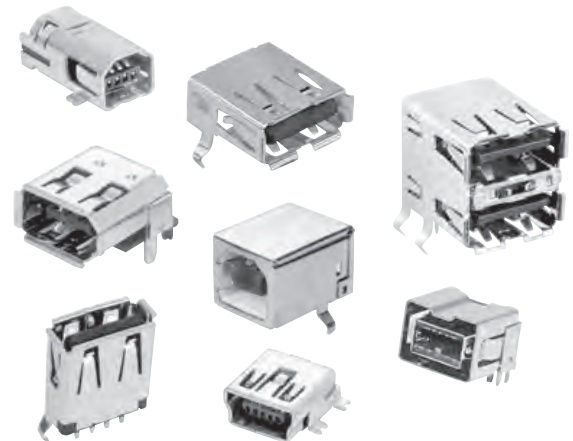
Operating Temperature: -55°C to +85°C  
 Soldering process temperature:  
 Standard insulator: 235°C  
 Hi-Temp insulator: 260°C

#### PACKAGING:

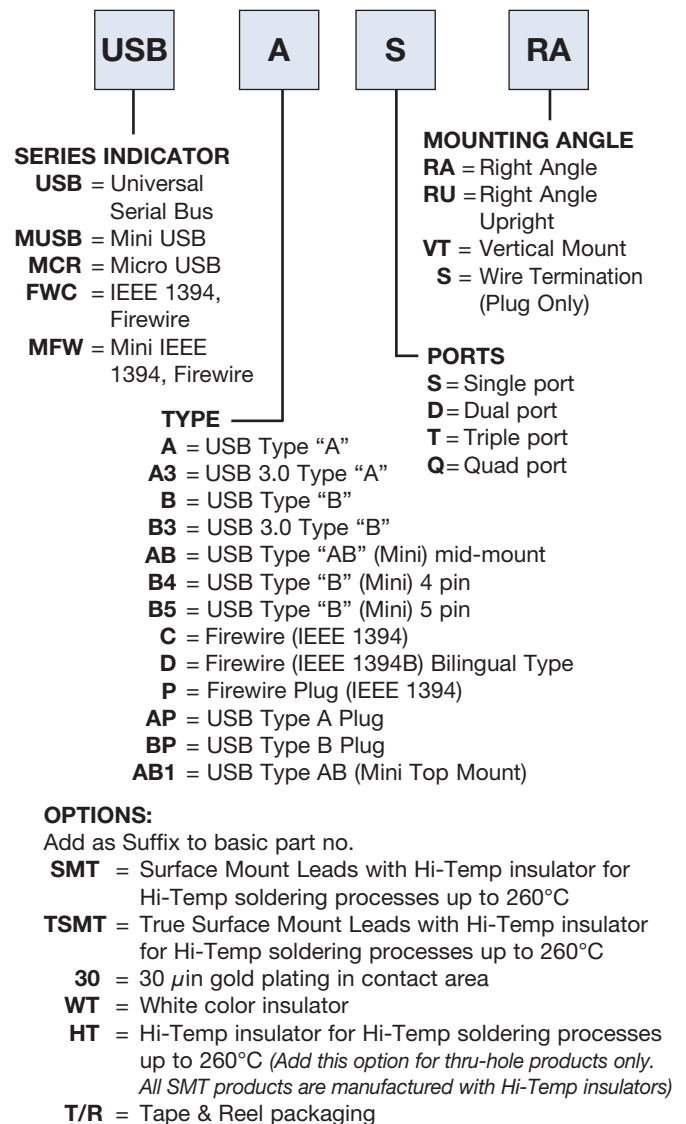
Anti-ESD plastic trays or tubes

#### APPROVALS AND CERTIFICATIONS:

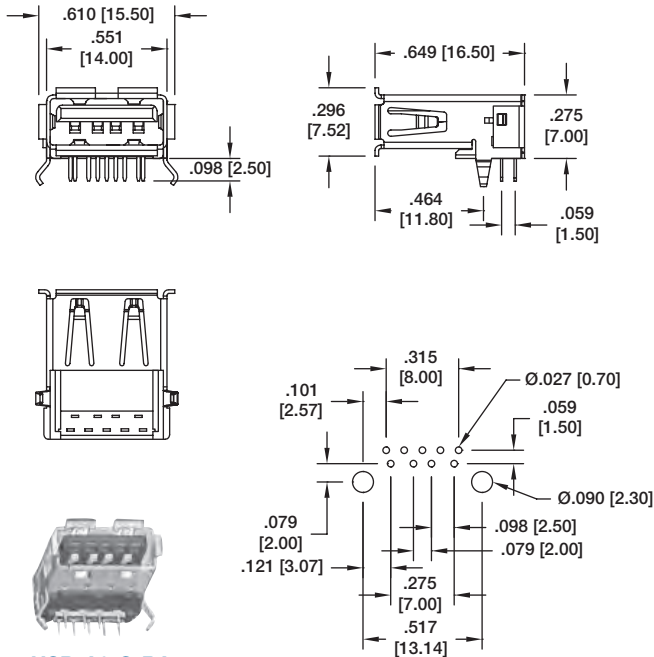
UL Recognized File no. E224053



### ORDERING INFORMATION



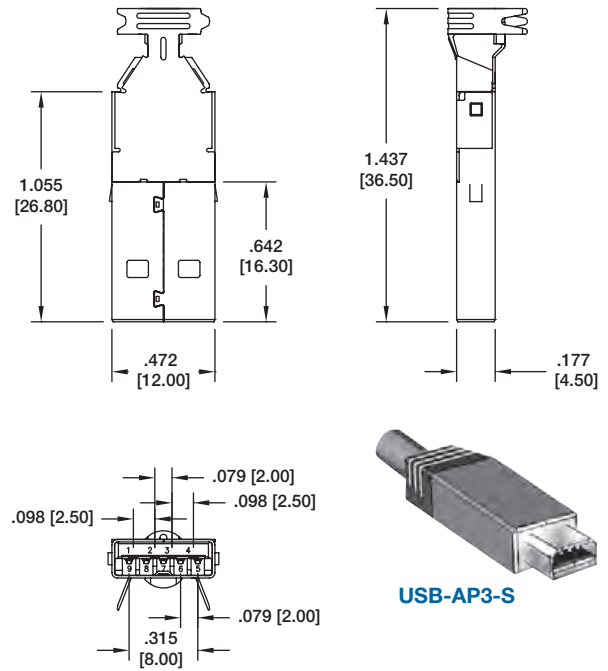
### USB 3.0, TYPE A RIGHT ANGLE THRU-HOLE



USB-A3-S-RA

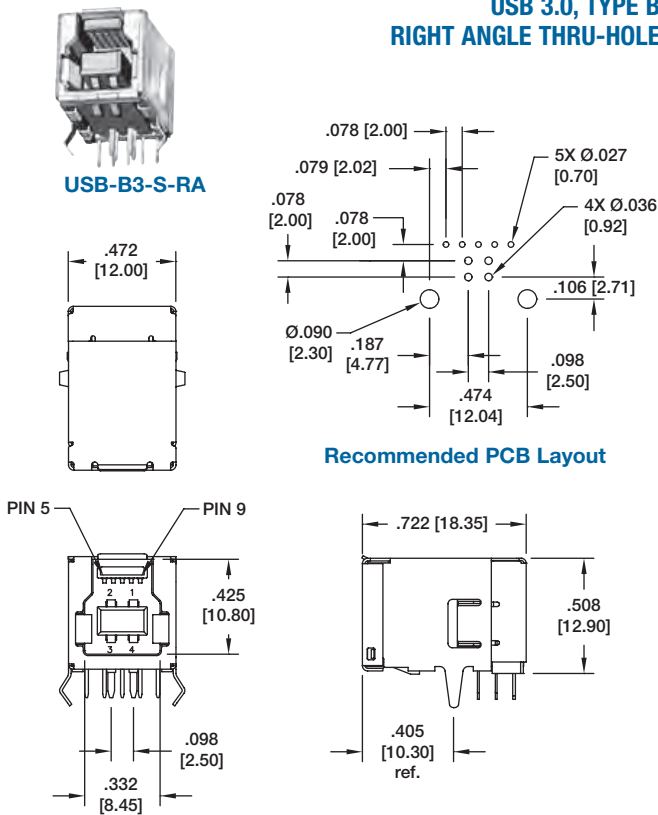
Recommended PCB Layout

### USB 3.0, TYPE A PLUG



USB-AP3-S

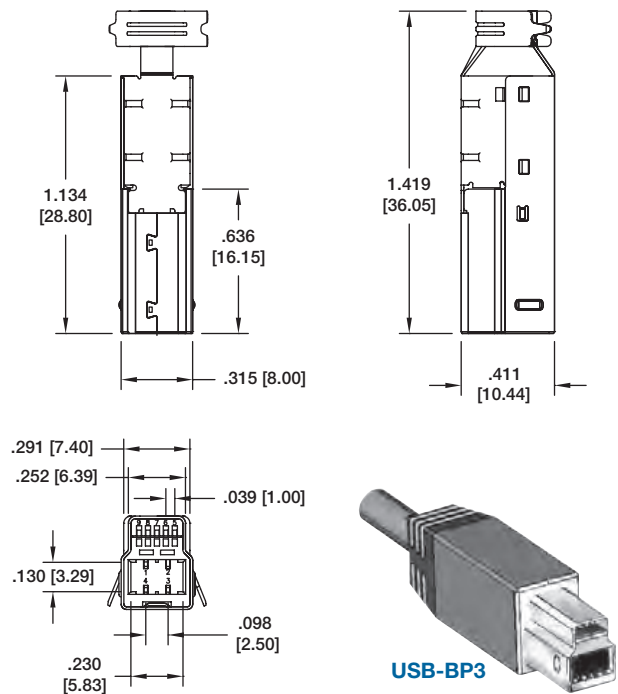
### USB 3.0, TYPE B RIGHT ANGLE THRU-HOLE



USB-B3-S-RA

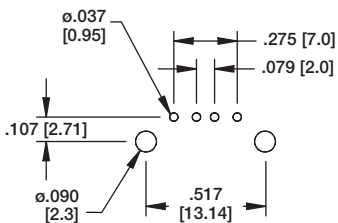
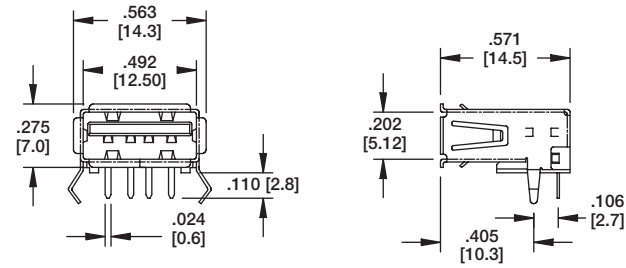
Recommended PCB Layout

### USB 3.0, TYPE B PLUG

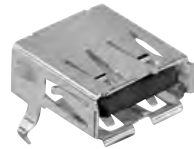


USB-BP3

### USB 2.0, TYPE A RIGHT ANGLE THRU-HOLE

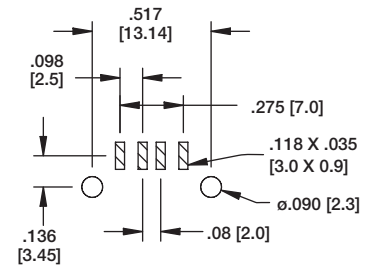
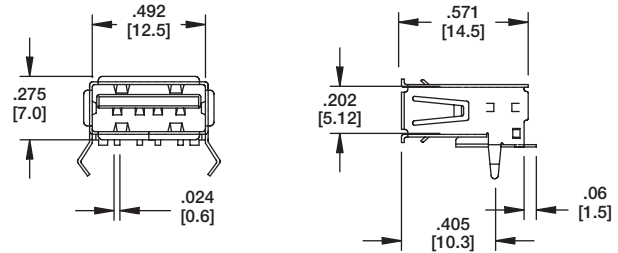


Recommended PCB Layout



USB-A-S-RA

### USB 2.0, TYPE A RIGHT ANGLE SMT

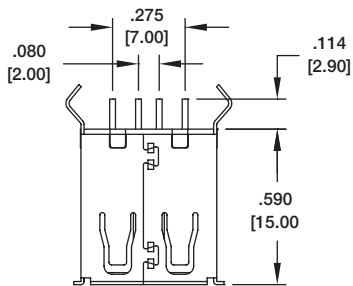


Recommended PCB Layout

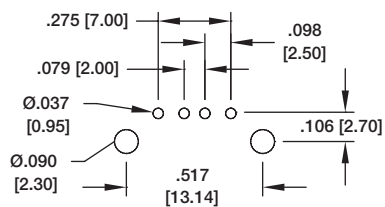
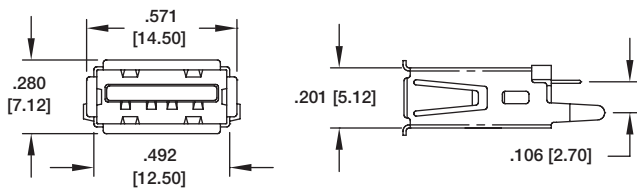


USB-A-S-RA-SMT

### USB 2.0, TYPE A VERTICAL THRU-HOLE

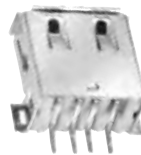


USB-A-S-VT

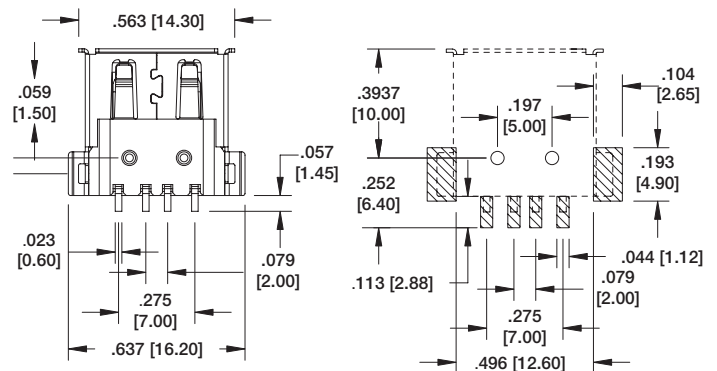
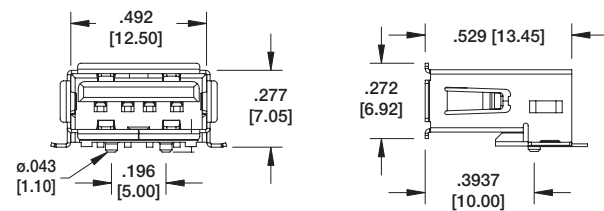


Recommended PCB Layout

### USB 2.0, TYPE A RIGHT ANGLE TRUE SMT



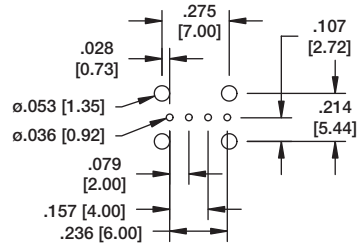
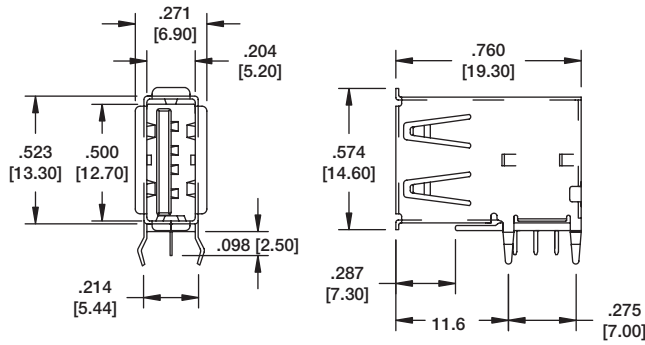
USB-A-S-RA-TSMT



Recommended PCB Layout



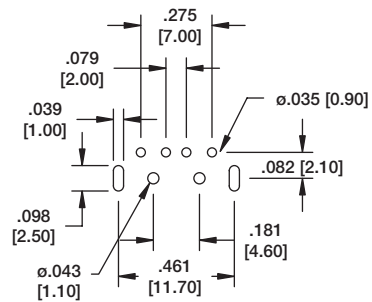
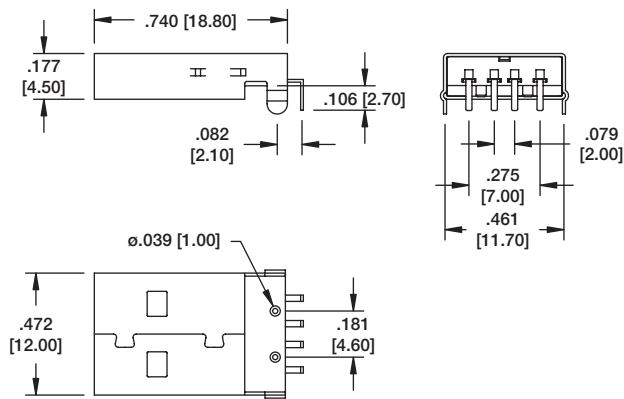
#### USB 2.0, TYPE A ANGLE UPRIGHT, THRU-HOLE



USB-A-S-RU

Recommended PCB Layout

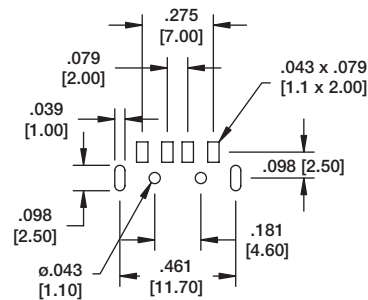
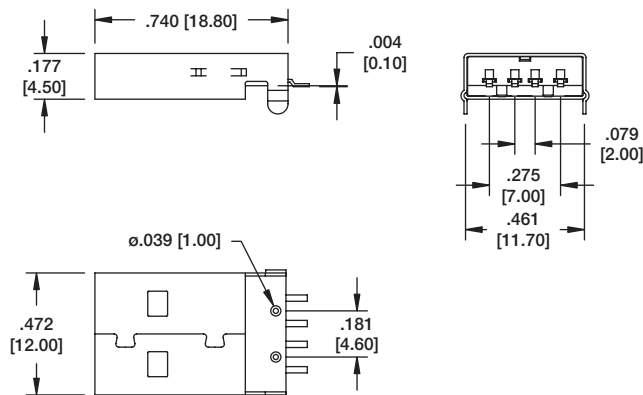
#### USB 2.0, TYPE A PLUG RIGHT ANGLE, THRU-HOLE



USB-AP-S-RA

Recommended PCB Layout

#### USB 2.0, TYPE A PLUG RIGHT ANGLE, SMT



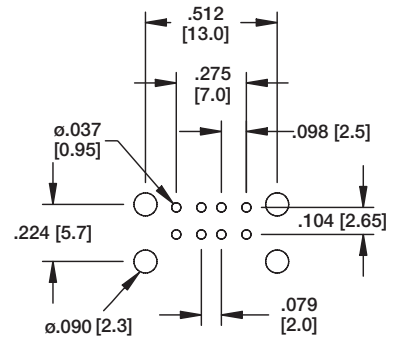
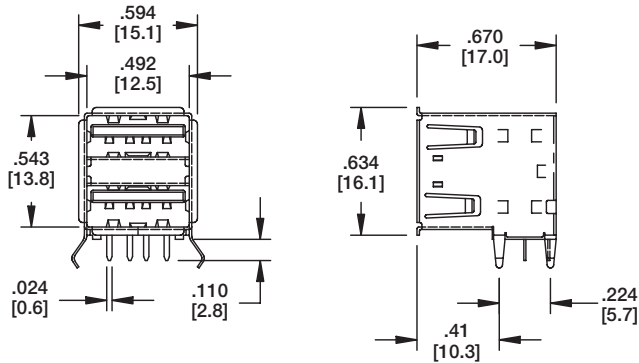
USB-AP-S-RA-SMT

Recommended PCB Layout

#### USB 2.0, TYPE A, 2 PORT STACKED, RIGHT ANGLE, THRU-HOLE



**USB-A-D-RA**

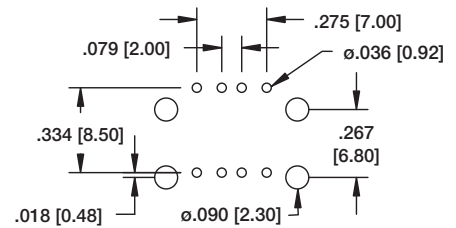
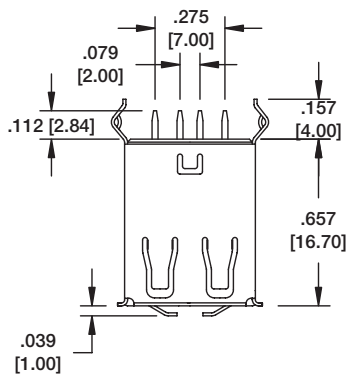


**Recommended PCB Layout  
(Bottom View)**

#### USB 2.0, TYPE A, 2 PORT STACKED, VERTICAL, THRU-HOLE

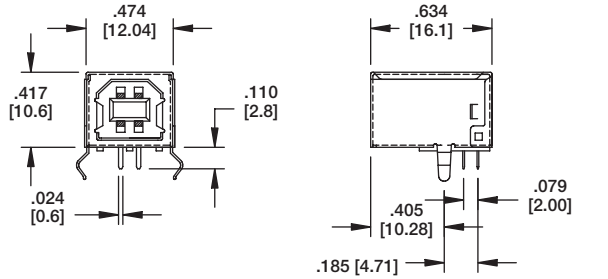


**USB-A-D-VT**

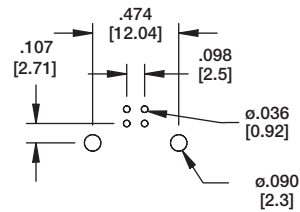


**Recommended PCB Layout**

### USB 2.0, TYPE B RIGHT ANGLE, THRU-HOLE

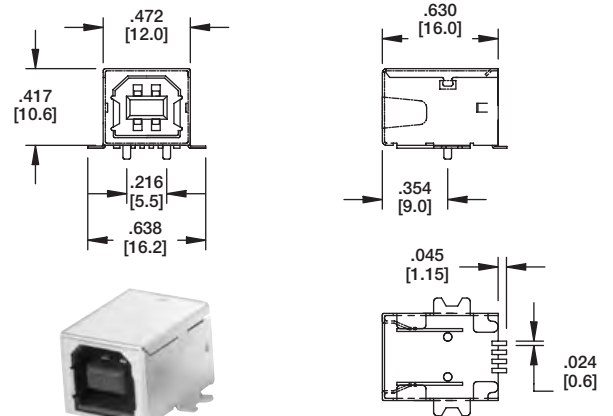


**USB-B-S-RA**

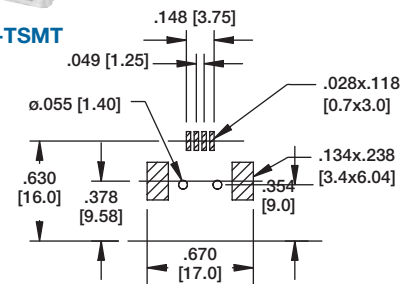


**Recommended PCB Layout**

### USB 2.0, TYPE B RIGHT ANGLE, TRUE SMT

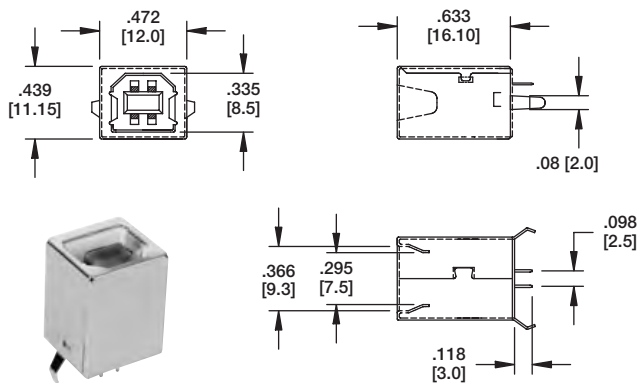


**USB-B-S-RA-TSMT**

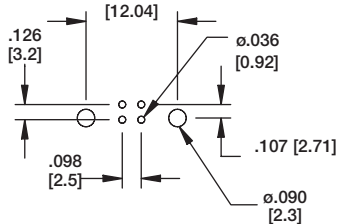


**Recommended PCB Layout**

### USB 2.0, TYPE B VERTICAL, THRU-HOLE



**USB-B-S-VT**

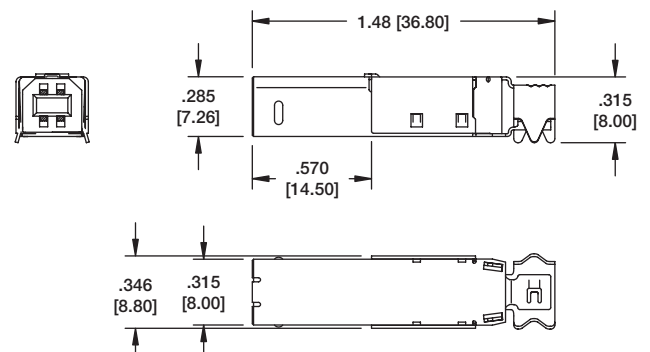


**Recommended PCB Layout  
(Component Side)**

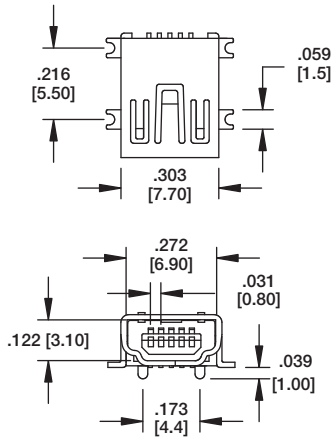
### USB 2.0, TYPE B PLUG



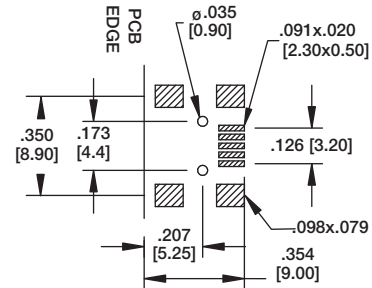
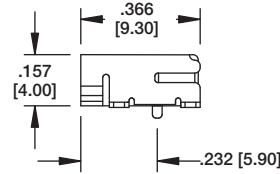
**USB-BP-S**



### MINI USB 2.0, TYPE A RIGHT ANGLE, TRUE SMT

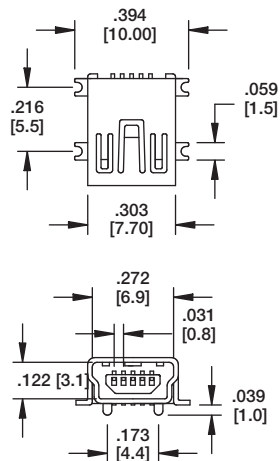


MUSB-A-S-RA-TSMT

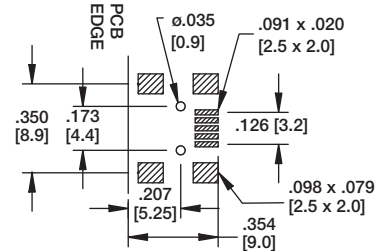
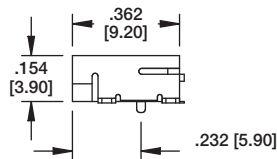


Recommended PCB Layout

### MINI USB 2.0, TYPE B (5 PIN) RIGHT ANGLE, TRUE SMT

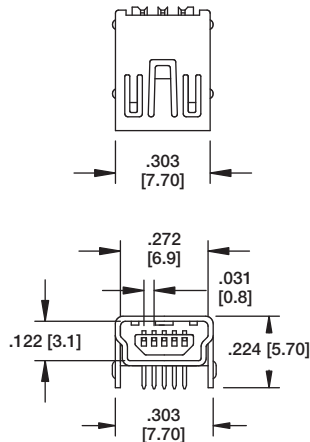


MUSB-B5-S-RA-TSMT

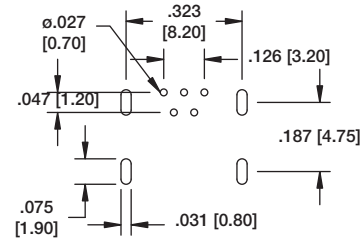
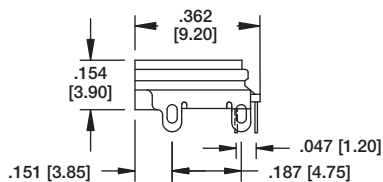


Recommended PCB Layout

### MINI USB 2.0, TYPE B (5 PIN) RIGHT ANGLE, THRU-HOLE

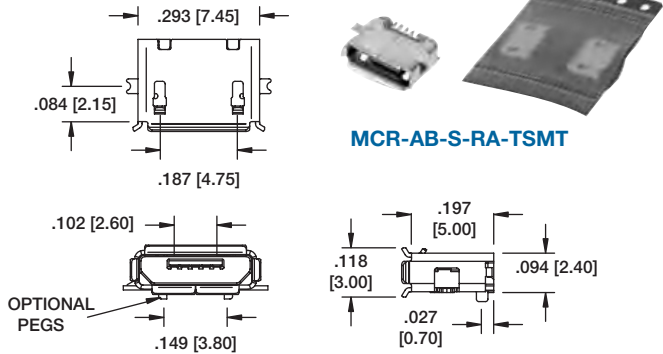


MUSB-B5-S-RA

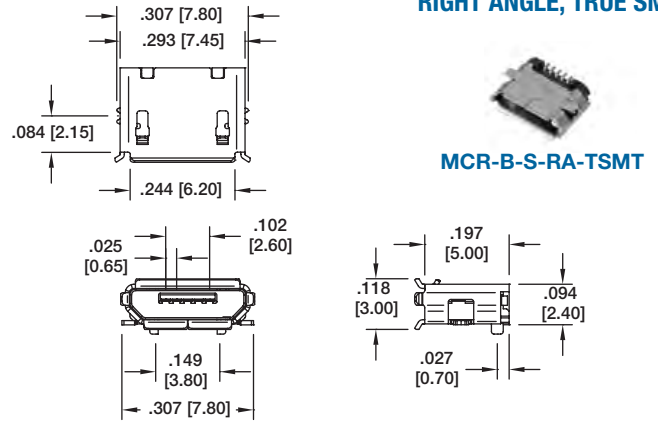


Recommended PCB Layout

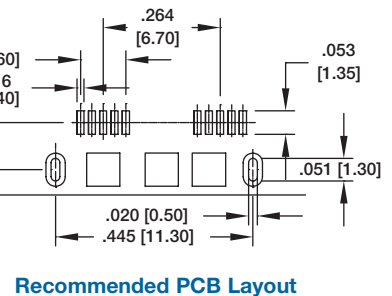
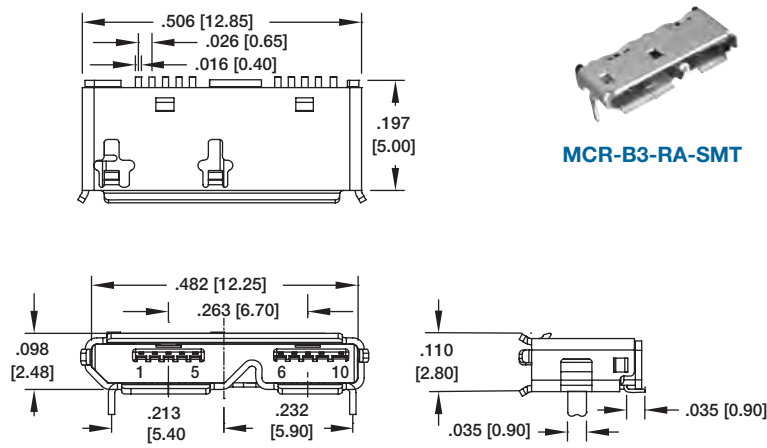
### MICRO USB 2.0, TYPE AB RIGHT ANGLE, TRUE SMT



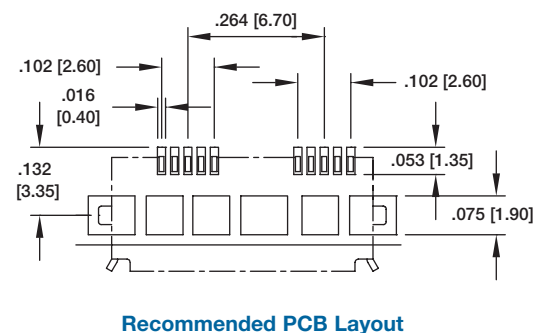
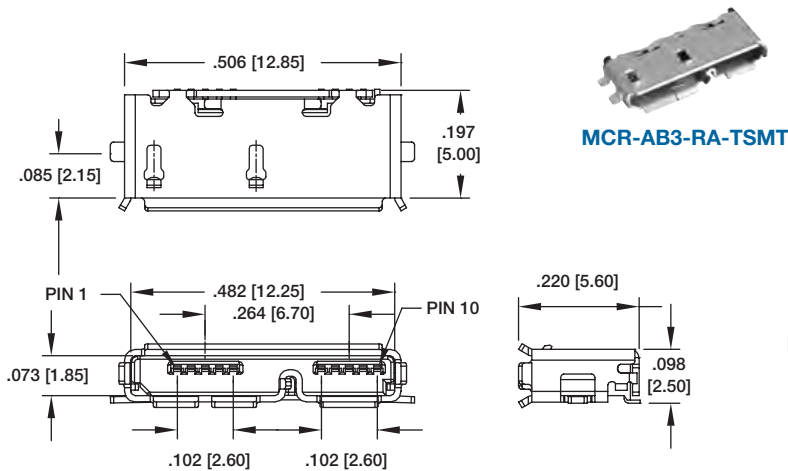
### MICRO USB 2.0, TYPE B RIGHT ANGLE, TRUE SMT



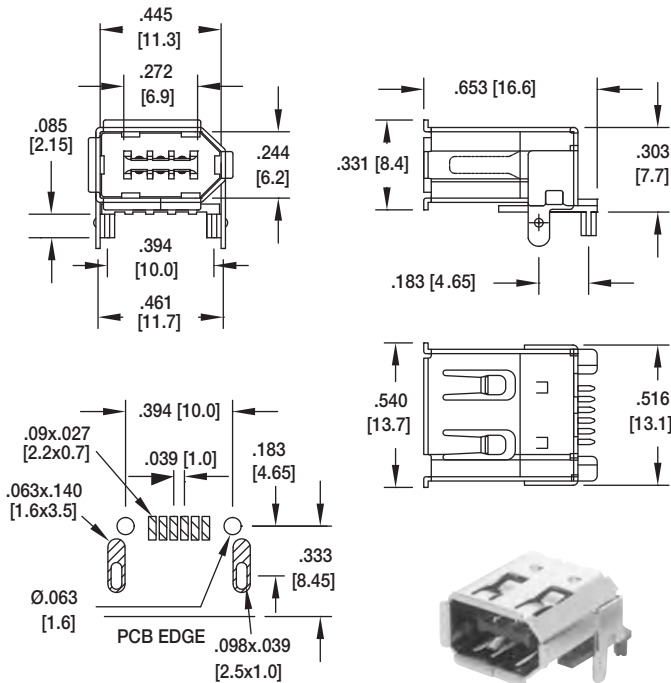
### MICRO USB 3.0, RIGHT ANGLE TRUE SMT



### MICRO USB 3.0, RIGHT ANGLE SMT



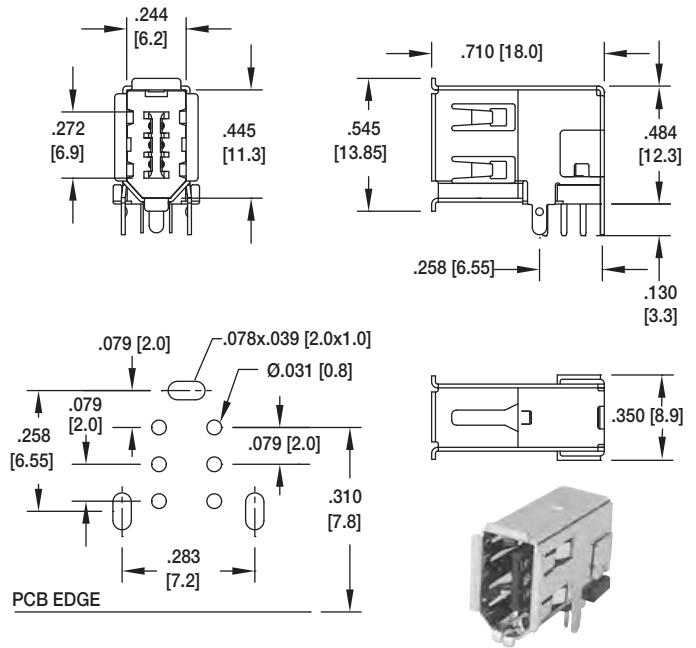
## IEEE 1394, RIGHT ANGLE, SMT



Recommended PCB Layout

FWC-C-S-RA-SMT

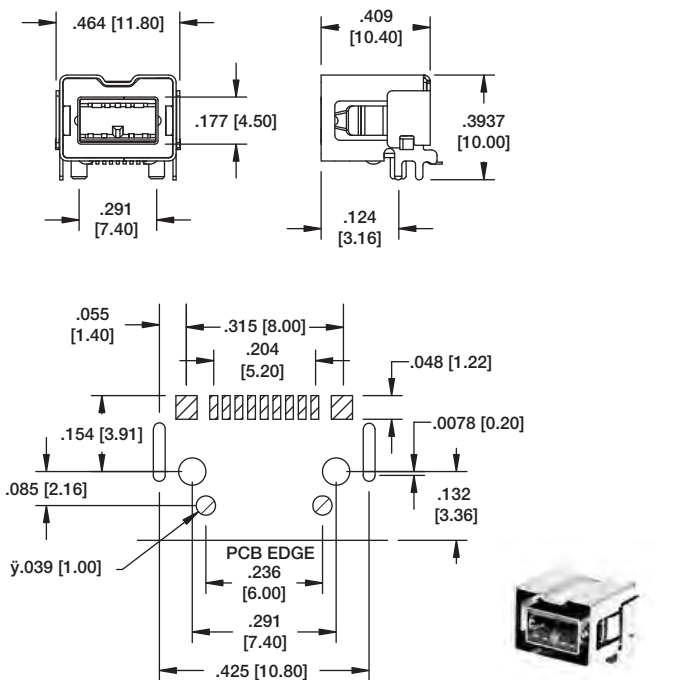
## IEEE 1394, RIGHT ANGLE UPRIGHT, THRU-HOLE



Recommended PCB Layout

FWC-C-S-RU

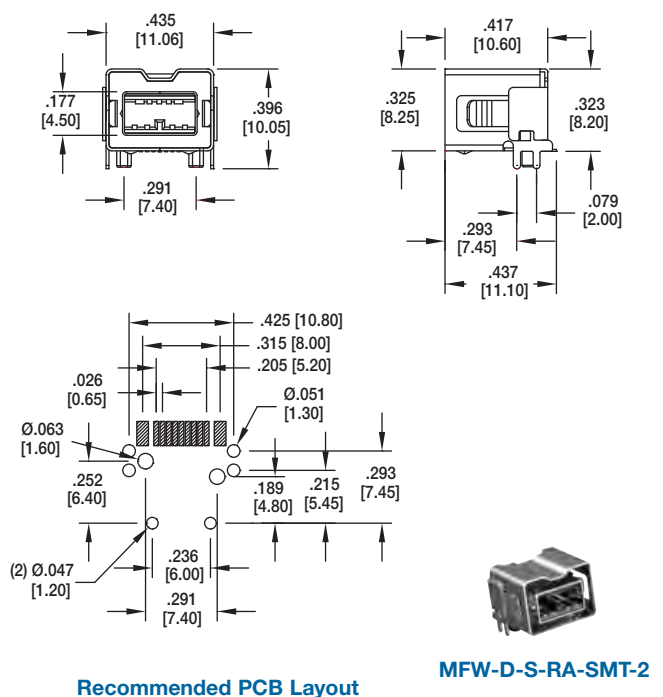
## MINI IEEE 1394, RIGHT ANGLE, SMT



Recommended PCB Layout  
(Bilingual)

MFW-D-S-RA-SMT-2A

## MINI IEEE 1394, RIGHT ANGLE, SMT



Recommended PCB Layout

MFW-D-S-RA-SMT-2

### INTRODUCTION:

Adam Tech DisplayPort series is a new high band width digital interface connection designed to provide true digital imaging while providing a multitude of colors and crystal clear sound through one small plug which can also supply power. There are 4 main links, one auxiliary channel and one hot-plug signal line. Adam Tech DisplayPort connectors are designed to work on a broad array of devices, including computers, televisions, camcorders, cameras and DVD players. Our DisplayPort connectors are fully compatible with industry standards and are backwards compatible to VGA, DVI & HDMI.

### FEATURES:

Ultra small size package  
Hot Pluggable  
Supports color depth of 6, 8, 10, 12 and 16 bits per color components  
Supports a maximum of 8.64 Gbit/s data rate over a 2 meter cable  
Can be used in applications up to 15 meters (49.21 feet)

### MATING CONNECTORS:

Adam Tech Display Port custom cables and all industry standard Display Port Cables

### SPECIFICATIONS:

#### Material:

Insulator: LCP, Glass filled, rated UL94V-0, color Black  
Contacts: Copper Alloy  
Shell: Copper Alloy, nickel plated

#### Contact Plating:

Gold over nickel underplate on mating area, Tin over Copper underplate on tails

#### Electrical:

Operating Voltage: 40V AC  
Current Rating: 0.5 Amps max.  
Contact Resistance: 30 mΩ max.  
Insulation Resistance: 100 MΩ min.  
Dielectric Withstanding Voltage: 500V AC for 1 minute

#### Mechanical:

Mating Cycles: 10,000 Cycles Min

#### Temperature Ratings:

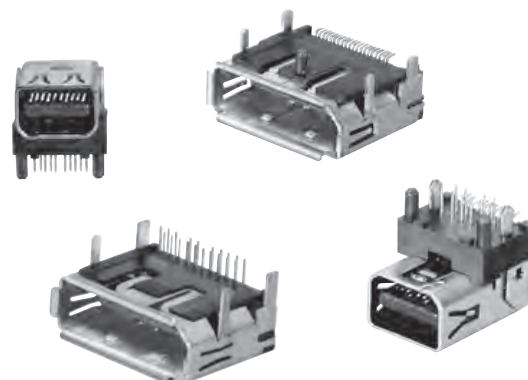
Operating Temperature: -20°C to +85°C

#### PACKAGING:

Anti-ESD plastic trays or tubes

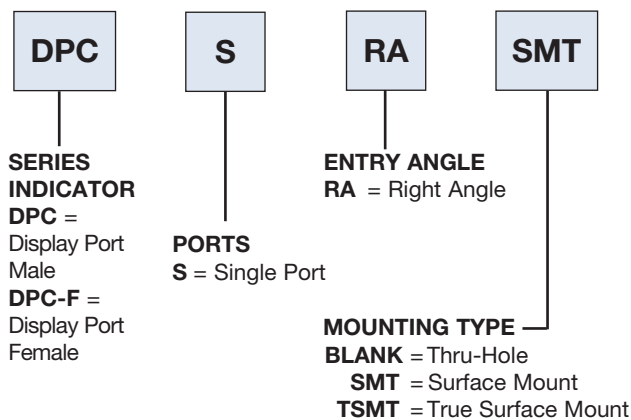
#### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

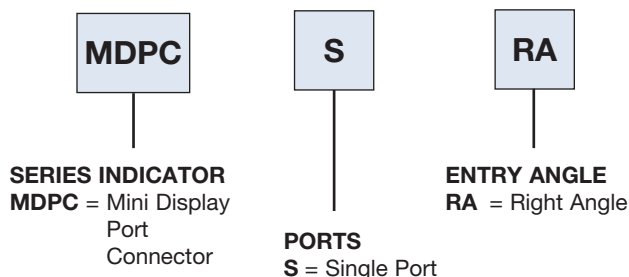


### ORDERING INFORMATION

#### DISPLAY PORT CONNECTOR



#### MINI DISPLAY PORT CONNECTOR



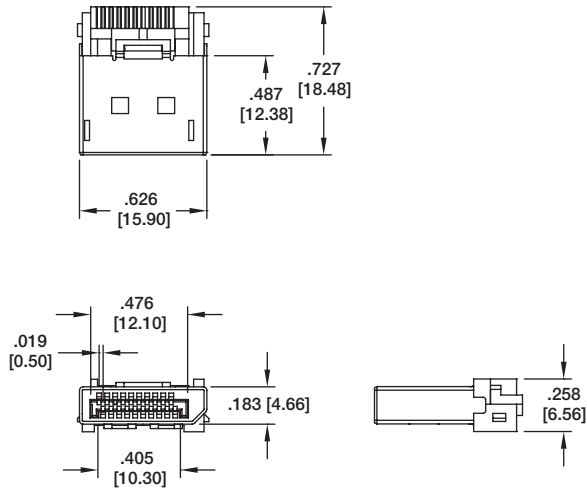
#### OPTIONS:

Add designator(s) to end of part number  
MF = Mounting Flange (DPC series only)



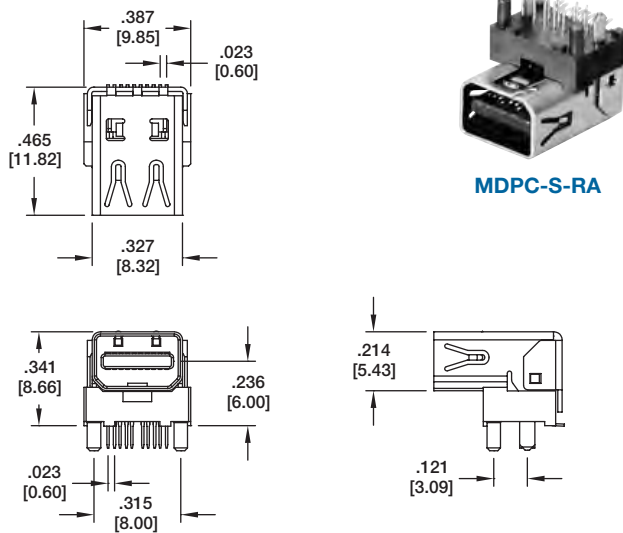


## DISPLAY PORT MALE PLUG MOLDING TYPE

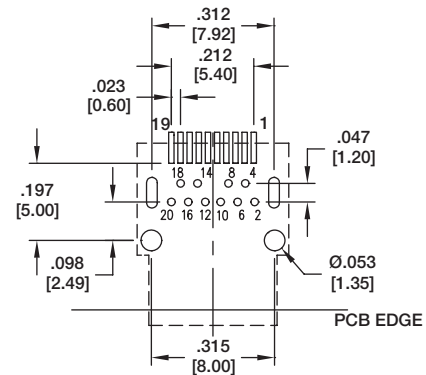


DPC-PLUG

## MINI DISPLAY PORT, RIGHT ANGLE

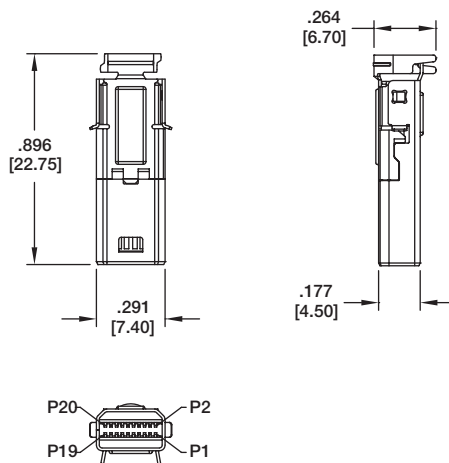


MDPC-S-RA

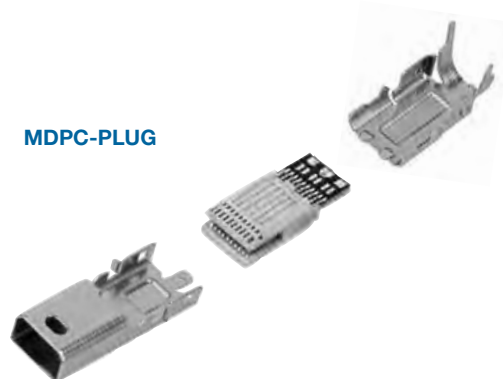


Recommended PCB Layout

## MINI DISPLAY PORT, PLUG



MDPC-PLUG





#### INTRODUCTION

Adam Tech's High Definition Multimedia Interface (HDMI) connectors and cable assemblies are a series of products that provide an uncompressed digital link between video and audio in a single digital interface connection. Typically they are used with digital versatile disc (DVD) players, digital television (DVI) players, set-top boxes and other audiovisual devices to consolidate interfaces and eliminate multiple cable assemblies. Adam Tech's HDMI Series are small, easy to use interconnects that can carry up to 5 Gbps of combined video and audio in a single connector/cable.

#### FEATURES:

- Sturdy, industry compatible design
- Eliminates multiple connectors and cables
- Up to 5 Gbps in single interface
- Variety of mounting styles
- Fully shielded for ESD protection
- Compact 0.50mm (.019") pitch SMT design

#### MATING CONNECTORS:

All industry standard HDMI connectors.

#### SPECIFICATIONS:

##### Material:

- Insulator: Hi-Temperature thermoplastic, glass filled, rated UL94V-0
- Insulator Color: Black
- Shell: Phosphor Bronze, Nickel plated
- Contacts: Phosphor Bronze

##### Plating:

- Gold over nickel underplate on mating area, tin over copper underplate on tails

##### Electrical:

- Operating Voltage: 30V AC
- Current Rating: 0.5 Amps Max.
- Contact Resistance: 10 mΩ Max.
- Insulation Resistance: 100 MΩ Min.
- Dielectric Withstanding Voltage: 300V AC for 1 Minute

##### Mechanical:

- Insertion force: 10.0 lbs max.
- Withdrawal force: 2.2 lbs min.

##### Temperature Rating:

- Operation Temperature: -55°C ~ +85°C

##### PACKAGING:

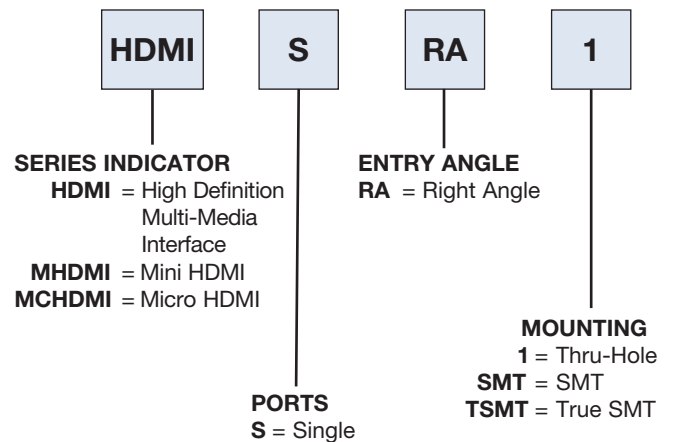
- Anti ESD plastic trays or Tubes

##### APPROVALS AND CERTIFICATIONS:

- UL Recognized File no. E224053



#### ORDERING INFORMATION HDMI CONNECTOR

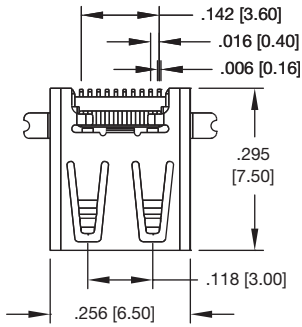


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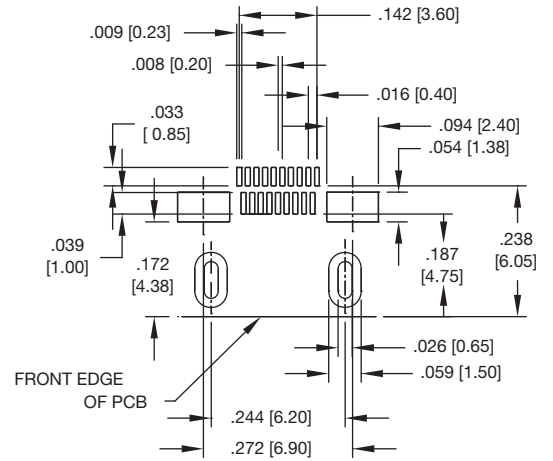
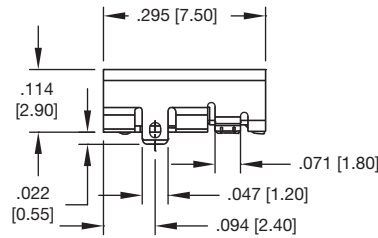
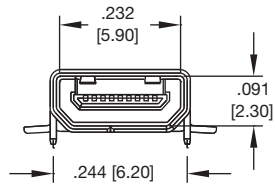
- Add designator(s) to end of part number
- 15 = 15 μin gold plating in contact area
- MF = Mounting Flange
- R = Reverse Layout



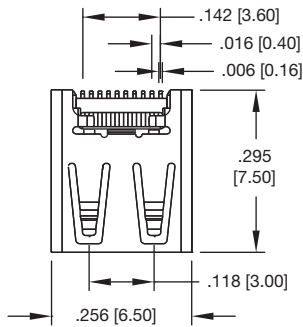
## MICRO HDMI, RIGHT ANGLE, SMT



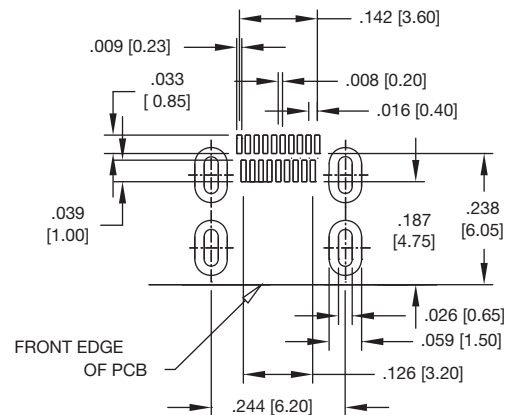
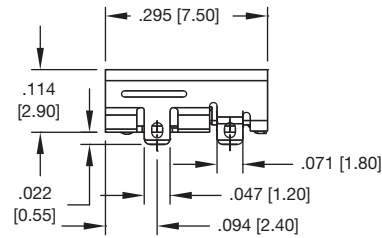
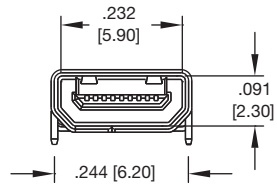
**MCHDMI-S-RA-1-SMT**



## MICRO HDMI, RIGHT ANGLE, SMT



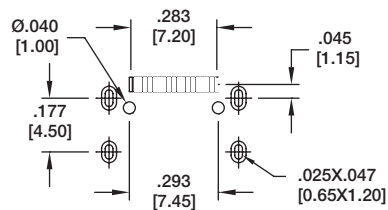
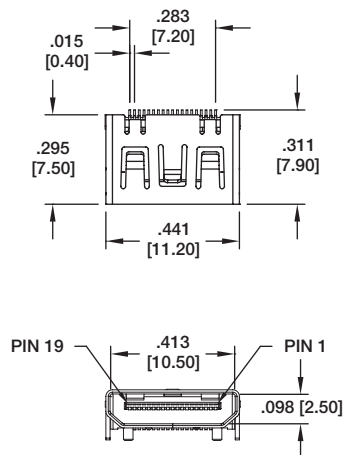
**MCHDMI-S-RA-2-SMT**



#### MINI HDMI, RIGHT ANGLE, SMT



**MHDMI-S-RA-1-SMT**

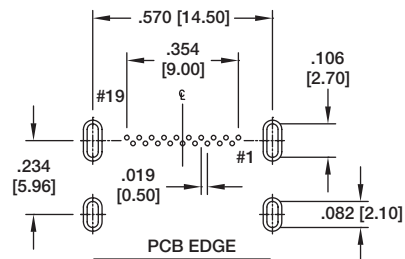
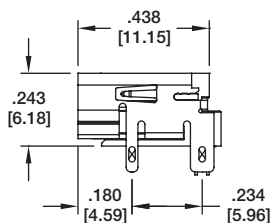
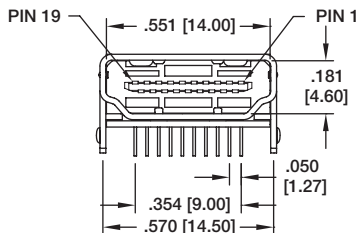
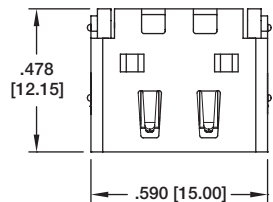


**Recommended PCB Layout**

#### HDMI RIGHT ANGLE THRU-HOLE

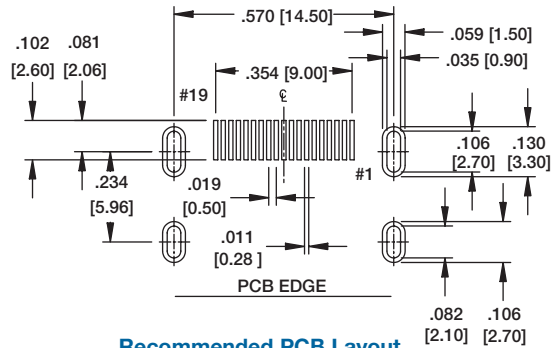
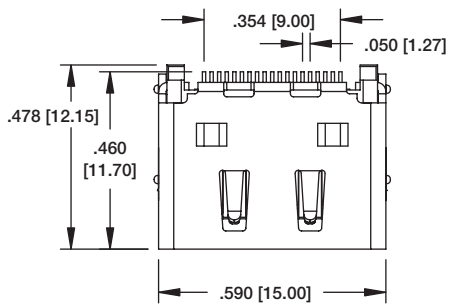


**HDMI-S-RA-1**

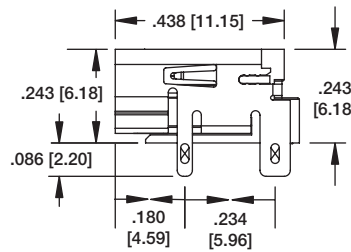
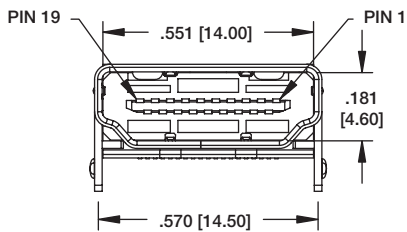


**Recommended PCB Layout**

#### RIGHT ANGLE SMT

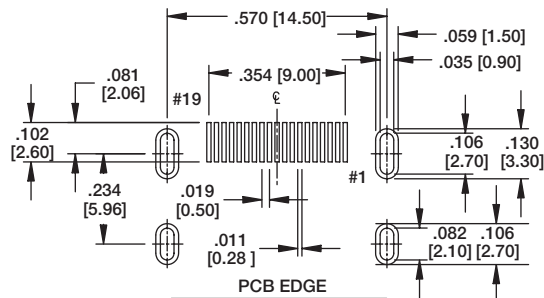
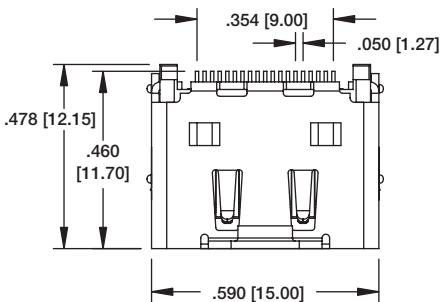


Recommended PCB Layout

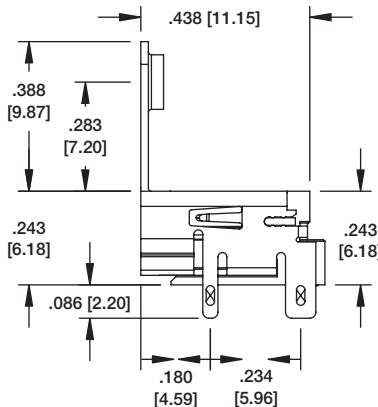
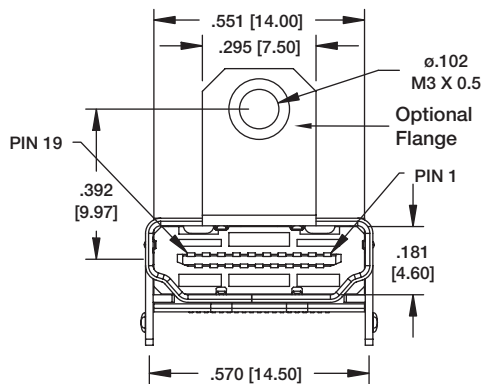


HDMI-S-RA-SMT

#### RIGHT ANGLE SMT WITH MOUNTING FLANGE

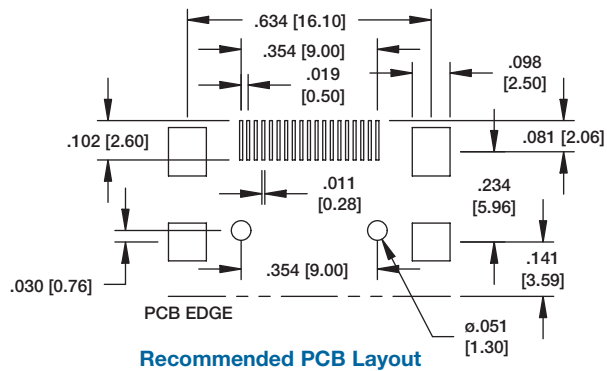
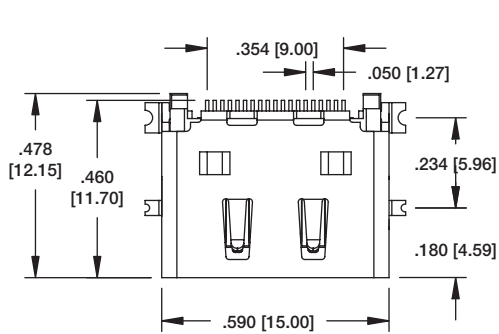


Recommended PCB Layout

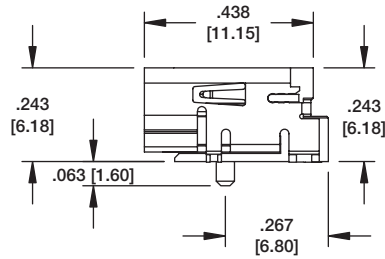
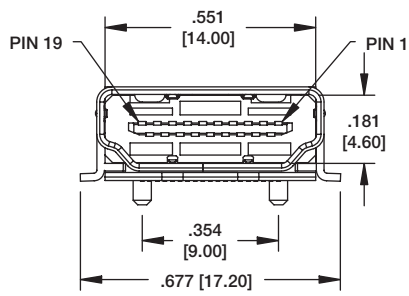


HDMI-S-RA-SMT-MF

#### RIGHT ANGLE TRUE SMT

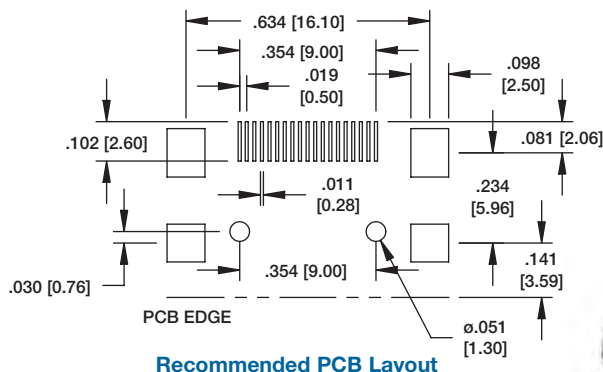
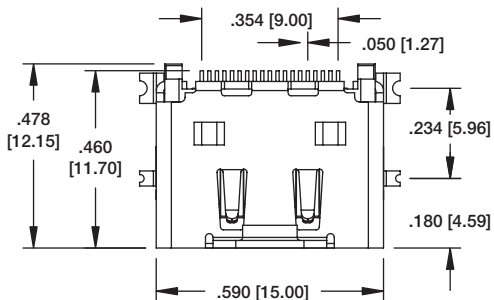


Recommended PCB Layout

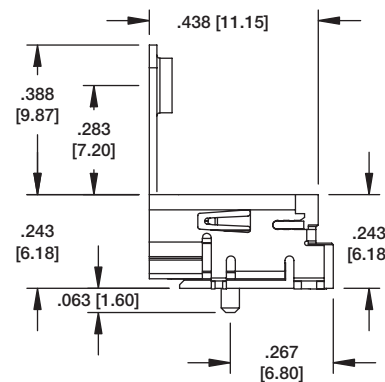
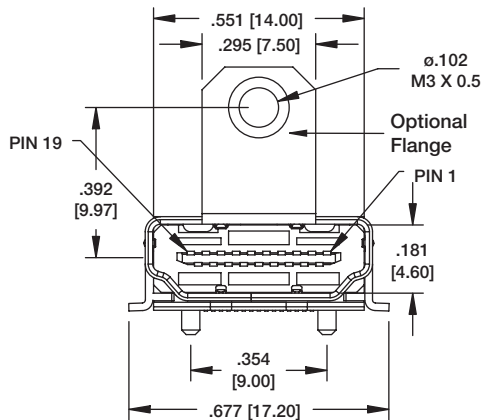


HDMI-S-RA-TSMT

#### RIGHT ANGLE TRUE SMT WITH MOUNTING FLANGE



Recommended PCB Layout



HDMI-S-RA-TSMT-MF



**INTRODUCTION:**

Adam Tech SATA & eSATA series Serial ATA connectors combine hot-plug capability with a combination of power and signal contacts in a blind-mate design. They are ideal for connecting disk drives to backplanes in servers or network equipment. Adam Tech SATA connectors are designed with differential-pair signaling technology and are precision manufactured to consistently perform at speeds up to 3.0 Gbits/s.

**FEATURES:**

Meets SCA Interconnection Standards  
 40P Fiber Channel and 80P SCSI compatible  
 Intermatable Industry Standard Design

**MATING CONNECTORS:**

Adam Tech SATA & eSATA series plugs and all industry standard SATA plugs.

**SPECIFICATIONS:**

**Material:**

Insulator: Hi-Temp thermoplastic, glass filled, rated UL94V-0  
 Insulator Color: Black  
 Contacts: Phosphor Bronze

**Plating:**

Gold over nickel underplate on mating area, tin over copper underplate on tails

**Electrical:**

Operating Voltage: 30V AC  
 Current Rating: 1.5 Amps Max.  
 Contact Resistance: 30 mΩ Max. initial  
 Insulation Resistance: 1000 MΩ Min.  
 Dielectric Withstanding Voltage: 500V AC for 1 Minute

**Mechanical:**

Insertion force: 10.20 lbs max.  
 Withdrawal force: 2.25 lbs min.

**Temperature Rating:**

Operating Temperature: -55°C to +85°C  
 Soldering process temperature: 260°C

**PACKAGING:**

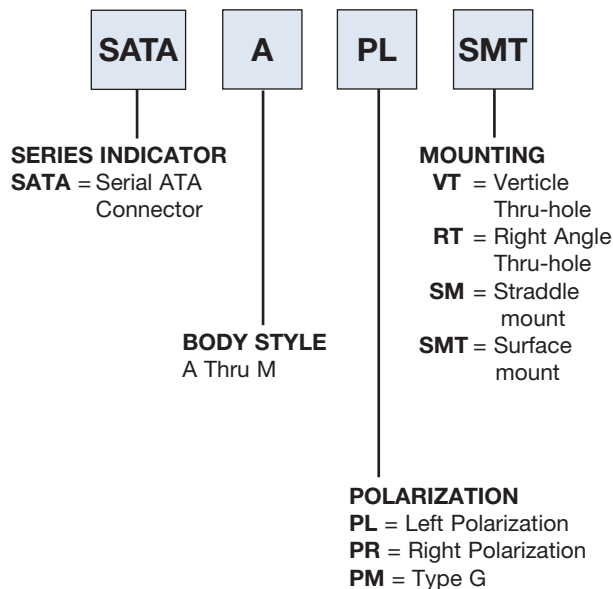
Anti-ESD plastic trays or tubes

**APPROVALS AND CERTIFICATIONS:**

UL Recognized File no. E224053



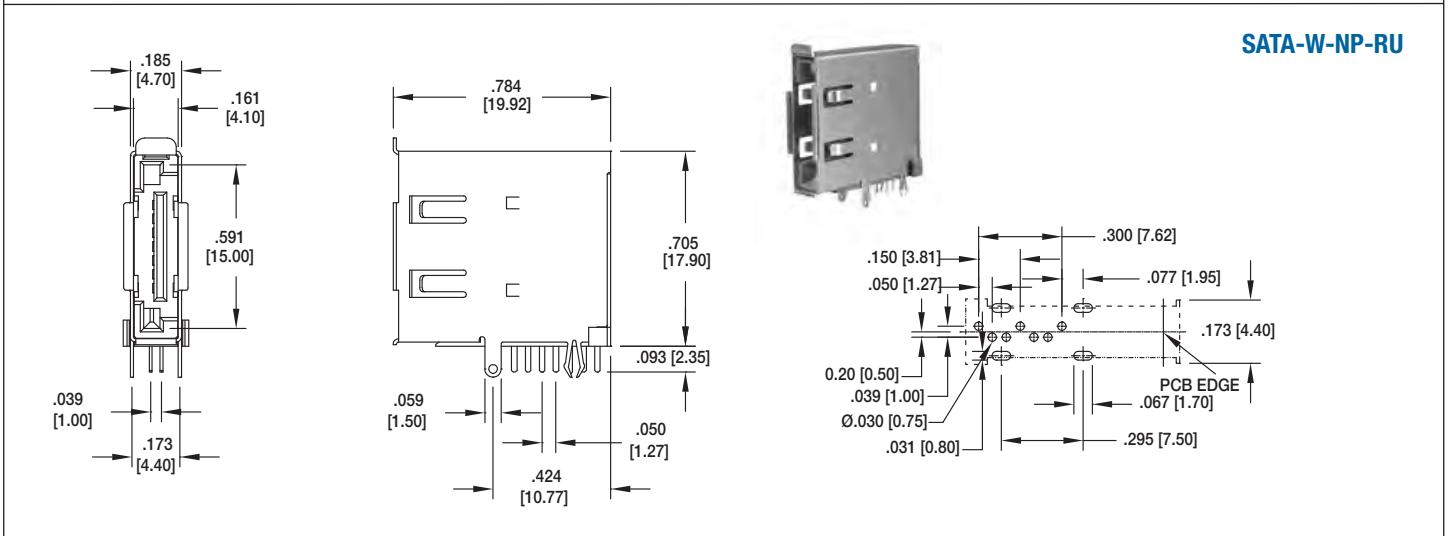
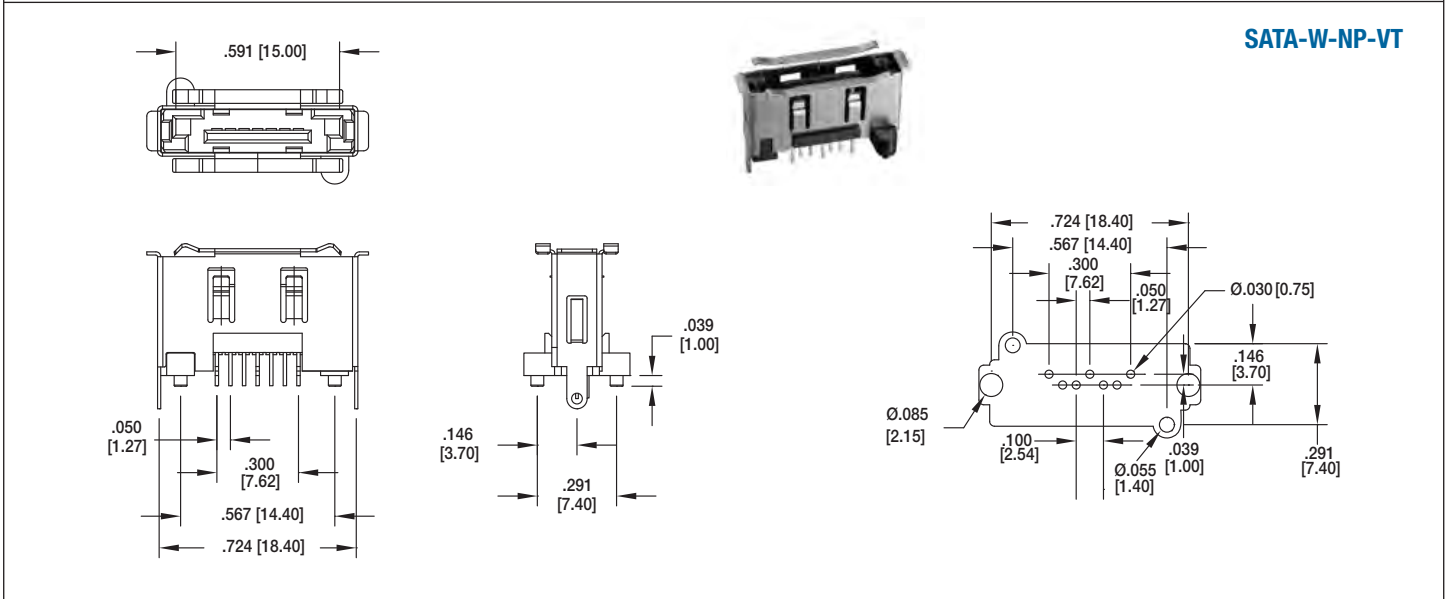
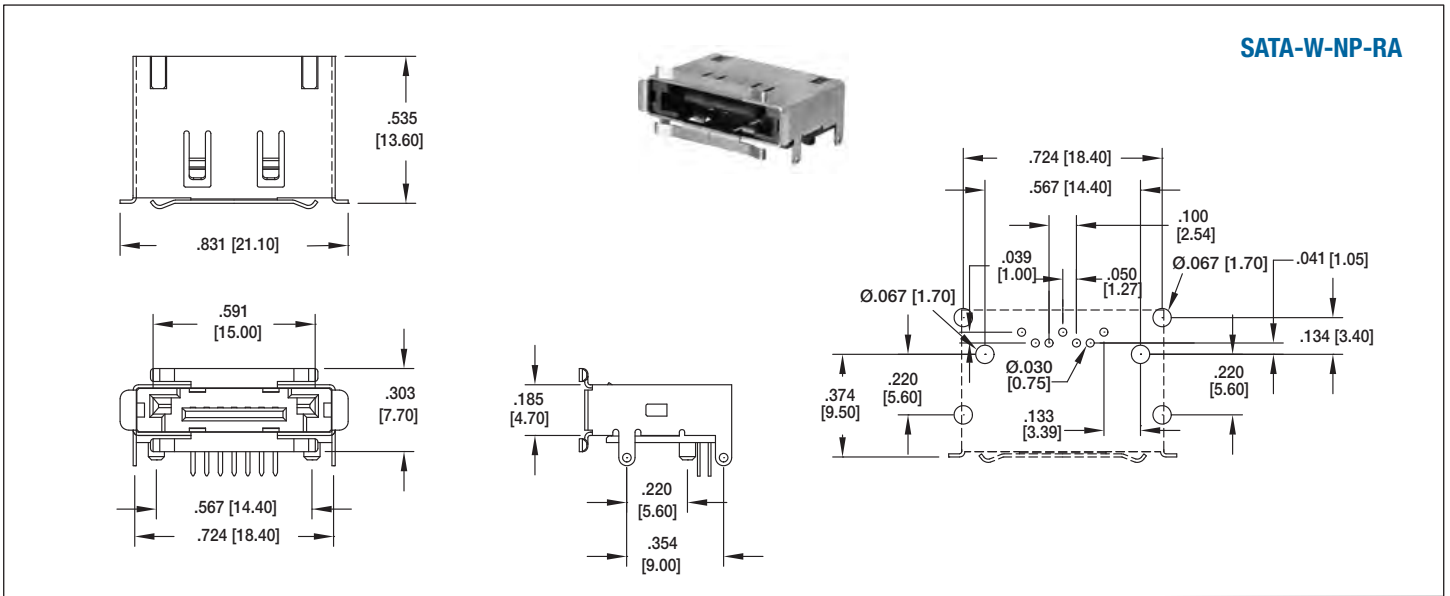
**ORDERING INFORMATION**



**OPTIONS:**

Add designator(s) to end of part number  
**K** = Key  
**S** = Side slots (type D)  
**30** = 30 μin gold plating in contact area  
**P** = Locating Pegs

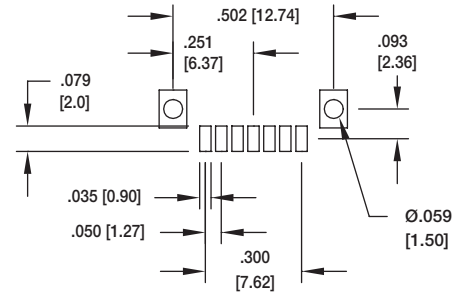
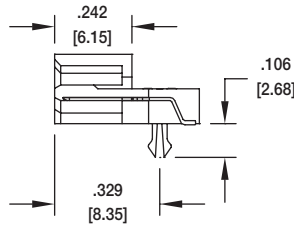
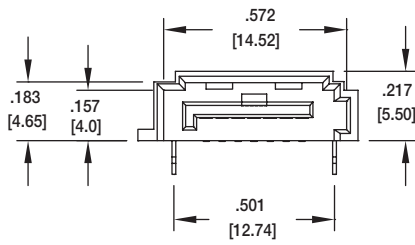
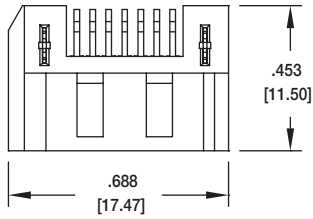




### SATA-A SINGLE R/A SMT



SATA-A-PL-SMT-K

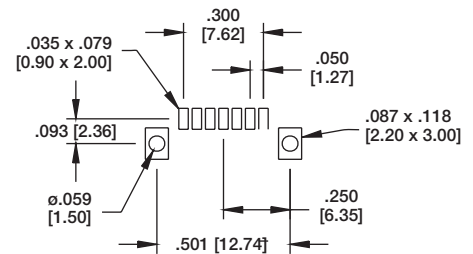
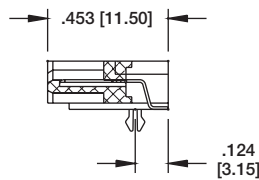
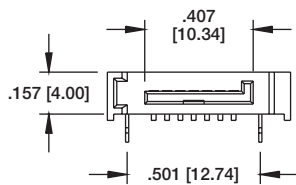
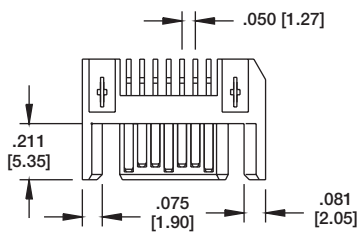


Recommended PCB Layout

### SATA-C SINGLE R/A SMT

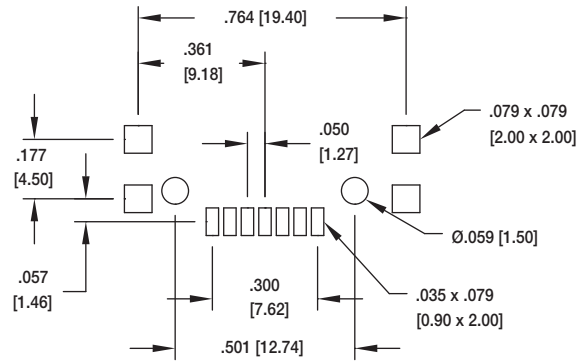
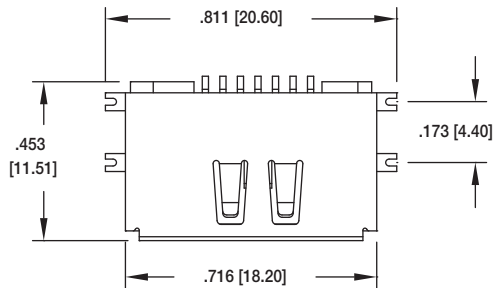


SATA-C-PR-SMT-K

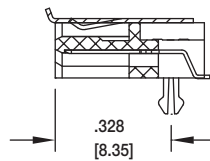
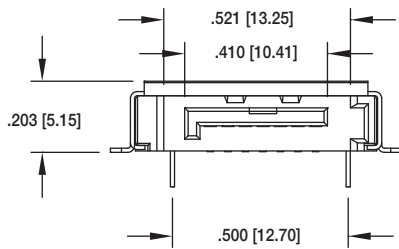


Recommended PCB Layout

## SATA-B SHIELDED, R/A, TRUE SMT

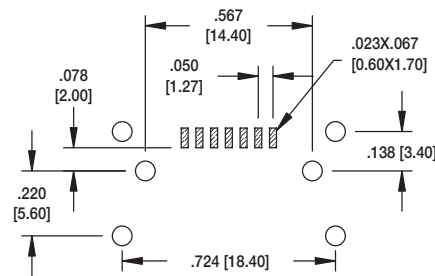
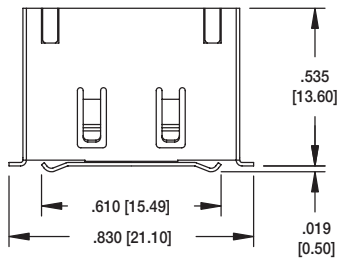


Recommended PCB Layout

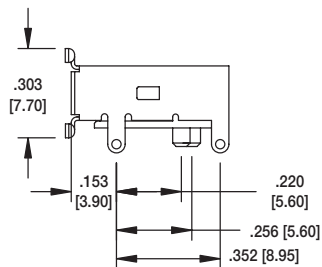
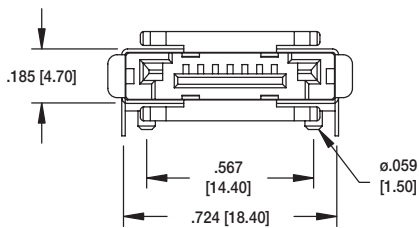


SATA-B-PL-SMT-K

## SATA-J SHIELDED, R/A, SMT

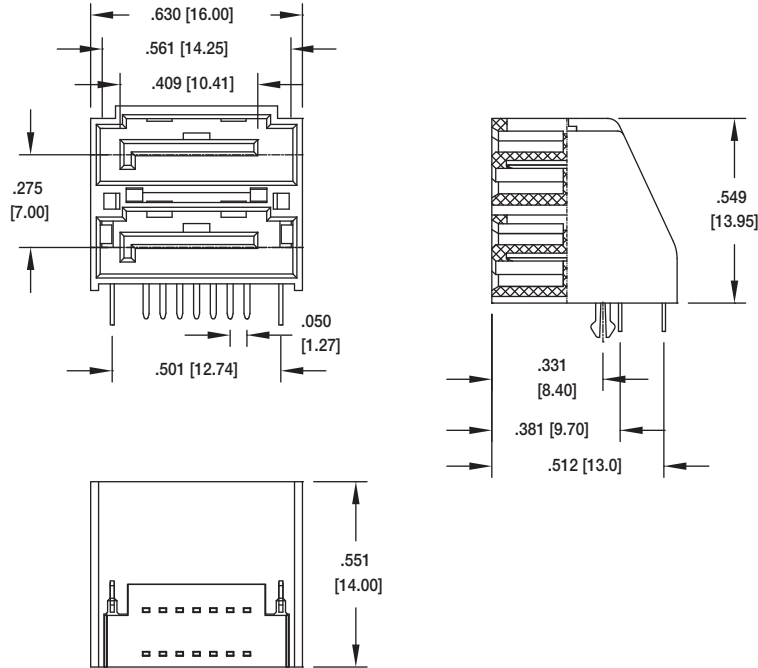


Recommended PCB Layout

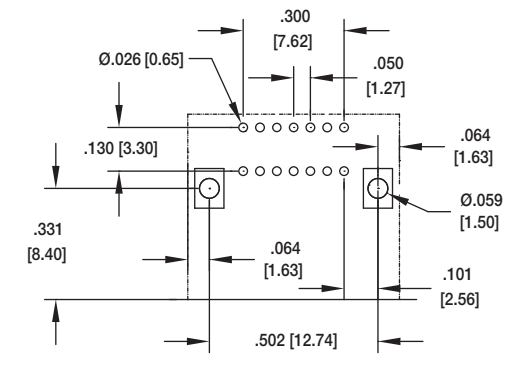


SATA-J-NP-SMT-P-S-PG

## SATA-D DUAL STACKED, SMT

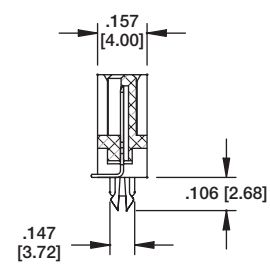
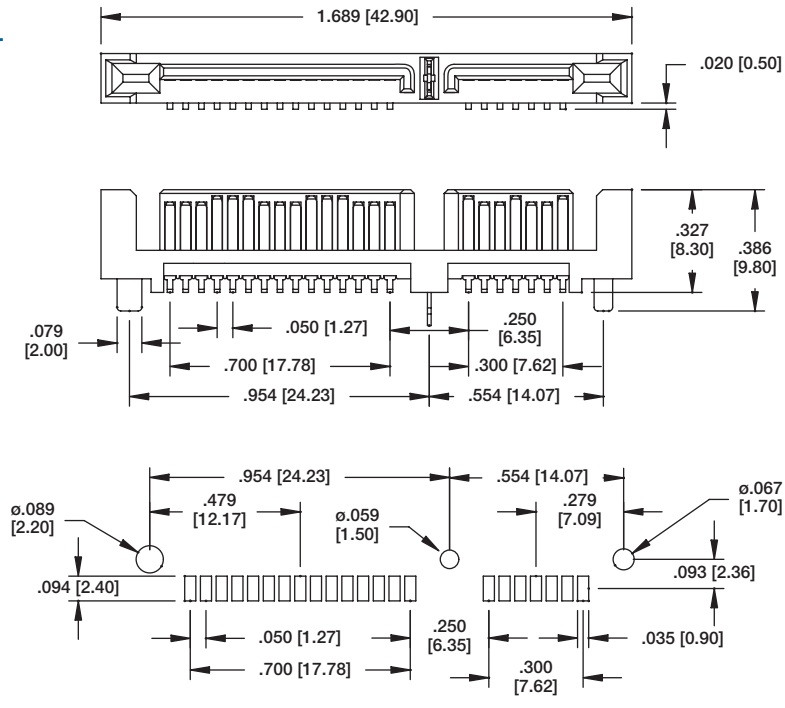


SATA-D-PL-RT



Recommended PCB Layout

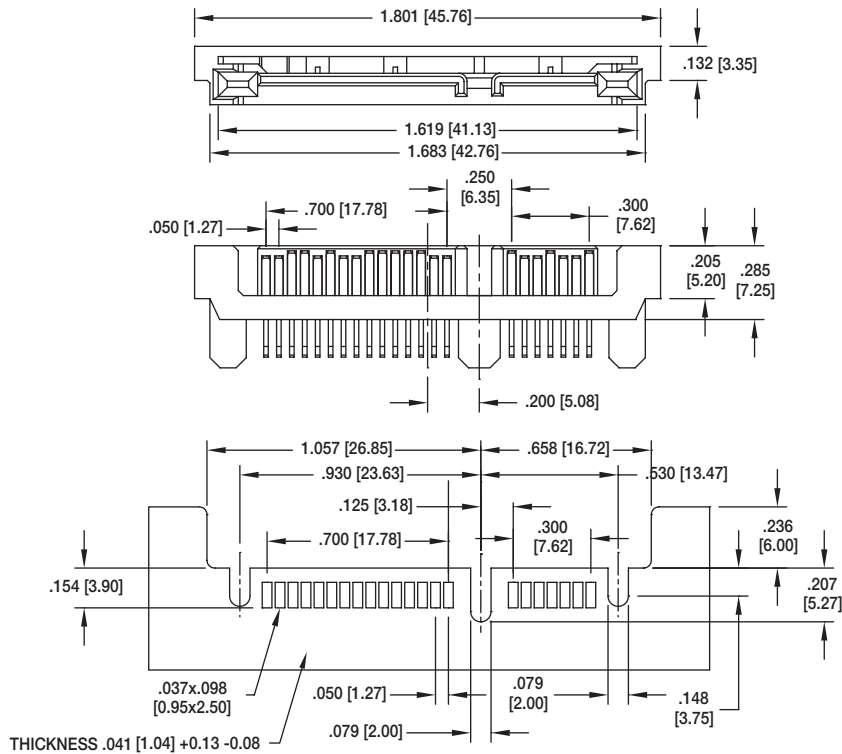
## SATA-G DUAL VERTICAL SMT



SATA-G-PM-SMT

Recommended PCB Layout

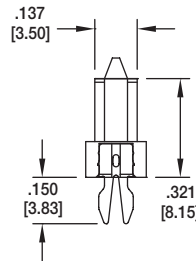
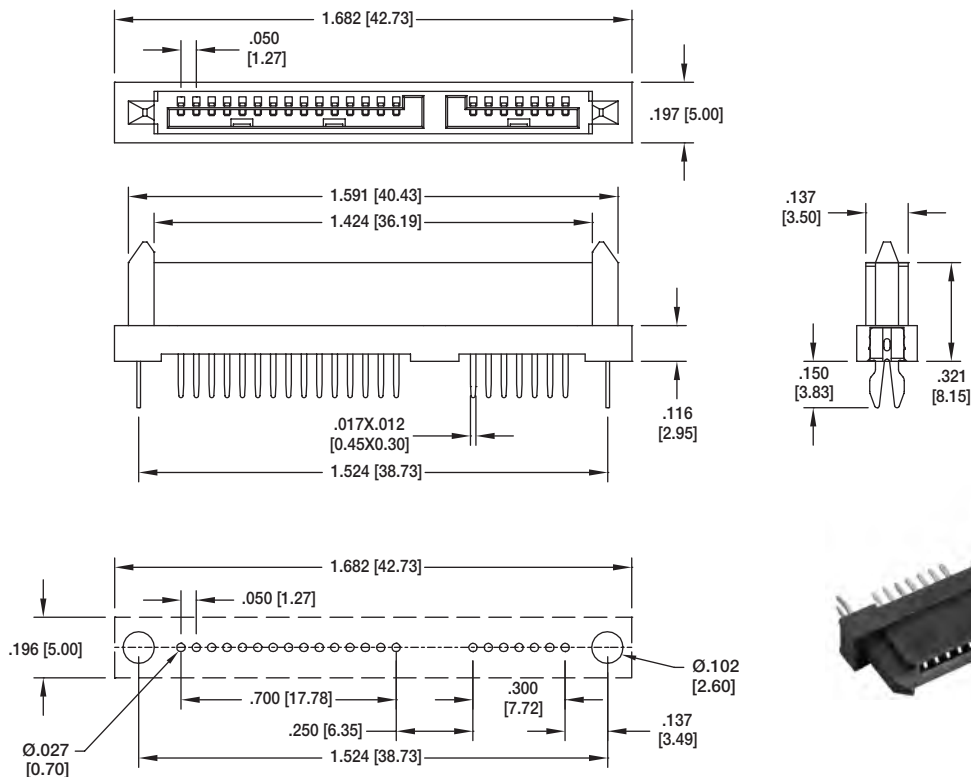
**SATA-M  
DUAL  
STRADDLE  
MOUNT**



**SATA-M-PM-SMT**

**Recommended PCB Layout**

**SATA-G  
DUAL VERTICAL  
THRU-HOLE**



**SATA-G-PM-VT**

**Recommended PCB Layout**

#### INTRODUCTION:

Adam Tech IEC & Mini IEC Series AC Inlets and Outlets are primary power receptacles designed, manufactured, tested and approved to UL, CSA, VDE and other applicable international specifications including IEC-60320 and CEE-22. Adam Tech offers a wide variety of body styles, shapes and orientations to accommodate most class I & II applications with two or three blade contacts in both IEC and Mini-IEC configurations. Mounting choices include screw holes and snap-in versions and four termination styles. Options of ganged ports or receptacle with integral fuse holder are also available.

#### FEATURES:

IEC & Mini-IEC types  
IEC-60320, CEE-22 Compliant  
UL, CSA and VDE approved  
Multitude of Body Styles  
Choice of terminations  
Option of Integral Fuse Holder

#### MATING CONNECTORS:

Adam Tech PC series power cords and all standard international IEC 60320 power supply cords.

#### SPECIFICATIONS:

##### Material:

Insulator: Polycarbonate or Nylon 66, glass filled, rated UL94V-0  
Insulator Color: Black  
Contacts: Phosphor Bronze or Brass

##### Plating:

Nickel over copper underplate. (Solder terminals: Tin over copper underplate)

##### Electrical:

Operating Voltage: 250V AC  
Current Rating: IEC - UL & CSA: 15 Amps Max,  
VDE: 10 Amps Max.  
Mini IEC - UL, CSA & VDE 2.5 Amps Max.  
Insulation Resistance: 100 MΩ Min. @ 500V DC  
Dielectric Withstanding Voltage: 2000V AC for 1 Minute

##### Temperature Rating:

Operation Temperature: -25°C ~ +70°C

##### PACKAGING:

Anti-ESD plastic trays

##### SAFETY AGENCY APPROVALS:

UL Recognized File Nos. E224051, E224052  
ENEC Approved European Norm Electrical Certification



### ORDERING INFORMATION

IEC	A	1	150
<b>SERIES INDICATOR</b> IEC = International inlet/outlet			
	<b>TERMINALS</b> 1 = .187" Quick-connect terminals 2 = .250" Quick-connect terminals 3 = Solder terminals .157" [4.0mm] 4 = Right Angle PCB mount 5 = Solder Terminals .098" [2.5mm]		<b>PANEL THICKNESS</b> (for body styles C, D & J only) <b>Blank</b> = Universal Snap <b>080</b> = 0.8mm Panel <b>120</b> = 1.2mm Panel <b>150</b> = 1.5mm Panel <b>200</b> = 2.0mm Panel <b>300</b> = 3.0mm Panel
	<b>BODY STYLE</b> A = Male Inlet, Screw-on panel mount B = Female Outlet, Screw-on panel mount C = Male Inlet, Snap-in panel mount D = Female Outlet, Snap-in panel mount E = Male Inlet, Right Angle PC board mount with mounting flange (Specify EW, EX, EY or EZ) F = Male Inlet, Screw on panel mount with 5 x 20mm fuse holder G = Male Inlet, Snap-in panel mount with 5 x 20mm fuse holder HS = Inlet/Outlet, snap-in panel mount HR = Inlet/outlet, snap-in panel mount, right angle PCB mount J = Male inlet, right angle PCB & tail with snap-in panel mounting NA = Mini-IEC right angle, snap-in NB = Mini-IEC right angle, slide-in NB-A = Mini-IEC right angle, slide-in with pegs NC = Mini-IEC right angle, with flush flange NC-A = Mini-IEC right angle, with extended face ND = Mini-IEC right angle, with enclosed body NF = Mini-IEC right angle, polarized with flange NH = Mini-IEC right angle, with ground pin NH-A = Mini-IEC right angle, flange mount with ground pin GS = Fused inlet with switch snap in panel mount FS = Fused inlet with switch screw on panel mount M = Female outlet, 20 AMP, Flanged N = Male inlet, 20 AMP, Snap-In		

#### BODY STYLE

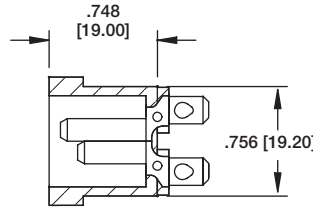
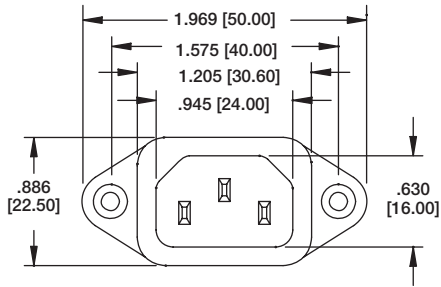
- A = Male Inlet, Screw-on panel mount
- B = Female Outlet, Screw-on panel mount
- C = Male Inlet, Snap-in panel mount
- D = Female Outlet, Snap-in panel mount
- E = Male Inlet, Right Angle PC board mount with mounting flange (Specify EW, EX, EY or EZ)
- F = Male Inlet, Screw on panel mount with 5 x 20mm fuse holder
- G = Male Inlet, Snap-in panel mount with 5 x 20mm fuse holder
- HS = Inlet/Outlet, snap-in panel mount
- HR = Inlet/outlet, snap-in panel mount, right angle PCB mount
- J = Male inlet, right angle PCB & tail with snap-in panel mounting
- NA = Mini-IEC right angle, snap-in
- NB = Mini-IEC right angle, slide-in
- NB-A = Mini-IEC right angle, slide-in with pegs
- NC = Mini-IEC right angle, with flush flange
- NC-A = Mini-IEC right angle, with extended face
- ND = Mini-IEC right angle, with enclosed body
- NF = Mini-IEC right angle, polarized with flange
- NH = Mini-IEC right angle, with ground pin
- NH-A = Mini-IEC right angle, flange mount with ground pin
- GS = Fused inlet with switch snap in panel mount
- FS = Fused inlet with switch screw on panel mount
- M = Female outlet, 20 AMP, Flanged
- N = Male inlet, 20 AMP, Snap-In

#### OPTIONS:

K = Keyed for 120° C (Body Styles A, C, E & J)

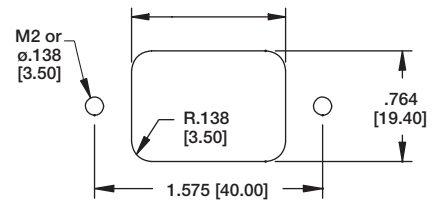
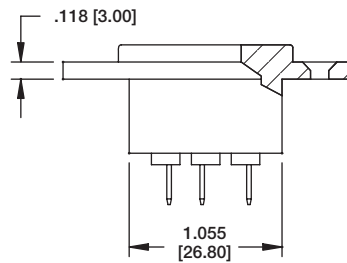


#### IEC-A SCREW ON PANEL MOUNT



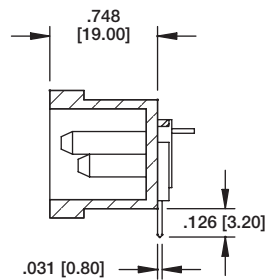
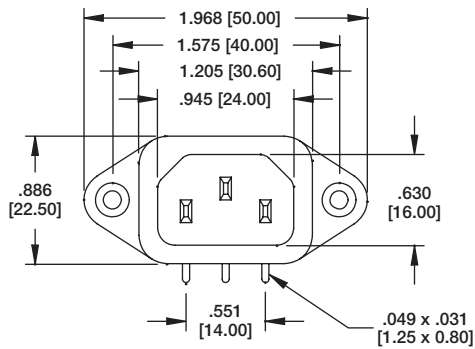
**IEC-A-1**

1.075 [27.30] Front Mounting  
1.212 [30.80] Rear Mounting

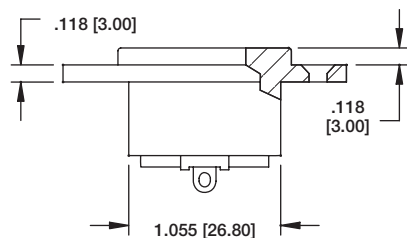


TERMINAL OPTIONS			
1	2	3	5
.187 Q.C.	.250 Q.C.	.157 Solder	.098 Solder

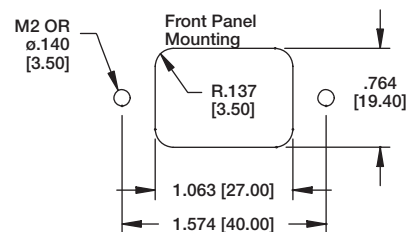
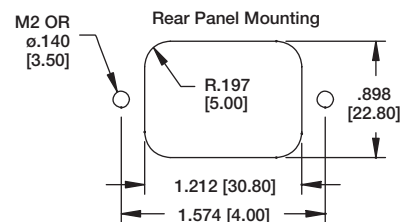
#### IEC-A SCREW ON PANEL RIGHT ANGLE PCB MOUNT



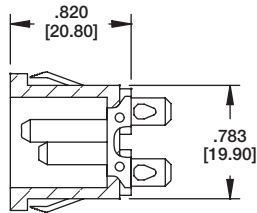
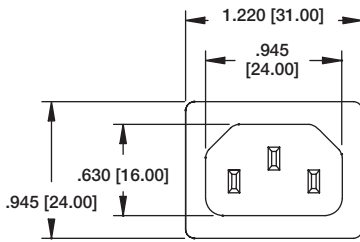
**IEC-A-4**



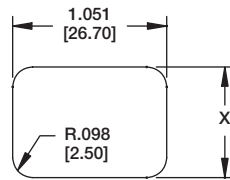
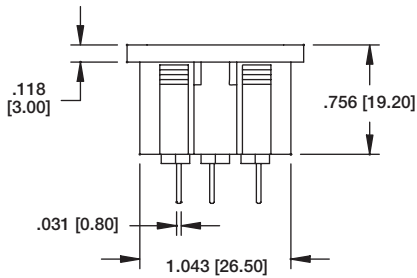
**Recommended  
PCB Layout**



#### IEC-C UNIVERSAL PANEL SNAP



IEC-C-1

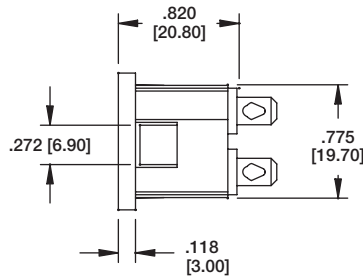
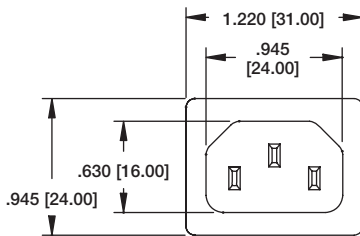


Recommended Panel  
Thickness: 0.8mm - 3.0mm

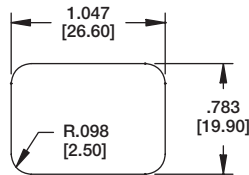
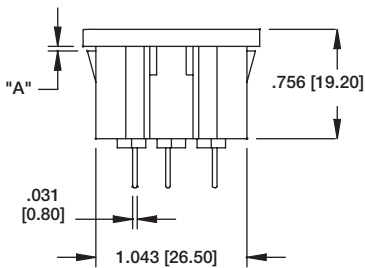
PANEL THICKNESS	DIM X
.031-.039 [0.8-1.0]	.780 [19.8]
.039-.059 [1.0-1.5]	.784 [19.9]
.079-.119 [2.0-3.0]	.788 [20.0]

TERMINAL OPTIONS			
1	2	3	5
.187 Q.C.	.250 Q.C.	.157 Solder	.098 Solder

#### IEC-C DEDICATED PANEL SNAP



IEC-C-1-150



Recommended Panel Cut-Out

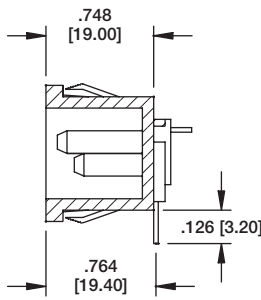
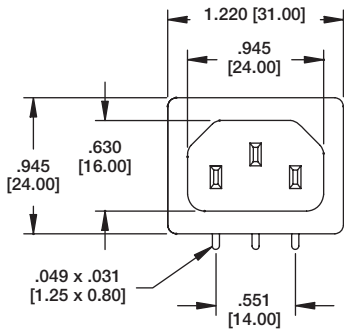
PANEL THICKNESS	PART NUMBER	DIM "A"
0.8mm	IEC-C-X-080	.031 [0.80]
1.5mm	IEC-C-X-150	.059 [1.50]
3.0mm	IEC-C-X-300	.118 [3.00]
4.0mm	IEC-C-X-400	.157 [4.00]

Replace X with terminal option below

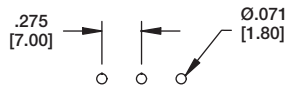
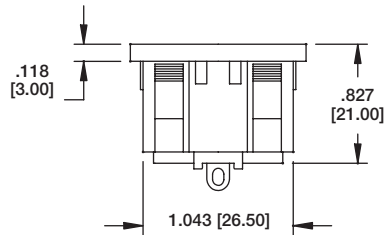
TERMINAL OPTIONS			
1	2	3	5
.187 Q.C.	.250 Q.C.	.157 Solder	.098 Solder

#### IEC-J

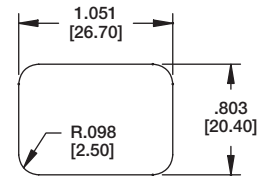
#### UNIVERSAL PANEL SNAP RIGHT ANGLE PCB MOUNT



IEC-J-4



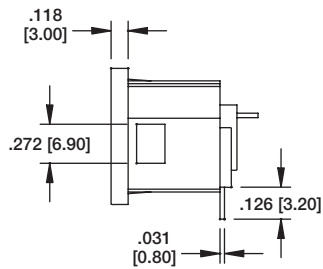
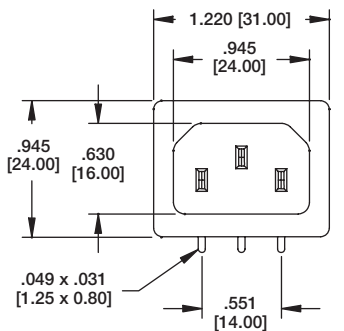
Recommended PCB  
Layout



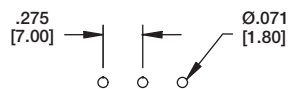
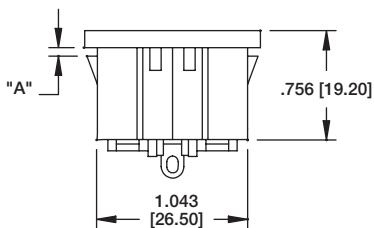
Recommended Panel  
Thickness: 0.80 - 3.0mm

#### IEC-J

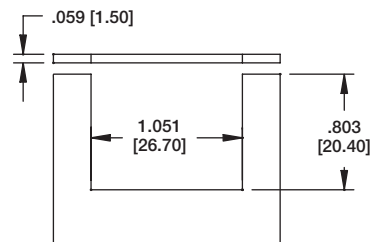
#### DEDICATED PANEL SNAP RIGHT ANGLE PCB MOUNT



IEC-J-4-150



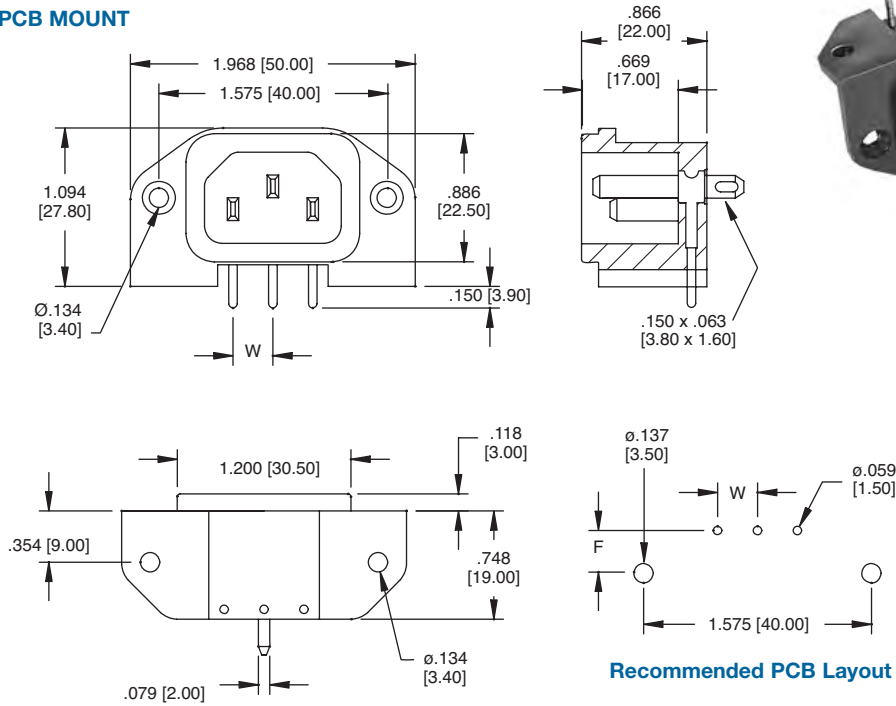
Recommended PCB  
Layout



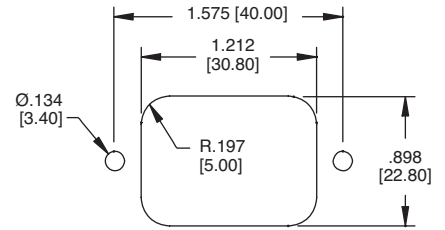
Recommended Panel Cut-Out

PANEL THICKNESS	PART NUMBER	DIM "A"
0.8mm	IEC-J-4-120	.047 [1.20]
1.5mm	IEC-J-4-150	.059 [1.50]
3.0mm	IEC-J-4-200	.079 [2.00]
4.0mm	IEC-J-4-300	.118 [3.00]

### IEC-E FLANGED RIGHT ANGLE PCB MOUNT



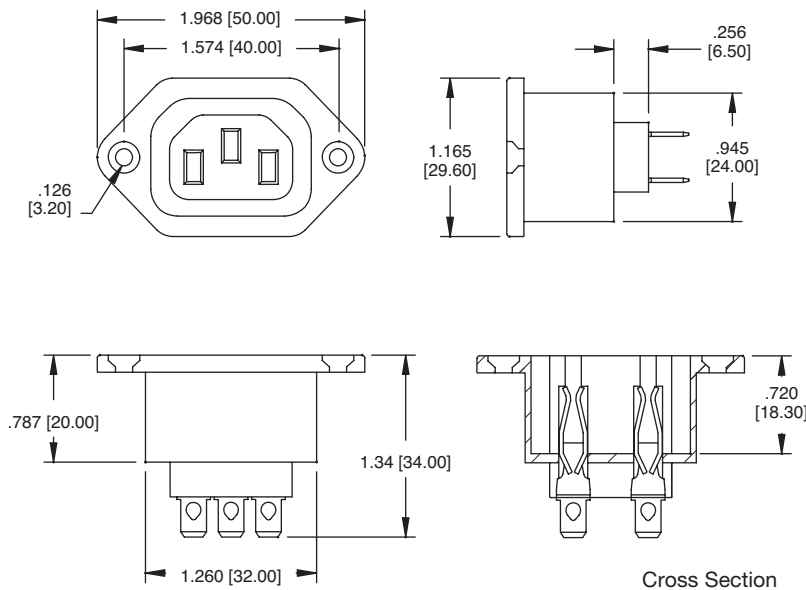
**IEC-EW-4**



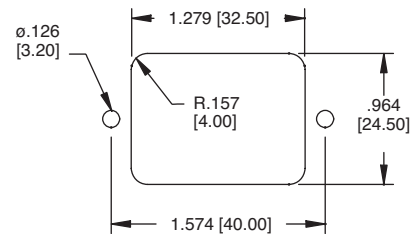
**Recommended Panel Cut-Out**

DIMENSIONAL		
PART NO.	F	W
IEC-EW	.287 [7.30]	.276 [7.00]
IEC-EX	.287 [7.30]	.358 [9.10]
IEC-EY	.382 [9.70]	.276 [7.00]
IEC-EZ	.382 [9.70]	.358 [9.10]

### IEC-B FLANGED SCREW ON PANEL MOUNT



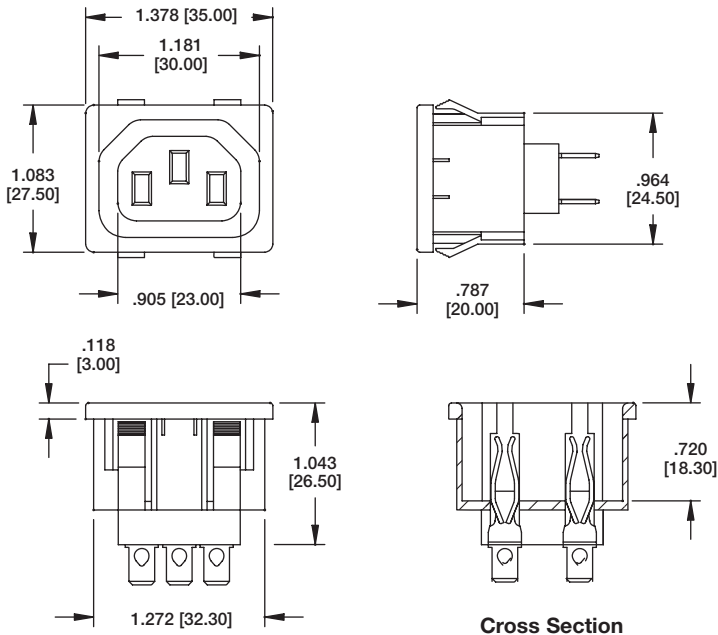
**IEC-B-1**



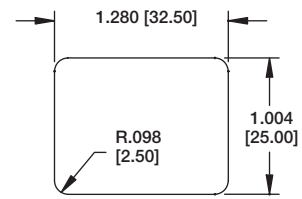
**Recommended Panel Cut-Out**

TERMINAL OPTIONS		
1	2	3
.187 Q.C.	.250 Q.C.	.157 Solder

#### IEC-D UNIVERSAL PANEL SNAP

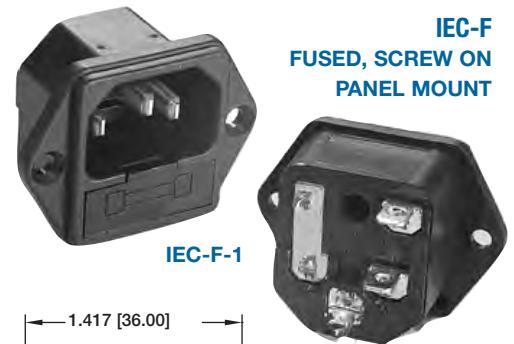
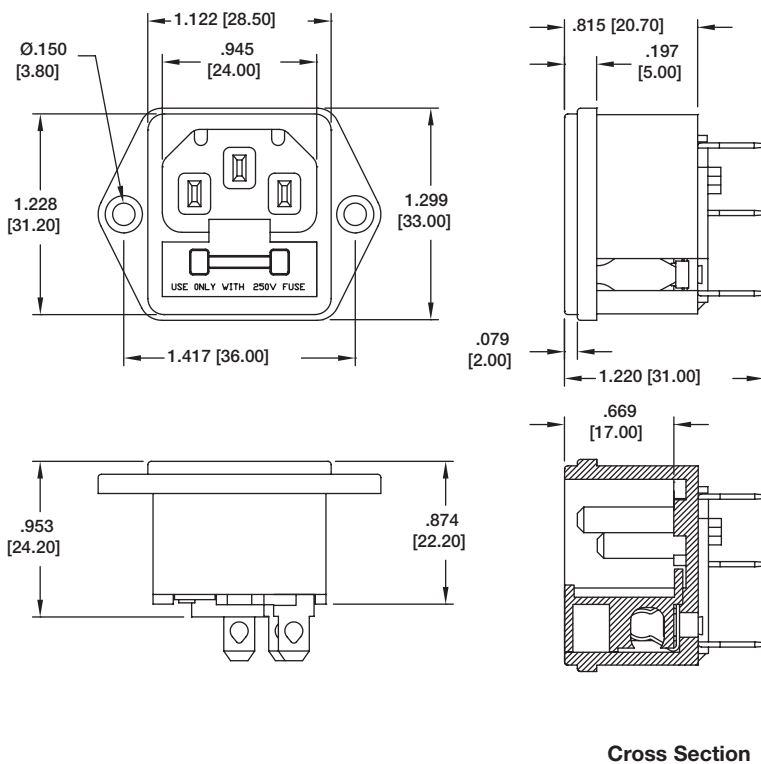


IEC-D-1



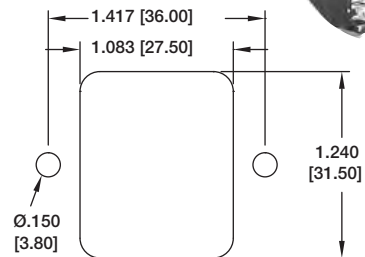
Recommended Panel Thickness:  
0.8mm - 3.0mm

TERMINAL OPTIONS		
1	2	3
.187 Q.C.	.250 Q.C.	.157 Solder



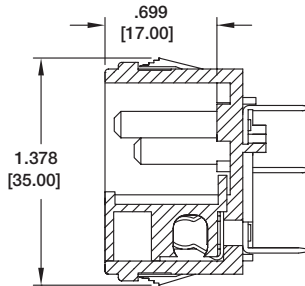
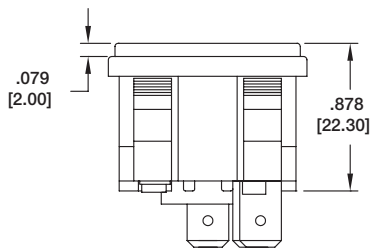
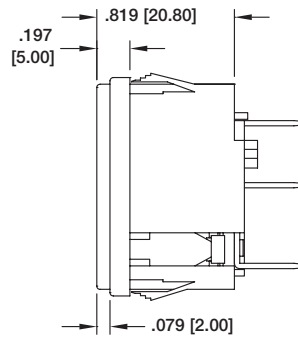
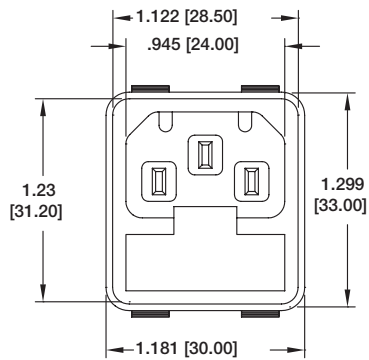
#### IEC-F FUSED, SCREW ON PANEL MOUNT

IEC-F-1



Recommended Panel Cut-Out

TERMINAL OPTIONS	
1	2
.187 Q.C.	.250 Q.C.



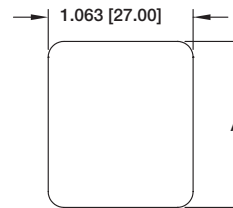
Cross Section

PANEL THICKNESS	DIM X
.031-.071 [0.8-1.8]	1.240 [31.50]
.075-.126 [1.9-3.2]	1.248 [31.70]



IEC-G-1

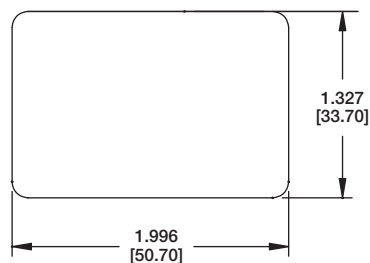
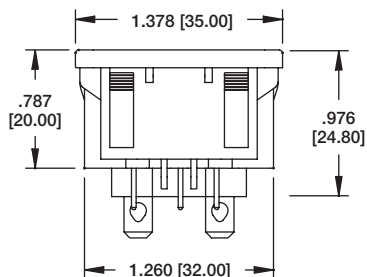
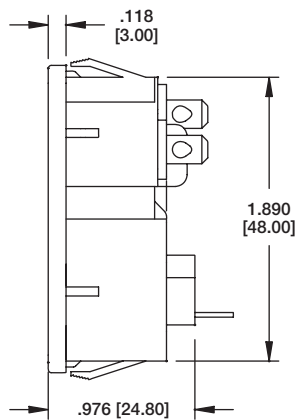
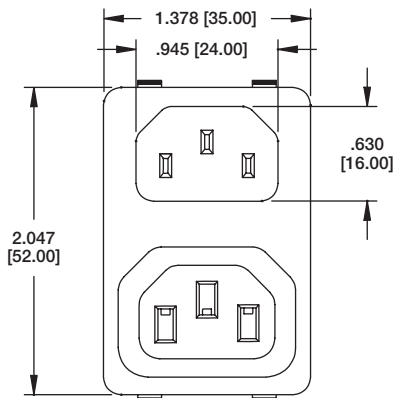
**IEC-G**  
FUSED WITH UNIVERSAL  
PANEL SNAP



PANEL THICKNESS	DIMENSIONS	
	A	
.031-.071 [0.80-1.80]	1.240 [31.50]	
.075-.126 [1.90-3.20]	1.248 [31.70]	

Recommended Panel Cut-Out

TERMINAL OPTIONS		
1	2	5
.187 Q.C.	.250 Q.C.	.157 Solder



Recommended Panel Cut-Out

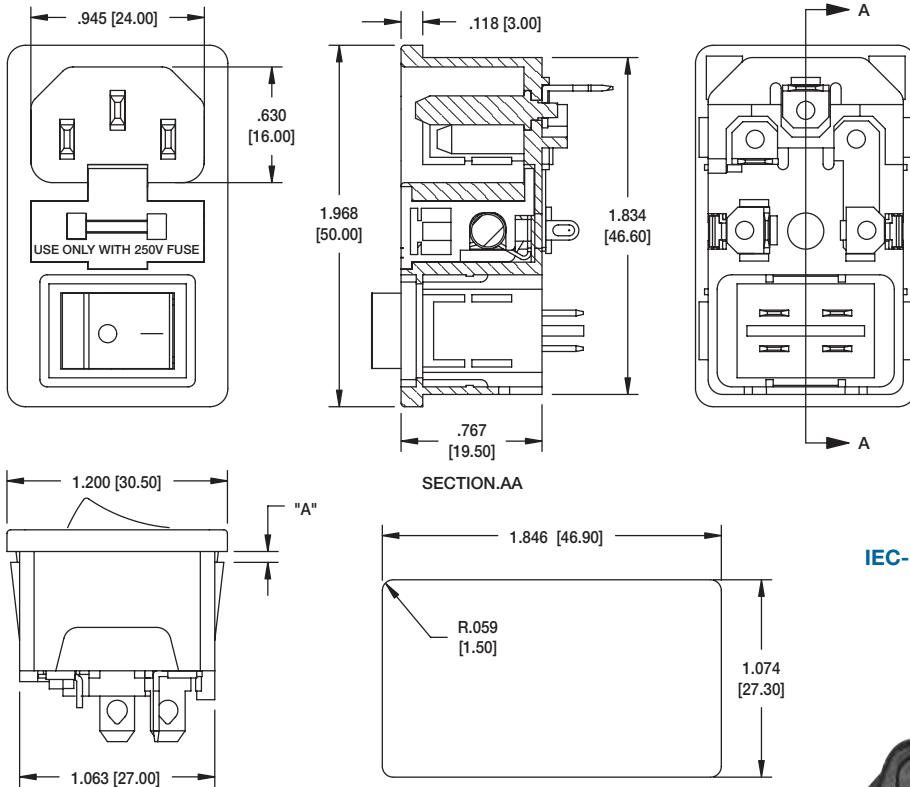
**IEC-HS**  
FUSED INLET & OUTLET  
WITH UNIVERSAL  
PANEL SNAP



IEC-HS-1

#### IEC-GS-1

#### FUSED INLET WITH SWITCH, SNAP IN PANEL MOUNT



PART NUMBER	DIM "A"
IEC-GS-1-100	.039 [1.00]
IEC-GS-1-150	.059 [1.50]
IEC-GS-1-200	.079 [2.00]



IEC-GS-1-100

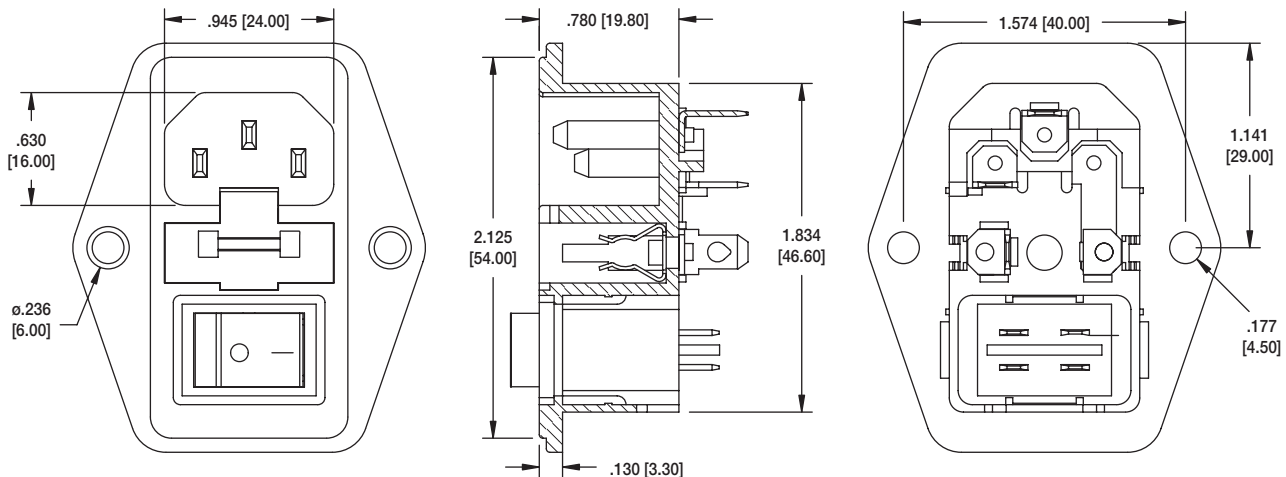
Recommended Panel Cut-Out



IEC-FS-1

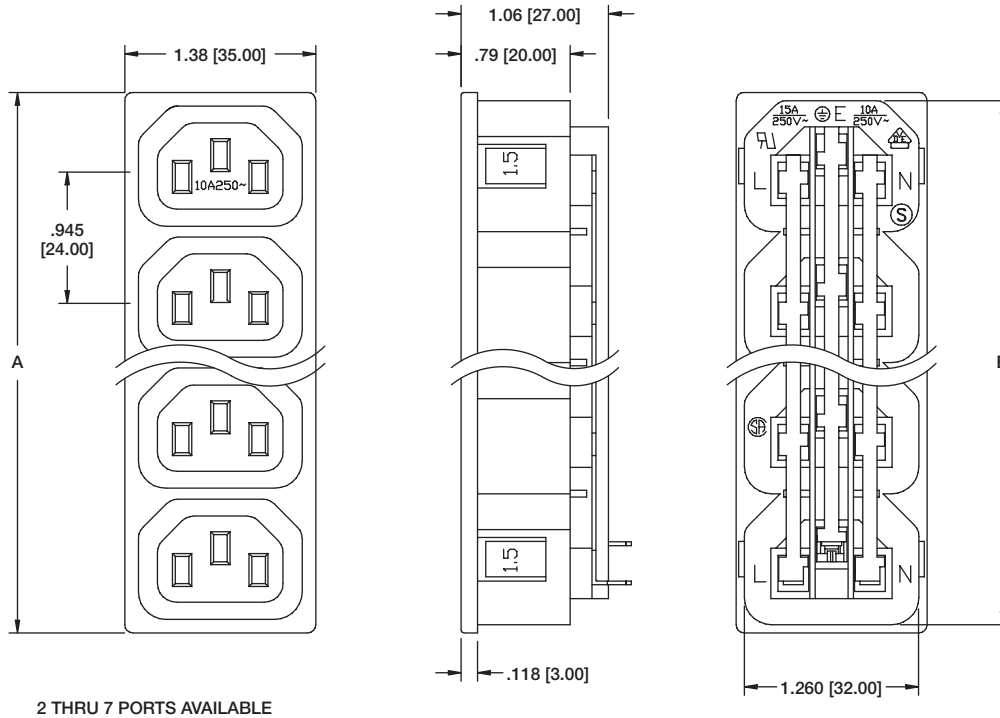
#### IEC-FS-1

FUSED INLET WITH SWITCH,  
SCREW ON PANEL MOUNT

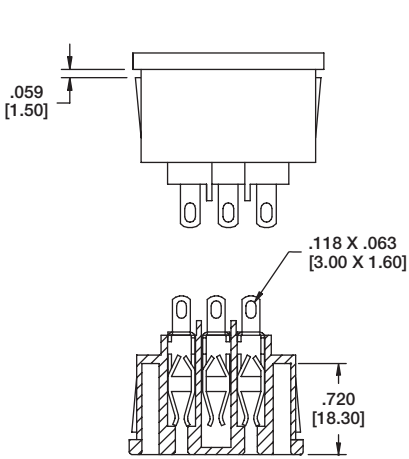




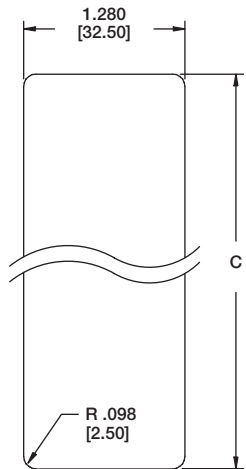
**IEC-D-S**  
**STACKED OUTLETS WITH**  
**DEDICATED PANEL SNAPS**



2 THRU 7 PORTS AVAILABLE



Cross Section



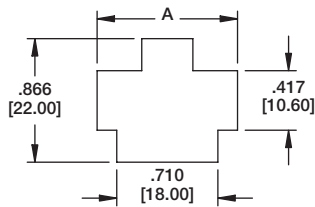
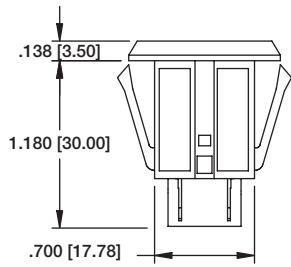
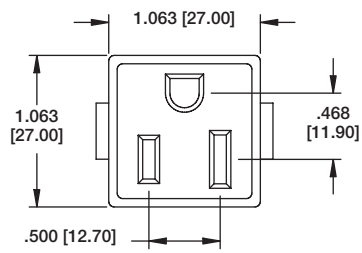
Recommended Panel Cut-Out



IEC-D-S4-150

DIMENSIONS				
PART NUMBER	PORTS	A	B	C
IEC-D-S2-150	2	2.007 [51.00]	1.890 [48.00]	1.901 [48.30]
IEC-D-S3-150	3	2.953 [75.00]	2.835 [72.00]	2.846 [72.30]
IEC-D-S4-150	4	3.897 [99.00]	3.780 [96.00]	3.791 [96.30]
IEC-D-S5-150	5	4.842 [123.00]	4.724 [120.00]	4.736 [120.30]
IEC-D-S6-150	6	5.787 [147.00]	5.670 [144.00]	5.681 [144.30]
IEC-D-S7-150	7	6.732 [171.00]	6.614 [168.00]	6.626 [168.30]

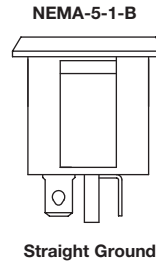
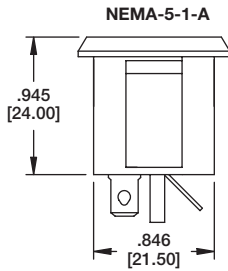
\*PART NUMBERS SHOWN ARE FOR 1.5mm PANEL THICKNESS. CONSULT FACTORY FOR OTHER PANEL THICKNESSES REQUIREMENTS



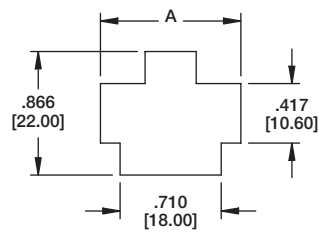
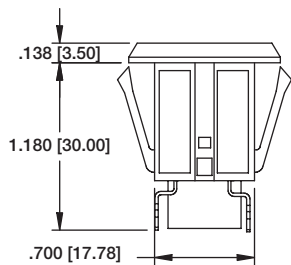
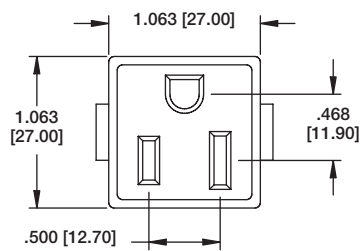
Recommended Panel Cut-Out For  
1.50mm Panel Thickness

PANEL THICKNESS	DIM. A
.031 [0.80]	.945 [24.00]
.039 [1.00]	.968 [24.60]
.047 [1.20]	.992 [25.20]
.063 [1.60]	1.031 [26.20]

**NEMA-5-1-A  
UNIVERSAL  
PANEL SNAP**

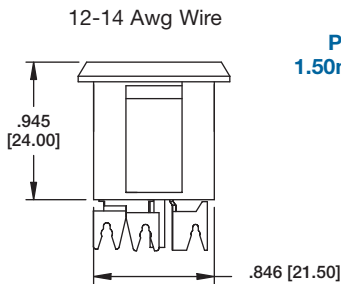


**NEMA-5-1**

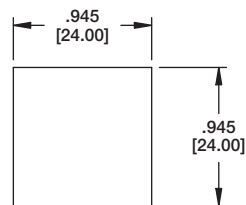
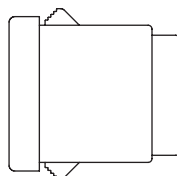
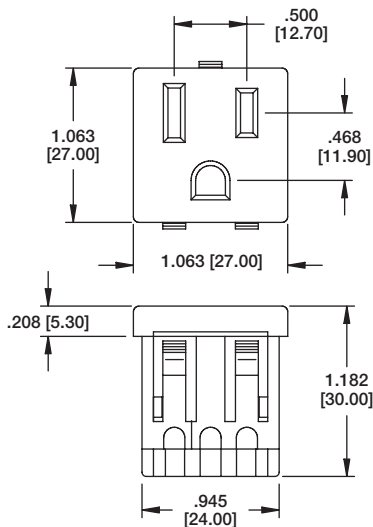


Recommended  
Panel Cut-Out For  
1.50mm Panel Thickness

**NEMA-5-2  
UNIVERSAL  
PANEL SNAP**



**NEMA-5-2**



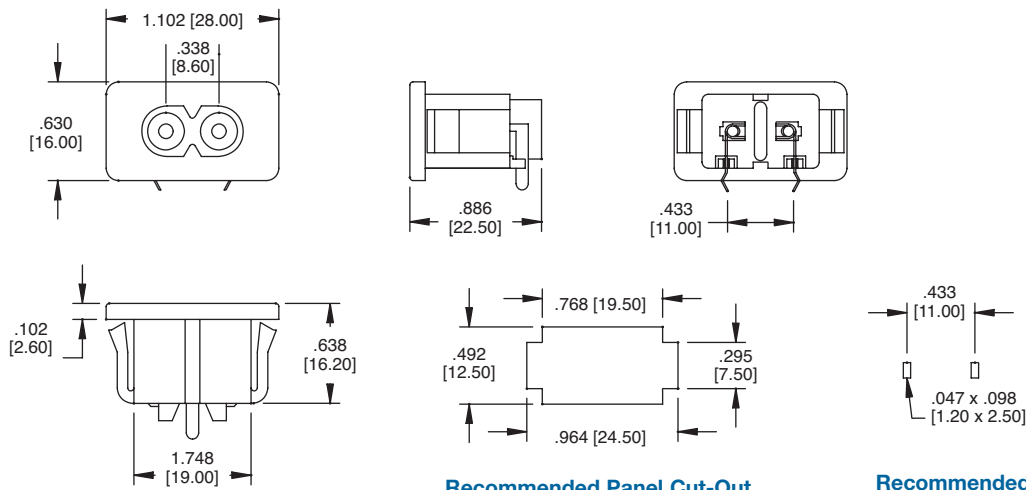
Recommended Panel Cut-Out For  
Panel 0.8mm - 1.50mm

**NEMA-5-3  
UNIVERSAL  
PANEL SNAP**



**NEMA-5-3**

#### IEC-NA-4 UNIVERSAL PANEL SNAP

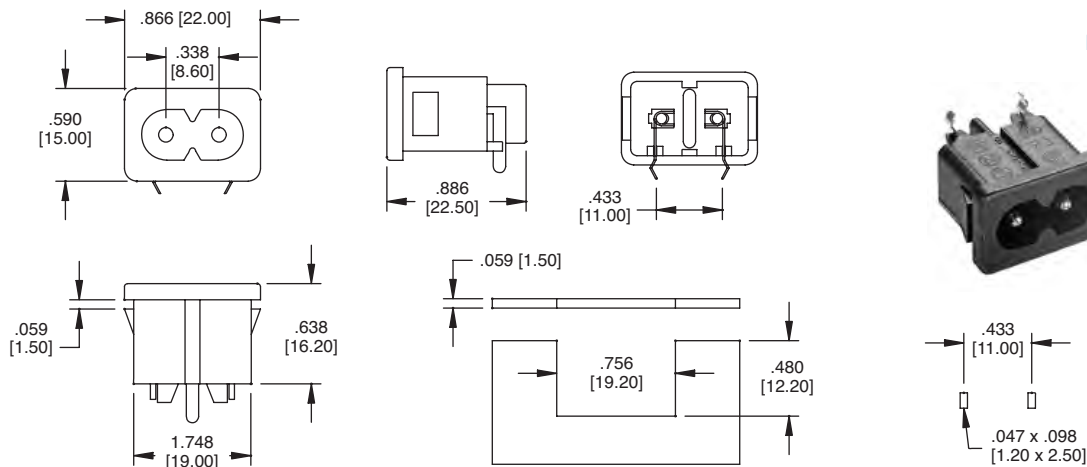


Recommended Panel Cut-Out

Recommended PCB Layout



#### IEC-NB-4 DEDICATED PANEL SNAP

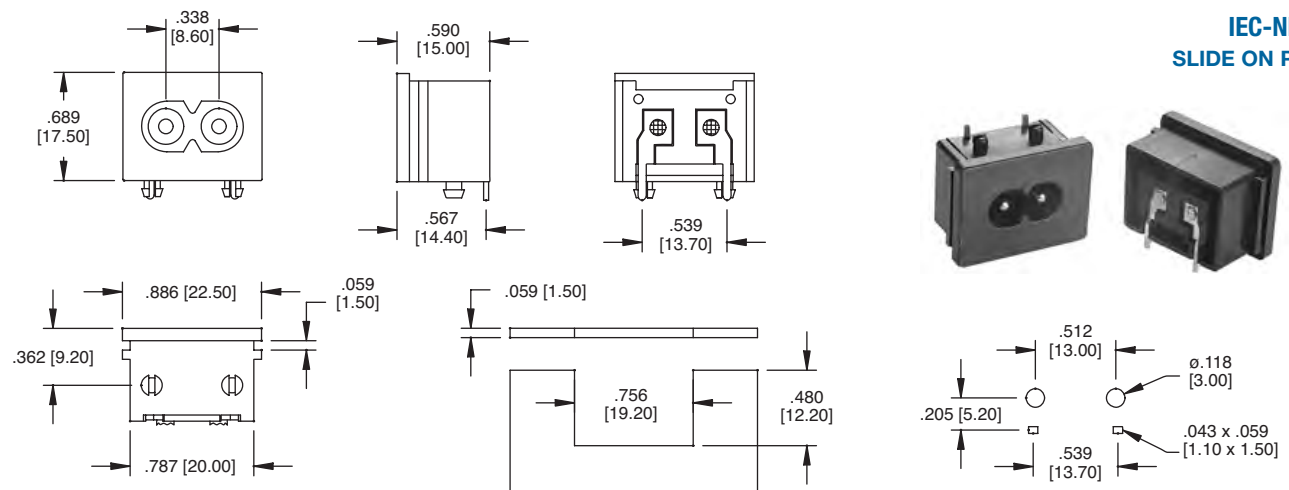


Recommended Panel Cut-Out

Recommended PCB Layout



#### IEC-NB-A-4 SLIDE ON PANEL

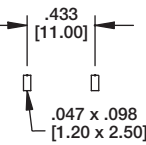
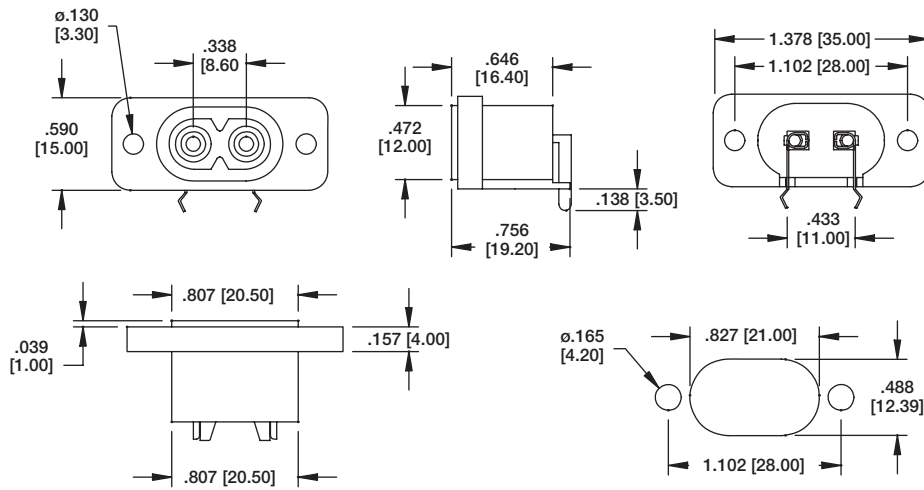


Recommended Panel Cut-Out

Recommended PCB Layout



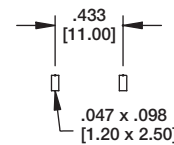
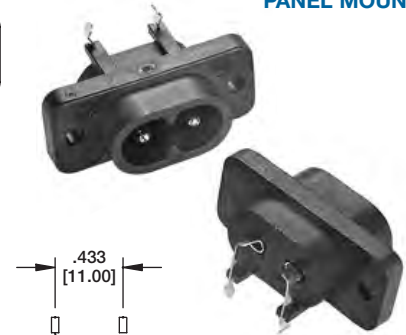
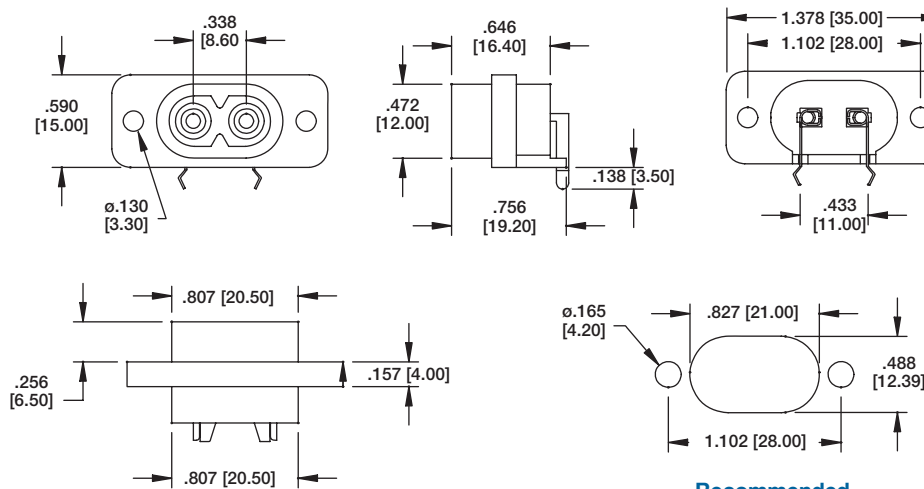
#### IEC-NC-4 RIGHT ANGLE PANEL MOUNT



Recommended  
PCB Layout

Recommended  
Panel Cut-Out

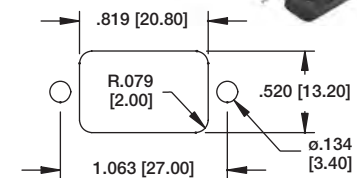
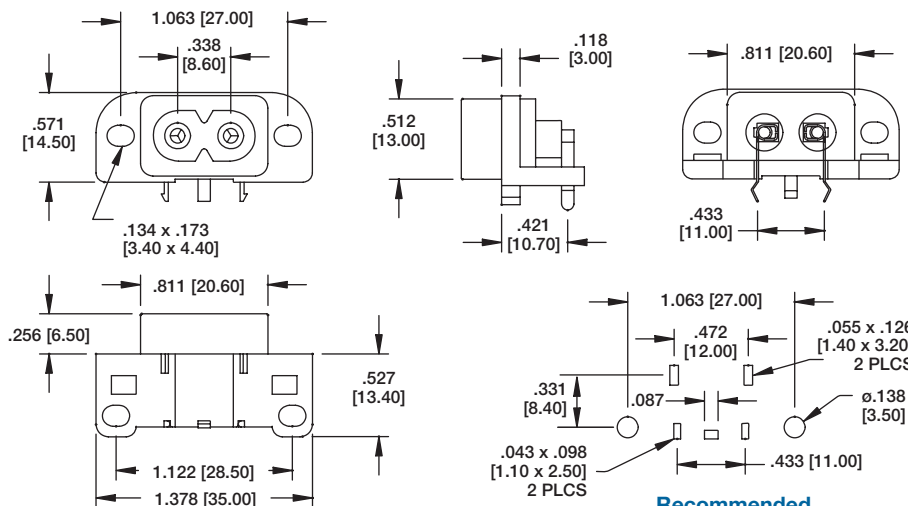
#### IEC-NC-A-4 RIGHT ANGLE PANEL MOUNT



Recommended  
PCB Layout

Recommended  
Panel Cut-Out

#### IEC-ND-4 RIGHT ANGLE PANEL MOUNT



Recommended  
PCB Layout

Recommended  
Panel Cut-Out

Technical drawings for IEC-NF-4 showing front, side, and PCB layout views with dimensions in inches and millimeters.

**Recommended PCB Layout**

**Recommended Panel Cut-Out**

**IEC-NF-4**  
**RIGHT ANGLE**  
**PANEL MOUNT**

Technical drawings for IEC-NH-4 showing front, side, and PCB layout views with dimensions in inches and millimeters.

**Recommended PCB Layout**

**Recommended Panel Cut-Out**

**IEC-NH-4**  
**RIGHT ANGLE**  
**SLIDE ON PANEL**

Technical drawings for IEC-NH-A-4 showing front, side, and PCB layout views with dimensions in inches and millimeters.

**Recommended PCB Layout**

**Recommended Panel Cut-Out**

**IEC-NH-A-4**  
**RIGHT ANGLE**  
**SCREW ON PANEL MOUNT**

#### INTRODUCTION:

Adam Tech PLF Series is a complete range of Power Line Filters designed for use in electric equipment that needs to meet FCC and other worldwide agency requirements for EMI/RFI emissions. This series offers numerous termination styles and levels of filtering and circuit protection for specific applications. Included are chassis mount, chassis mount with IEC Power Connector, panel mount and power entry modules with integral fuse and or switch.

#### FEATURES:

Modules offer compact space and cost effectiveness  
Meets low leakage requirements  
Superior common mode and differential mode attenuation.

#### MATING CONNECTORS:

Adam Tech PC series power cords and all international IEC 60320 power supply cords.

#### SPECIFICATIONS:

##### Material:

Insulator: Polycarbonate or Nylon 66, glass filled, rated UL94V-0  
Insulator Color: Black  
Contacts: Phosphor Bronze  
Casing: Thermoplastic rated UL94V-0 or Copper Alloy, nickel plated

##### Terminal Plating:

Quick connect: Nickel over copper underplate  
Solder terminals: Tin over copper underplate  
PC Pins: Tin over copper underplate

##### Electrical:

Operation Voltage: 120 / 250V AC  
Current Rating: UL & CSA: 15 Amps Max,  
VDE: 10 Amps Max.  
Insulation Resistance: 3000 MΩ Min.  
Dielectric Withstanding Voltage: 1500V AC for 1 Minute  
Leakage Current: 0.5mA Max 250V, 50Hz

##### Temperature Rating:

Operation Temperature: -25°C to +70°C

##### PACKAGING:

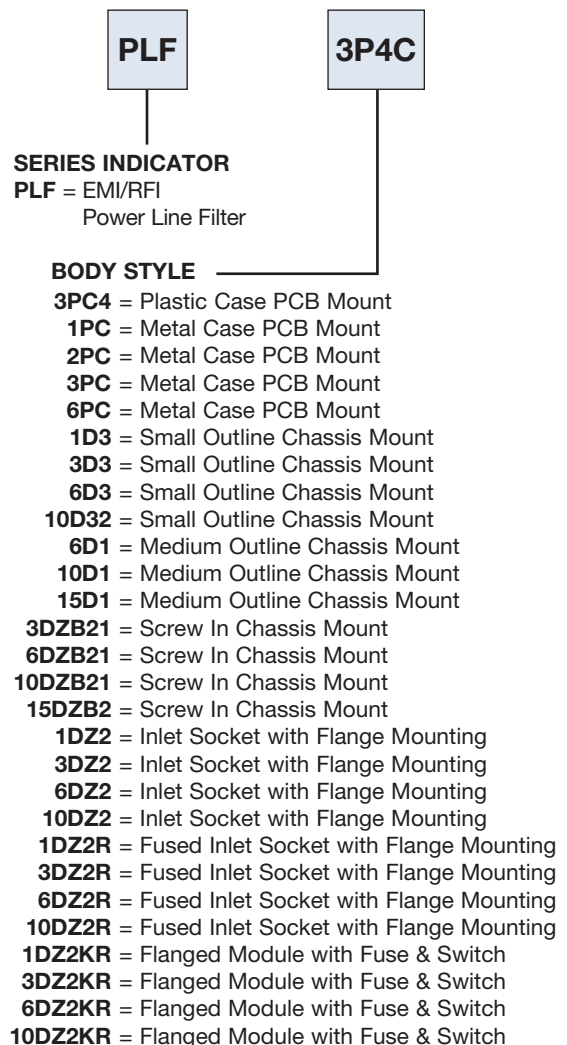
Anti-ESD plastic trays

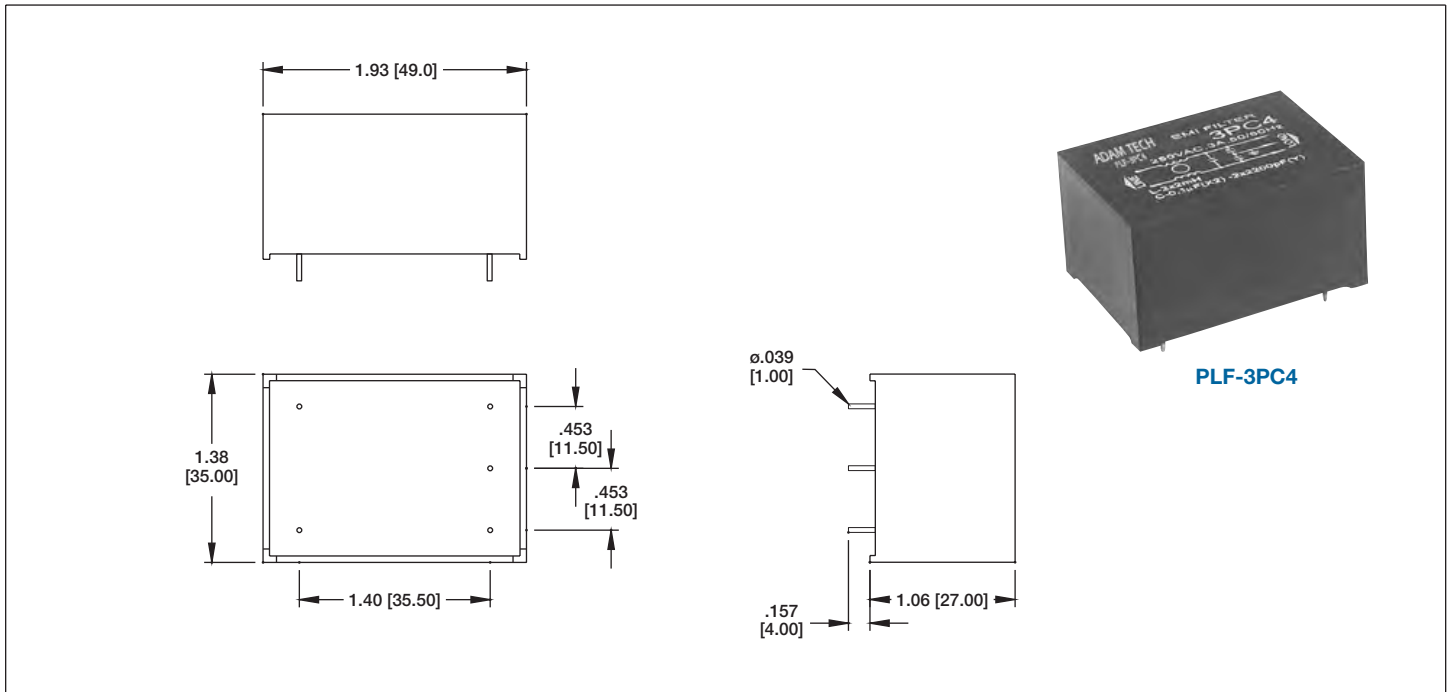
##### SAFETY AGENCY APPROVALS:

UL Recognized File no. E244331

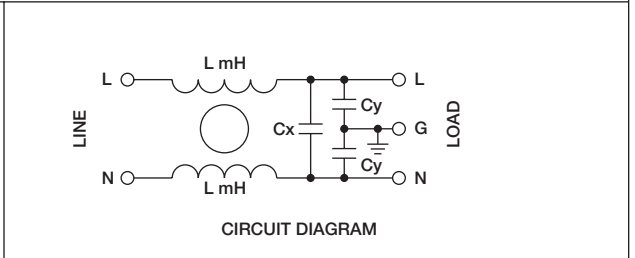


### ORDERING INFORMATION

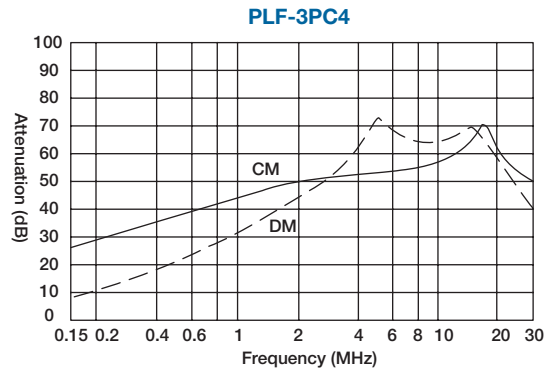




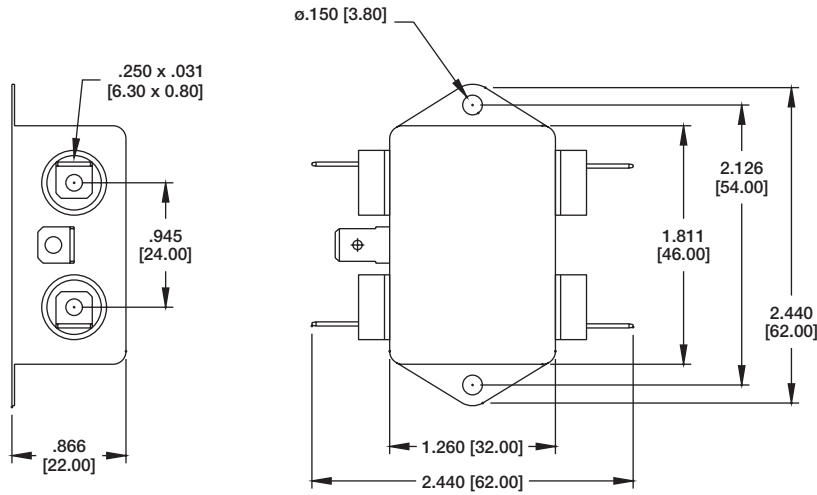
PART NUMBER	RATED VOLTAGE	RATED CURRENT	GROUND CAPACITANCE	LEAKAGE CURRENT
PLF-3PC4	250V AC	3 AMP	2.2 nF	0.5mA MAX.



Insertion Loss in dB (Measured in 50Ω systems, as IEC / cispr No. 17)

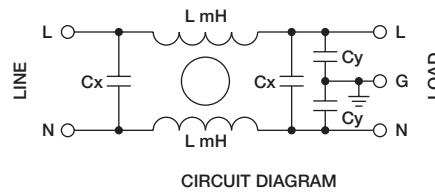




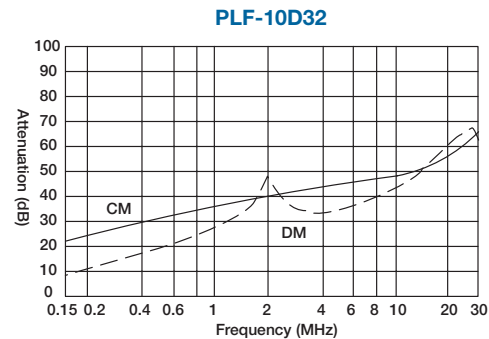
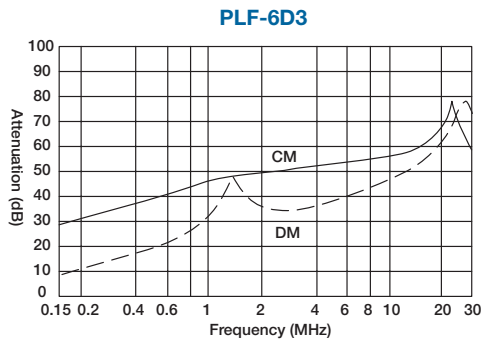
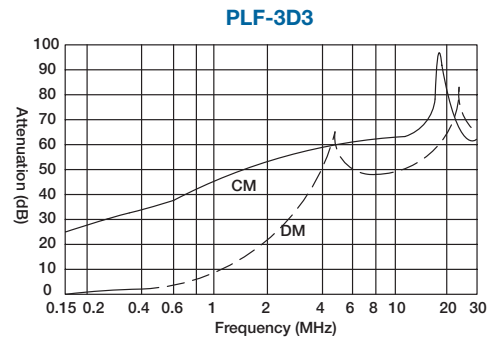
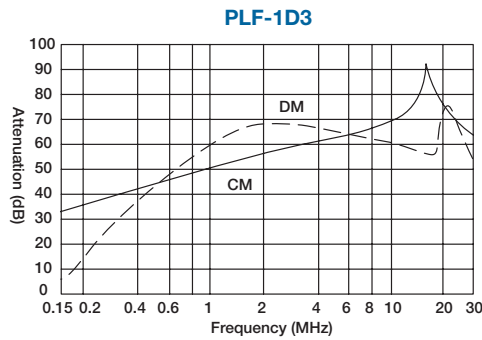


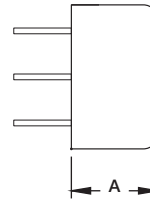
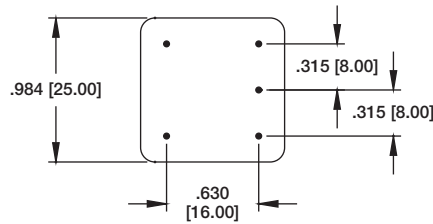
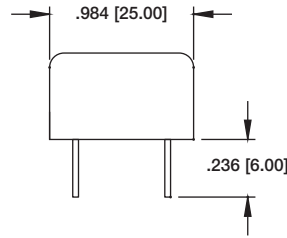
**PLF-1D3**

PART NUMBER	RATED VOLTAGE	RATED CURRENT	GROUND CAPACITANCE	LEAKAGE CURRENT
PLF-1D3	250V AC	1 AMP	4.7 nF	0.5mA MAX.
PLF-3D3	250V AC	3 AMP	3.3 nF	0.5mA MAX.
PLF-6D3	250V AC	6 AMP	3.3 nF	0.5mA MAX.
PLF-10D32	250V AC	10 AMP	2.2 nF	0.5mA MAX.



Insertion Loss in dB (Measured in 50Ω systems, as IEC / cispr No. 17)

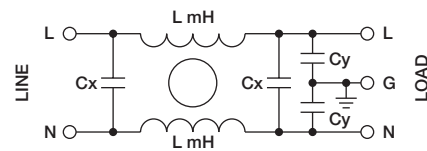




**PLF-3PC**

DIM "A"	
PLF-1PC	.590 [15.00]
PLF-2PC	.787 [20.00]
PLF-3PC	.787 [20.00]
PLF-6PC	.787 [20.00]

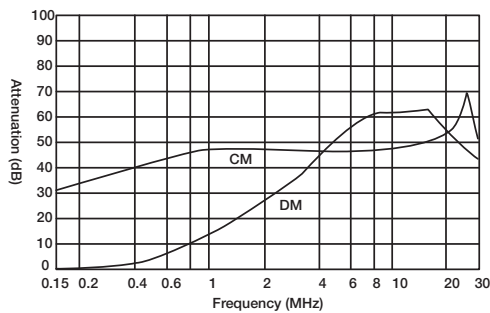
PART NUMBER	RATED VOLTAGE	RATED CURRENT	GROUND CAPACITANCE	LEAKAGE CURRENT
PLF-1PC	250V AC	1 AMP	2.2 nF	0.5mA MAX.
PLF-2PC	250V AC	2 AMP	2.2 nF	0.5mA MAX.
PLF-3PC	250V AC	3 AMP	2.2 nF	0.5mA MAX.
PLF-6PC	250V AC	6 AMP	3.3 nF	0.5mA MAX.



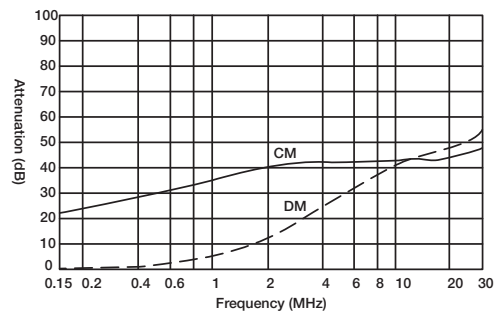
**CIRCUIT DIAGRAM**

Insertion Loss in dB (Measured in 50Ω systems, as IEC / cispr No. 17)

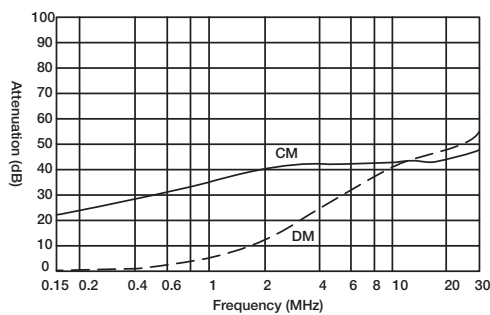
**PLF-1PC**



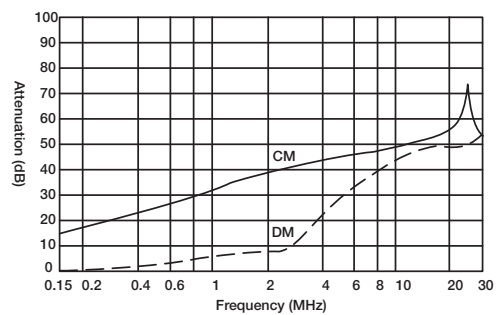
**PLF-2PC**

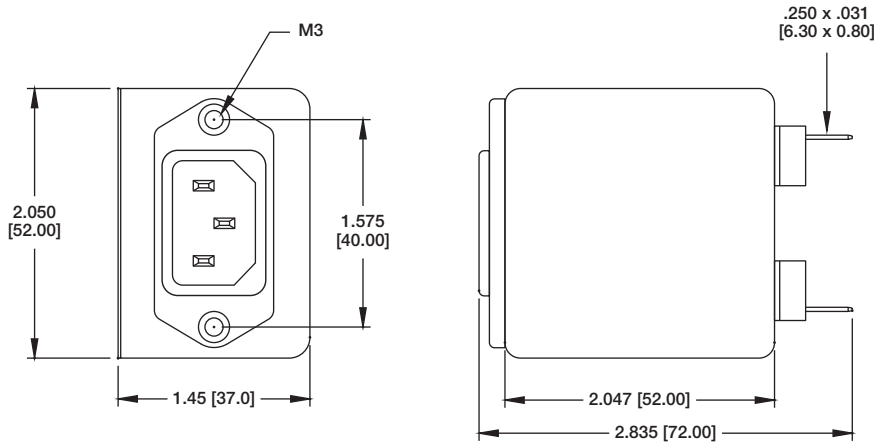


**PLF-3PC**



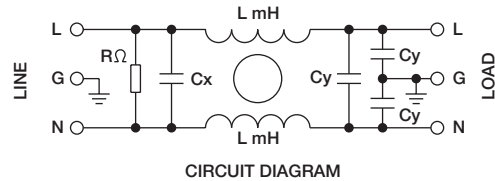
**PLF-6PC**



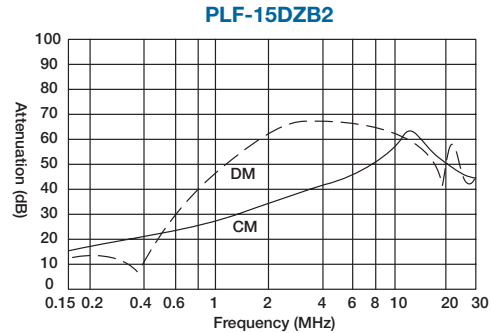
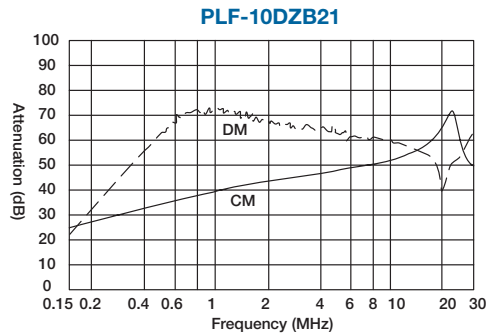
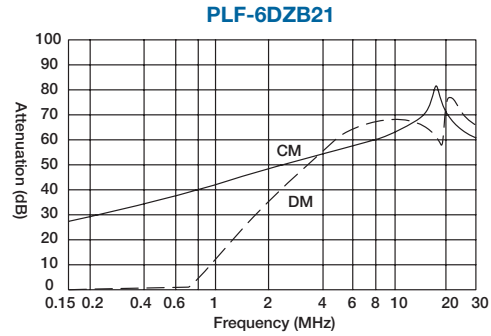
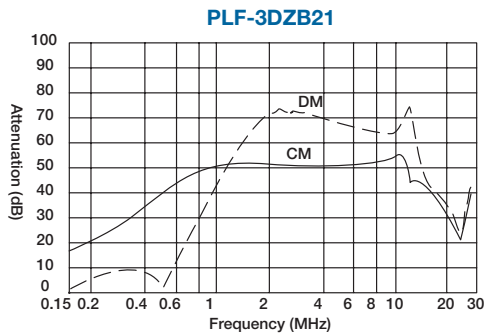


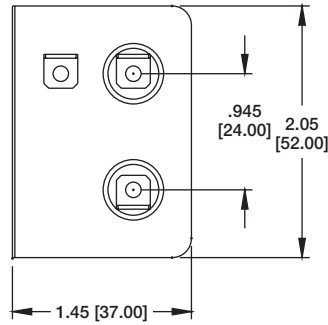
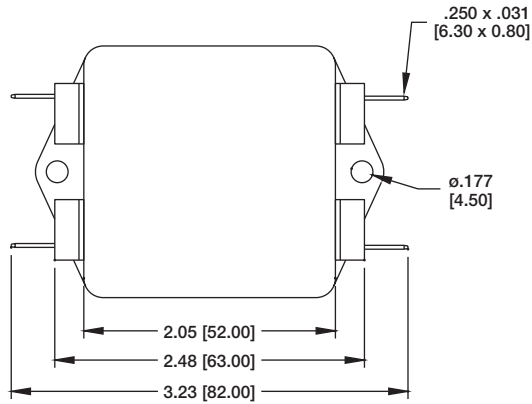
**PLF-15DZB2**

PART NUMBER	RATED VOLTAGE	RATED CURRENT	GROUND CAPACITANCE	LEAKAGE CURRENT
PLF-3DZB21	250V AC	3 AMP	4.7 nF	0.5mA MAX.
PLF-6DZB21	250V AC	6 AMP	4.7 nF	0.5mA MAX.
PLF-10DZB21	250V AC	10 AMP	3.3 nF	0.5mA MAX.
PLF-15DZB2	250V AC	15 AMP	3.3 nF	0.5mA MAX.



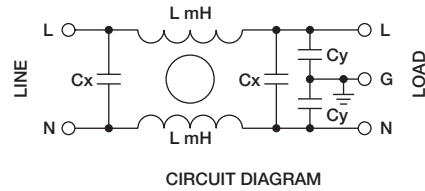
Insertion Loss in dB (Measured in 50Ω systems, as IEC / cispr No.



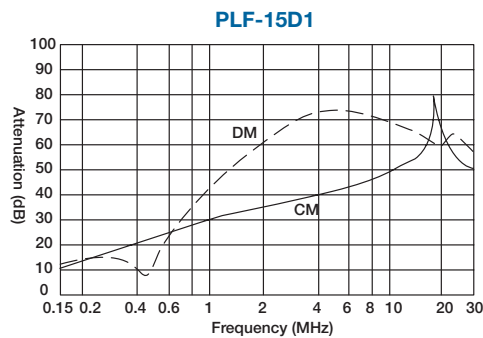
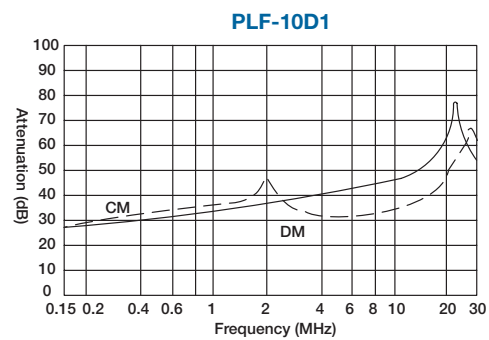
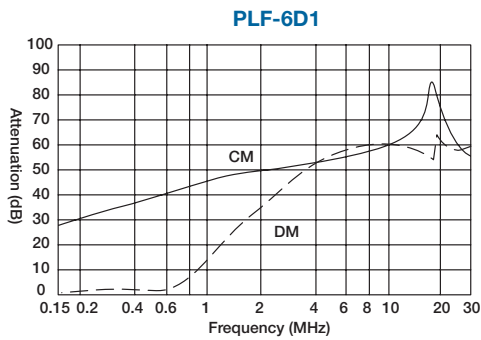


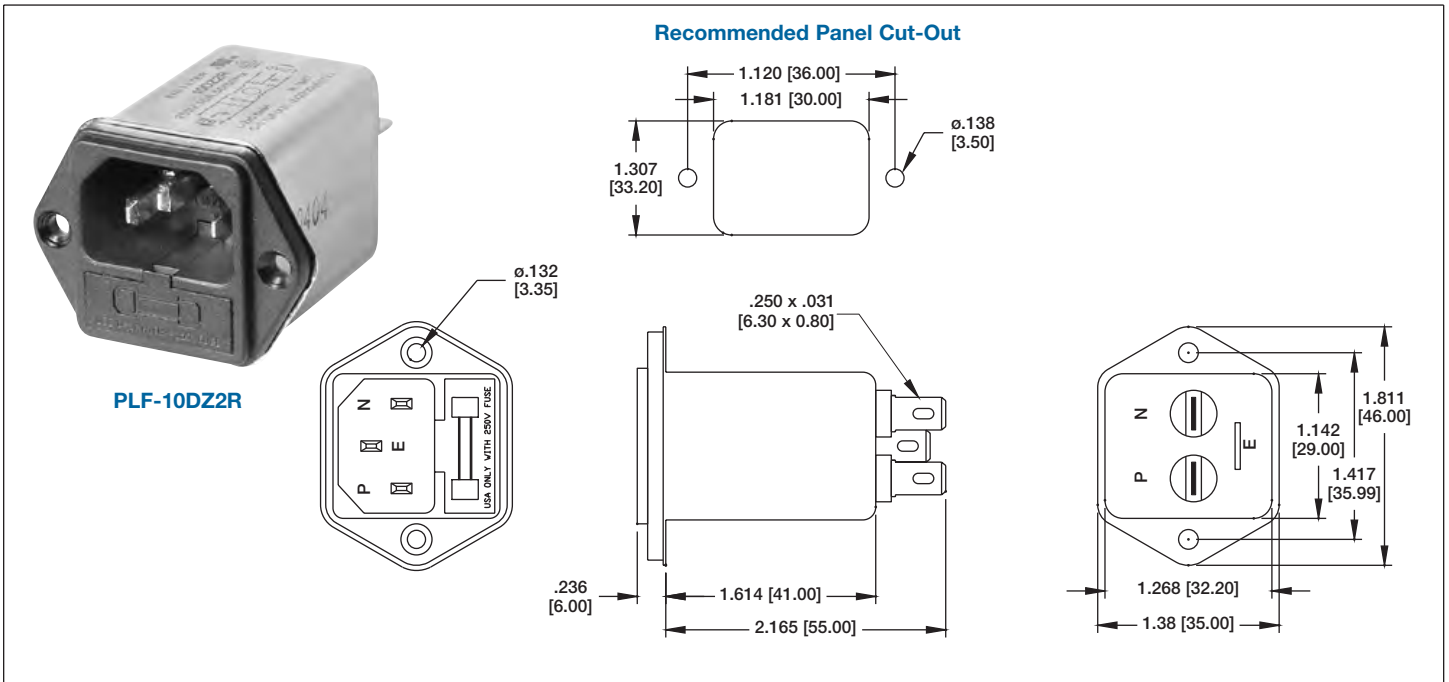
**PLF-10D1**

PART NUMBER	RATED VOLTAGE	RATED CURRENT	GROUND CAPACITANCE	LEAKAGE CURRENT
PLF-6D1	250V AC	6 AMP	3.3 nF	0.5mA MAX.
PLF-10D1	250V AC	10 AMP	3.3 nF	0.5mA MAX.
PLF-15D1	250V AC	15 AMP	3.3 nF	0.5mA MAX.

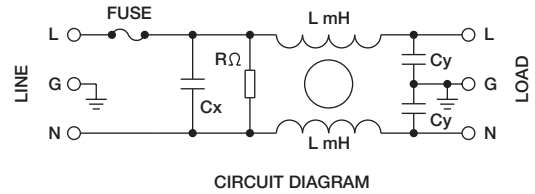


Insertion Loss in dB (Measured in 50Ω systems, as IEC / cispr No. 17)

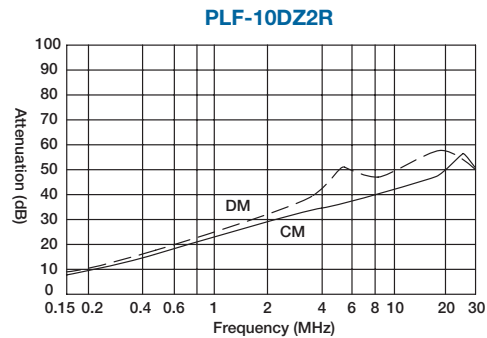
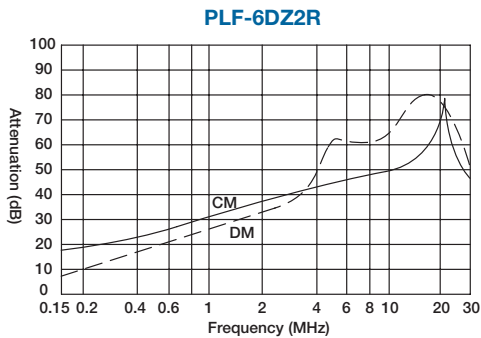
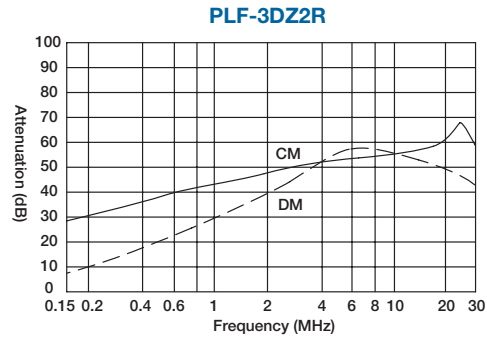
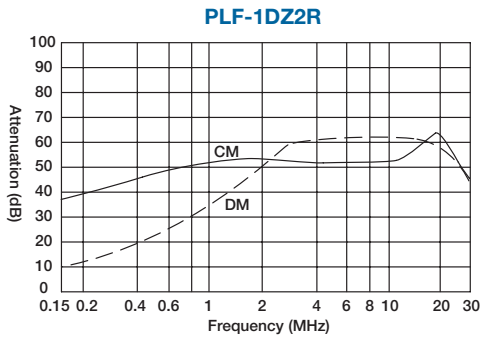


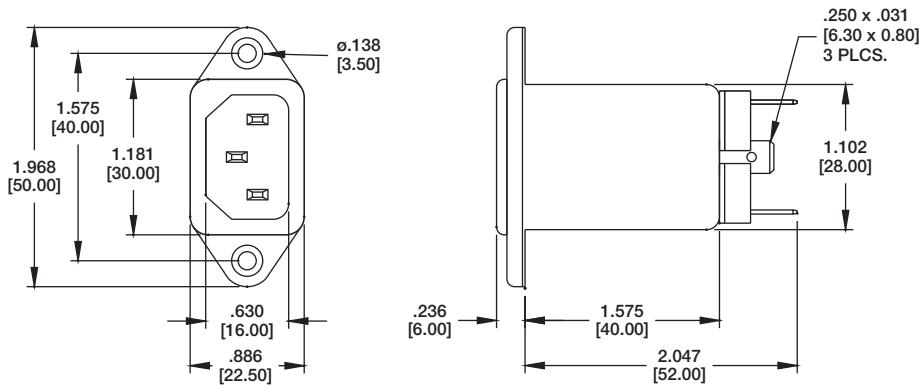


PART NUMBER	RATED VOLTAGE	RATED CURRENT	GROUND CAPACITANCE	LEAKAGE CURRENT
PLF-1DZ2R	250V AC	1 AMP	2.2 nF	0.5mA MAX.
PLF-3DZ2R	250V AC	3 AMP	2.2 nF	0.5mA MAX.
PLF-6DZ2R	250V AC	6 AMP	2.2 nF	0.5mA MAX.
PLF-10DZ2R	250V AC	10 AMP	2.2 nF	0.5mA MAX.



Insertion Loss in dB (Measured in 50Ω systems, as IEC / cispr No. 17)





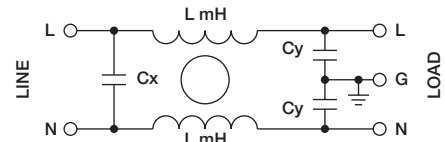
**PLF-3DZ2**

**Recommended Panel Cut-Out**

**WIRE LEAD OPTION**

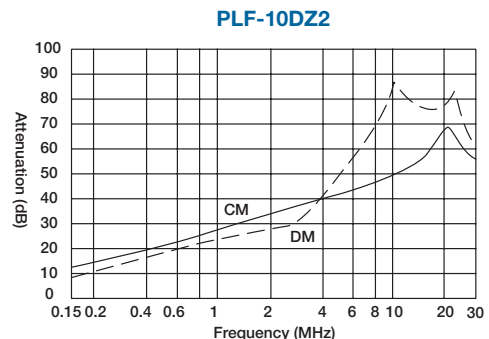
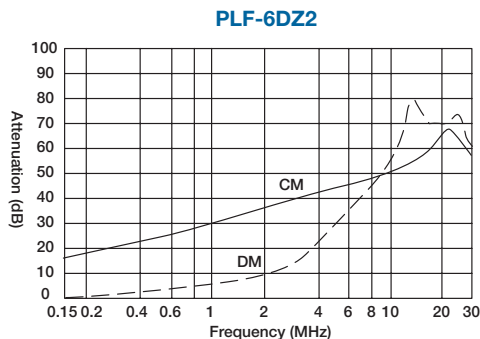
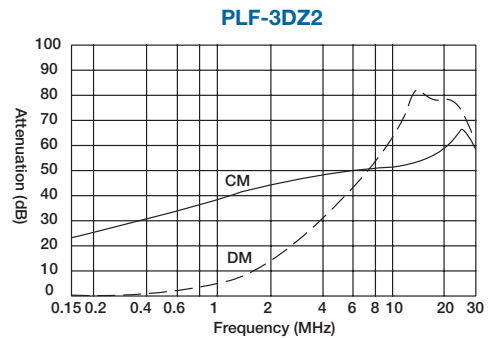
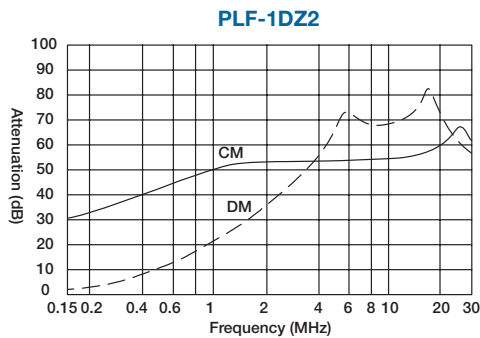
PART NUMBER	RATED VOLTAGE	RATED CURRENT	GROUND CAPACITANCE	LEAKAGE CURRENT
PLF-1DZ2	250V AC	1 AMP	2.2 nF	0.5mA MAX.
PLF-3DZ2	250V AC	3 AMP	3.3 nF	0.5mA MAX.
PLF-6DZ2	250V AC	6 AMP	3.3 nF	0.5mA MAX.
PLF-10DZ2	250V AC	10 AMP	4.7 nF	0.5mA MAX.

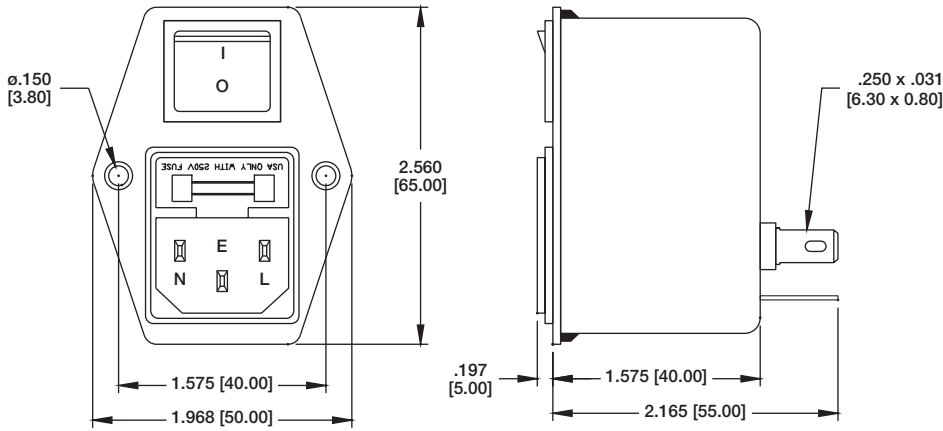
Medical Grade available, PLF-XDZW2



**CIRCUIT DIAGRAM**

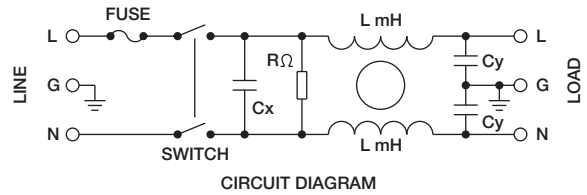
Insertion Loss in dB (Measured in 50Ω systems, as IEC / cispr No. 17)



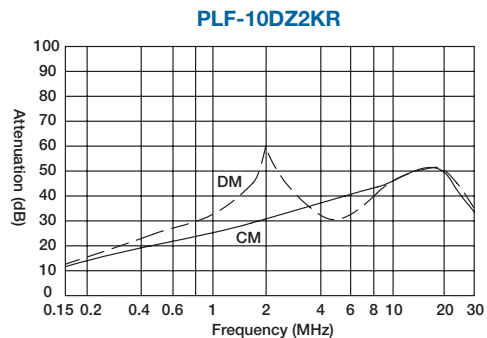
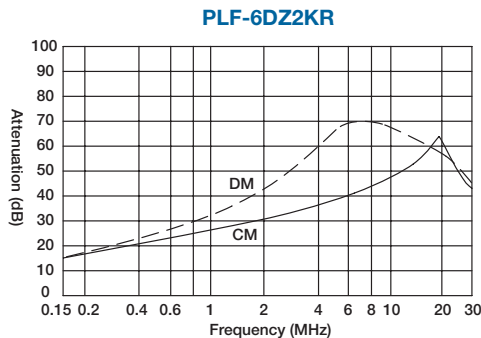
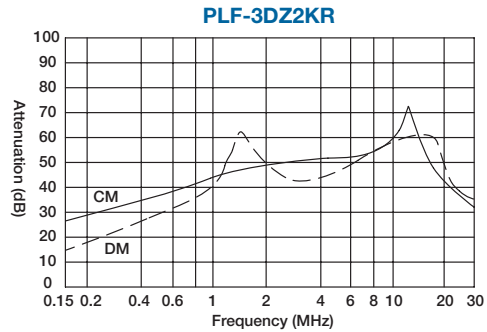
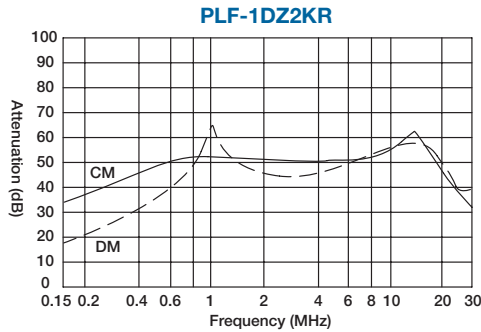


**PLF-6DZ2KR**

PART NUMBER	RATED VOLTAGE	RATED CURRENT	GROUND CAPACITANCE	LEAKAGE CURRENT
PLF-1DZ2KR	250V AC	1 AMP	2.2 nF	0.5mA MAX.
PLF-3DZ2KR	250V AC	3 AMP	2.2 nF	0.5mA MAX.
PLF-6DZ2KR	250V AC	6 AMP	2.2 nF	0.5mA MAX.
PLF-10DZ2KR	250V AC	10 AMP	2.2 nF	0.5mA MAX.



Insertion Loss in dB (Measured in 50Ω systems, as IEC / cispr No. 17)





## PCI EXPRESS, MINI PCI EXPRESS & MINI PCI 1.00mm & 0.8mm CARD EDGE CONNECTOR PCIE SERIES

### INTRODUCTION:

Adam Tech's wide range of PCI Express, Mini PCI Express & Mini PCI connectors provide a low cost, highly scalable, general-purpose serial I/O interconnect that provides a unifying standard for a number of I/O solutions within one platform. They are typically used in high-speed serial link technology applications similar to that found in Gigabit Ethernet, Serial ATA (SATA), and Serial-Attached SCSI (SAS). The 36P version supports a single PCI express lane and can be used to replace standard PCI connectors. Our higher bandwidth 4 & 8 lane versions are ideal to use in many server applications.

### FEATURES:

- Durable Long Life cycle contacts
- High Pressure Contacts for Low Level Circuits
- Hot plug and hot swap enabled
- Rated to run at up to 2.5Gbps
- Supports 2.5Gbps data transfer and scalable for future band width increases.
- Available in x1, x4, x8, and x16 lane configurations
- Coexists with standard PCI

### MATING PC BOARDS:

All printed circuit boards with a thickness of .062" to .072"

### SPECIFICATIONS:

#### Material:

Standard insulator: PPS, 30% glass reinforced, rated UL94V-0  
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0  
 Insulator Color: Dark Brown (Black optional)  
 Contacts: Phosphor Bronze

#### Contact Plating:

Gold over Nickel underplate on contact area, tin over copper underplate on tails.

#### Electrical:

Operating voltage: 125V AC max.  
 Current rating: 3 Amps max.  
 Contact resistance: 20 mΩ max. initial  
 Insulation resistance: 1000 MΩ min.  
 Dielectric withstanding voltage: 500V AC for 1 minute

#### Mechanical:

Insertion force: 7 oz max.  
 Withdrawal force: 0.9 oz min

#### Temperature Rating:

Operating temperature: -55°C to +105°C  
 Soldering process temperature:  
 Standard insulator: 235°C  
 Hi-Temp insulator: 260°C

#### PACKAGING:

Anti-ESD plastic trays

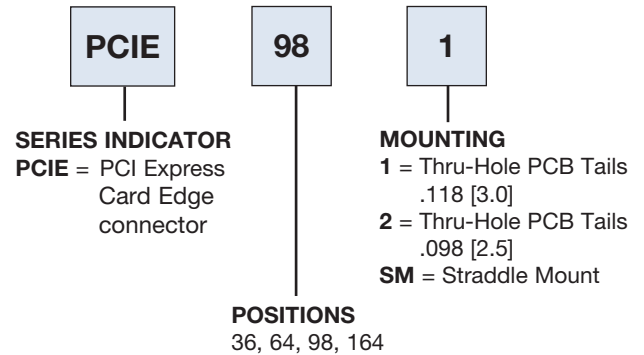
#### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

**HI-TEMP  
INSULATOR  
AVAILABLE**



### ORDERING INFORMATION PCI EXPRESS



### ORDERING INFORMATION MINI PCI EXPRESS

See pg. 152 for Available Types

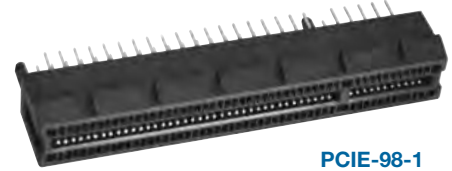
### MINI PCI

See pg. 153 for Available Types

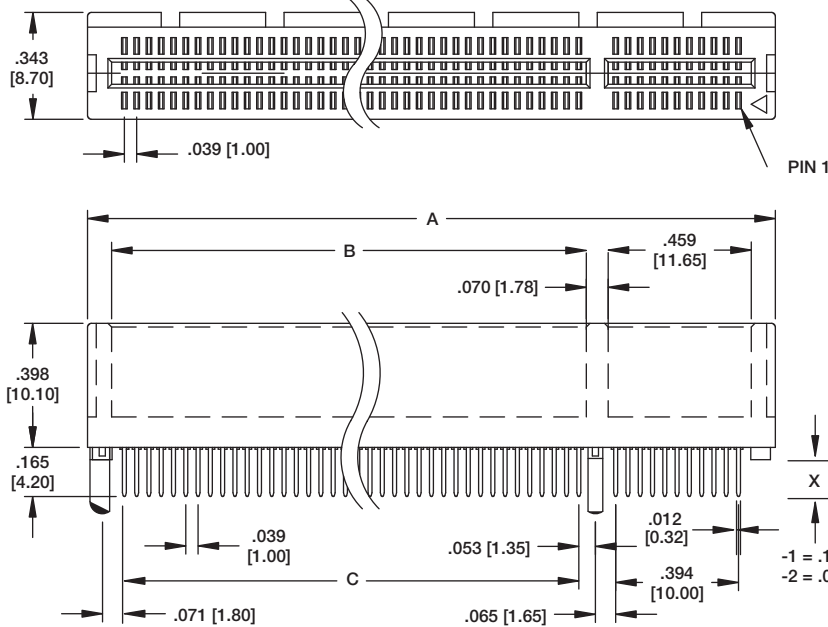
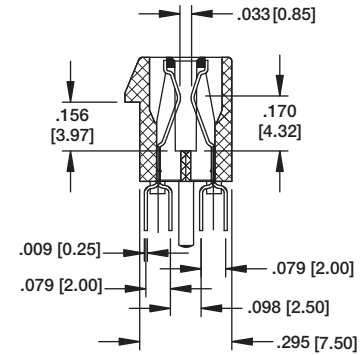
#### OPTIONS:

Add designator(s) to end of part number  
**30** = 30 μin gold plating in contact area  
**WT** = White color insulation  
**HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

#### PCI EXPRESS THRU HOLE PCB MOUNT



PCIE-98-1



PART NO. & POSITIONS	DIMENSIONS			
	A	B	C	D
PCIE-36-1	.984 [25.00]	.301 [7.65]	.236 [6.00]	.321 [8.15]
PCIE-64-1	1.535 [39.00]	.852 [21.65]	.787 [20.00]	.872 [22.15]
PCIE-98-1	2.205 [56.00]	1.522 [38.65]	1.457 [37.00]	1.541 [39.15]
PCIE-164-1	3.504 [89.00]	2.821 [71.65]	2.756 [70.00]	2.840 [72.15]

\* Available in Straddle Mount

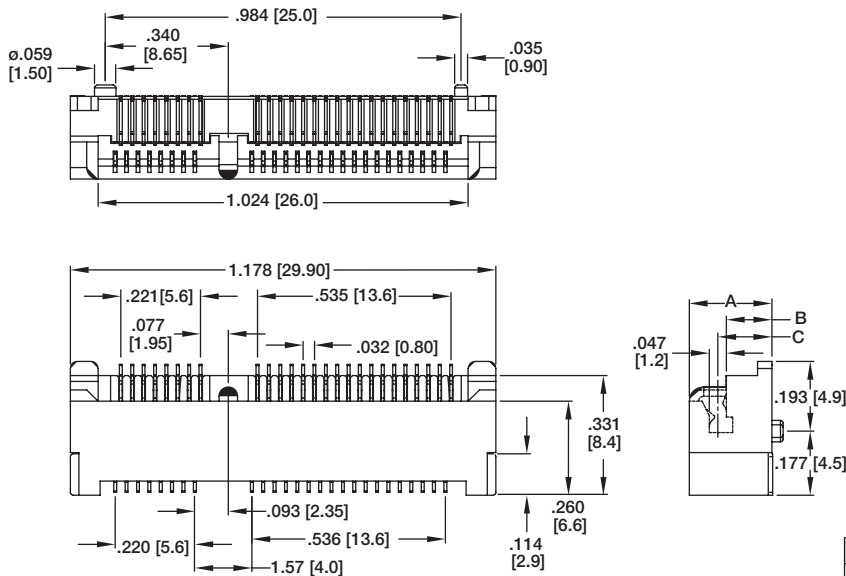
#### MINI PCI EXPRESS SURFACE MOUNT



MPE-52-R-SMT-3.8

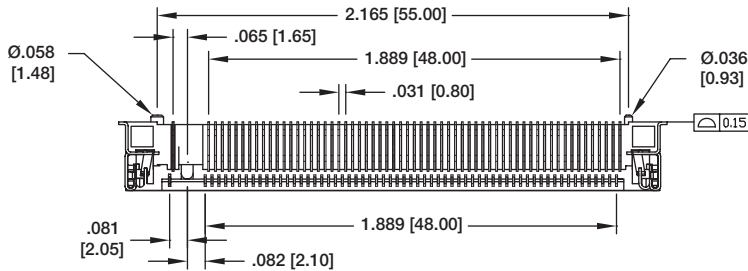


MPE-52-R-SMT-9.0

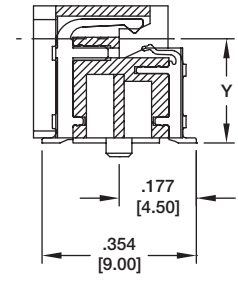
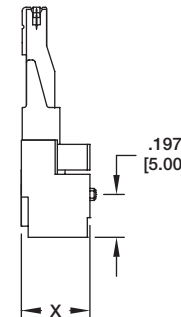
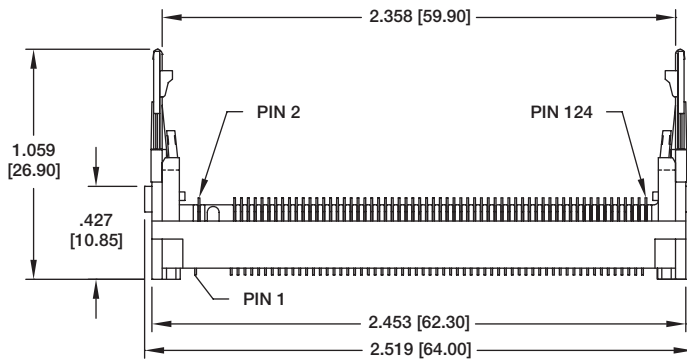


PART NUMBER	DIM A	DIM B	DIM C
MPE-52-R-SMT-5.2-TR	5.20	2.80	3.20
MPE-52-R-SMT-5.6-TR	5.60	3.20	3.80
MPE-52-R-SMT-6.8-TR	6.80	4.40	4.90
MPE-52-R-SMT-8.0-TR	8.00	5.60	6.10
MPE-52-R-SMT-9.2-TR	9.20	6.80	7.30

## MINI PCI SURFACE MOUNT



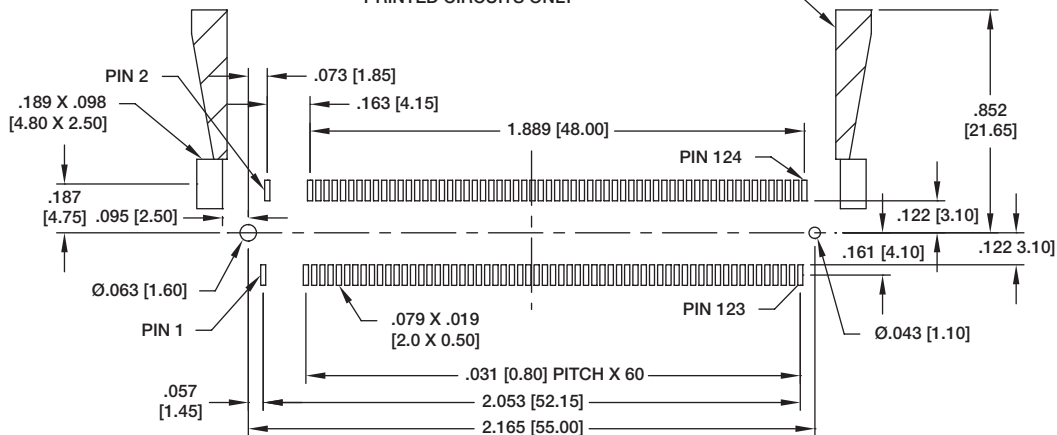
MPC1-124-2-SMT



STANDOFF HEIGHT

(SEE CHART)

LEVER MOVEMENT AREA  
DO NOT MOUNT COMPONENTS IN THIS AREA  
PRINTED CIRCUITS ONLY



Recommended PCB Layout

PART NO	DIMENSIONS	
	X	Y
MPC1-124-2-SMT	.362 [9.20]	.287 [7.30]

## INTRODUCTION:

Adam Tech CE Series Card Edge Connectors are precision engineered PCB mount connectors developed to mate with the plated fingers of a printed circuit daughter board. Their bifurcated, cantilever contacts are set in a dual readout configuration and they offer a reliable connection for a wide range of PCB thicknesses. Adam Tech's sturdy solder tails with tapers allow easy insertion and rugged durability.

## FEATURES:

- .100" x .200" centerlines
- Selectively gold plated contacts
- Wide selection of positions
- Compatible with a wide range of PCB thicknesses

## MATING PC BOARDS:

All printed circuit boards with a thickness of .055" to .075"

## SPECIFICATIONS:

### Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0  
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0  
 Insulator Color: Black  
 Contacts: Phosphor Bronze

### Contact Plating:

Gold over Nickel underplate on contact area, tin over copper underplate on tails.

### Electrical:

Operating voltage: 250V AC max.  
 Current rating: 3 Amps max.  
 Contact resistance: 30 mΩ max. initial  
 Insulation resistance: 3000 MΩ min.  
 Dielectric withstanding voltage: 500V AC for 1 minute

### Mechanical:

Insertion force: 10 oz max.  
 Withdrawal force: 3 oz min

### Temperature Rating:

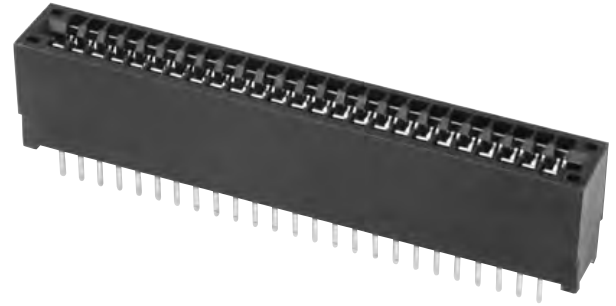
Operating temperature: -55°C to +105°C  
 Soldering process temperature:  
     Standard insulator: 235°C  
     Hi-Temp insulator: 260°C

### PACKAGING:

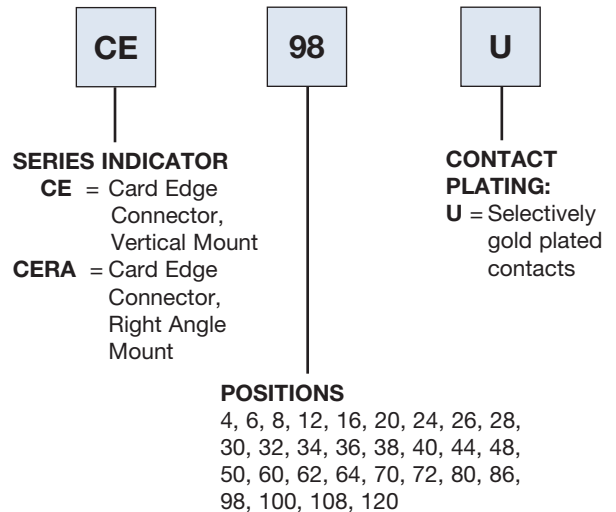
Anti-ESD plastic trays

### SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



## ORDERING INFORMATION

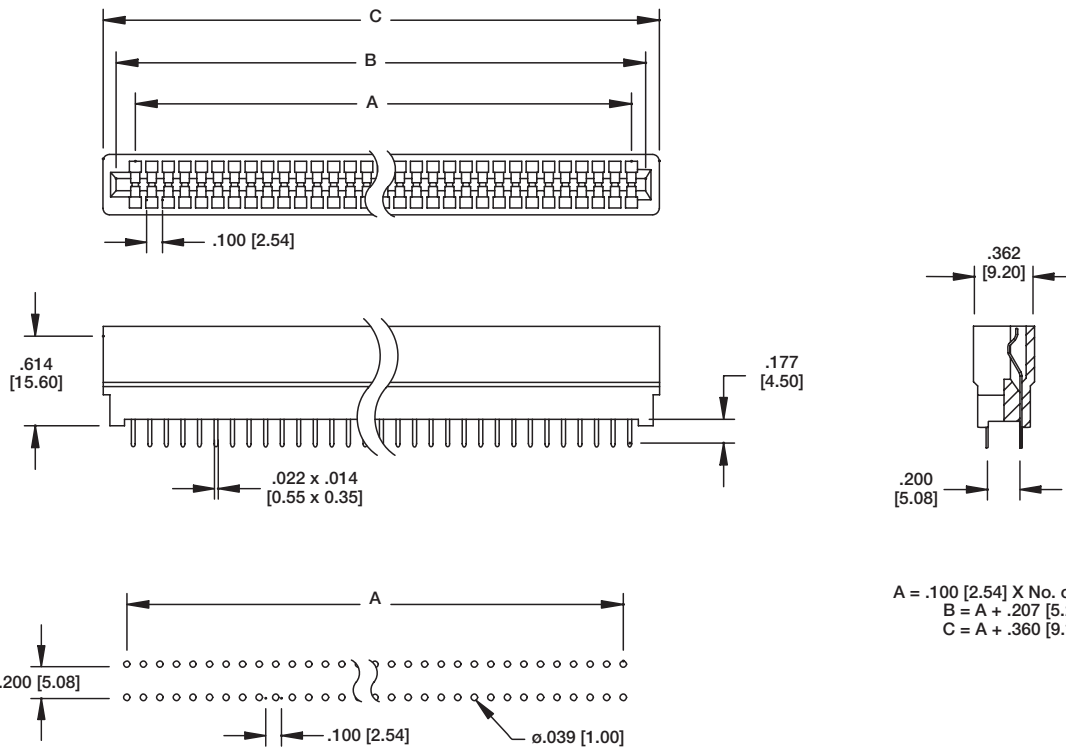


### OPTIONS:

Add designator(s) to end of part number  
**30** = 30 μin gold plating in contact area  
**HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C  
**BR** = Board retention tails



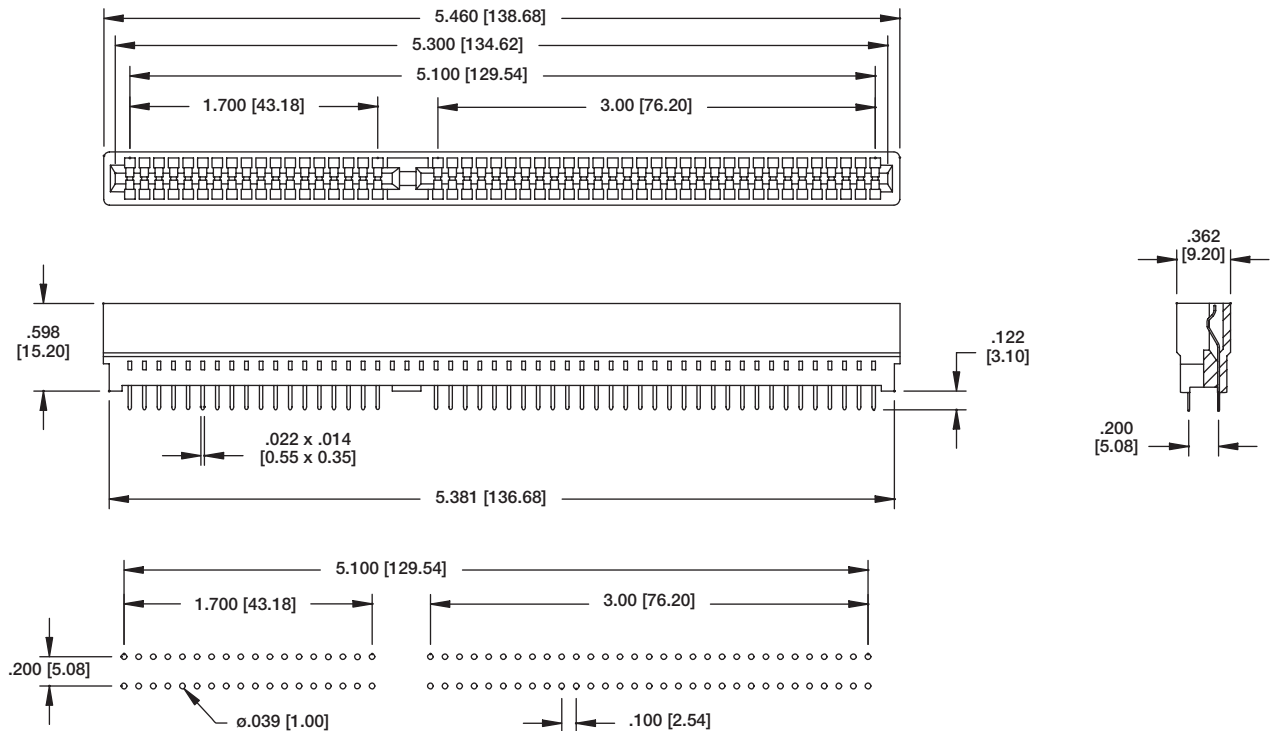
18P-100P



A = .100 [2.54] X No. of spaces  
 B = A + .207 [5.28]  
 C = A + .360 [9.14]

Recommended PCB Layout

98P



Recommended PCB Layout

### INTRODUCTION:

Adam Tech HMCA & HDCE Series Card Edge Connectors include Standard and Express versions designed for PCB's in Peripheral Component Interconnect (PCI) applications. Each is manufactured in multiple row, high density package which is completely compatible to industry standards and has specially engineered contacts which provide a very short electrical path between boards. Adam Tech card edge connectors are designed for high performance with solid board pegs and precision located, selectively gold plated contacts which are ideal in high speed, increased bandwidth applications

### FEATURES:

HMCA: PCI and PCI Express Versions  
 HDCE: Compatible with PC, XT and AT  
 High density compact designs  
 Industry standard PCI compatible  
 Special contact design reduces electrical path  
 Selectively plated contacts  
 Open bottom for after solder cleaning

### MATING PC BOARDS:

All .050" centerline printed circuit board pads with a thickness of .062" to .072"

### SPECIFICATIONS:

#### Material:

Standard insulator: PPS, 30% glass reinforced, rated UL94V-0  
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0  
 Insulator Color: Dark Brown (White for 120 pos.)  
 Contacts: Phosphor Bronze

#### Contact Plating:

Gold over Nickel underplate on contact area, tin over copper underplate on tails.

#### Electrical:

Operating voltage: 125V AC max.  
 Current rating: 1 Amp max.  
 Contact resistance: 30 mΩ max. initial  
 Insulation resistance: 1000 MΩ min.  
 Dielectric withstanding voltage: 500V AC for 1 minute

#### Mechanical:

Insertion force: 7 oz max.  
 Withdrawal force: 0.9 oz min

#### Temperature Rating:

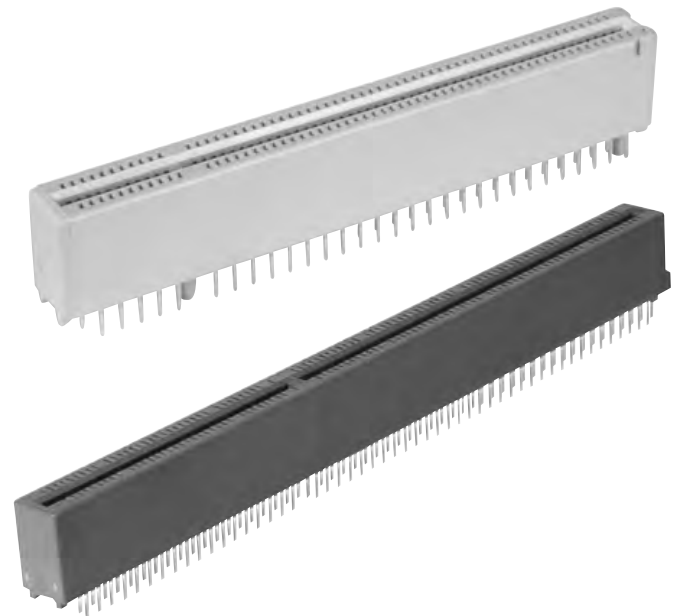
Operating temperature: -55°C to +105°C  
 Soldering process temperature:  
 Standard insulator: 235°C  
 Hi-Temp insulator: 260°C

#### PACKAGING:

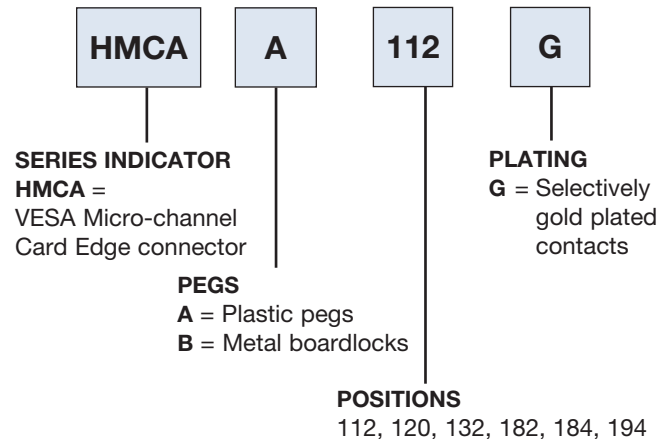
Anti-ESD plastic trays

#### SAFETY AGENCY APPROVALS:

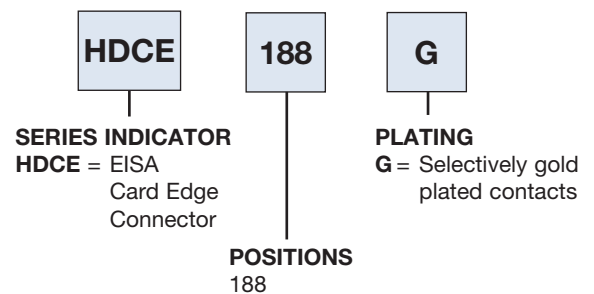
UL Recognized File no. E224053



### ORDERING INFORMATION

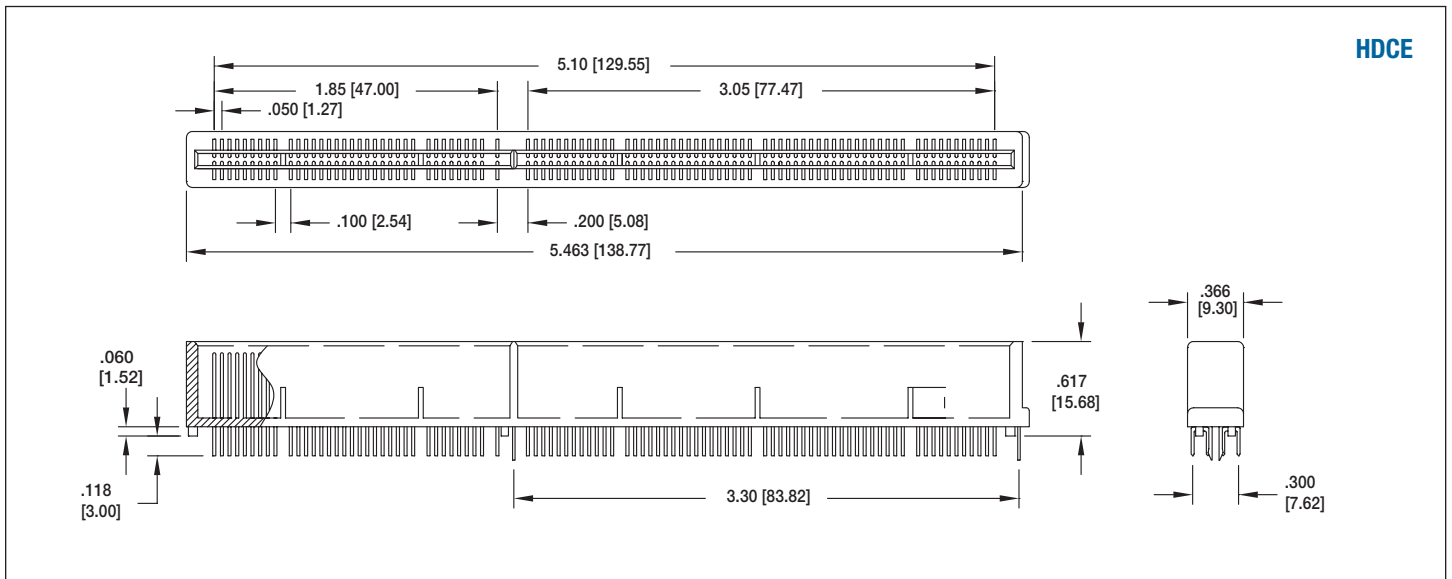
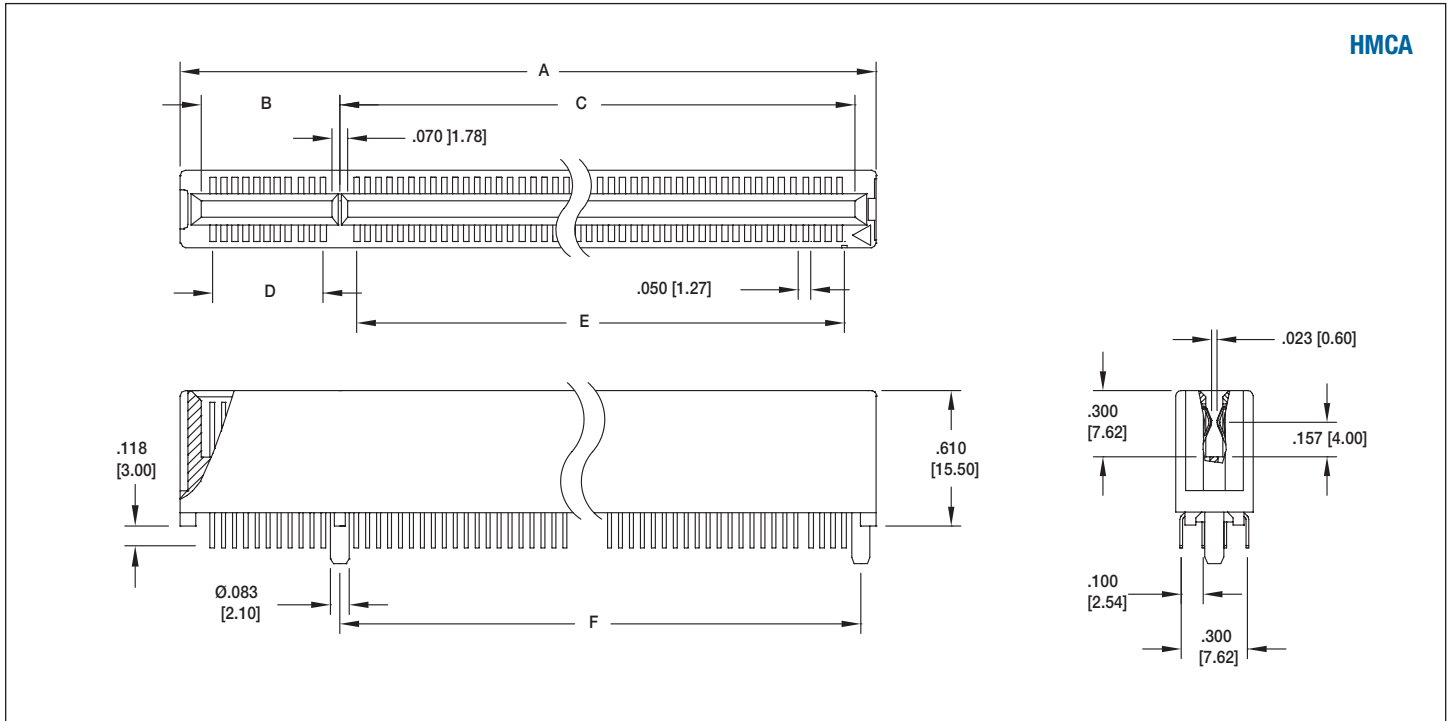


### ORDERING INFORMATION



### OPTIONS

Add designator(s) to end of part number  
**30** = 30 μin gold plating in contact area  
**HT** = Hi-Temp insulator for Hi-Temp soldering  
 processes up to 260°C



Unit: Inch [mm]

Part No. & Positions	Dimensions					
	A	B	C	D	E	F
HMCA-X-112-G	3.140 [79.76]	0.625 [15.88]	2.325 [59.06]	0.500 [12.70]	2.200 [55.88]	2.232 [56.69]
HMCA-X-120-G	3.340 [84.84]	0.625 [15.88]	2.525 [64.14]	0.500 [12.70]	2.400 [60.96]	2.550 [64.77]
HMCA-X-132-G	3.740 [95.00]	0.625 [15.88]	2.925 [74.30]	1.834 [46.60]	2.200 [55.88]	2.350 [59.69]
HMCA-X-182-G	4.890 [124.21]	2.175 [55.25]	2.525 [64.14]	2.050 [52.07]	2.050 [52.07]	2.550 [64.77]
HMCA-X-194-G	5.290 [134.37]	2.175 [55.25]	2.925 [74.30]	2.050 [52.07]	2.200 [55.88]	2.350 [59.69]

Replace X with A or B



#### INTRODUCTION:

Adam Tech SMT PLCC Series Sockets are low profile, thin wall sockets designed to convert plastic leaded chips to a thru-hole PCB format on a .100" centerline grid. They conform to JEDEC MS 016 and MS 018 pin count standards. Adam Tech's superior precision stamped contact design provides consistent, high retention contacts for all size chips. Chip exchanges or replacements are easily made with Adam Tech's chip remover part no. PLCC-EXT.

#### FEATURES:

- Full range of sizes from 20P ~ 100P
- Consistent, uniform high retention contacts
- Compatible with wide range of chip sizes
- No solder wicking design
- Hi Temp PPS insulator
- Open frame design for viewable solder joints

#### MATING PLASTIC LEADED CHIPS:

All EIA / JEDEC compliant PLCC

#### SPECIFICATIONS:

##### Material:

Standard Hi-Temp insulator: PPS, Glass reinforced, rated UL94V-0  
Insulator Color: Brown  
Contacts: Phosphor Bronze

##### Contact Plating:

Tin over copper underplate overall

##### Electrical:

Operating voltage: 250V AC max.  
Current rating: 1 Amp max.  
Contact resistance: 30 mΩ max. initial  
Insulation resistance: 1000 MΩ min.  
Dielectric withstanding voltage: 500V AC for 1 minute

##### Mechanical:

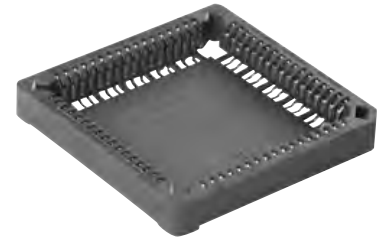
Insertion force: 6.35 oz max.  
Withdrawal force: 1.0 oz min  
Temperature Rating:  
Operating temperature: -55°C to +105°C  
Soldering process temperature: 260°C

##### PACKAGING:

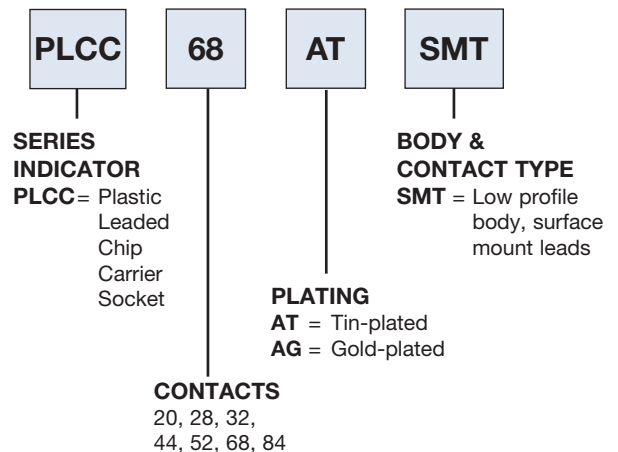
Anti-ESD plastic tubes

##### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



#### ORDERING INFORMATION



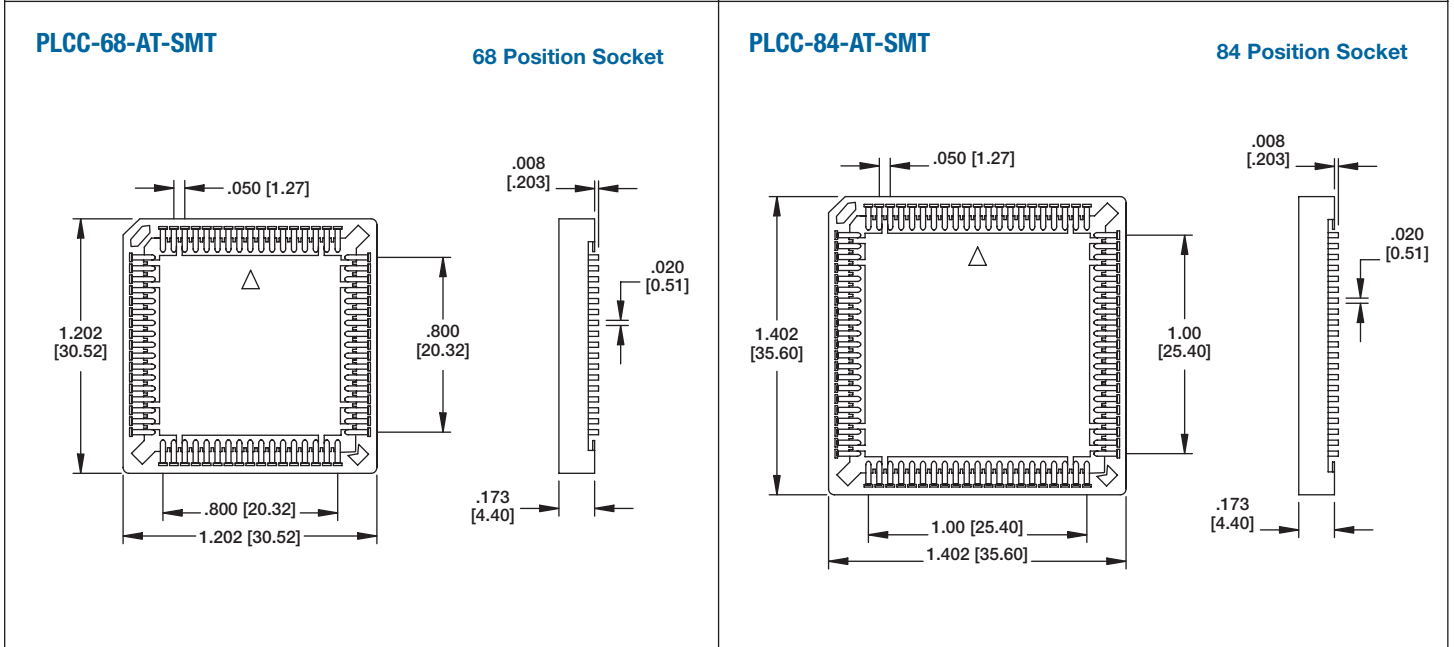
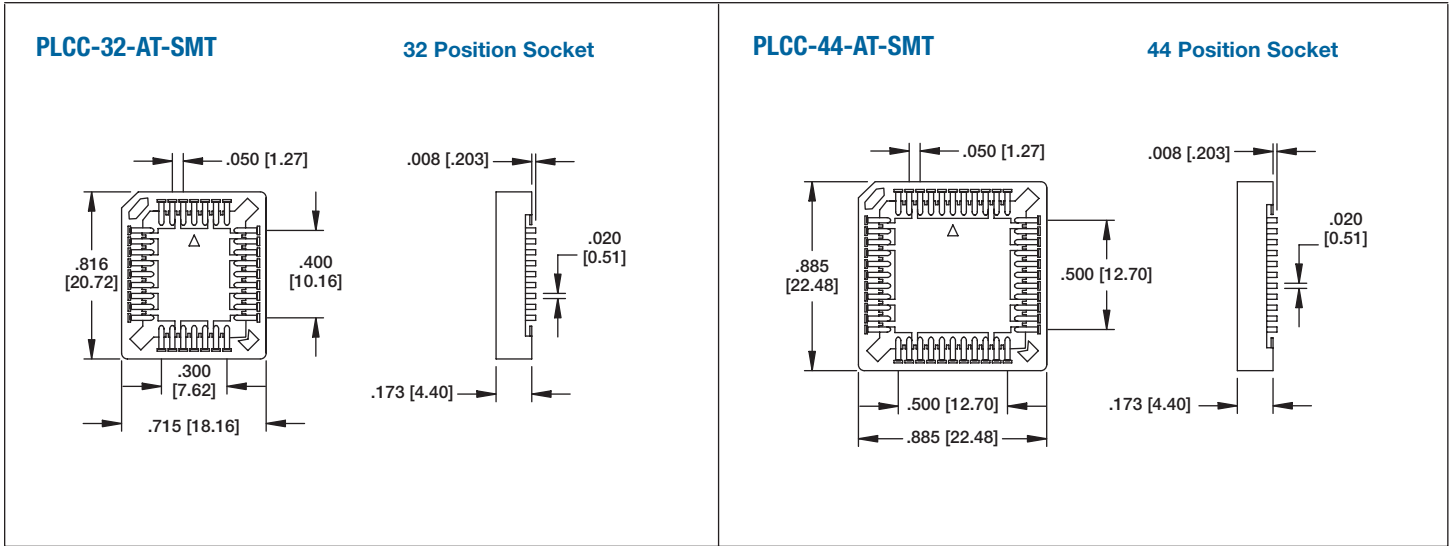
#### OPTIONS:

Add designator(s) to end of part number

**P** = With polarizing pegs

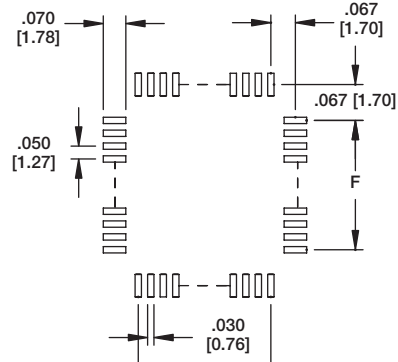
**TR** = Tape and reel packaging





### Recommended Solder Pad Layout

POSITIONS	E	F
20	.200 [5.08]	.200 [5.08]
28	.300 [7.62]	.300 [7.62]
32	.300 [7.62]	.400 [10.16]
44	.500 [12.70]	.500 [12.70]
52	.600 [15.24]	.600 [15.24]
68	.800 [20.32]	.800 [20.32]



#### INTRODUCTION:

Adam Tech PLCC Series Sockets are designed to convert plastic leaded chips to a thru-hole PCB format on a .100" centerline grid. They conform to JEDEC MS 016 and MS 018 pin count standards. Adam Tech's superior precision stamped contact design provides consistent, high retention contacts for all size chips. Chip exchanges or replacements are easily made with Adam Tech's chip remover part no. PLCC-EXT.

#### FEATURES:

- Full range of sizes from 20P ~ 100P
- Consistent, uniform high retention contacts
- Compatible with wide range of chip sizes
- No solder wicking design
- Hi Temp PPS insulator version available

#### MATING PLASTIC LEADED CHIPS:

All EIA / JEDEC plastic leaded chips

#### SPECIFICATIONS:

##### Material:

Standard Insulator: PBT, Glass reinforced, rated UL94V-0  
Optional Hi-Temp insulator: PPS  
Insulator Color: Black (Brown for PPS)  
Contacts: Phosphor Bronze

##### Contact Plating:

Tin over copper underplate overall

##### Electrical:

Operating voltage: 250V AC max.  
Current rating: 1 Amp max.  
Contact resistance: 30 mΩ max. initial  
Insulation resistance: 1000 MΩ min.  
Dielectric withstanding voltage: 500V AC for 1 minute

##### Mechanical:

Insertion force: 6.35 oz max.  
Withdrawal force: 1.0 oz min

##### Temperature Rating:

Operating temperature: -20°C to +85°C  
Soldering process temperature:  
Standard insulator: 235°C  
Hi-Temp insulator: 260°C

##### PACKAGING:

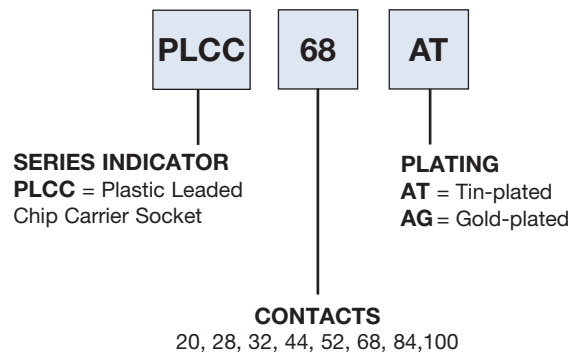
Anti-ESD plastic tubes

##### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



#### ORDERING INFORMATION

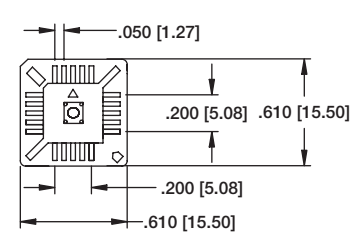
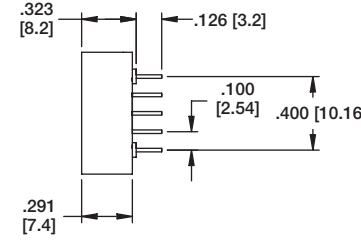
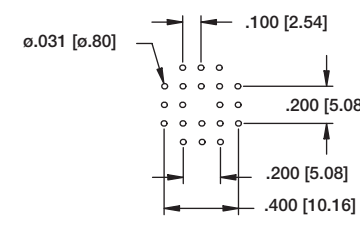
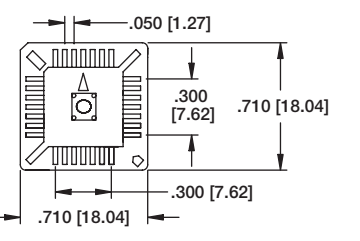
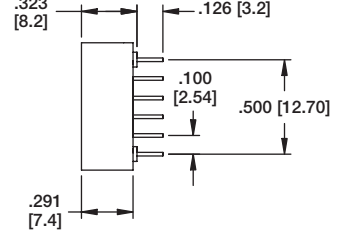
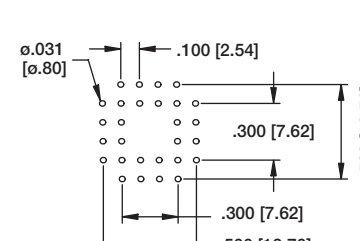
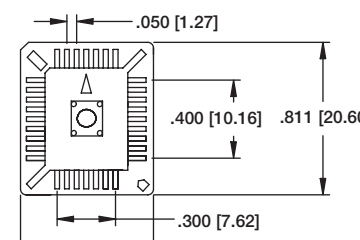
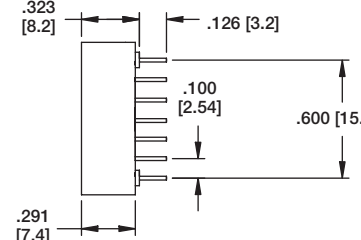
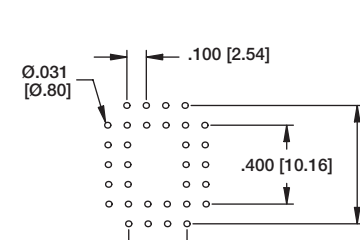
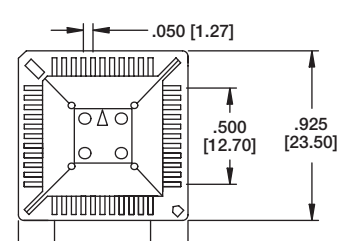
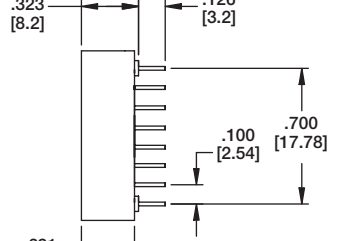
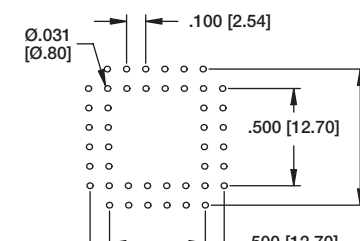


#### OPTIONS:

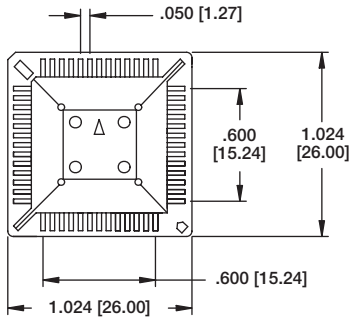
Add designator(s) to end of part number

HT = Hi-Temp Polyphenylene Sulfide (PPS) Insulator  
Material for hi-temp soldering process up to 260°C

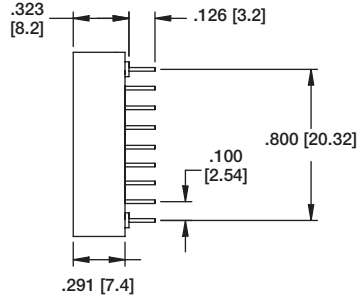


<p><b>PLCC-20-AT</b></p> 	<p><b>20 Position Socket</b></p> 	<p><b>20 Position Socket</b></p>  <p><b>Recommended PCB Layout</b></p>
<p><b>PLCC-28-AT</b></p> 	<p><b>28 Position Socket</b></p> 	<p><b>28 Position Socket</b></p>  <p><b>Recommended PCB Layout</b></p>
<p><b>PLCC-32-AT</b></p> 	<p><b>32 Position Socket</b></p> 	<p><b>32 Position Socket</b></p>  <p><b>Recommended PCB Layout</b></p>
<p><b>PLCC-44-AT</b></p> 	<p><b>44 Position Socket</b></p> 	<p><b>44 Position Socket</b></p>  <p><b>Recommended PCB Layout</b></p>

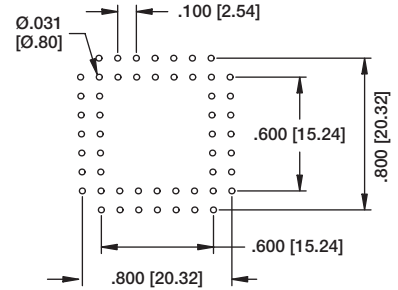
**PLCC-52-AT**



**52 Position Socket**

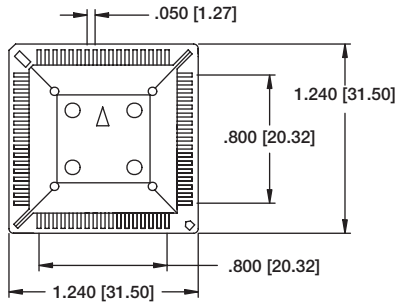


**52 Position Socket**

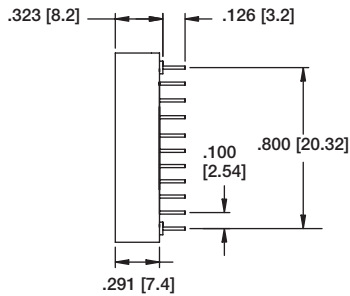


**Recommended PCB Layout**

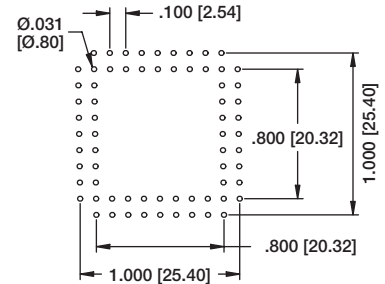
**PLCC-68-AT**



**68 Position Socket**

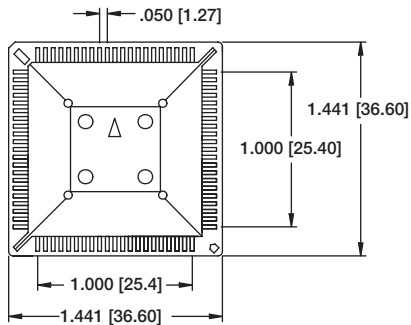


**68 Position Socket**

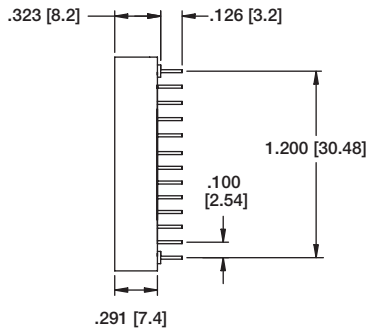


**Recommended PCB Layout**

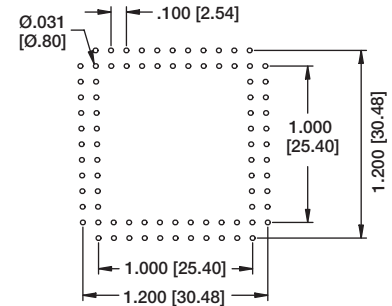
**PLCC-84-AT**



**84 Position Socket**



**84 Position Socket**



**Recommended PCB Layout**

**INTRODUCTION:**

Adam Tech ICS Series IC Sockets are a low profile design available in single or dual row on .100" centerline pin spacing with .300" or .600" row spacing. Our ISD Series are fine pitched sockets on .070" centerlines with .300" or .600" row spacing. All Adam Tech sockets are manufactured with our exclusive single beam dual wipe contact design which produces a high pressure wiping action for superior connectivity. In addition to an internal contact stop which prevents over stressing of the contact, each has a wide lead in to eliminate mis-mating and a closed bottom anti-solder wicking design.

**FEATURES:**

- High Pressure Contacts
- Single Beam, Dual Wipe Contacts
- Anti-Solder Wicking design
- Machine Insertable
- Single or Dual Row
- Low Profile

**MATING COMPONENTS:**

All industry standard components with SIP or DIP leads

**SPECIFICATIONS:**

**Material:**

Standard insulator: PBT, Glass reinforced, rated UL94V-0  
 Insulator Color: Black  
 Contacts: Phosphor Bronze

**Contact Plating:**

Tin over copper underplate overall

**Electrical:**

Operating voltage: 250V AC max.  
 Current rating: 1 Amp max.  
 Contact resistance: 20 mΩ max. initial  
 Insulation resistance: 5000 MΩ min.  
 Dielectric withstanding voltage: 1000V AC for 1 minute

**Mechanical:**

Insertion force: 11.5 oz max with .024" X .006: leads  
 Withdrawal force: 0.85 oz min with .024" X .006" leads

**Temperature Rating:**

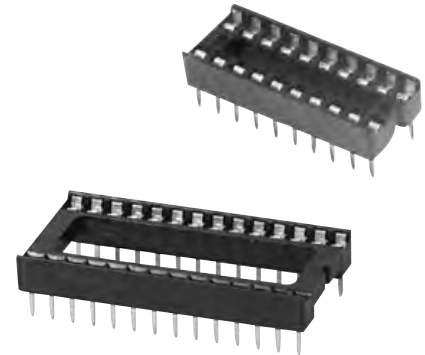
Operating temperature: -55°C to +85°C  
 Soldering process temperature:  
     Standard insulator: 235°C  
     Hi-Temp insulator: 260°C

**PACKAGING:**

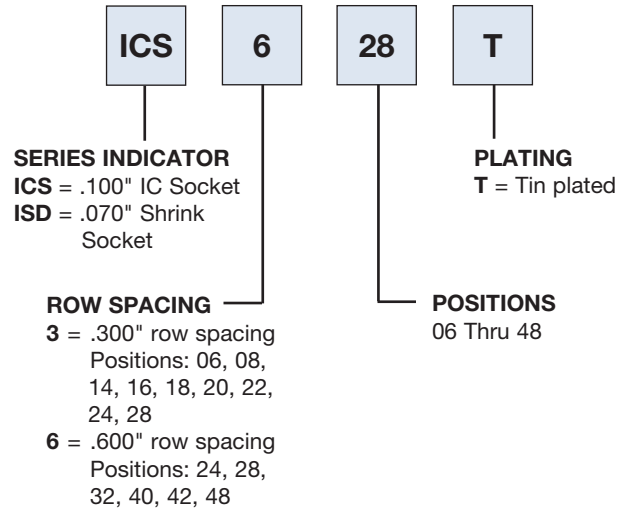
Anti-ESD plastic tubes

**SAFETY AGENCY APPROVALS:**

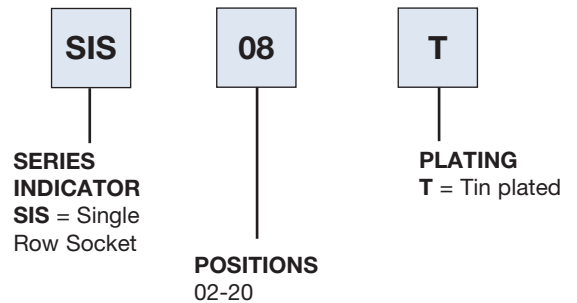
UL Recognized File no. E224053



**ORDERING INFORMATION  
IC SOCKETS**



**ORDERING INFORMATION  
SINGLE ROW SOCKETS**



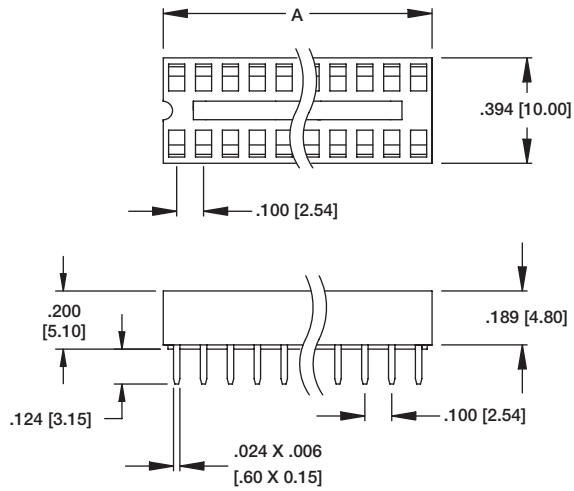
**OPTIONS:**

Add designator(s) to end of part number  
**OF** = Open Frame without center bar

#### ICS SERIES

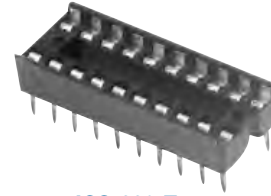
##### .300" ROW CENTERLINE

POSITIONS: 6, 8, 14, 16, 18, 20, 24, 26 & 28

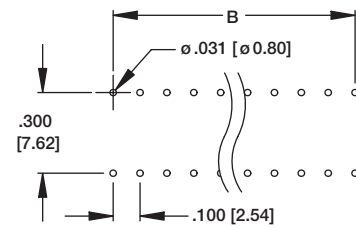


24P- 32P produced with center support bar.

A = .100 [2.54] X No. of Positions Per Row  
 B = .100 [2.54] X No. of Spaces Per Row



ICS-320-T

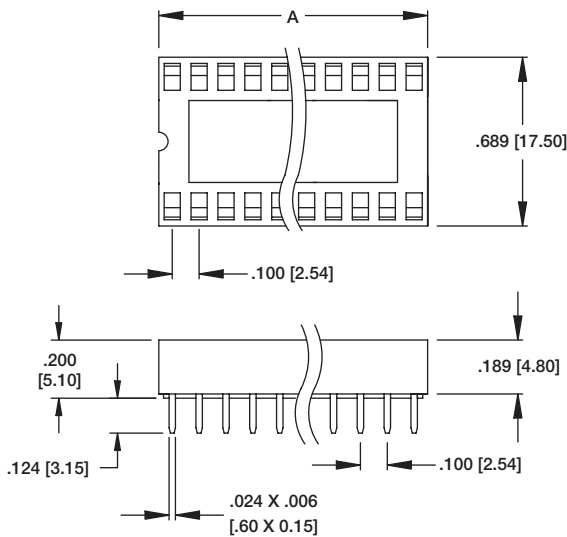


Recommended PCB Layout

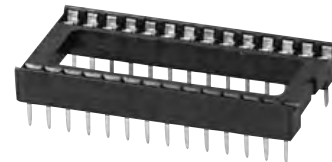
#### ICS SERIES

##### .600" ROW CENTERLINE

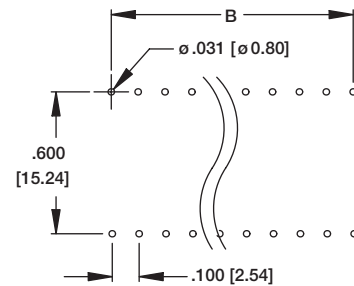
POSITIONS: 20, 24, 28, 32, 40 & 48



A = .100 [2.54] X No. of Positions Per Row  
 B = .100 [2.54] X No. of Spaces Per Row



ICS-628-T

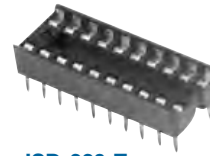
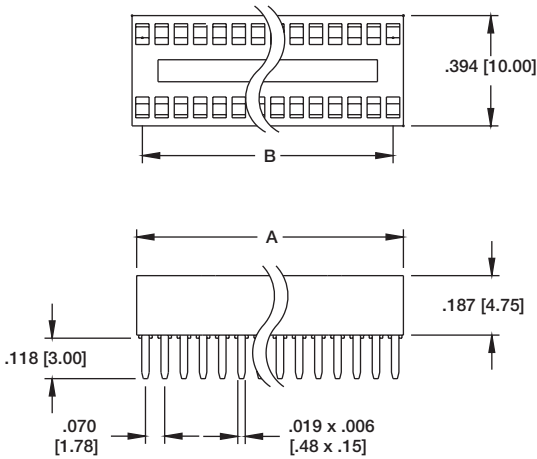


Recommended PCB Layout

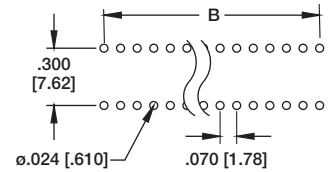
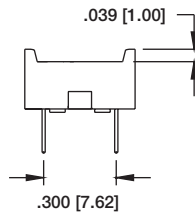


#### ISD SERIES

**.300" ROW CENTERLINE  
SHRINK DIP SOCKETS  
POSITIONS: 24, 28, 30**



**ISD-320-T**

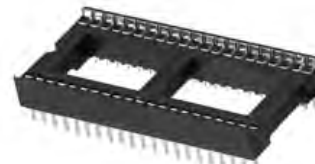
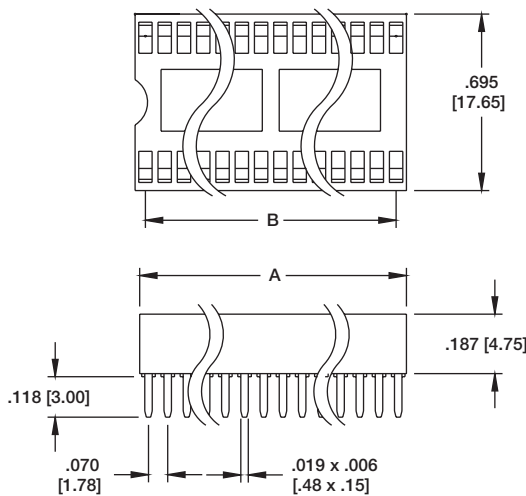


A = .070 [1.78] X No. of Positions Per Row  
B = .070 [1.78] X No. of Spaces

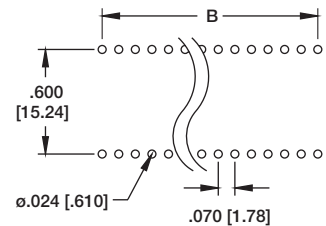
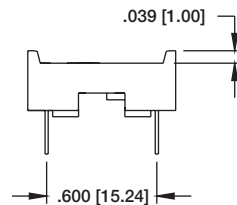
**Recommended PCB Layout**

#### ISD SERIES

**.600" ROW CENTERLINE  
SHRINK DIP SOCKETS  
POSITIONS: 40, 42**



**ISD-642-T**

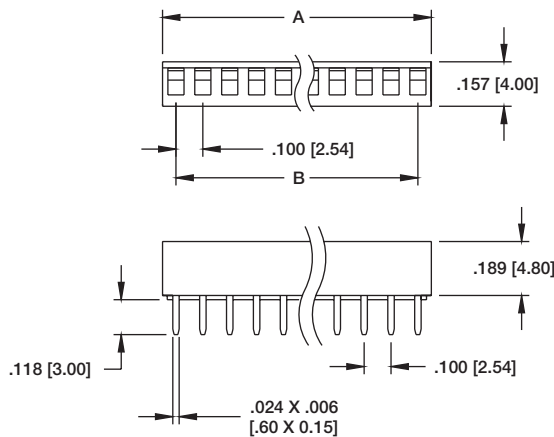


A = .070 [1.78] X No. of Positions Per Row  
B = .070 [1.78] X No. of Spaces

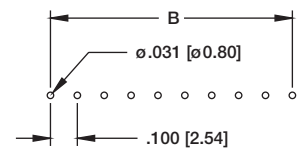
**Recommended PCB Layout**

#### SIS SERIES

**.100" SINGLE ROW  
POSITIONS: 2P-20P**



**SIS-12-T**



A = .100 [2.54] X No. of Positions  
B = .100 [2.54] X No. of Spaces

**Recommended PCB Layout**

### INTRODUCTION:

Adam Tech ICM Series Machine Pin Sockets and Terminal Strips offer a full range of exceptional quality, high reliability DIP and SIP package Sockets and Terminal Strips. Our sockets feature solid, precision turned sleeves with a closed bottom design to eliminate flux intrusion and solder wicking during soldering. Adam Tech's stamped spring copper insert provides an excellent connection and allows repeated insertion and withdrawals. Plating options include choice of gold, tin or selective gold plating. Our insulators are molded of UL94V-0 thermoplastic and both Sockets and Terminal Strips are XY stackable.

### FEATURES:

- High Pressure Contacts
- Precision Stamped Internal Spring Contact
- Anti-Solder Wicking design
- Machine Insertable
- Single or Dual Row
- Low Profile

### MATING COMPONENTS:

Any industry standard components with SIP or DIP leads

### SPECIFICATIONS:

#### Material:

Standard insulator: PBT, Glass reinforced, rated UL94V-0  
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0  
 Insulator Color: Black  
 Contacts: Phosphor Bronze

#### Contact Plating:

Gold over Nickel underplate and Tin over copper underplate

#### Electrical:

Operating voltage: 250V AC max.  
 Current rating: 1 Amp max.  
 Contact resistance: 30 mΩ max. initial  
 Insulation resistance: 1000 MΩ min.  
 Dielectric withstanding voltage: 500V AC for 1 minute

#### Mechanical:

Insertion force: 400 grams initial max with .025 dia. leads  
 Withdrawal force: 90 grams initial min with .025 dia. leads

#### Temperature Rating:

Operating temperature: -55°C to +85°C  
 Soldering process temperature:  
 Standard insulator: 235°C  
 Hi-Temp insulator: 260°C



### PACKAGING:

#### ANTI-ESD PLASTIC TUBES

Approvals and Certifications:  
 UL Recognized File no. E224053

### OPTIONS: (MCT series on pg. 191)

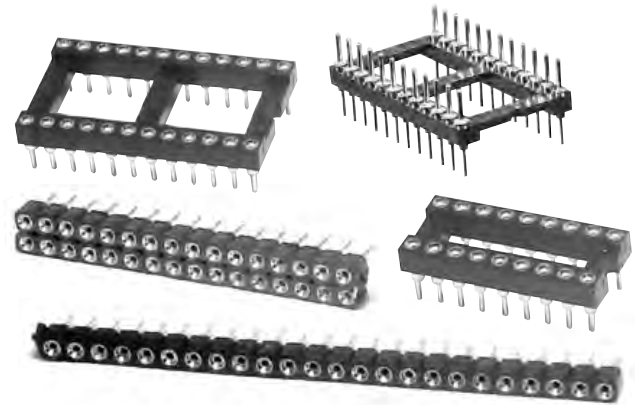
Add designator(s) to end of part number

**SMT** = Surface mount leads Dual Row

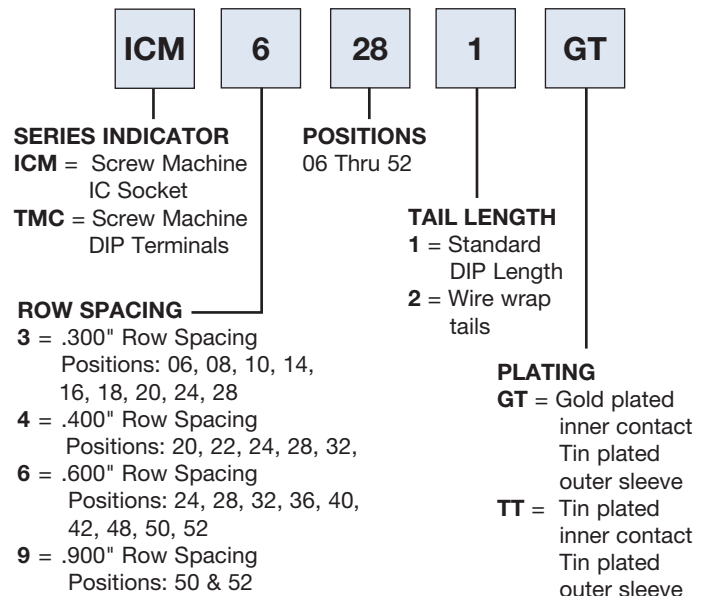
**SMT-A** = Surface mount leads Type A

**SMT-B** = Surface mount leads Type B

**HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

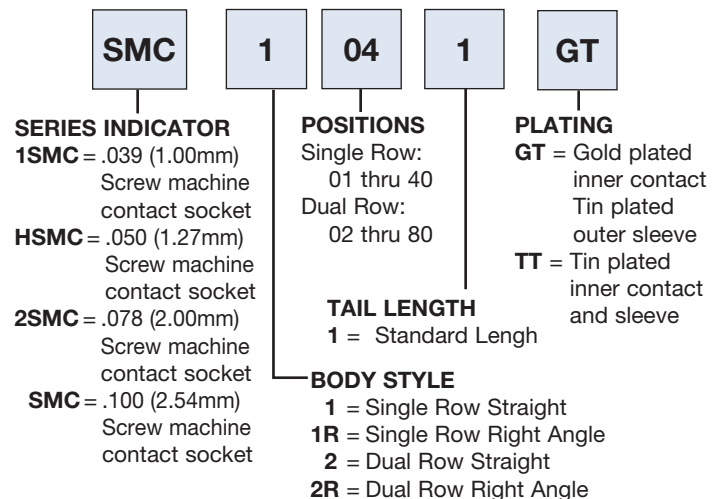


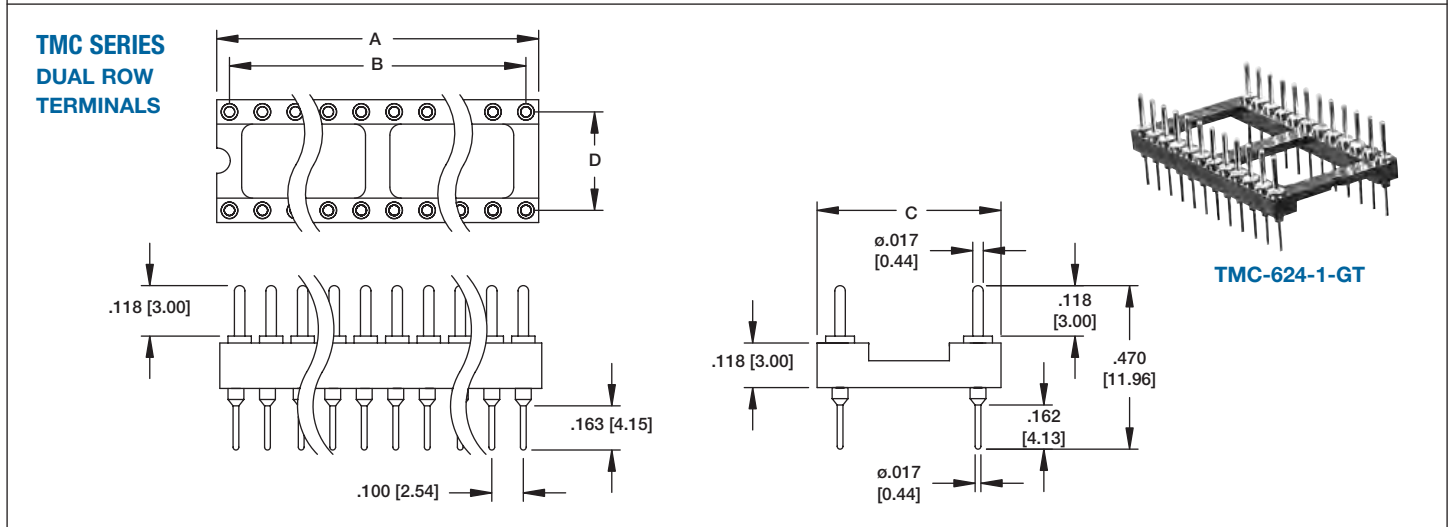
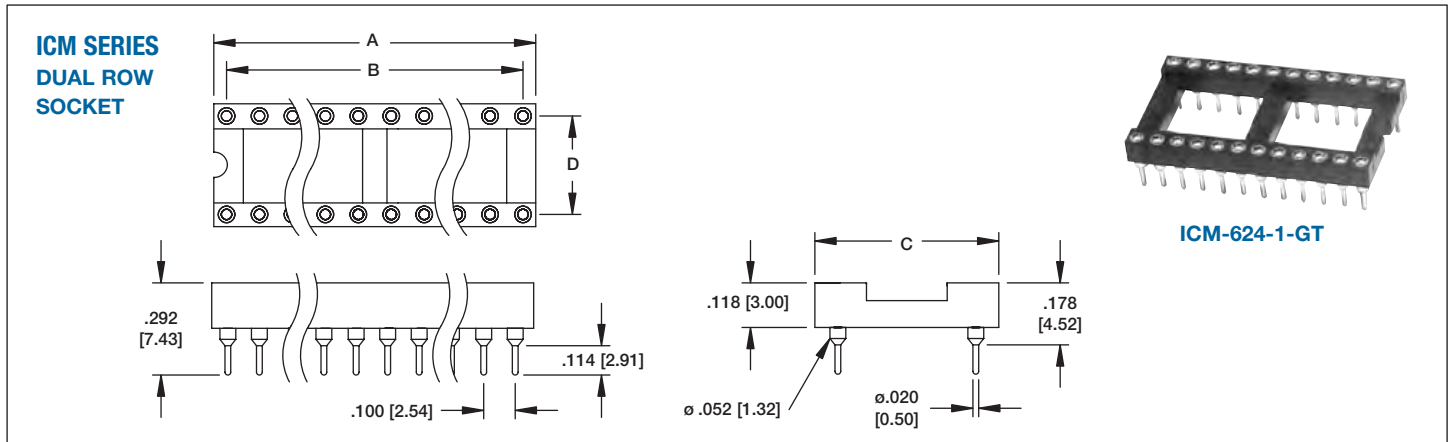
### ORDERING INFORMATION OPEN FRAME SCREW MACHINE SOCKETS & TERMINALS



SEE PG. 169

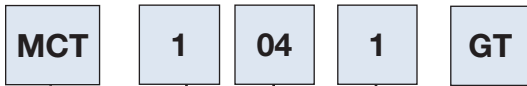
### ORDERING INFORMATION SCREW MACHINE SOCKETS





Drawings Pg.168

## ORDERING INFORMATION SCREW MACHINE TERMINAL STRIPS



**SERIES INDICATOR**  
**1MCT** = .039 (1.00mm) Screw machine contact terminal strip  
**HMCT** = .050 (1.27mm) Screw machine contact terminal strip  
**2MCT** = .078 (2.00mm) Screw machine contact terminal strip  
**MCT** = .100 (2.54mm) Screw machine contact terminal strip

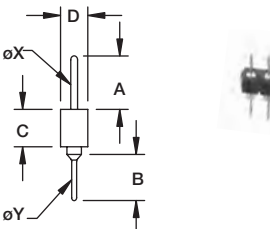

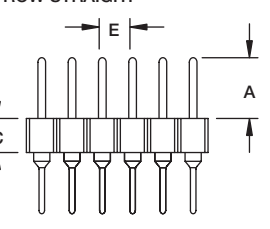
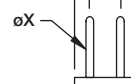
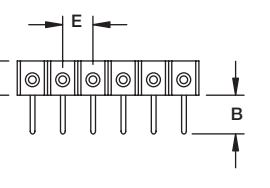
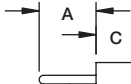
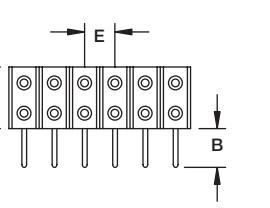
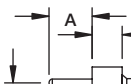
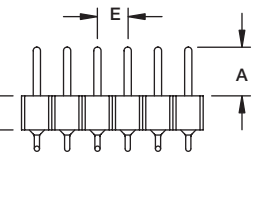
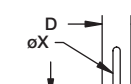
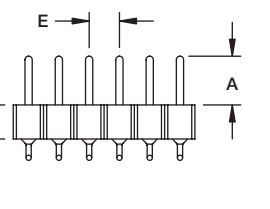

**POSITIONS**  
 Single Row: 01 thru 40  
 Dual Row: 02 thru 80

**PLATING**  
**GT** = Gold Internal Contact, Tin Sleeve  
**TT** = Tin Overall

**TAIL LENGTH**  
**1** = Standard Length  
**2** = Special Length, customer specified as tail length/total length

**BODY STYLE**  
**1** = Single Row Straight  
**1R** = Single Row Right Angle  
**2** = Dual Row Straight  
**2R** = Dual Row Right Angle

POSITION	ROW SPACING		C	D
	A	B		
6	.300 [7.62]	.200 [5.08]	.400 [10.16]	.300 [7.62]
8	.400 [10.16]	.300 [7.62]		
10	.500 [12.70]	.400 [10.16]		
14	.700 [17.78]	.600 [15.24]		
16	.800 [20.32]	.700 [17.78]		
18	.900 [22.86]	.800 [20.32]		
20	1.00 [25.40]	.900 [22.86]	.500 [12.70]	.400 [10.16]
24	1.20 [30.48]	1.10 [27.94]		
28	1.40 [35.56]	1.30 [33.02]		
20	1.00 [25.40]	.900 [22.86]		
22	1.10 [27.94]	1.00 [25.40]		
24	1.20 [30.48]	1.10 [27.94]		
28	1.40 [35.56]	1.30 [33.02]	.700 [17.78]	.600 [15.24]
32	1.60 [40.64]	1.50 [38.10]		
24	1.20 [30.48]	1.10 [27.94]		
28	1.40 [35.56]	1.30 [33.02]		
32	1.60 [40.64]	1.50 [38.10]		
36	1.80 [45.72]	1.70 [43.18]		
40	2.00 [50.80]	1.90 [48.26]	1.00 [25.40]	.900 [22.86]
42	2.10 [53.34]	1.90 [48.26]		
48	2.40 [60.96]	2.30 [58.42]		
50	2.50 [63.50]	2.40 [60.96]		
52	2.60 [66.04]	2.50 [63.50]		
50	2.50 [63.50]	2.40 [60.96]		
52	2.60 [66.04]	2.50 [63.50]		

CONFIGURATIONS	1MCT Series .039 [1.00] Pitch	HMCT Series .050 [1.27] Pitch	2MCT Series .078 [2.00] Pitch	MCT Series .100 [2.54] Pitch
<b>SINGLE ROW STRAIGHT</b>  	<p>A = .095 [2.43]                      B = .098 [2.50]                      C = .047 [1.20]                      D = .086 [2.20]                      øX = .015 [0.40]                      øY = .015 [0.40]</p> <p>POSITIONS: 1 THRU 40</p>	<p>A = .118 [3.00]                      B = .118 [3.00]                      C = .086 [2.20]                      D = .086 [2.20]                      øX = .017 [0.43]                      øY = .017 [0.43]</p> <p>POSITIONS: 1 THRU 40</p>	<p>A = .141 [3.60]                      B = .114 [2.90]                      C = .110 [2.80]                      D = .086 [2.20]                      øX = .018 [0.47]                      øY = .019 [0.50]</p> <p>POSITIONS: 1 THRU 40</p>	<p>A = .197 [5.00]                      B = .118 [3.00]                      C = .118 [3.00]                      D = .100 [2.54]                      øX = .030 [0.76]                      øY = .029 [0.60]</p> <p>POSITIONS: 1 THRU 40</p>
<b>DUAL ROW STRAIGHT</b>  		<p>.050 [1.27] Pitch  <b>HMCT-2-XX-1-G</b></p> <p>A = .118 [3.00]                      B = .118 [3.00]                      C = .078 [2.00]                      D = .128 [3.25]                      E = .050 [1.27]                      øX = .017 [0.43]                      øY = .017 [0.43]</p> <p>POSITIONS: 2 THRU 80</p>	<p>.078 [2.00] Pitch  <b>2MCT-2-XX-1-G</b></p> <p>A = .141 [3.60]                      B = .114 [2.90]                      C = .110 [2.80]                      D = .165 [4.20]                      E = .078 [2.00]                      øX = .018 [0.47]                      øY = .019 [0.50]</p> <p>POSITIONS: 2 THRU 80</p>	<p>.100 [2.54] Pitch  <b>MCT-2-XX-1-G</b></p> <p>A = .197 [5.00]                      B = .118 [3.00]                      C = .118 [3.00]                      D = .200 [5.08]                      E = .100 [2.54]                      øX = .030 [0.76]                      øY = .023 [0.60]</p> <p>POSITIONS: 2 THRU 80</p>
<b>SINGLE ROW RIGHT ANGLE</b>  		<p>.050 [1.27] Pitch  <b>HMCT-1R-XX-1-G</b></p> <p>A = .118 [3.00]                      B = .118 [3.00]                      C = .086 [2.20]                      D = .086 [2.20]                      E = .050 [1.27]                      F = .133 [3.40]                      øX = .017 [0.43]                      øY = .017 [0.43]</p> <p>POSITIONS: 1 THRU 40</p>	<p>.078 [2.00] Pitch  <b>2MCT-1R-XX-1-G</b></p> <p>A = .141 [3.60]                      B = .126 [3.20]                      C = .110 [2.80]                      D = .086 [2.20]                      E = .078 [2.00]                      F = .177 [4.50]                      øX = .018 [0.47]                      øY = .019 [0.50]</p> <p>POSITIONS: 1 THRU 40</p>	<p>.100 [2.54] Pitch  <b>MCT-1R-XX-1-G</b></p> <p>A = .197 [5.00]                      B = .126 [3.20]                      C = .118 [3.00]                      D = .100 [2.54]                      E = .100 [2.54]                      F = .177 [4.50]                      øX = .030 [0.76]                      øY = .023 [0.60]</p> <p>POSITIONS: 1 THRU 40</p>
<b>DUAL ROW RIGHT ANGLE</b>  		<p>.050 [1.27] Pitch  <b>HMCT-2R-XX-1-G</b></p> <p>A = .118 [3.00]                      B = .118 [3.00]                      C = .082 [2.10]                      D = .128 [3.25]                      E = .050 [1.27]                      F = .122 [3.10]                      øX = .017 [0.43]                      øY = .017 [0.43]</p> <p>POSITIONS: 2 THRU 80</p>	<p>.078 [2.00] Pitch  <b>2MCT-2R-XX-1-G</b></p> <p>A = .141 [3.60]                      B = .126 [3.20]                      C = .110 [2.80]                      D = .165 [4.20]                      E = .078 [2.00]                      F = .177 [4.50]                      øX = .018 [0.47]                      øY = .019 [0.50]</p> <p>POSITIONS: 2 THRU 80</p>	<p>.100 [2.54] Pitch  <b>MCT-2R-XX-1-G</b></p> <p>A = .197 [5.00]                      B = .126 [3.20]                      C = .118 [3.00]                      D = .200 [5.08]                      E = .100 [2.54]                      F = .177 [4.50]                      øX = .030 [0.76]                      øY = .023 [0.60]</p> <p>POSITIONS: 2 THRU 80</p>
<b>SINGLE ROW SURFACE MOUNT</b>  		<p>.050 [1.27] Pitch  <b>HMCT-1-XX-1-G-SMT</b></p> <p>A = .118 [3.00]                      B = .132 [3.35]                      C = .078 [2.00]                      D = .086 [2.20]                      E = .050 [1.27]                      G = .182 [4.63]                      øX = .017 [0.43]                      øY = .017 [0.43]</p> <p>POSITIONS: 1 THRU 40</p>	<p>.078 [2.00] Pitch  <b>2MCT-1-XX-1-G-SMT</b></p> <p>A = .141 [3.60]                      B = .189 [4.80]                      C = .110 [2.80]                      D = .086 [2.20]                      E = .078 [2.00]                      G = .173 [4.40]                      øX = .016 [0.47]                      øY = .019 [0.50]</p> <p>POSITIONS: 1 THRU 40</p>	<p>.100 [2.54] Pitch  <b>MCT-1-XX-1-G-SMT</b></p> <p>A = .197 [5.00]                      B = .189 [4.80]                      C = .118 [3.00]                      D = .100 [2.54]                      E = .100 [2.54]                      G = .173 [4.40]                      øX = .030 [0.76]                      øY = .023 [0.60]</p> <p>POSITIONS: 1 THRU 40</p>
<b>DUAL ROW SURFACE MOUNT</b>  		<p>.050 [1.27] Pitch  <b>HMCT-2-XX-1-G-SMT</b></p> <p>A = .118 [3.00]                      B = .132 [3.35]                      C = .078 [2.00]                      D = .128 [3.25]                      E = .050 [1.27]                      G = .232 [5.90]                      øX = .017 [0.43]                      øY = .017 [0.43]</p> <p>POSITIONS: 2 THRU 80</p>	<p>.078 [2.00] Pitch  <b>2MCT-2-XX-1-G-SMT</b></p> <p>A = .141 [3.60]                      B = .189 [4.80]                      C = .110 [2.80]                      D = .165 [4.20]                      E = .078 [2.00]                      G = .252 [6.40]                      øX = .016 [0.47]                      øY = .019 [0.50]</p> <p>POSITIONS: 2 THRU 80</p>	<p>.100 [2.54] Pitch  <b>MCT-2-XX-1-G-SMT</b></p> <p>A = .197 [5.00]                      B = .189 [4.80]                      C = .118 [3.00]                      D = .200 [5.08]                      E = .100 [2.54]                      G = .315 [8.00]                      øX = .030 [0.76]                      øY = .023 [0.60]</p> <p>POSITIONS: 2 THRU 80</p>

CONFIGURATIONS	1SMC Series .039 [1.00] Pitch	HSMC Series .050 [1.27] Pitch	2SMC Series .078 [2.00] Pitch	SMC Series .100 [2.54] Pitch
<b>SINGLE ROW STRAIGHT</b> 	<p>A = .039 [1.00] C = .086 [2.20] D = .098 [2.50] E = .197 [5.00] øX = .015 [0.40]</p> <p>POSITIONS: 1 THRU 40</p>	<p>A = .050 [1.27] C = .086 [2.20] D = .161 [4.10] E = .252 [6.40] øX = .018 [0.46]</p> <p>POSITIONS: 1 THRU 40</p>	<p>A = .078 [2.00] C = .086 [2.20] D = .110 [2.80] E = .291 [7.40] øX = .021 [0.53]</p> <p>POSITIONS: 1 THRU 40</p>	<p>A = .100 [2.54] C = .100 [2.54] D = .118 [3.00] E = .292 [7.43] øX = .020 [0.51]</p> <p>POSITIONS: 1 THRU 40</p>
<b>DUAL ROW STRAIGHT</b> 	<p>.050 [1.27] Pitch <b>HSMC-2-XX-1-GT</b></p> <p>A = .050 [1.27] B = .050 [1.27] C = .128 [3.25] D = .161 [4.10] E = .252 [6.40] øX = .018 [0.46]</p> <p>POSITIONS: 2 THRU 80</p>	<p>.078 [2.00] Pitch <b>2SMC-2-XX-1-GT</b></p> <p>A = .078 [2.00] B = .078 [2.00] C = .165 [4.20] D = .110 [2.80] E = .291 [7.40] øX = .021 [0.53]</p> <p>POSITIONS: 2 THRU 80</p>	<p>.100 [2.54] Pitch <b>SMC-2-XX-1-GT</b></p> <p>A = .100 [2.54] B = .100 [2.54] C = .200 [5.08] D = .118 [3.00] E = .292 [7.43] øX = .020 [0.51]</p> <p>POSITIONS: 2 THRU 80</p>	
<b>SINGLE ROW RIGHT ANGLE</b> 	<p>.050 [1.27] Pitch <b>HSMC-1R-XX-1-GT</b></p> <p>A = .050 [1.27] C = .086 [2.20] D = .161 [4.10] E = .118 [3.00] F = .208 [5.30] øX = .018 [0.46]</p> <p>POSITIONS: 1 THRU 40</p>	<p>.078 [2.00] Pitch <b>2SMC-1R-XX-1-GT</b></p> <p>A = .078 [2.00] C = .086 [2.20] D = .110 [2.80] E = .126 [3.20] F = .220 [5.60] øX = .021 [0.53]</p> <p>POSITIONS: 1 THRU 40</p>	<p>.100 [2.54] Pitch <b>SMC-1R-XX-1-GT</b></p> <p>A = .100 [2.54] C = .100 [2.54] D = .118 [3.00] E = .126 [3.20] F = .220 [5.60] øX = .024 [0.62]</p> <p>POSITIONS: 1 THRU 40</p>	
<b>DUAL ROW RIGHT ANGLE</b> 	<p>.050 [1.27] Pitch <b>HSMC-2R-XX-1-GT</b></p> <p>A = .050 [1.27] B = .050 [1.27] C = .128 [3.25] D = .161 [4.10] E = .118 [3.00] F = .208 [5.30] øX = .018 [0.46]</p> <p>POSITIONS: 2 THRU 80</p>	<p>.078 [2.00] Pitch <b>2SMC-2R-XX-1-GT</b></p> <p>A = .078 [2.00] B = .078 [2.00] C = .165 [4.20] D = .110 [2.80] E = .126 [3.20] F = .220 [5.60] øX = .021 [0.53]</p> <p>POSITIONS: 2 THRU 80</p>	<p>.100 [2.54] Pitch <b>SMC-2R-XX-1-GT</b></p> <p>A = .100 [2.54] B = .100 [2.54] C = .200 [5.08] D = .118 [3.00] E = .126 [3.20] F = .220 [5.60] øX = .024 [0.62]</p> <p>POSITIONS: 2 THRU 80</p>	
<b>SINGLE ROW SURFACE MOUNT</b> 	<p>.050 [1.27] Pitch <b>HSMC-1-XX-1-GT-SMT</b></p> <p>A = .050 [1.27] C = .086 [2.20] D = .161 [4.10] E = .204 [5.20] F = .134 [3.40] øX = .018 [0.46]</p> <p>POSITIONS: 1 THRU 40</p>	<p>.078 [2.00] Pitch <b>2SMC-1-XX-1-GT-SMT</b></p> <p>A = .078 [2.00] C = .086 [2.20] D = .110 [2.80] E = .228 [5.80] F = .173 [4.40] øX = .021 [0.53]</p> <p>POSITIONS: 1 THRU 40</p>	<p>.100 [2.54] Pitch <b>SMC-1-XX-1-GT-SMT</b></p> <p>A = .100 [2.54] C = .100 [2.54] D = .118 [3.00] E = .220 [5.60] F = .182 [4.64] øX = .024 [0.62]</p> <p>POSITIONS: 1 THRU 40</p>	
<b>DUAL ROW SURFACE MOUNT</b> 	<p>.050 [1.27] Pitch <b>HSMC-2-XX-1-GT-SMT</b></p> <p>A = .050 [1.27] B = .050 [1.27] C = .128 [3.25] D = .161 [4.10] E = .204 [5.20] F = .193 [4.90] øX = .018 [0.46]</p> <p>POSITIONS: 2 THRU 80</p>	<p>.078 [2.00] Pitch <b>2SMC-2-XX-1-GT-SMT</b></p> <p>A = .078 [2.00] B = .078 [2.00] C = .165 [4.20] D = .110 [2.80] E = .228 [5.80] F = .252 [6.40] øX = .021 [0.53]</p> <p>POSITIONS: 2 THRU 80</p>	<p>.100 [2.54] Pitch <b>SMC-2-XX-1-GT-SMT</b></p> <p>A = .100 [2.54] B = .100 [2.54] C = .200 [5.08] D = .118 [3.00] E = .220 [5.60] F = .282 [7.18] øX = .024 [0.62]</p> <p>POSITIONS: 2 THRU 80</p>	

### INTRODUCTION:

Adam Tech DIMM (Dual in Line Memory Module) , S.O. DIMM (Small outline DIMM) & DDR (Double Data Rate) sockets are precision designed sockets for add-on memory modules. Offered in SMT & straight plug in mounting, their precision formed bellow style contacts are manufactured with extremely close tolerances for superior, precise alignment during mating. The DIMM and DDR latching sockets have a smooth actuation and a positive, audible sound to determine proper insertion.

### FEATURES:

184 contacts on high density .050" Centerlines  
Complies with JEDEC specifications  
Available in five key versions  
Latches function both as Lock & Ejector

### MATING OPTIONS:

All industry standard memory modules

### SPECIFICATIONS:

#### Material:

Standard insulator: Glass reinforced, rated UL94V-0  
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0  
Latch: Nylon 66 rated UL94V-0  
Insulator color: DIMM & DDR: Black  
SO DIMM: White  
Contacts: Phosphor Bronze

#### Contact Plating:

Gold over nickel underplate in contacts area, tin over copper underplate on solder tails

#### Electrical:

Operating voltage: 250V AC max.  
Current rating: 0.5 Amp max.  
Contact resistance: 30 mΩ max. initial  
Insulation resistance: 1000 MΩ min.  
Dielectric withstanding voltage: 500V AC for 1 minute

#### Mechanical:

Insertion Force: 4 oz max  
Withdrawal Force: 1 oz min

#### Temperature Rating:

Operating temperature: -55°C to +105°C  
Soldering process temperature:  
Standard insulator: 235°C  
Hi-Temp insulator: 260°C

#### PACKAGING:

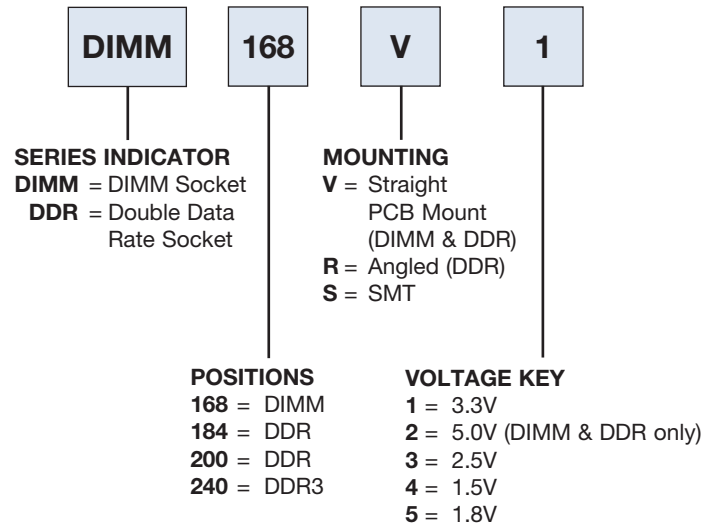
Anti-ESD plastic trays

#### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



### ORDERING INFORMATION

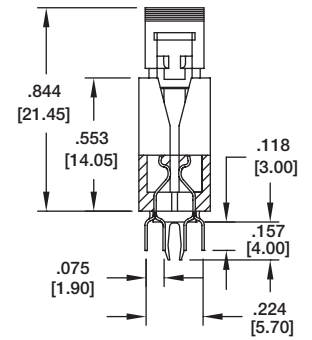
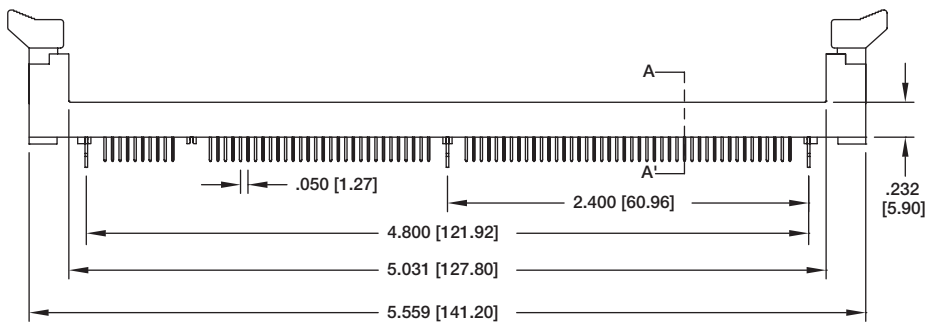
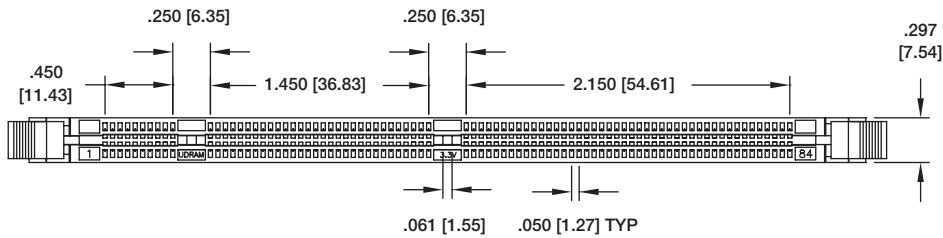


#### OPTIONS:

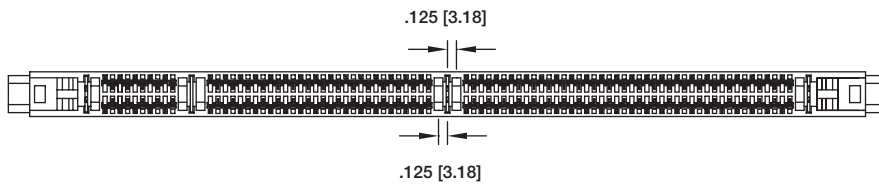
Add designator(s) to end of part number  
**30** = 30 μin gold plating in contact area  
**HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C  
**YW** = Yellow insulator (DDR only)  
**PU** = Purple insulator (DDR only)



### DIMM SOCKET 168 PIN DIMM-168-V-1



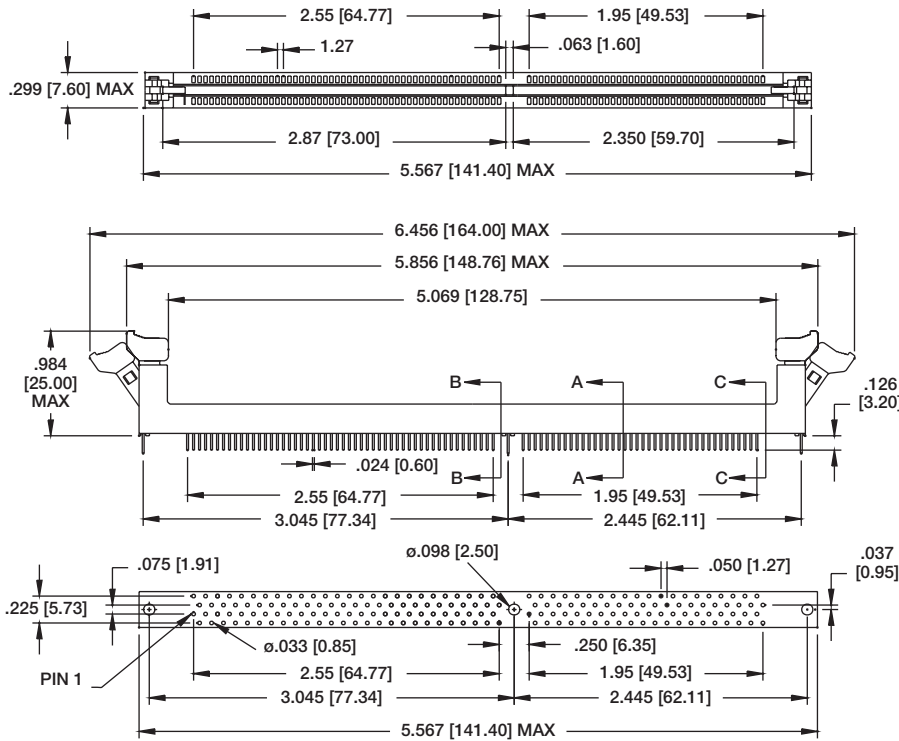
SECTION: A-A



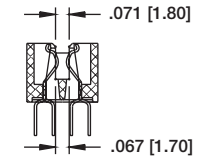


### DDR SOCKET 184P-STRAIGHT

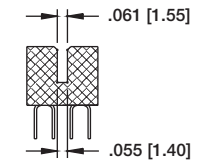
#### DDR-184-V-1



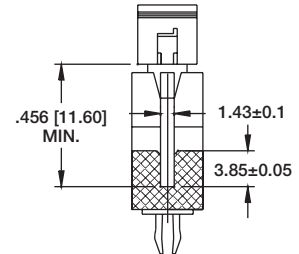
Recommended PCB Layout



DETAIL A-A



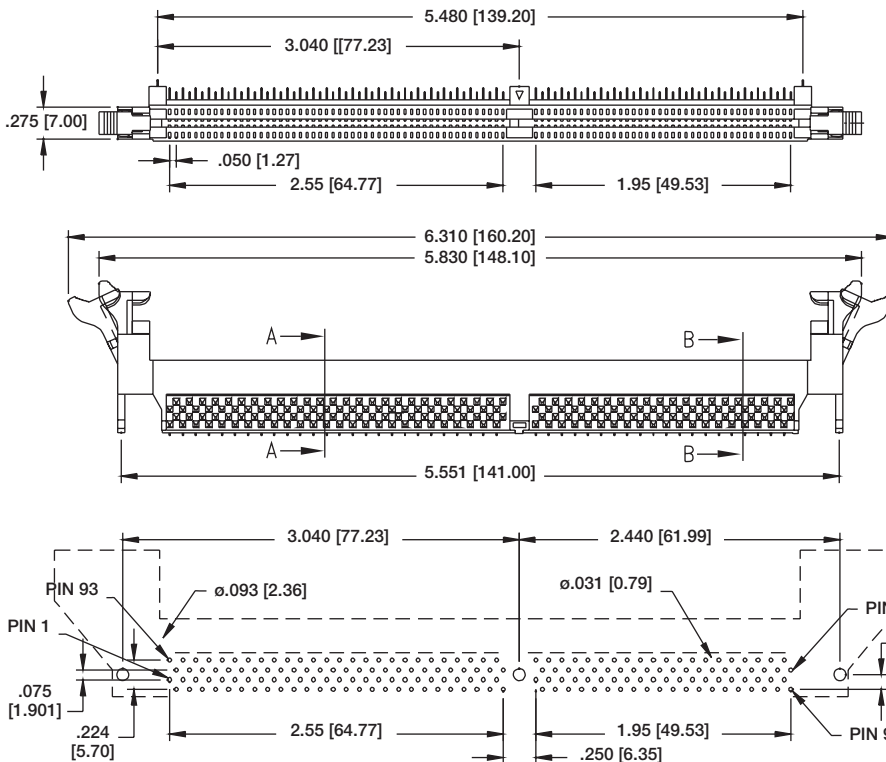
DETAIL B-B



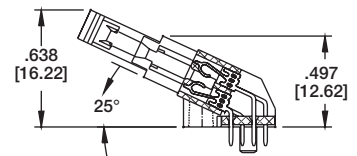
DETAIL C-C

### DDR SOCKET 184P-ANGLED

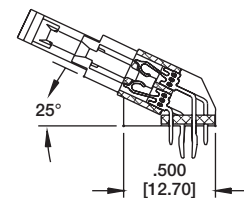
#### DDR-184-R-1



Recommended PCB Layout



SECTION B-B



SECTION A-A

2.54mm [.100"] CENTERLINE

1.25mm [.049"] CENTERLINE

1.00mm [.039"] CENTERLINE

0.50mm [.020"] CENTERLINE

PCB SERIES

### INTRODUCTION:

Adam Tech PCB Series Flexible Printed Circuit (FPC) and Flexible Flat Cable (FFC) connectors are a LIF (low insertion force) design that provides a low cost, fast, easy and reliable connection of flexible printed circuits to a PCB. Adam Tech's special contact design preserves conductor integrity while producing a stable, high pressure connection. This series includes single and dual row versions in 2.54mm, 1.25mm, 1.00mm & 0.50mm centerlines with vertical or horizontal orientations.

### FEATURES:

Superior contact design protects conductors  
High pressure contacts  
Single or dual row versions  
Choice of 2.54mm, 1.25mm, 1.00mm & 0.50mm centerlines

### MATING FPC & FFC CABLE:

Mates with flat flexible cable and flexible printed circuits with thickness of 0.3mm

### SPECIFICATIONS:

#### Material:

Standard insulator: PBT, Glass reinforced, rated UL94V-0  
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0  
Insulator color: Black  
Contacts: Phosphor Bronze

#### Contact Plating:

Tin over copper underplate

#### Electrical:

Operating voltage: 100V AC max.  
Current rating: .039" Spacing: 0.5 Amp max.  
.049" Spacing: 1 Amp max  
.100" Spacing: 3 Amps max  
Contact resistance: 30 mΩ max. initial  
Insulation resistance: 500 MΩ min.  
Dielectric withstanding voltage: 500V AC for 1 minute

#### Mechanical:

Insertion Force: 5 oz max  
Withdrawal Force: 3 oz min

#### Temperature Rating:

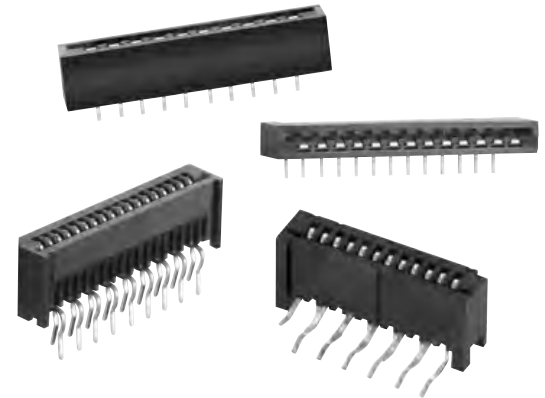
Operating temperature: -40°C to +85°C  
Soldering process temperature:  
Standard insulator: 235°C  
Hi-Temp insulator: 260°C

#### PACKAGING:

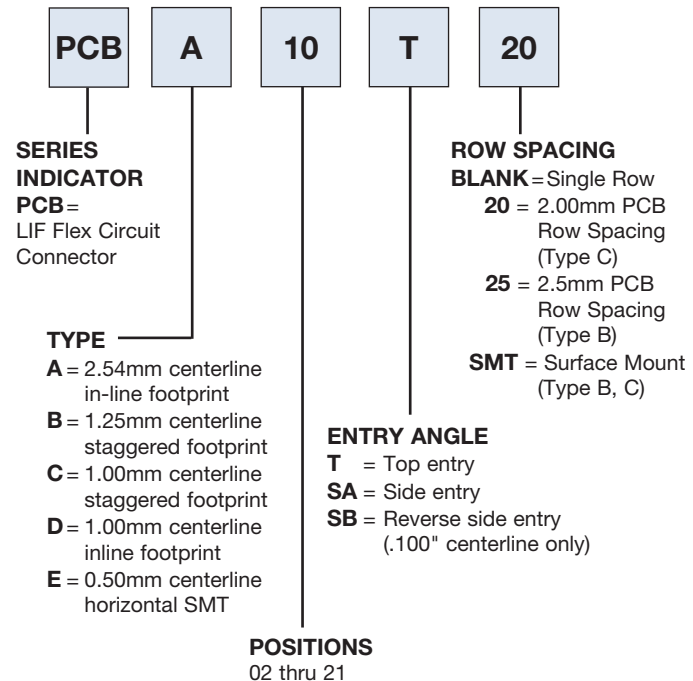
Anti-ESD plastic tubes or trays

#### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



### ORDERING INFORMATION

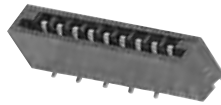


#### OPTIONS

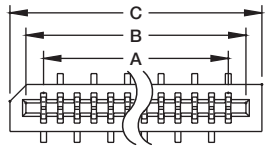
Add designator(s) to end of part number  
HT= Hi-Temp insulator for Hi-Temp soldering processes up to 260°C



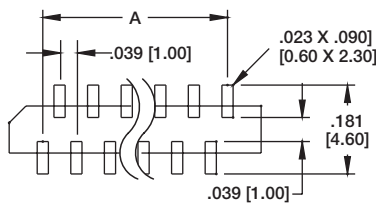
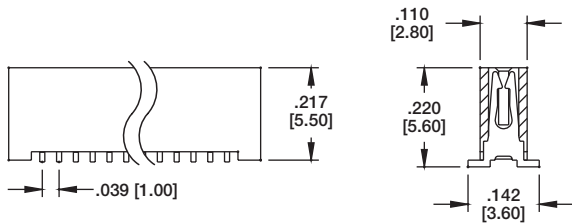
**PCB-C**  
1.00 (.039") TOP ENTRY SMT



**PCB-C-09-T-SMT**



A = .039 [1.00] X No. of Spaces  
B = A + .090 [2.30]  
C = A + .157 [4.00]

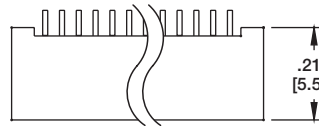


**Recommended PCB Layout**

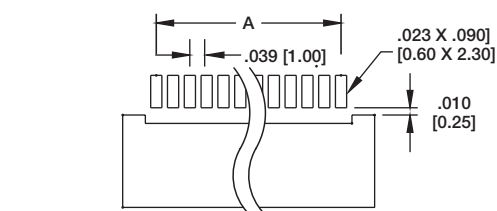
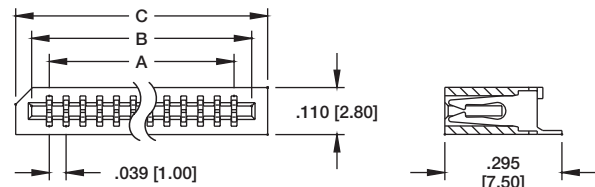
**PCB-C**  
1.00 (.039") SIDE ENTRY SMT



**PCB-C-18-SA-SMT**



A = .039 [1.00] X No. of Spaces  
B = A + .090 [2.30]  
C = A + .157 [4.00]

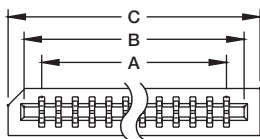


**Recommended PCB Layout**

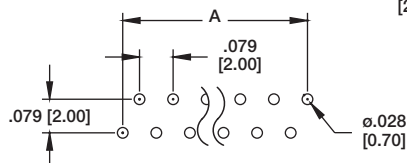
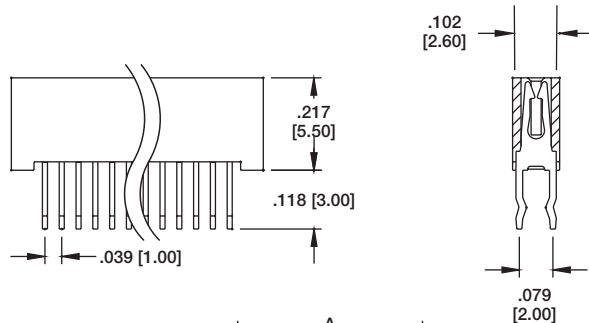
**PCB-C**  
1.00 (.039") TOP ENTRY THRU HOLE



**PCB-C-18-T-20**

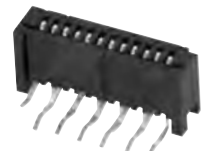


A = .039 [1.00] X No. of Spaces  
B = A + .090 [2.30]  
C = A + .157 [4.00]

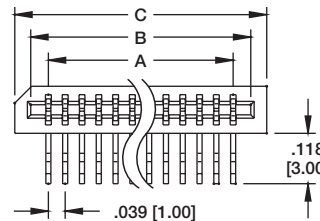


**Recommended PCB Layout**

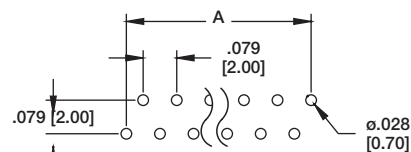
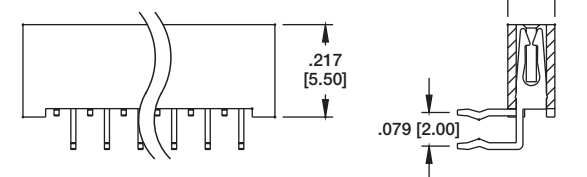
**PCB-C**  
1.00 (.039") SIDE ENTRY THRU HOLE



**PCB-C-12-SA-20**

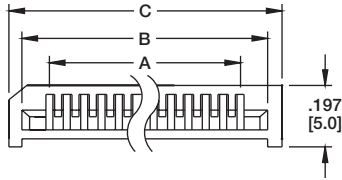


A = .039 [1.00] X No. of Spaces  
B = A + .090 [2.30]  
C = A + .157 [4.00]

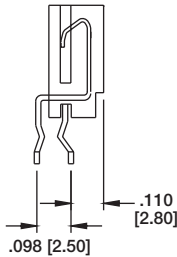
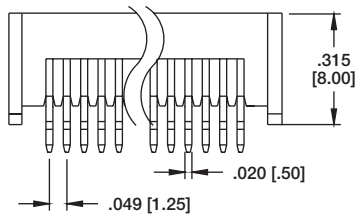


**Recommended PCB Layout**

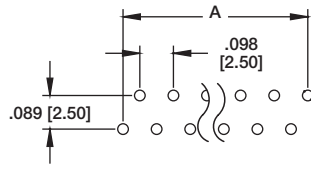
**PCB-B**  
1.25 (.049") TOP ENTRY THRU HOLE



**PCB-B-18-T-25**

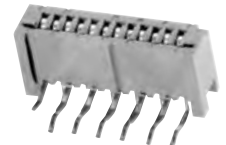
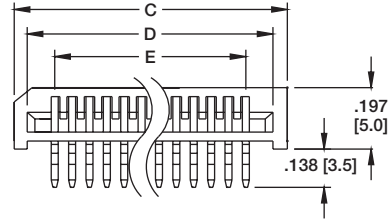


A = .049 [1.25] X No. of Spaces  
B = A + .098 [2.50]  
C = A + .197 [5.00]

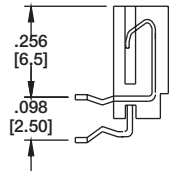
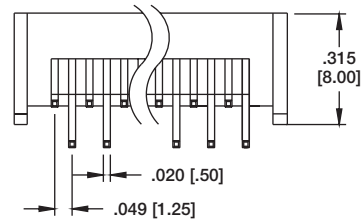


**Recommended PCB Layout**

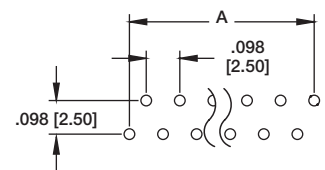
**PCB-B**  
1.25 (.049") SIDE ENTRY THRU HOLE



**PCB-B-12-SA-25**

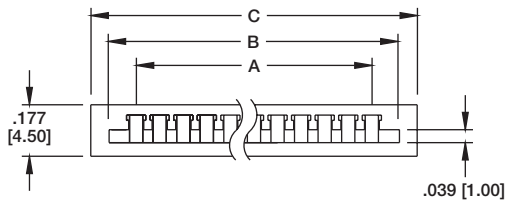


A = .049 [1.25] X No. of Spaces  
B = A + .098 [2.50]  
C = A + .197 [5.00]

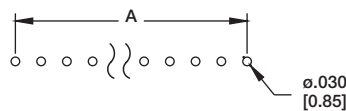
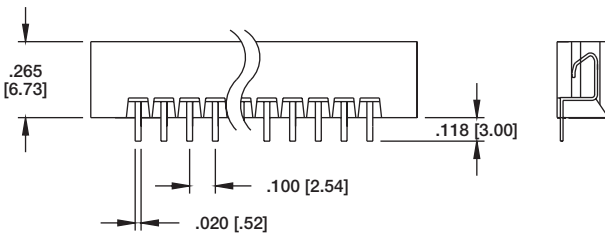


**Recommended PCB Layout**

**PCB-A**  
.100" (2.54) TOP ENTRY INLINE THRU HOLE



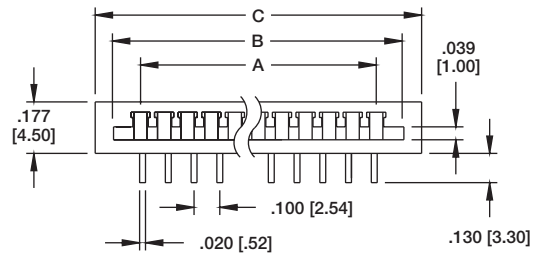
**PCB-A-10-T**



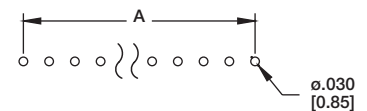
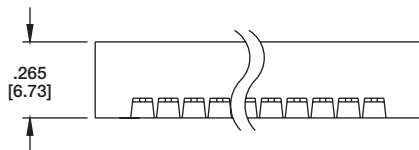
A = .100 [2.54] x no. of Spaces  
B = A + .232 [5.90]  
C = A + .315 [8.00]

**Recommended PCB Layout**

**PCB-A**  
.100" (2.54) SIDE ENTRY INLINE THRU HOLE



**PCB-A-13-SA**



A = .100 [2.54] x no. of Spaces  
B = A + .232 [5.90]  
C = A + .315 [8.00]

**Recommended PCB Layout**

0.3mm [.012"] CENTERLINE  
 0.5mm [.020"] CENTERLINE  
 0.8mm [.031"] CENTERLINE  
 1.0mm [.039"] CENTERLINE  
 1.25mm [.049"] CENTERLINE  
 PCA SERIES

**INTRODUCTION:**

Adam Tech PCA Series Flexible Printed Circuit (FPC) and Flexible Flat Cable (FFC) connectors are ZIF (zero insertion force) connectors designed to provide a fast, easy, reliable method to make a connection of flexible printed circuits to a PCB. Adam Tech's special contact design completely preserves conductor integrity by eliminating all wiping action while making connection. Flex circuitry enters the connector and the connector cap is pressed down to capture the flex circuit producing a stable, high pressure connection. Raising the cap releases the pressure for exchange or replacement of circuitry. This series includes single and dual row versions in thru-hole or SMT mounting in vertical or horizontal orientations.

**FEATURES:**

Superior contact design protects conductors  
 High pressure contacts  
 Single or dual row versions  
 Choice of .3mm, .5mm, .8mm, 1mm & 1.25mm centerlines

**MATING FPC & FFC:**

Mates with .3mm, .5mm, .8mm, 1mm & 1.25mm centerline flat flexible circuits with thickness range of 0.1mm to 0.3mm

**SPECIFICATIONS:**

**Material:**

Hi-Temp Insulator: LCP, Glass reinforced, rated UL94V-0  
 Insulator color: Natural  
 Contacts: Phosphor Bronze

**Contact Plating:**

Tin over copper underplate overall

**Electrical:**

Operating voltage: 100V AC max.  
 Current rating: .020" Spacing: 0.4 Amps max.  
 .031" & .039" Spacing: 0.5 Amps max  
 .049" Spacing: 1 Amp max

Contact resistance: 30 mΩ max. initial  
 Insulation resistance: 500 MΩ min.  
 Dielectric withstanding voltage: 500V AC for 1 minute

**Mechanical:**

Insertion Force: 0 oz max  
 Withdrawal Force: 13 oz min

**Temperature Rating:**

Operating temperature: -40°C to +85°C  
 Soldering process temperature: 260°C

**PACKAGING:**

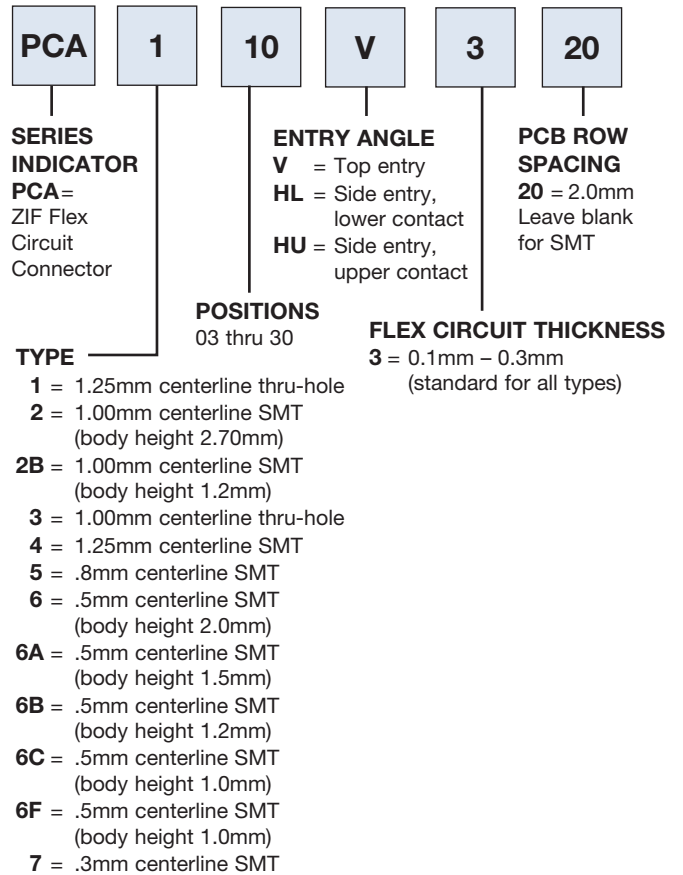
Anti-ESD plastic tubes or Tape and Reel

**APPROVALS AND CERTIFICATIONS:**

UL Recognized File no. E224053



**ORDERING INFORMATION**

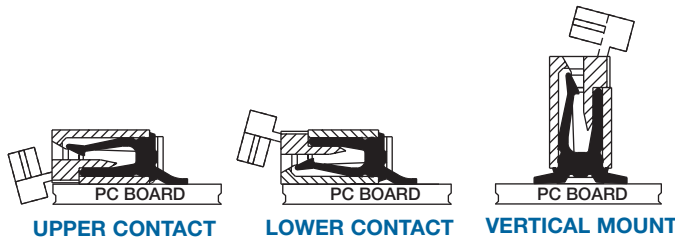


**OPTIONS:**

Add designator(s) to end of part number  
**G** = Gold plated contacts  
**TR** = Tape and reel packaging



### CONTACT SECTION VIEWS



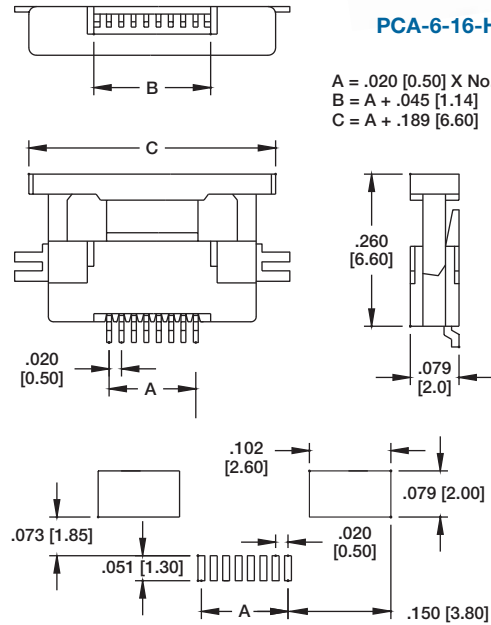
### PCA-6

#### .5mm (.020") SIDE ENTRY SMT



**PCA-6-16-HU-3**

A = .020 [0.50] X No. of Spaces  
 B = A + .045 [1.14]  
 C = A + .189 [6.60]



#### Recommended PCB Layout

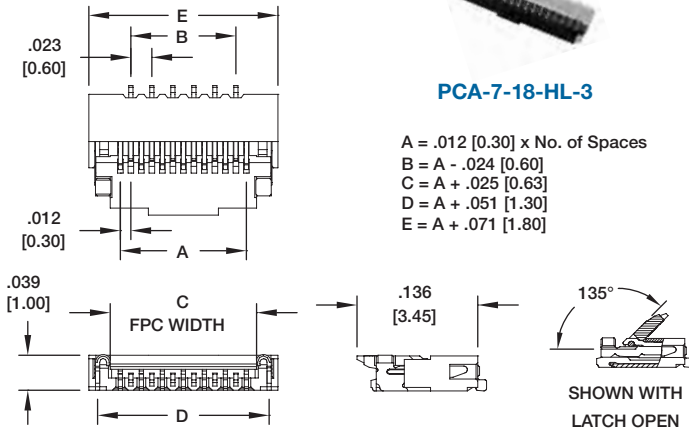
### PCA-7

#### .3mm (.012") SIDE ENTRY SMT



**PCA-7-18-HL-3**

A = .012 [0.30] x No. of Spaces  
 B = A - .024 [0.60]  
 C = A + .025 [0.63]  
 D = A + .051 [1.30]  
 E = A + .071 [1.80]



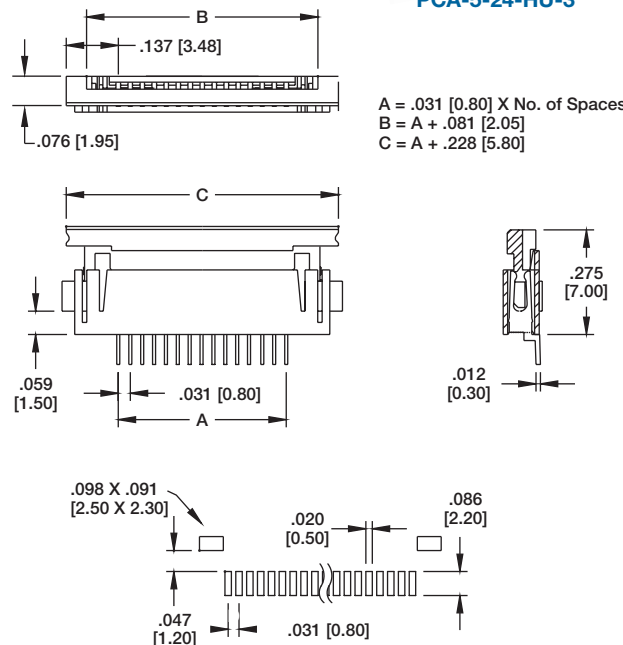
### PCA-5

#### .8mm (.031") SIDE ENTRY SMT



**PCA-5-24-HU-3**

A = .031 [0.80] X No. of Spaces  
 B = A + .081 [2.05]  
 C = A + .228 [5.80]



#### Recommended PCB Layout

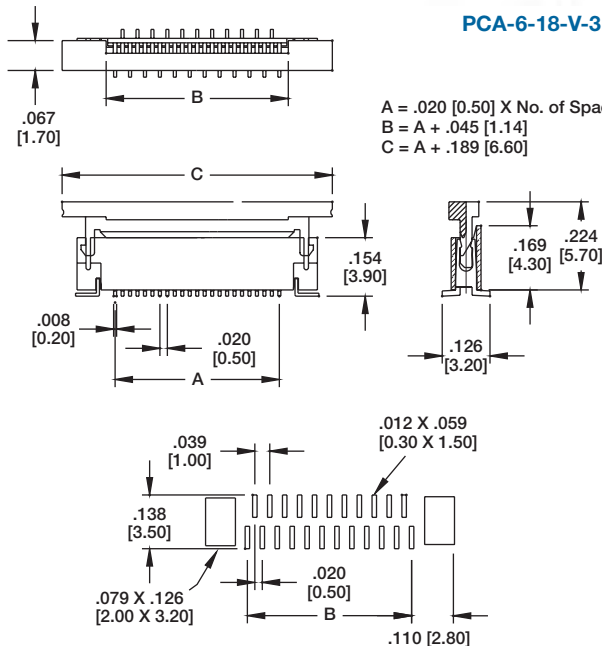
### PCA-6

#### .5mm (.020") TOP ENTRY SMT



**PCA-6-18-V-3**

A = .020 [0.50] X No. of Spaces  
 B = A + .045 [1.14]  
 C = A + .189 [6.60]



#### Recommended PCB Layout

## PCA-2

1.00mm (.039")

SIDE ENTRY SMT

$$A = .039 [1.00] \times \text{No. of Spaces}$$

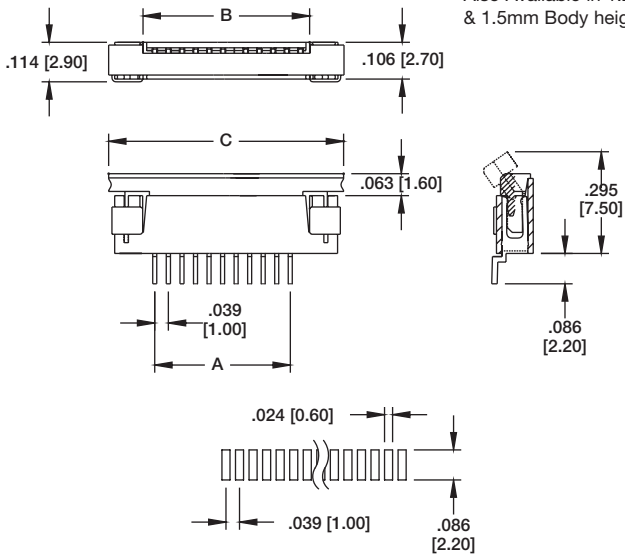
$$B = A + .090 [2.30]$$

$$C = A + .280 [7.10]$$



### PCA-2-10-HU-3

Also Available in 1.2mm & 1.5mm Body heights



Recommended PCB Layout

## PCA-2

1.00mm (.039")

TOP ENTRY SMT

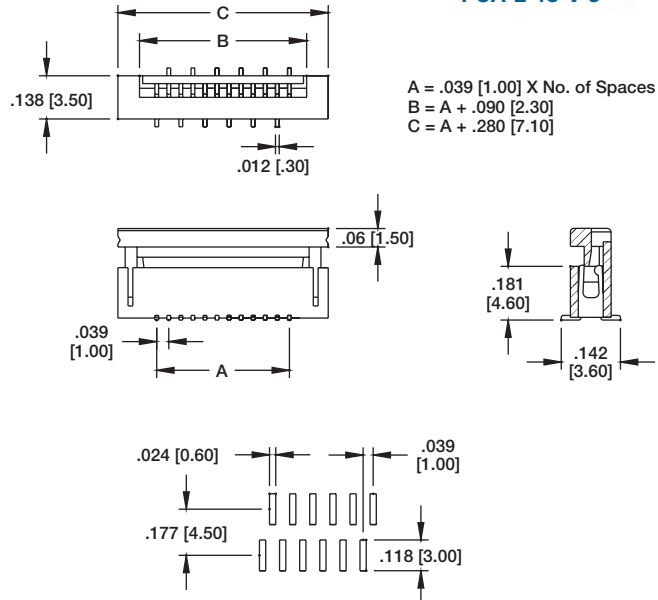


### PCA-2-18-V-3

$$A = .039 [1.00] \times \text{No. of Spaces}$$

$$B = A + .090 [2.30]$$

$$C = A + .280 [7.10]$$



Recommended PCB Layout

## PCA-1

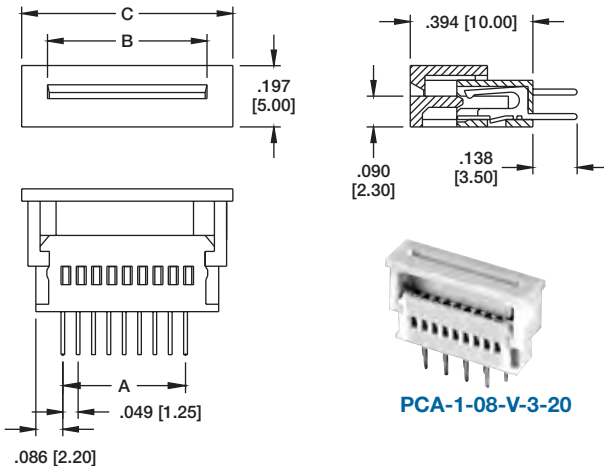
1.25mm (.049")

TOP ENTRY THRU HOLE

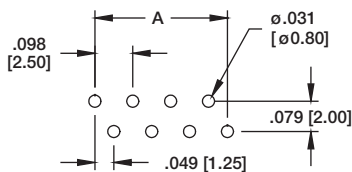
$$A = .049 [1.25] \times \text{No. of Spaces}$$

$$B = A + .106 [2.70]$$

$$C = A + .303 [7.70]$$



### PCA-1-08-V-3-20



Recommended PCB Layout

## PCA-1

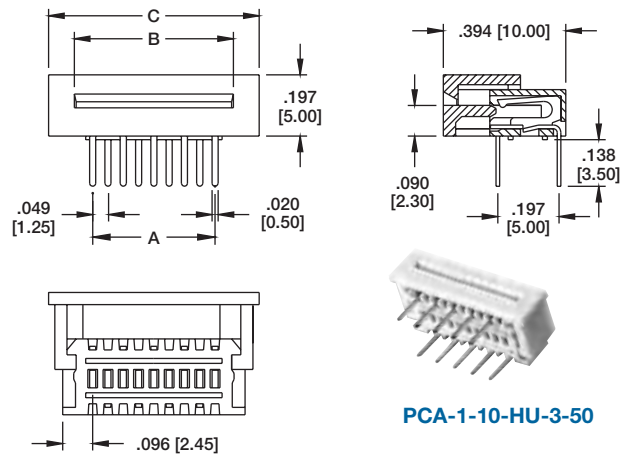
1.25mm (.049")

TOP ENTRY THRU HOLE

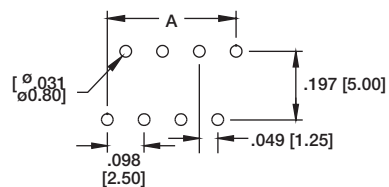
$$A = .049 [1.25] \times \text{No. of Spaces}$$

$$B = A + .106 [2.70]$$

$$C = A + .303 [7.70]$$



### PCA-1-10-HU-3-50



Recommended PCB Layout



### INTRODUCTION:

Adam Tech ADC Series DC Power Jacks are a complete line of miniature and sub-miniature power jacks primarily used for the transmission of wall current transformed to DC power, for detached and hand held instruments. Adam Tech power jacks are manufactured with a variety of center pin sizes for all standard applications including 1.00mm, 1.30mm, 2.00mm and 2.50mm. Our contact is designed using a wide spring grade plated copper alloy for exceptional plug retention and low contact resistance.

### FEATURES:

- Low Profile designs
- Superior contact system
- Exceptional plug retention
- Choice of Center pin sizes
- Hi Temp Versions
- Hi Current Versions

### MATING PLUGS:

All industry standard 1.00mm, 1.30mm, 2.00mm, 2.35mm and 2.50mm Plugs.

### SPECIFICATIONS:

#### Material:

Standard insulator: PBT Glass reinforced, rated UL94V-0  
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0  
 Insulator Color: Black  
 Center Pin: Brass, Nickel plated  
 Contacts: Copper alloy

#### Contact Plating:

Silver over nickel underplate

#### Electrical:

Operating voltage: 12V DC max.  
 Current rating: 1 Amp max.  
 Contact resistance: 30 mΩ max. initial  
 Insulation resistance: 50 MΩ min.  
 Dielectric withstanding voltage: 250V AC for 1 minute

#### Mechanical:

Insertion force: 3 kg max.  
 Withdrawal force: 0.3 kg min  
 Mating durability: 5000 cycles min.

#### Temperature Rating:

Operating temperature: -25°C to +85°C  
 Soldering process temperature:  
     Standard insulator: 235°C  
     Hi-Temp insulator: 260°C

#### PACKAGING:

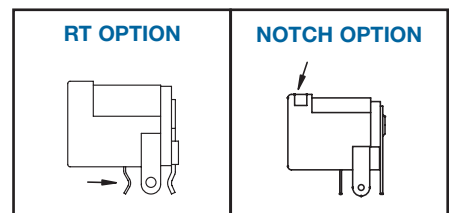
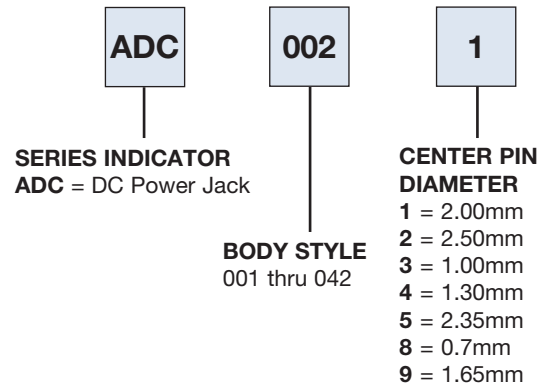
Anti-ESD plastic bags or Tape and Reel

#### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



### ORDERING INFORMATION



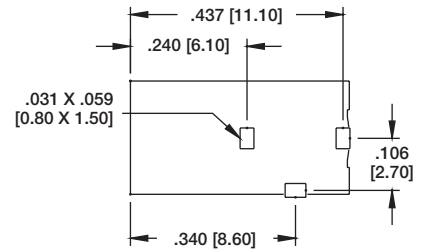
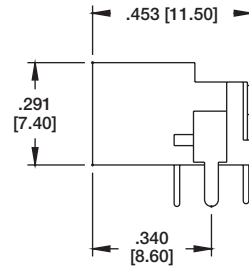
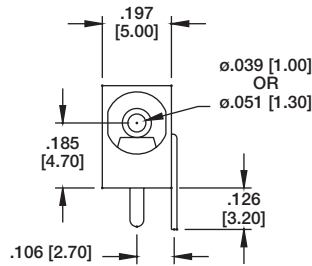
#### OPTIONS:

- Add designator(s) to end of part number
- RT** = PC Board Retention Feature (Type 007 & 009 only)
- HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C
- N** = Notch option, (ADC-002 only)
- ADC-H** = DC Power Jack Hi-Current 5 Amp Version

#### ADC-007

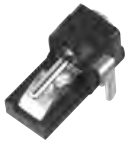


ADC-007-3

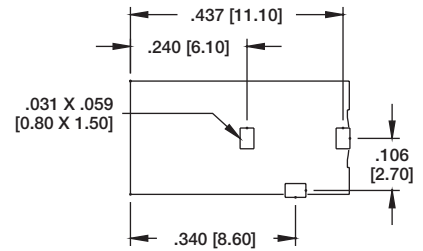
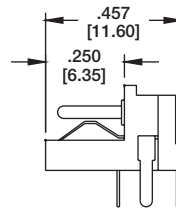
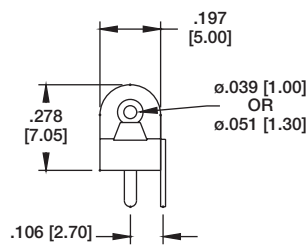


Recommended PCB Layout

#### ADC-009



ADC-009-3

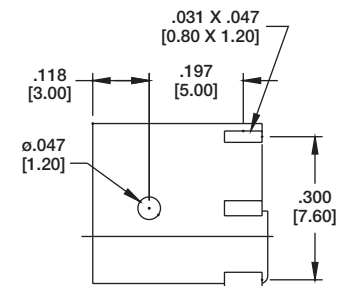
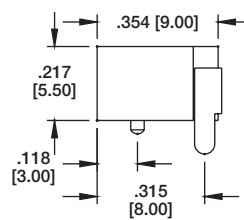
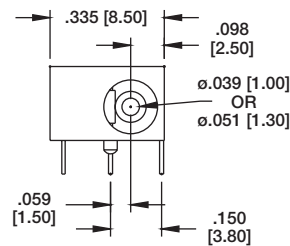


Recommended PCB Layout

#### ADC-011

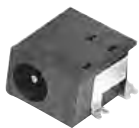


ADC-011-3

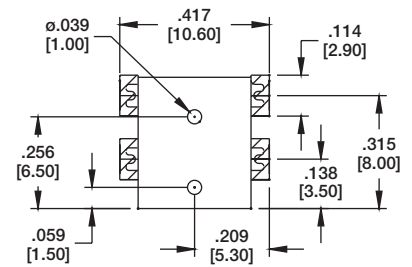
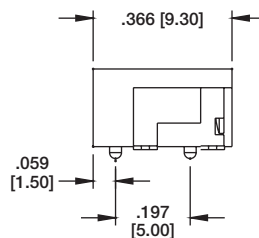
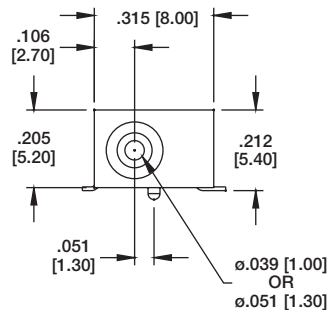


Recommended PCB Layout

#### ADC-021



ADC-021-3

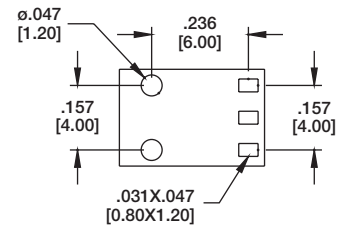
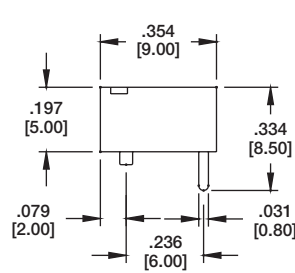
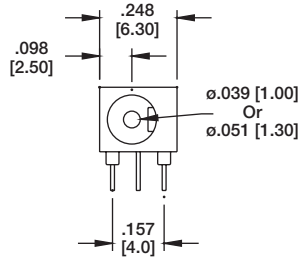


Recommended PCB Layout

#### ADC-029



ADC-029-1

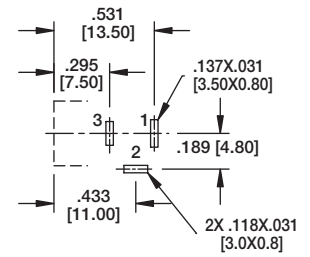
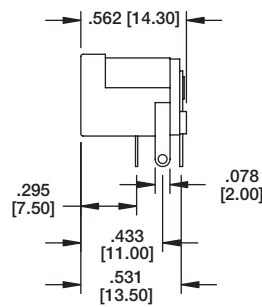
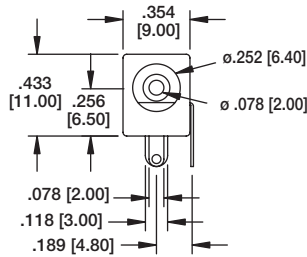


Recommended PCB Layout

#### ADC-002



ADC-002-2

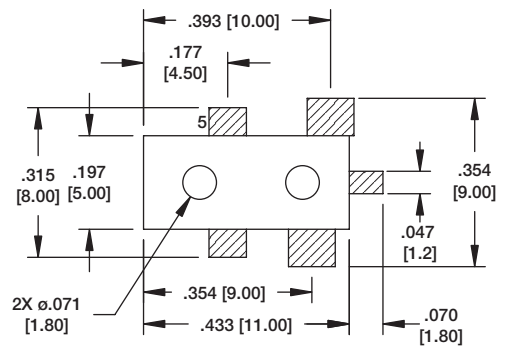
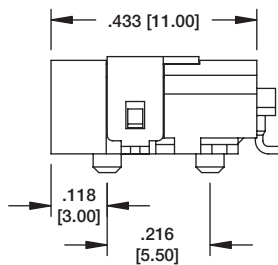
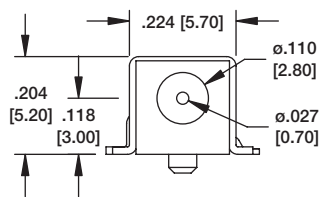


Recommended PCB Layout

#### ADC-024



ADC-024-8-SMT

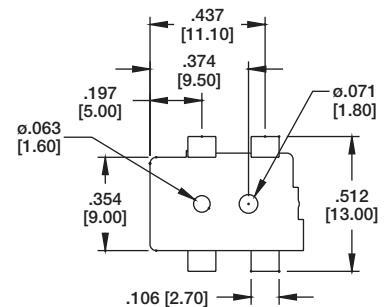
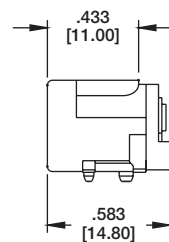
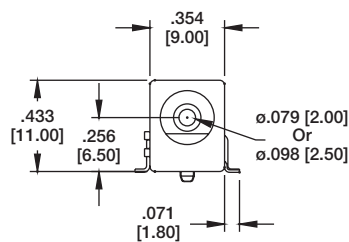


Recommended PCB Layout

#### ADC-028



ADC-028-2



Recommended PCB Layout

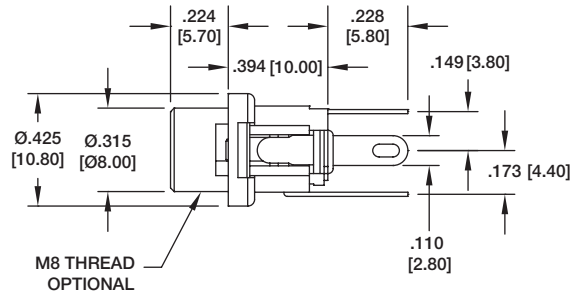
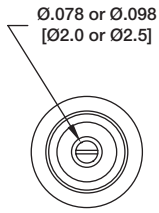
### ADC-027



ADC-027-2



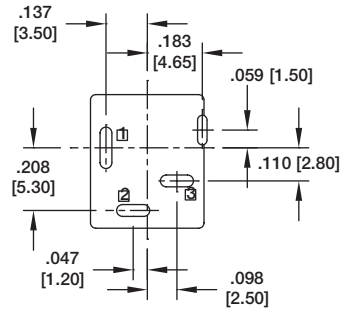
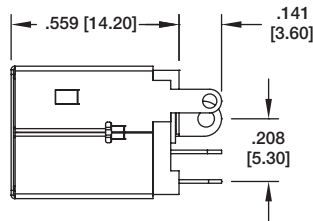
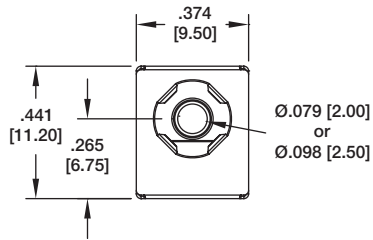
ADC-027-1-M8



### ADC-085



ADC-085-1

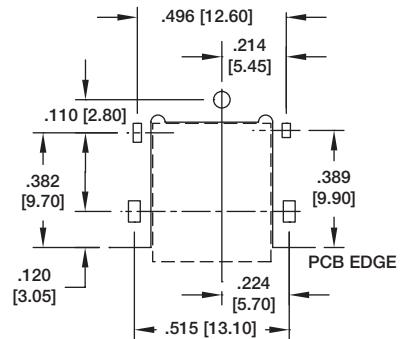
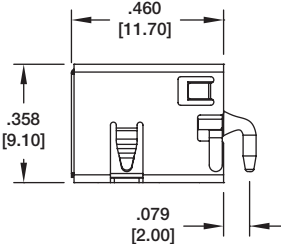
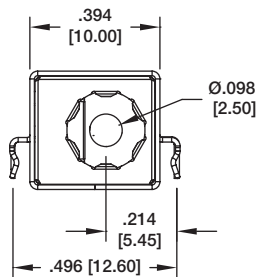


Recommended PCB Layout

### ADC-086



ADC-086

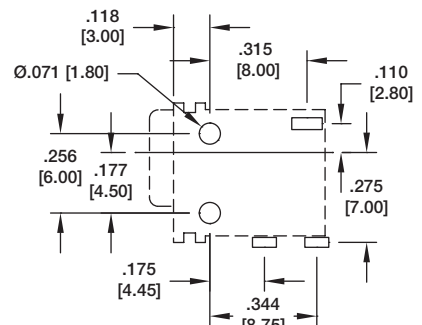
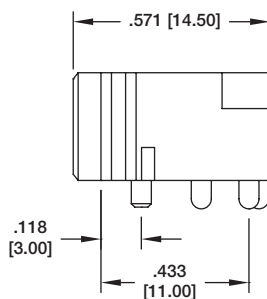
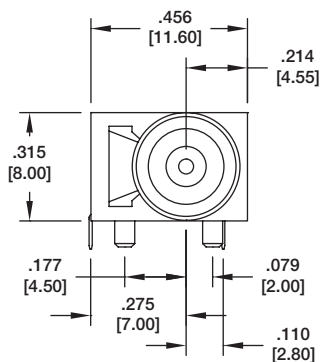


Recommended PCB Layout

### ADC-087



ADC-087

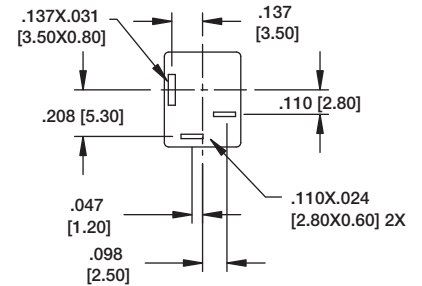
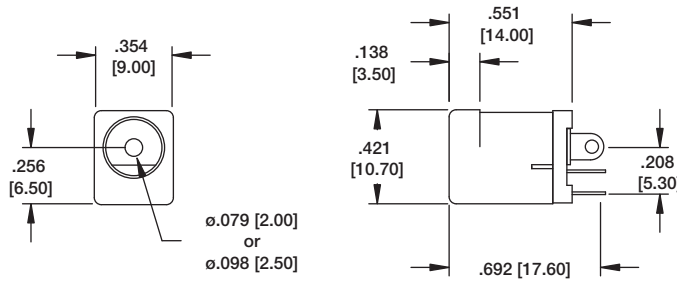


Recommended PCB Layout

### ADC-010



ADC-010-1

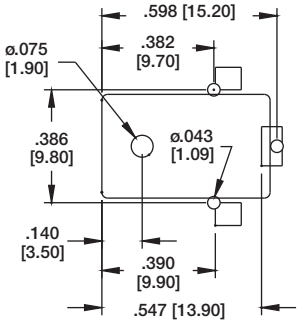
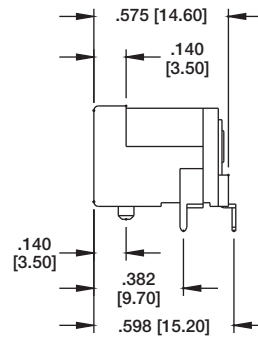
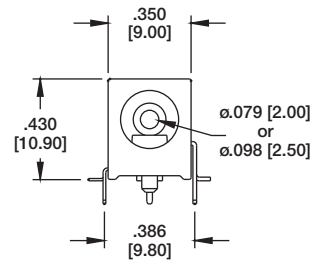


Recommended PCB Layout

### ADC-015



ADC-015-2

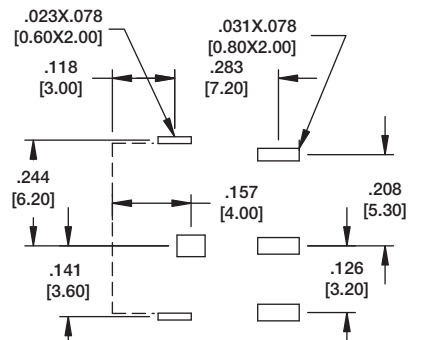
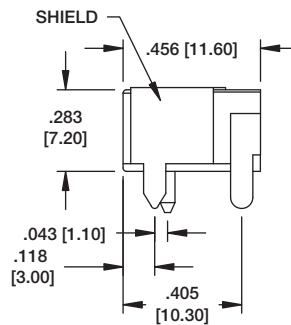
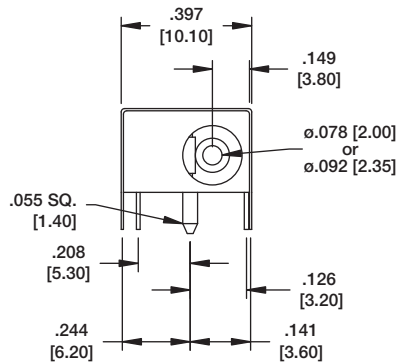


Recommended PCB Layout

### ADC-045A

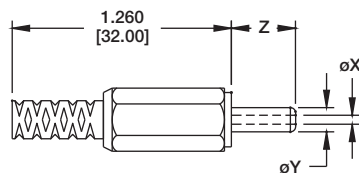


ADC-045A-1



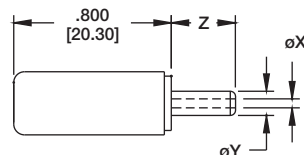
Recommended PCB Layout

### ADP-PLUG WITH STRAIN RELIEF



PLUG WITH STRAIN RELIEF	X	Y	Z
ADP-X/Y/Z-SR	$\phi .039$ [1.00]	$\phi .137$ [3.50]	.374 [9.50]
ADP-X/Y/Z-SR	$\phi .082$ [2.10]	$\phi .216$ [5.50]	.374 [9.50]
ADP-X/Y/Z-SR	$\phi .098$ [2.50]	$\phi .216$ [5.50]	.374 [9.50]

### ADP-PLUG WITHOUT STRAIN RELIEF



PLUG WITHOUT STRAIN RELIEF	X	Y	Z
ADP-X/Y/Z	$\phi .039$ [1.00]	$\phi .137$ [3.50]	.374 [9.50]
ADP-X/Y/Z	$\phi .082$ [2.10]	$\phi .216$ [5.50]	.374 [9.50]
ADP-X/Y/Z	$\phi .098$ [2.50]	$\phi .216$ [5.50]	.374 [9.50]

#### INTRODUCTION:

Adam Tech ASJ Series Stereo Jacks are a broad range of 2.6mm and 3.5mm jacks used primarily in computer and multi-media audio applications. This series provides a multitude of sizes and configurations that are available in single or multiple switching forms. Options include choice of full plastic or metal reinforced bodies, single, stacked or ganged versions and color-coded jacks for port identification.

#### FEATURES:

- Broad range of sizes and configurations
- Single or Multiple switching functions
- Plastic or Metal reinforced bodies
- Ganged and Stacked versions
- Color Coded option for Port Identification

#### MATING PLUGS:

All industry standard 2.50mm and 3.50mm mono or stereo plugs.

#### SPECIFICATIONS:

##### Material:

Standard insulator: PBT or LCP, Glass reinforced, rated UL94V-0  
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0  
 Insulator Color: Black  
 Bushing: Brass, Nickel plated  
 Contacts: Copper alloy

##### Contact Plating:

Tin over Copper underplate

##### Electrical:

Operating voltage: 12V DC max.  
 Current rating: 1 Amp max.  
 Contact resistance: 30 mΩ max. initial  
 Insulation resistance: 100 MΩ min.  
 Dielectric withstanding voltage: 500V AC for 1 minute

##### Mechanical:

Insertion force: 4.4 lbs max.  
 Withdrawal force: 0.3 kg min  
 Mating durability: 5000 cycles min.

##### Temperature Rating:

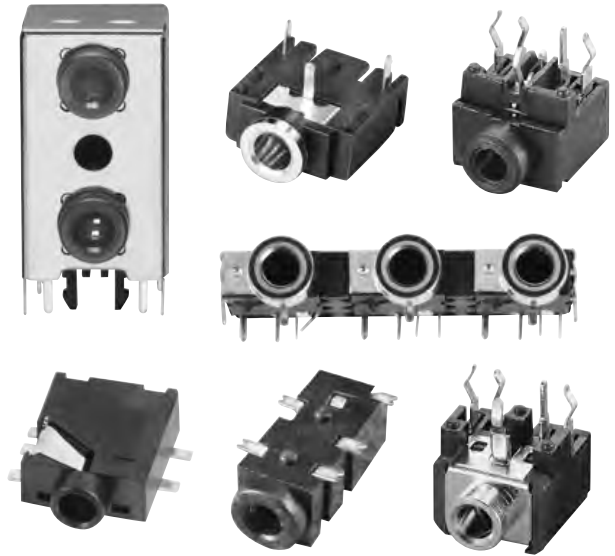
Operating temperature: -25°C to +85°C  
 Soldering process temperature:  
     Standard insulator: 235°C  
     Hi-Temp insulator: 260°C

##### PACKAGING:

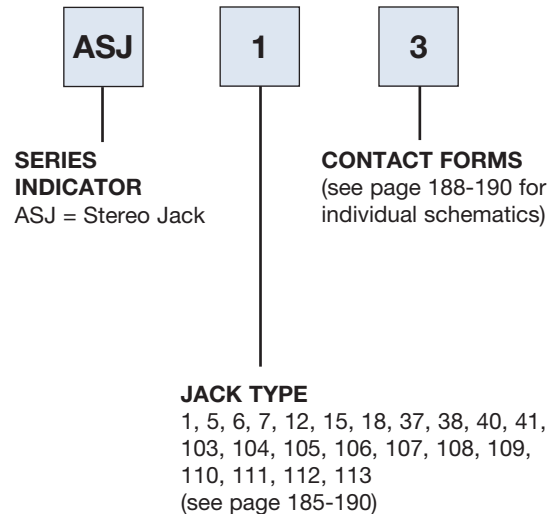
Anti-ESD plastic bags or Tape and Reel

##### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



#### ORDERING INFORMATION



#### OPTIONS:

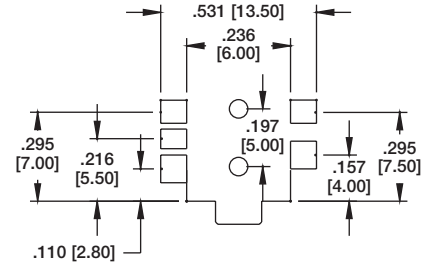
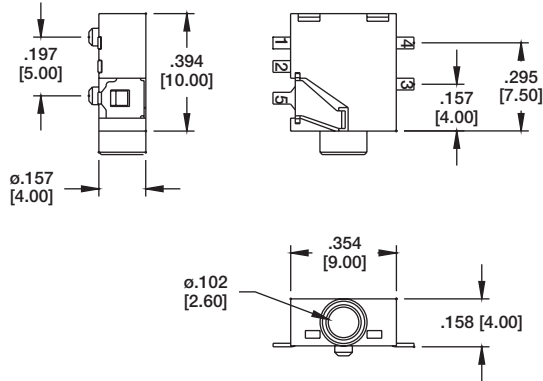
Add designator(s) to end of part number  
**E** = No back cover (Type 1 only)  
**M** = M6 x 0.5 threaded bushing  
**HT** = Hi-Temp Nylon 6T insulator for Hi-Temp soldering processes up to 260°C  
**TR** = Tape & Reel packaging



#### ASJ-12



ASJ-12-5

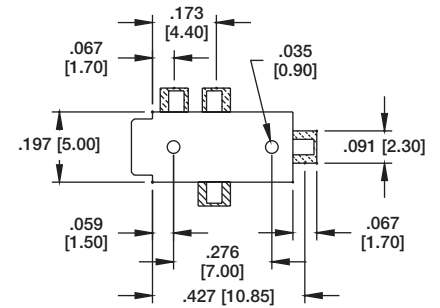
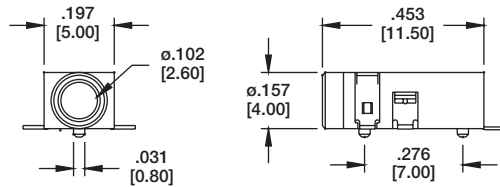


Recommended PCB Layout

#### ASJ-18



ASJ-18-4B

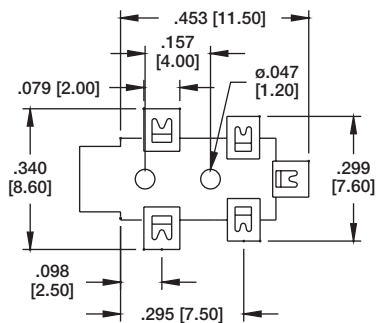
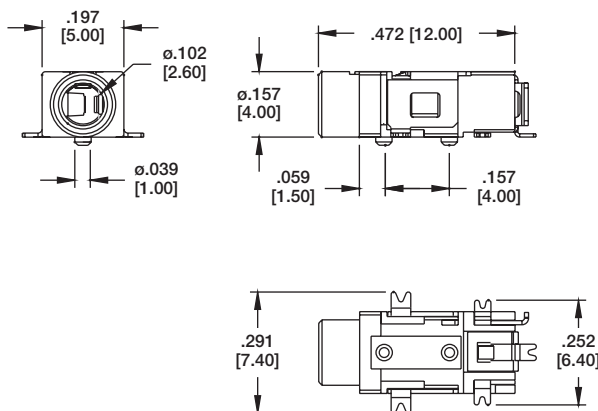


Recommended PCB Layout

#### ASJ-38



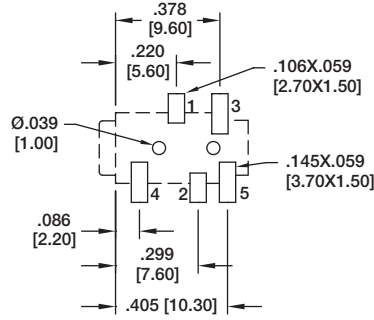
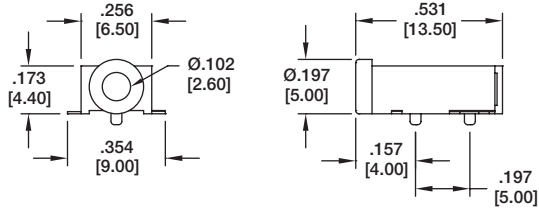
ASJ-38-5



Recommended PCB Layout



#### ASJ-103



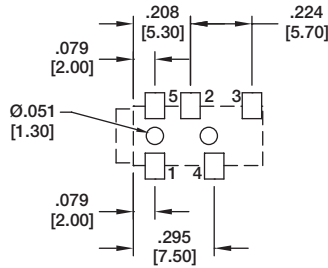
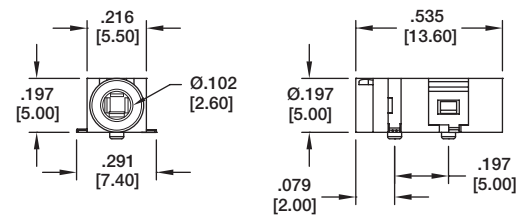
Recommended PCB Layout



ASJ-103-J

ASJ-103-J	ASJ-103-M

#### ASJ-104



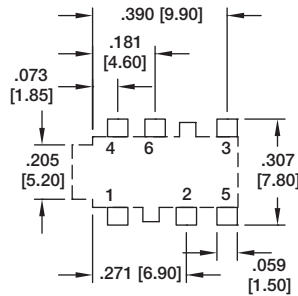
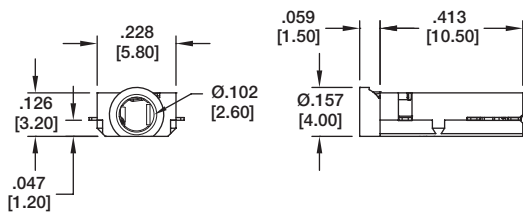
Recommended PCB Layout



ASJ-104-J

ASJ-104-J

#### ASJ-105



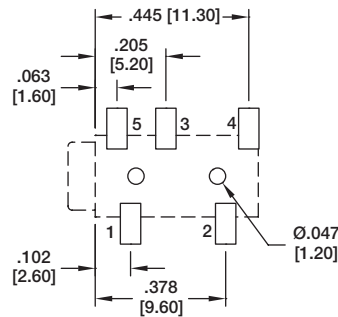
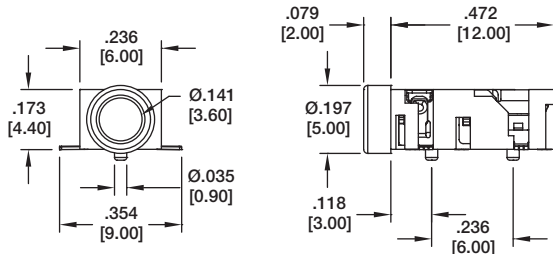
Recommended PCB Layout



ASJ-105-A

ASJ-105-A	ASJ-105-B	
ASJ-105-D	ASJ-105-M	ASJ-105-I

#### ASJ-106



Recommended PCB Layout



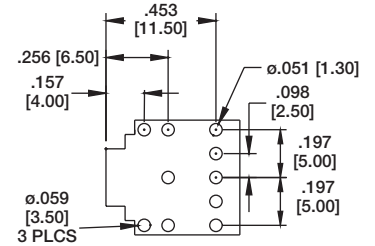
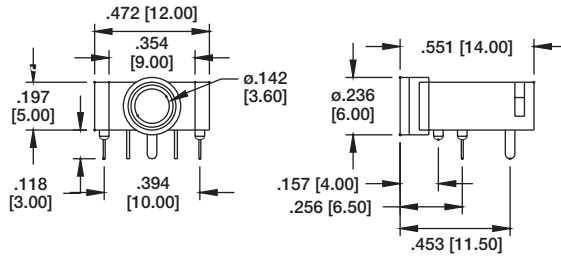
ASJ-106-C

ASJ-106-C	ASJ-106-D	
ASJ-106-K	ASJ-106-P	ASJ-106-B

#### ASJ-1



ASJ-1-3

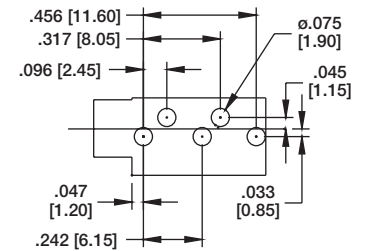
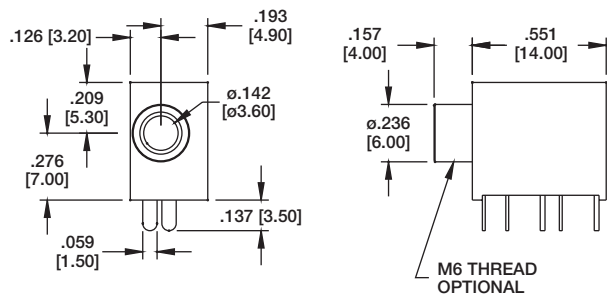


Recommended PCB Layout

#### ASJ-5



ASJ-5-4A

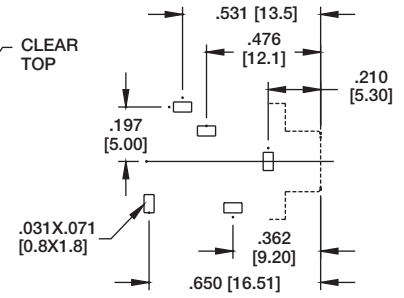
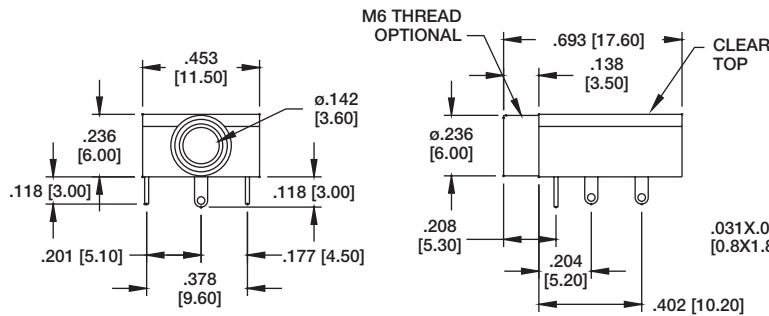


Recommended PCB Layout

#### ASJ-37



ASJ-37-5-M

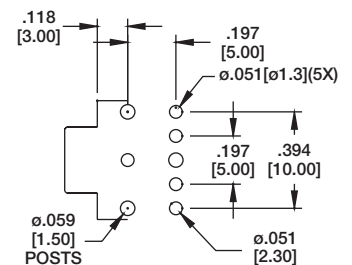
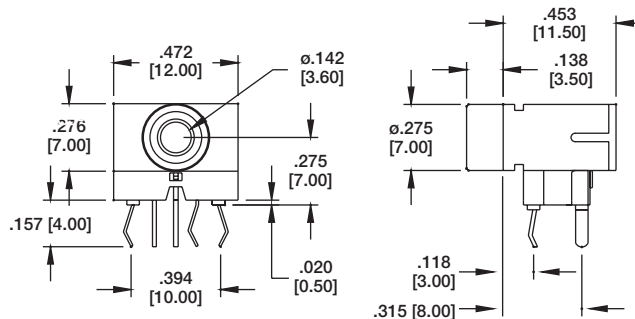


Recommended PCB Layout

#### ASJ-6



ASJ-6-5



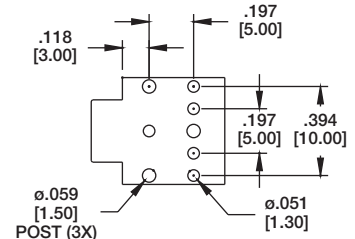
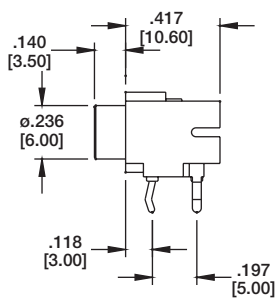
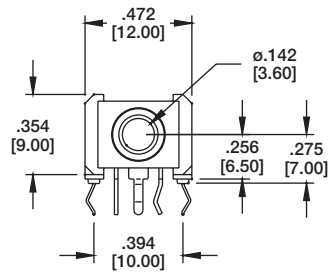
Recommended PCB Layout

CONTACT FORM	FORM 2	FORM 3	FORM 3A	FORM 4A	FORM 4B	FORM 5
SCHEMATIC						

#### ASJ-7



ASJ-7-5

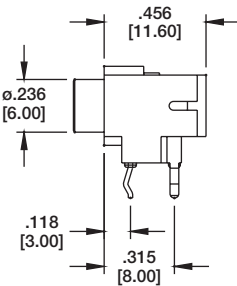
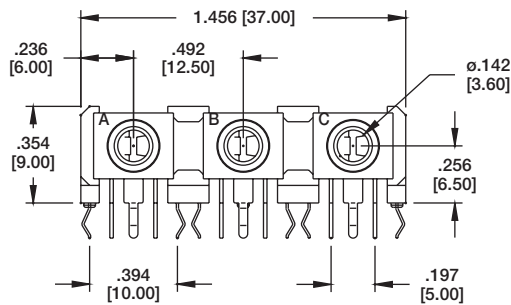


Recommended PCB Layout

#### ASJ-40



ASJ-40-4A

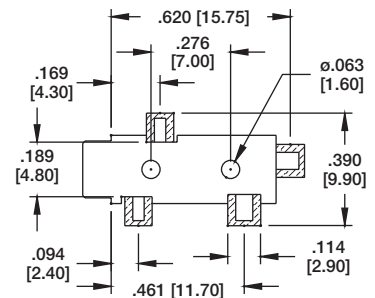
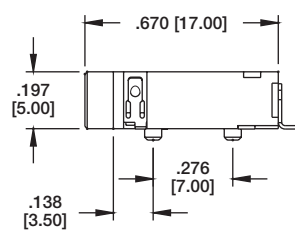
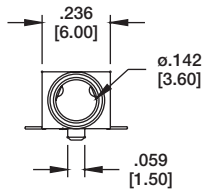


Recommended PCB Layout

#### ASJ-15



ASJ-15-4B

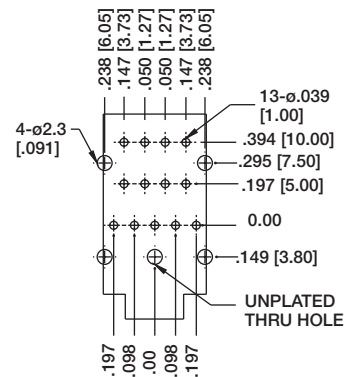
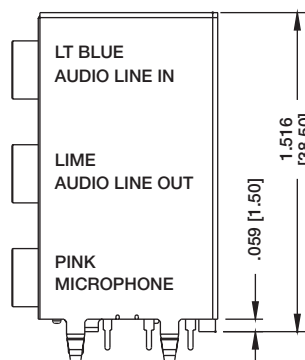
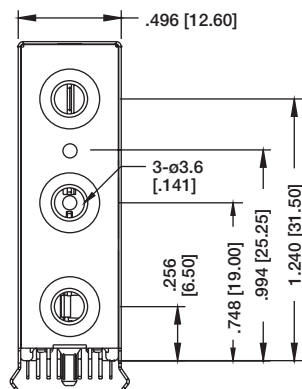


Recommended PCB Layout

#### ASJ-41

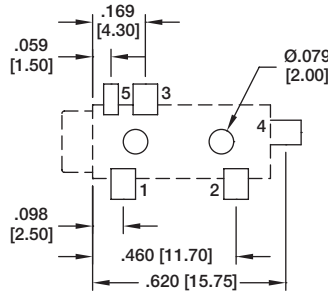
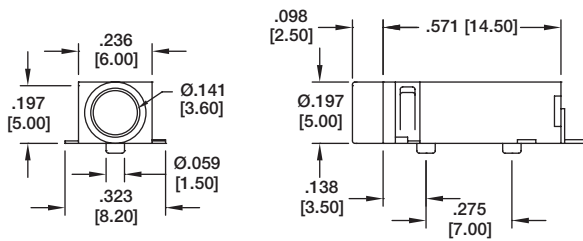


ASJ-41-5



Recommended PCB Layout

### ASJ-107

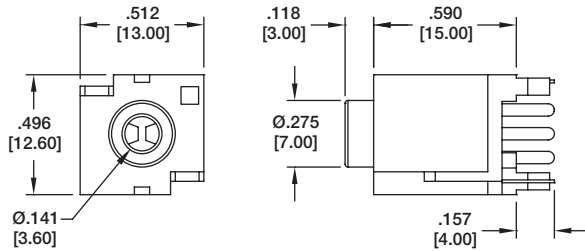


ASJ-107-B

	ASJ-107-B	ASJ-107-C
ASJ-107-D	ASJ-107-F	ASJ-107-A

Recommended PCB Layout

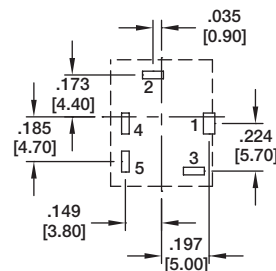
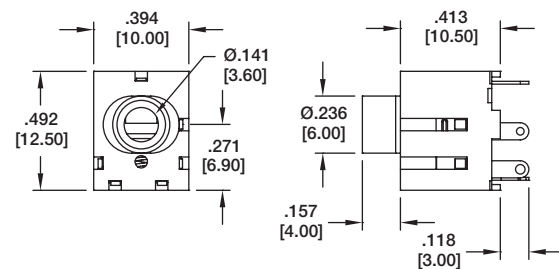
### ASJ-108



ASJ-108-A

ASJ-108-A	ASJ-108-B	ASJ-108-C	ASJ-108-D	ASJ-108-G
ASJ-108-F	ASJ-108-L	ASJ-108-N	ASJ-108-K	ASJ-108-W

### ASJ-109

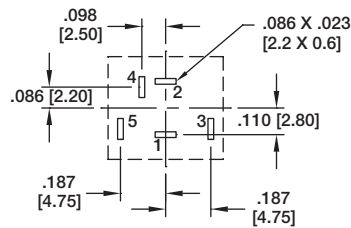
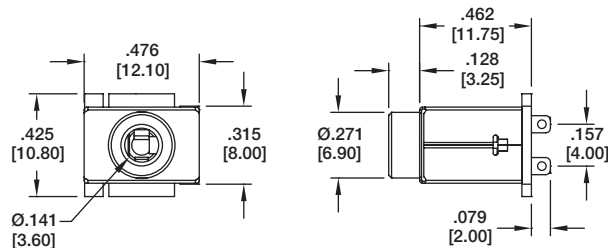


ASJ-109-A

ASJ-109-A	ASJ-109-B	ASJ-109-D

Recommended PCB Layout

### ASJ-110

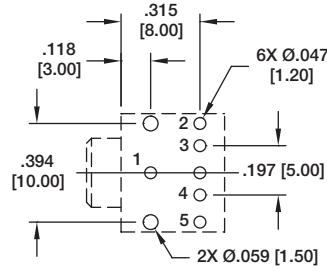
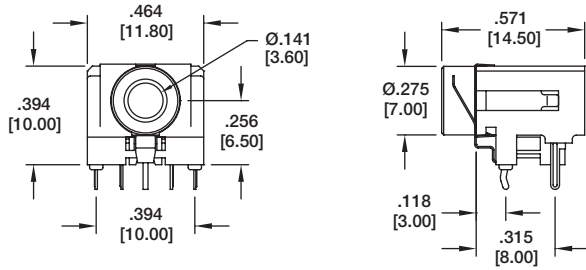


ASJ-110-A

ASJ-110-L

Recommended PCB Layout

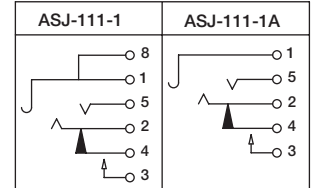
### ASJ-111



Recommended PCB Layout



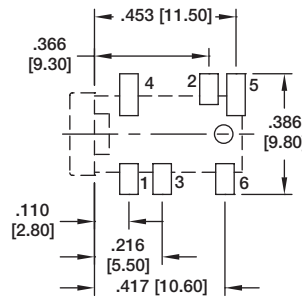
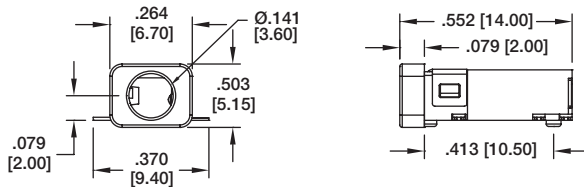
ASJ-111-1



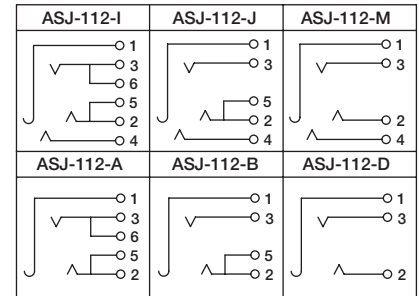
### ASJ-112



ASJ-112-J



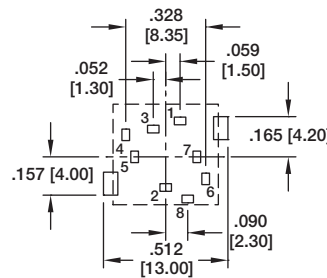
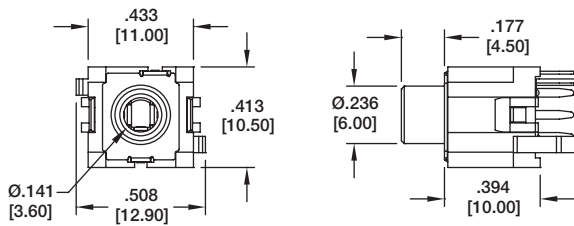
Recommended PCB Layout



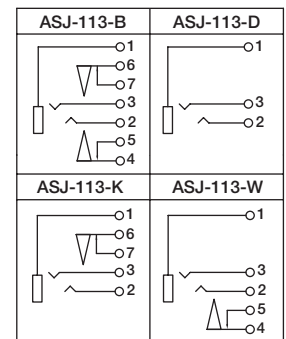
### ASJ-113



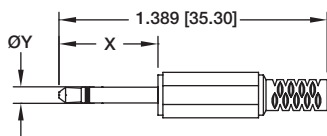
ASJ-113-B



Recommended PCB Layout

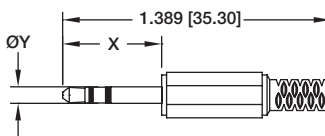


### MONO AUDIO PLUG



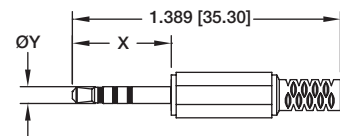
DIMENSION	X	Y
ASP-2.5-M	.468 [11.90]	Ø.098 [2.50]
ASP-3.5-M	.590 [15.00]	Ø.137 [3.50]

### STEREO AUDIO PLUG 2 CHANNEL

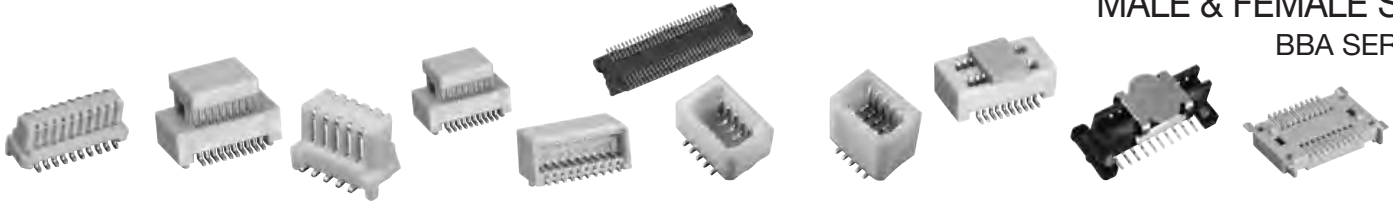


DIMENSION	X	Y
ASP-2.5-S	.468 [11.90]	Ø.098 [2.50]
ASP-3.5-S	.590 [15.00]	Ø.137 [3.50]

### STEREO AUDIO PLUG 3 CHANNEL



DIMENSION	X	Y
ASP-2.5-S3	.468 [11.90]	Ø.098 [2.50]
ASP-3.5-S3	.590 [15.00]	Ø.137 [3.50]



### INTRODUCTION:

Adam Tech Board-to-Board connectors are a custom manufactured product generally tooled to a customer's application specific requirements. Advantages include significant cost reductions, enhanced product features or special performance requirements. Design options include variable heights, extremely low profile types, SMT and polarized mated sets in five different pitches. Adam Tech provides experienced capabilities in a wide assortment of insulator and contact designs with cost, reliability and compatibility for automatic insertion machine pick up. These connectors are ideal for cell phones, pagers, video equipment, small portable equipment and anywhere an LCD display is used.

### FEATURES:

- Designed for Multiple board stacking heights
- Common pin counts can be tooled
- Hi-Temp material designs
- High reliability precision formed contact designs

### SPECIFICATIONS:

#### Material:

Insulator: LCP or Nylon 6T  
Contacts: Phosphor Bronze

#### Contact Plating:

Tin or Gold flash over copper underplate

#### Electrical:

Operating voltage: 50V AC max.  
Current rating:  
0.5mm: 0.3 Amps max  
0.8mm: 0.5 Amps max.  
Contact resistance: 40 mΩ max. initial  
Insulation resistance: 1000 MΩ min.  
Dielectric withstanding voltage: 500V AC for 1 minute

#### Mechanical:

Mating durability: 250 Cycles min.

#### Temperature Rating:

Operating temperature: -65°C to +155°C

### PACKAGING:

Anti-ESD plastic trays or tubes  
Tape and Reel with pick & place pad

### APPLICATION & CONFIGURATION OVERVIEW

#### 0.4mm Centerline Pitch

Series BB4-PO/SO is a custom product which was developed to offer a fixed height of 0.039mm for the male connector matched with a fixed height 0.049mm female connector to provide a total stacking height of 1.5mm.

Series BB4-PE/SE offers a fixed height 1.25mm male connector which is matched with a fixed height 1.25mm female providing a total stacking height of 1.5mm.

#### 0.5mm Centerline Pitch

Series BB5-PO/SO is a custom product which was developed to offer four different female connector heights (3.00, 3.50, 4.00, 6.00) to provide four choices of total stacking heights (4.00, 4.50, 5.00, 6.00) These sets are available in positions 10-100 (see details on drawing pages 192-193)

Series BB5-PN/SN is a custom product which was developed to offer five different heights (2.20, 2.70, 3.00, 3.20, 3.50) and a matched female connector in four different heights (3.00, 3.50, 4.00, 6.00) to provide four choices of total stacking heights (4.00, 4.50, 5.00, 6.00)

#### 0.635mm Centerline Pitch

Series BB635-PE/SE is a custom product developed to offer a male connector in two different heights (4.00, 5.00) which is matched to a fixed height female connector (4.00) to provide a choice of two total stacking heights (5.00, 6.00).

#### 0.8mm Centerline Pitch

Series BB8-PO/SO is a custom product which was developed to offer a fixed height (3.55mm) male connector which can be matched to four different female connector heights (3.55, 5.05, 5.45, 6.05) to provide four choices of total stacking heights (4.60, 6.00, 6.50, 7.00).

Series BB8-PN/SN is a custom product which was developed to offer a male connector in two different heights (3.55, 4.05) which can be matched to five different female connector heights (3.65, 4.15, 4.70, 5.15, 5.65) to provide eight choices of total stacking heights (4.50, 5.00, 5.15, 5.65, 6.00, 6.15, 6.50, 7.00)

#### 1.00mm Centerline Pitch

Series BB10-PO/SO is a custom product which was developed to offer a male connector in three different heights (6.35, 7.35, 8.35) which can be matched to four different female connector heights (5.37, 7.37, 8.37, 10.37) to provide eight choices of total stacking heights (8.00, 9.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00) used.





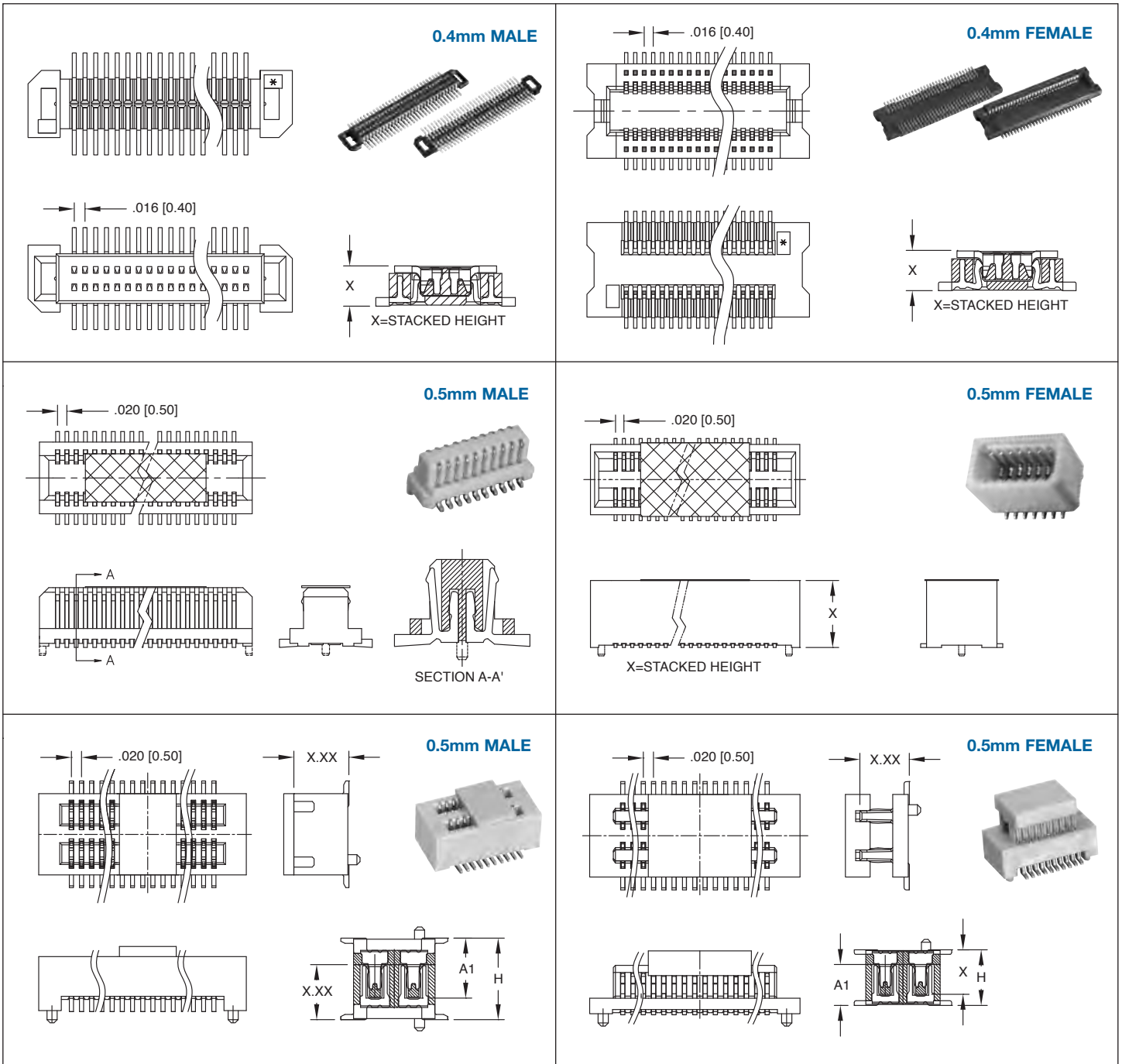
### INTRODUCTION:

Adam Tech manufactures a range of application specific board stacking connectors which were designed and built to specific customer requirements.

Our experienced engineering staff has developed custom products in a variety of contact styles, pitches and stacking heights. Our designs range from new concepts to duplicating existing market products identically or with improvements. Many designs are produced using automated manufacturing processes to increase reliability and provide significant ongoing cost savings.

### FEATURES:

- Multiple board stacking heights
- Broad range of pin counts
- Locating peg versions
- Hi-Temp material
- High reliability precision formed contacts





<p><b>0.635mm MALE</b></p> <p>X=STACKED HEIGHT</p>	<p><b>0.635mm FEMALE</b></p> <p>X=STACKED HEIGHT</p>
<p><b>0.8mm MALE</b></p> <p>X=STACKED HEIGHT</p>	<p><b>0.8mm FEMALE</b></p> <p>X=STACKED HEIGHT</p>
<p><b>0.8mm MALE</b></p> <p>X=STACKED HEIGHT</p>	<p><b>0.8mm FEMALE</b></p> <p>X=STACKED HEIGHT</p> <p>Mating Drawing (Ref)</p>
<p><b>1.00mm MALE</b></p> <p>X=STACKED HEIGHT</p>	<p><b>1.00mm FEMALE</b></p> <p>X=STACKED HEIGHT</p>

#### INTRODUCTION:

Adam Tech RCA Series RCA jacks are a popular choice for audio and visual output in electronic equipment applications. Adam Tech offers a multitude of RCA jacks intended to satisfy most audio and visual applications. This series offers choices of panel, PCB, and chassis mounting in single, dual, stacked and color coded versions with a number of shell plating options. Adam Tech RCA jacks are precision engineered to provide intermatability and balance to a broad range of industry standard plugs. Manufactured with high quality UL94V-O ABS these jacks are an excellent choice for most audio and visual applications.

#### FEATURES:

- Wide range of colors
- Multiple port versions
- Various body styles
- Industry Standard compatibility

#### MATING PLUGS:

All industry standard RCA plugs.

#### SPECIFICATIONS:

##### Material:

Standard insulator: ABS or PBT glass filled, rated UL94-HB  
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0  
 Insulator Colors: Red, Black, Yellow, White  
 Bushing: Brass, Nickel plated, (Gold optional)  
 Contacts: Brass

##### Contact Plating:

Tin or Silver over Copper underplate

##### Electrical:

Operating voltage: 12V DC max.  
 Current rating: 1 Amp max.  
 Contact resistance: 30 mΩ max. initial  
 Insulation resistance: 100 MΩ min.  
 Dielectric withstanding voltage: 500V AC for 1 minute

##### Mechanical:

Insertion force: 6.6 lbs max.  
 Withdrawal force: 1.7 lbs min  
 Mating durability: 5000 cycles min.

##### Temperature Rating:

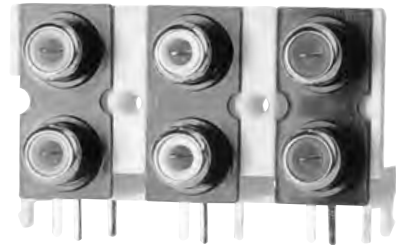
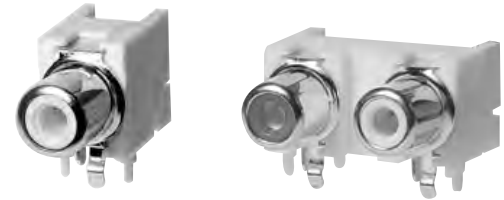
Operating temperature: -25°C to +85°C  
 Soldering process temperature:  
 Standard insulator: 235°C  
 Hi-Temp insulator: 260°C

##### PACKAGING:

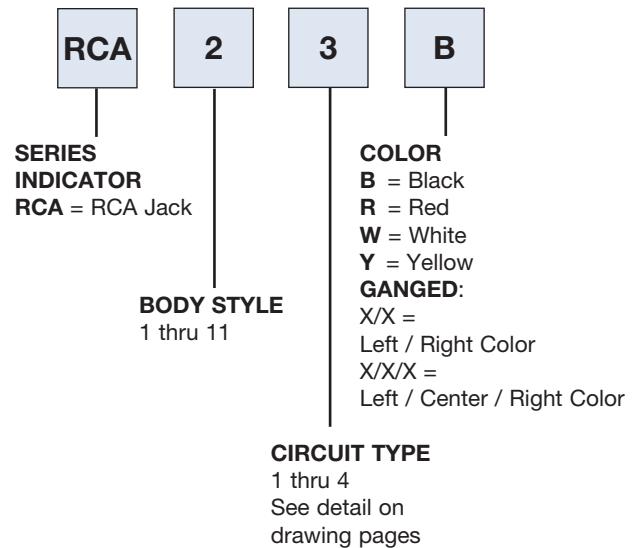
Anti-ESD plastic bags

##### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



#### ORDERING INFORMATION



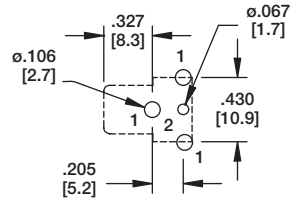
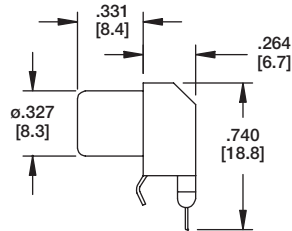
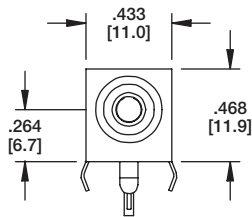
#### OPTIONS:

Add designator(s) to end of part number

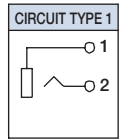
**G** = Gold plated barrels

**HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

### RCA-1



Recommended PCB Layout

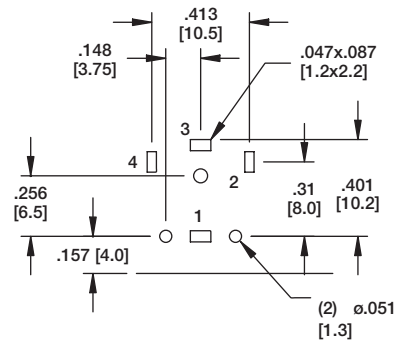
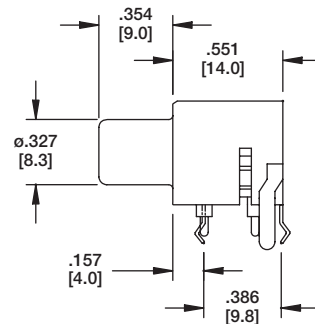
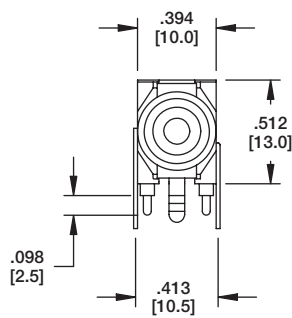


CIRCUIT

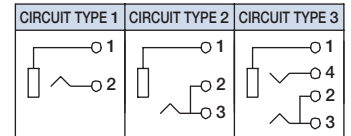


RCA-1-1-Y

### RCA-2



Recommended PCB Layout

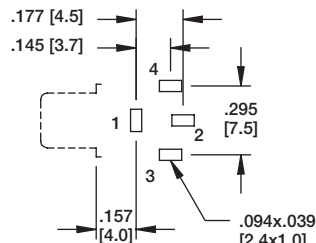
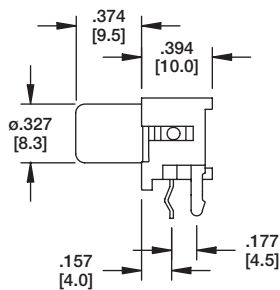
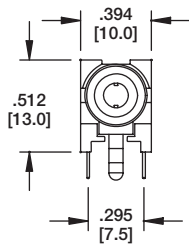


CIRCUIT

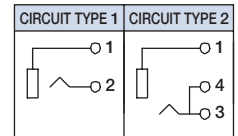


RCA-2-2-Y

### RCA-3



Recommended PCB Layout

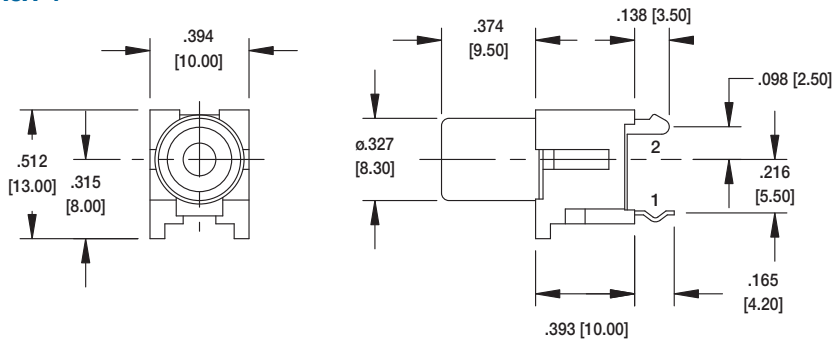


CIRCUIT



RCA-3-1-R

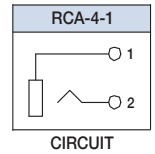
### RCA-4



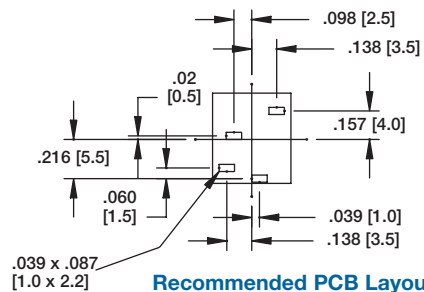
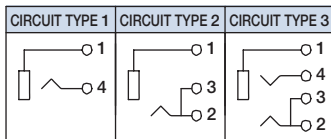
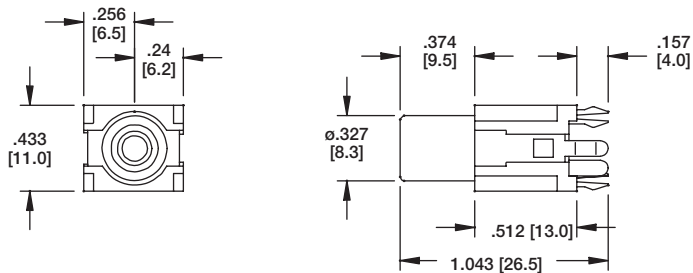
Recommended PCB Layout  
(Bottom View)



RCA-4-1-B



### RCA-5

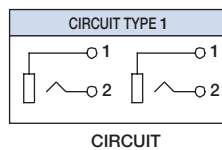
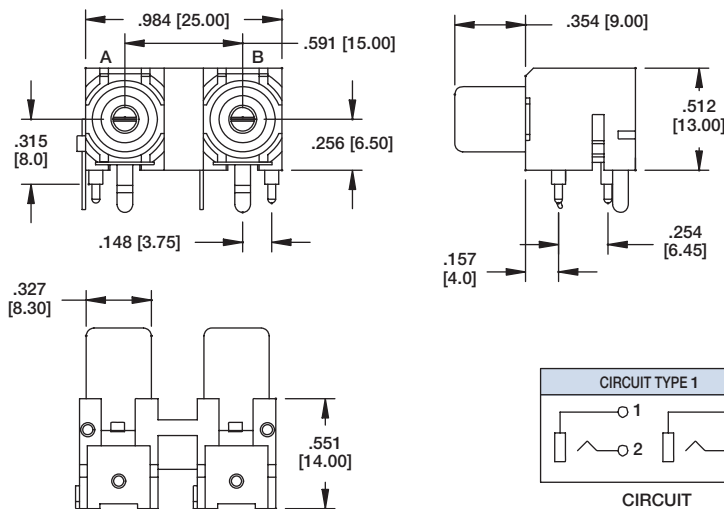


Recommended PCB Layout  
(Bottom View)

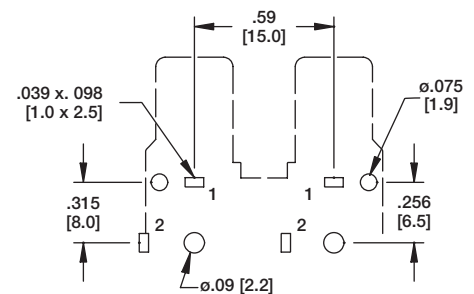


RCA-5-2-R

### RCA-6

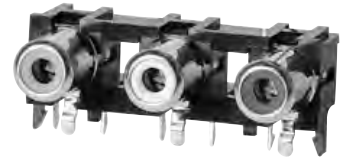
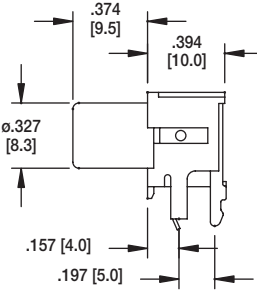
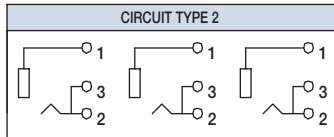
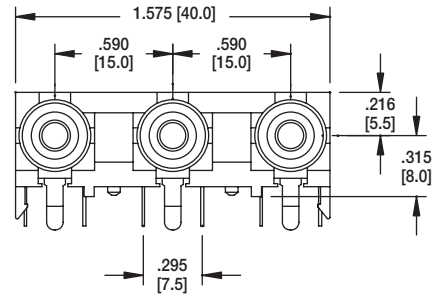


RCA-6-1-R/Y

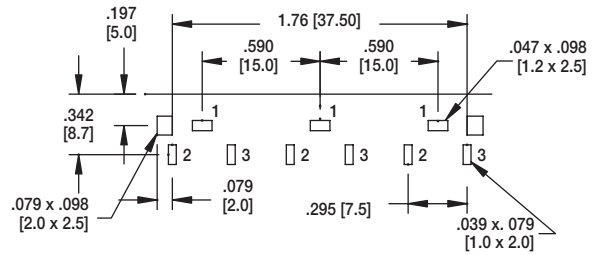


Recommended PCB Layout  
(Bottom View)

### RCA-7

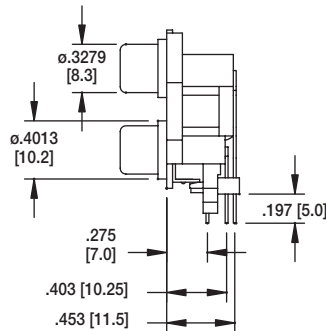
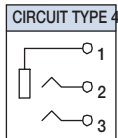
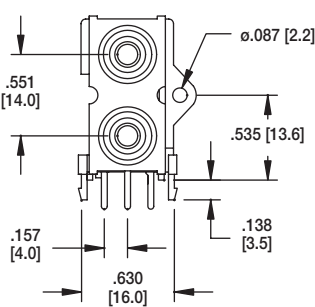


RCA-7-2-Y/W/R

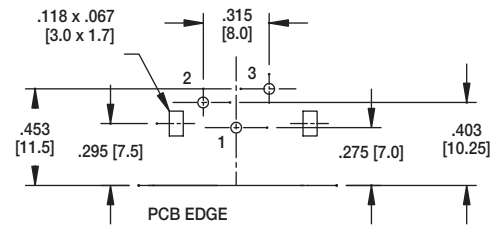


Recommended PCB Layout (Bottom View)

### RCA-8

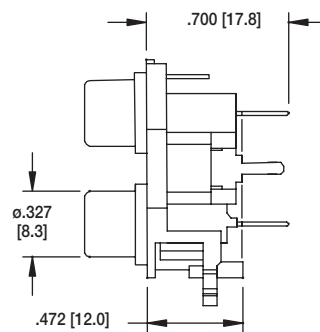
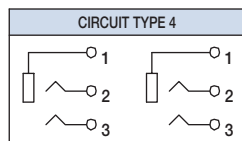
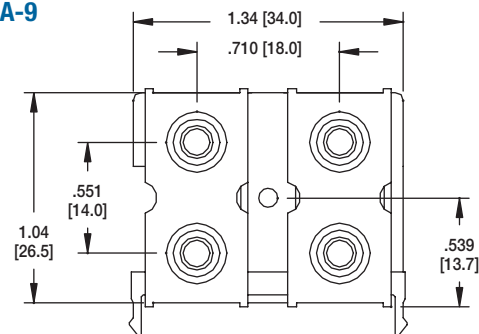


RCA-8-4-W/Y

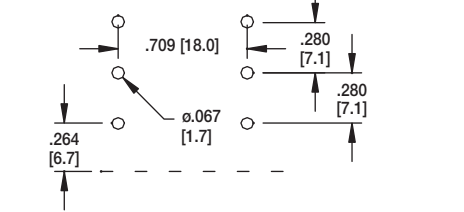


Recommended PCB Layout (Bottom View)

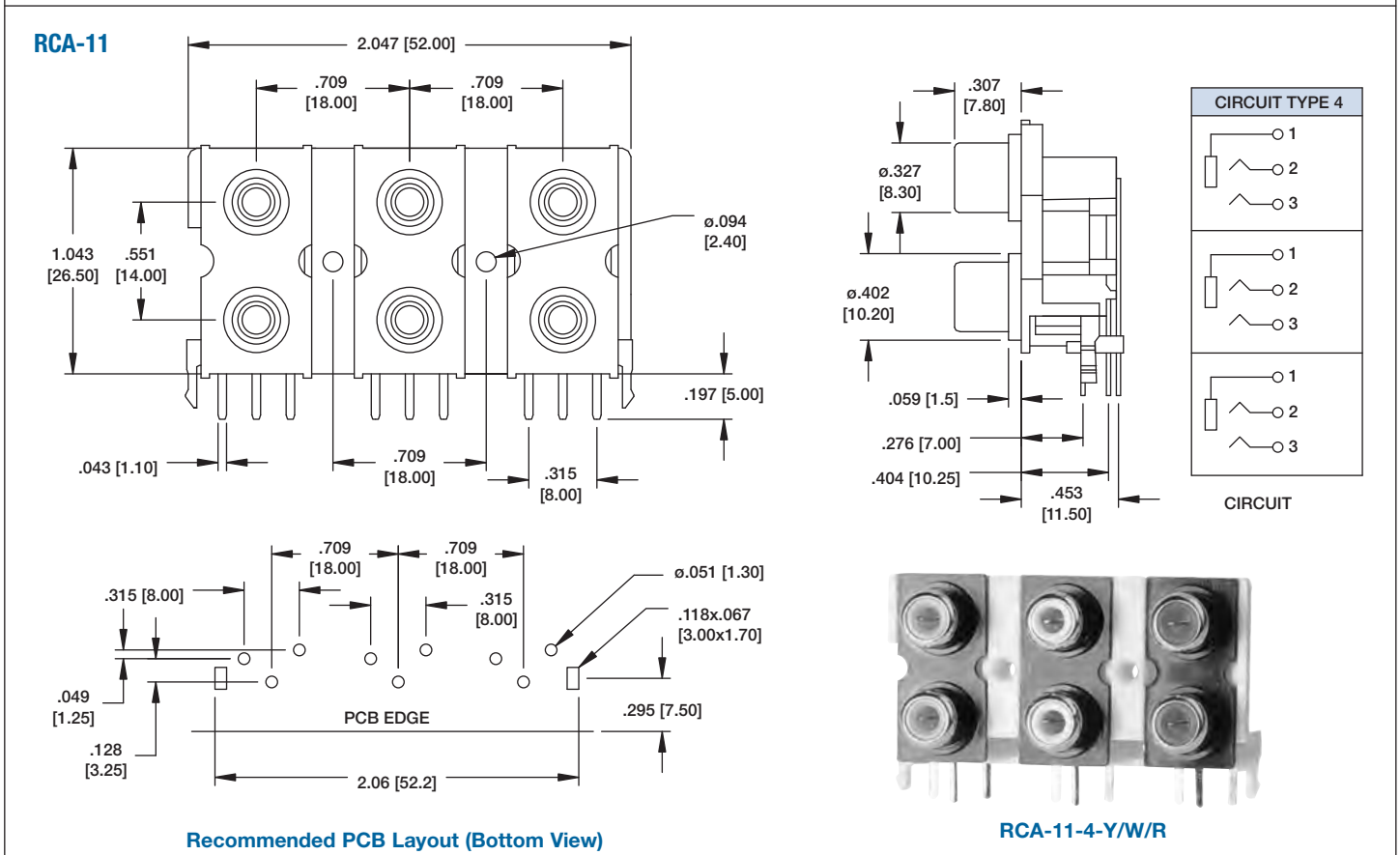
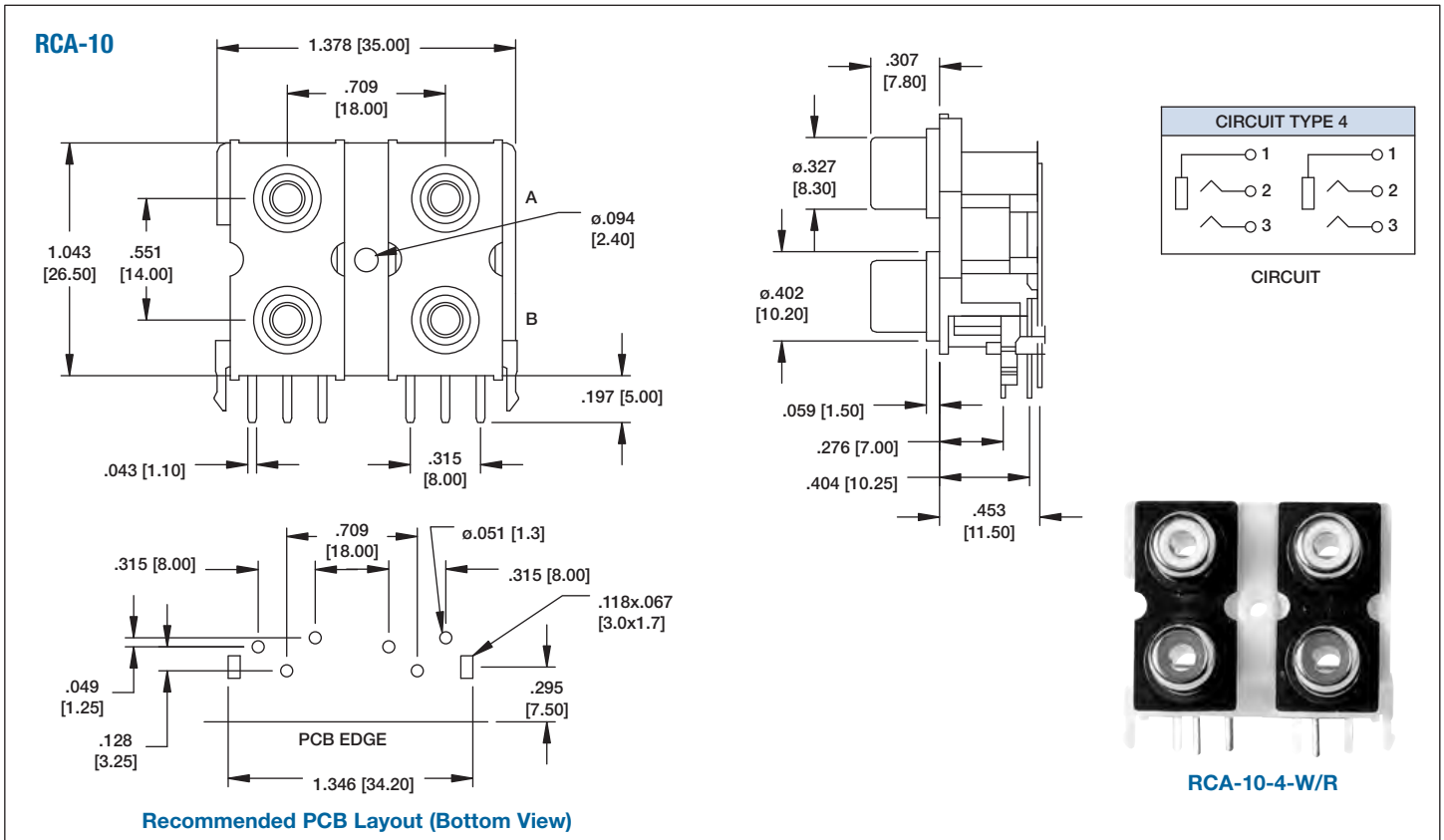
### RCA-9



RCA-9-4-Y/R



Recommended PCB Layout (Bottom View)



**INTRODUCTION:**

Adam Tech DJ Series Circular DIN Jacks continue to be a popular interface for many applications. They are especially suitable for applications that require reliable transfer of low level signals. Available in a wide selection of positions they feature a choice of an all plastic body or a plastic body with metal face shield. Mounting selections include Right Angle or Vertical PCB mount and Panel Mount with or without mounting flange. Adam Tech DJ series jacks features an exclusive high reliability contact design which utilizes a dual wipe, extended fork contact. The jacks overall contact area is increased primarily in the mating area which helps maintain a constant contact pressure for superior electrical performance.

**FEATURES:**

- Wide range of styles
- Offered in 3 thru 13 positions
- Standard and shielded versions available
- Excellent for Low Level signal applications

**MATING PLUGS:**

All industry standard circular DIN plugs.

**SPECIFICATIONS:**

**Material:**

- Standard insulator: PBT glass filled, rated UL94V-0
- Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
- Insulator Color: Black
- Contacts: Brass
- Shield: Copper Alloy, Bright Nickel plated

**Contact Plating:**

Tin over Copper underplate overall

**Electrical:**

- Operating voltage: 20V DC max.
- Current rating: 2 Amps max
- Contact resistance: 20 mΩ max. initial
- Insulation resistance: 500 MΩ min.
- Dielectric withstanding voltage: 1000V AC for 1 minute

**Mechanical:**

- Insertion force: 15 lb max.
- Withdrawal force: 0.8 lb min
- Mating durability: 5000 cycles min.

**Temperature Rating:**

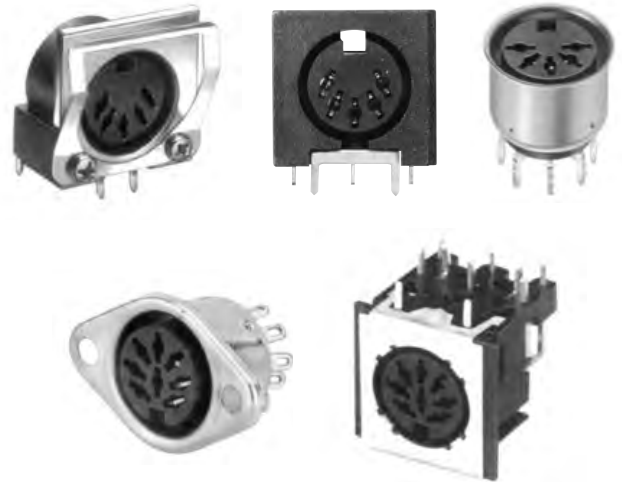
- Operating temperature: -55°C to +85°C
- Soldering process temperature:
  - Standard insulator: 235°C
  - Hi-Temp insulator: 260°C

**PACKAGING:**

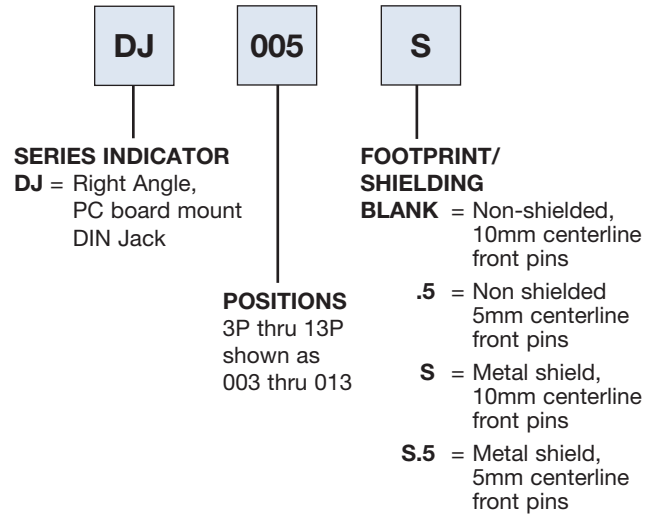
Anti-ESD plastic trays

**APPROVALS AND CERTIFICATIONS:**

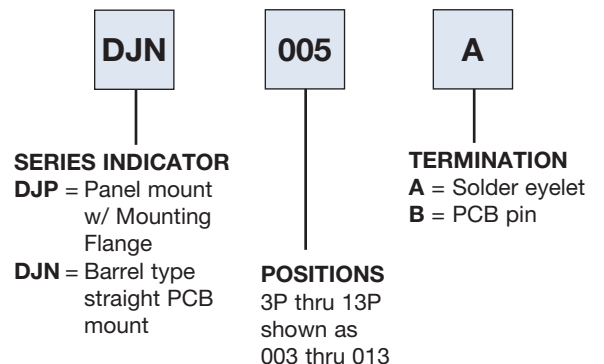
UL Recognized File no. E224053



**ORDERING INFORMATION  
RIGHT ANGLE PC BOARD MOUNT**

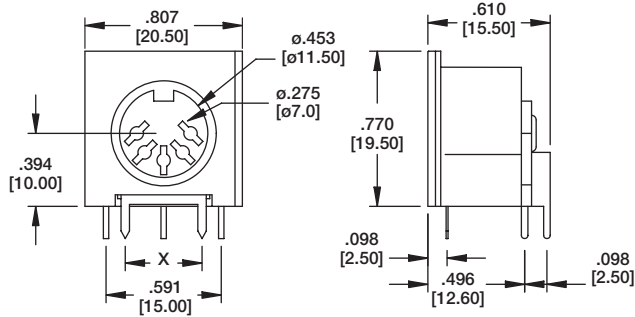


**STRAIGHT PC BOARD MOUNT  
AND PANEL MOUNT VERSIONS**

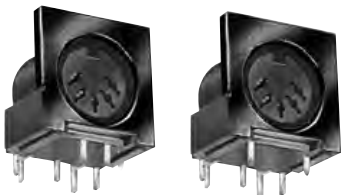




### DIN JACK NON-SHIELDED 5 POSITION

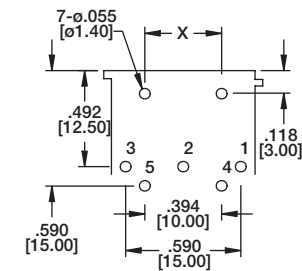


X = PITCH .197 [5.00] OR .394 [10.00]

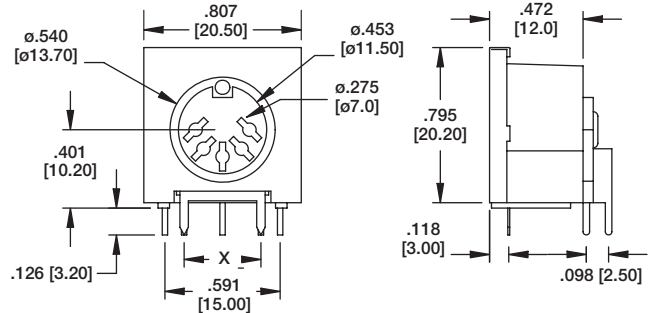


DJ-005-5

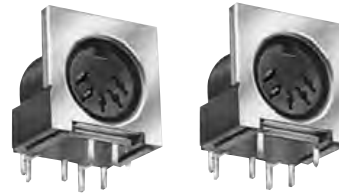
DJ-005



### DIN JACK SHIELDED 5 POSITION

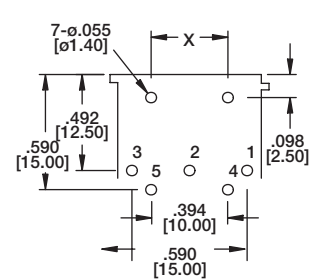


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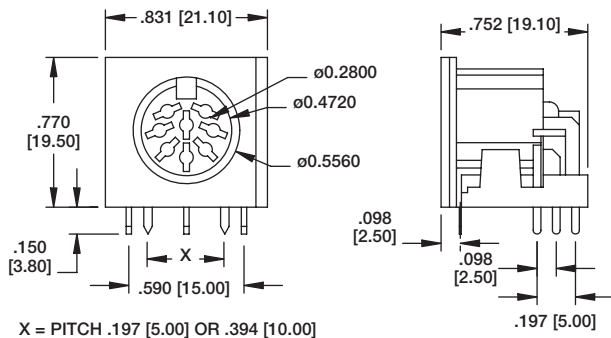


DJ-005-S.5

DJ-005-S



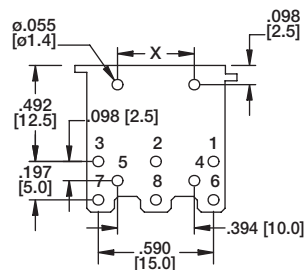
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X = PITCH .197 [5.00] OR .394 [10.00]

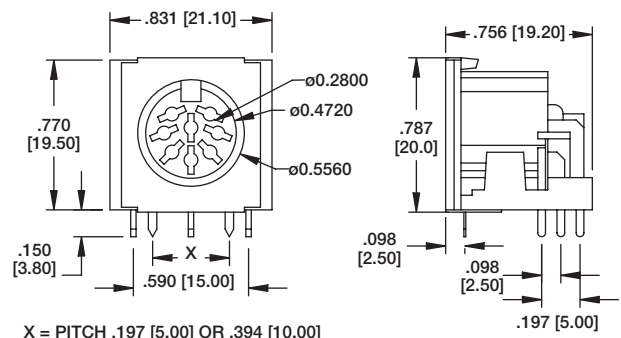


DJ-008



Recommended PCB Layout

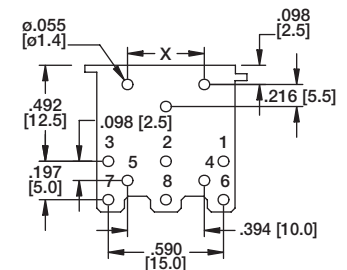
### DIN JACK SHIELDED, POSITIONS: 3P, 4P, 6P, 7P, 8P



X = PITCH .197 [5.00] OR .394 [10.00]

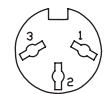


DJ-008-S

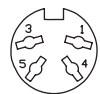


Recommended PCB Layout

### MATING FACE CONFIGURATIONS



3 Position



4 Position



5 Position



6 Position



7 Position



8 Position

**DJP SERIES**  
**PANEL MOUNT DIN JACK WITH**  
**SOLDER EYELETS**

**DJP-008-A**

Technical drawing of DJP-008-A showing front and side views. Dimensions include: front diameter  $\phi .551$  [14.00], mounting hole diameter  $\phi .126$  [3.20], front height  $.874$  [22.2], side diameter  $\phi .590$  [15.00], side height  $1.142$  [29.00], top offset  $.059$  [1.50], top offset from center  $.484$  [12.30], and side offset  $.256$  [6.50].

**DJP SERIES**  
**PCB MOUNT DIN JACK**

**DJP-008-B**

Technical drawing of DJP-008-B showing front and side views. Dimensions include: front diameter  $\phi .551$  [14.00], mounting hole diameter  $\phi .126$  [3.20], front height  $.874$  [22.2], side diameter  $\phi .590$  [15.00], side height  $1.142$  [29.00], top offset  $.059$  [1.50], top offset from center  $.622$  [15.80], side offset  $.157$  [4.00], and side offset  $.433$  [11.00].

**DJN SERIES**  
**PCB MOUNT DIN JACK**

**DJN-005-B**

Technical drawing of DJN-005-B showing front and side views. Dimensions include: front diameter  $\phi .551$  [14.00], side diameter  $\phi .630$  [16.00], side height  $.622$  [15.80], top offset  $.157$  [4.00], side offset  $.433$  [11.00], and side diameter  $\phi .582$  [14.80].

<p><b>3 Position</b></p>	<p><b>4 Position</b></p>
<p><b>5 Position</b></p>	<p><b>6 Position</b></p>
<p><b>7 Position</b></p>	<p><b>8 Position</b></p>

**DJN Series (Type A)**

Recommended PCB layout for DJN Series (Type A) showing dimensions:  $\phi .055$  [1.40],  $\phi .433$  [11.00],  $.051$  [1.30], and  $.177$  [4.50].

**DJP Series**

Recommended PCB layout for DJP Series showing dimensions:  $\phi .055$  [1.40],  $\phi .433$  [11.00],  $.047$  [1.20] X  $.169$  [4.30],  $.051$  [1.30], and  $.165$  [4.20].

Recommended PCB Layouts

#### INTRODUCTION:

Adam Tech MDJ Series Mini DIN Jacks continue to be a popular, high density, low cost, low profile interconnect solution. Available in a multitude of styles and configurations, they are able to satisfy a broad range of applications. This series offers jacks in 3 thru 9 positions with straight, right angle or panel mounting and offers choice of four different shielding and panel grounding options. Color-coded jacks for port identification are also available. Adam Tech's special contact design offers a high reliability connection with extremely low contact resistance.

#### FEATURES:

Wide Range of Styles  
Right Angle, Straight and Panel Mount types  
Shielding Options for EMI/RFI suppression  
Color-Coded versions

#### MATING PLUGS:

All industry standard circular Mini DIN plugs.

#### SPECIFICATIONS:

##### Material:

Standard insulator: PBT glass filled, rated UL94V-0  
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0  
Insulator Color: Black standard, custom colors available  
Contacts: Phosphor Bronze  
Shield: Copper Alloy, Tin Plated

##### Contact Plating:

Gold over Nickel underplate on contact area, tin over Copper underplate on tails

##### Electrical:

Operating voltage: 100V AC / 12V DC max.  
Current rating: 1 Amp max. / 2 Amps max  
Contact resistance: 20 mΩ max. initial  
Insulation resistance: 500 MΩ min.  
Dielectric withstanding voltage: 500V AC for 1 minute

##### Mechanical:

Insertion force: 9.9 lbs max.  
Withdrawal force: 0.8 lbs min  
Mating durability: 5000 cycles min.

##### Temperature Rating:

Operating temperature: -55°C to +105°C  
Soldering process temperature:  
Standard insulator: 235°C  
Hi-Temp insulator: 260°C

##### PACKAGING:

Anti-ESD plastic trays

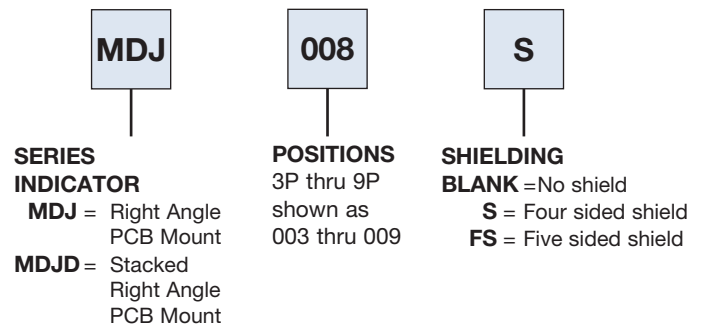
##### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

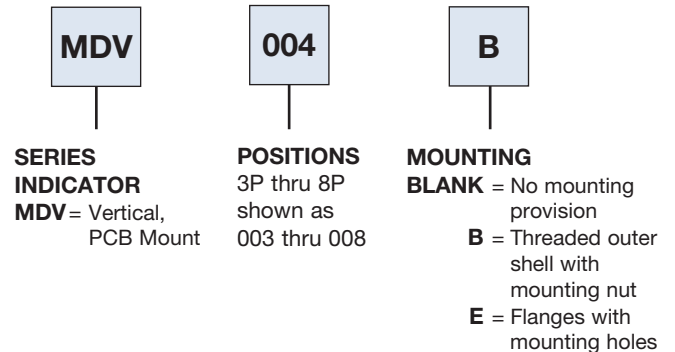


### ORDERING INFORMATION

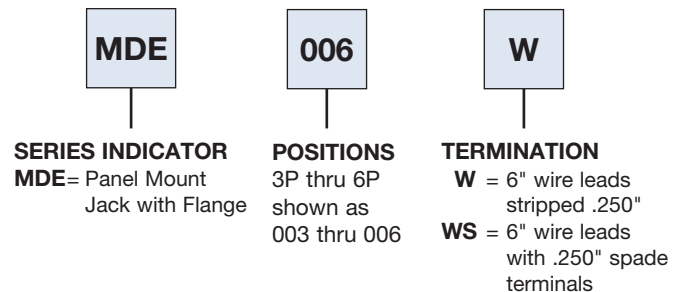
#### RIGHT ANGLE MOUNT



#### VERTICAL MOUNT



#### PANEL MOUNT



#### OPTIONS:

Add designator(s) to end of part number

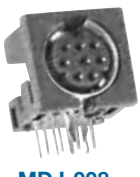
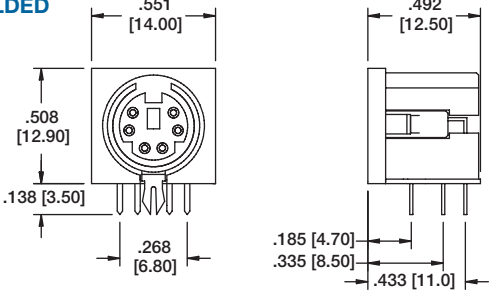
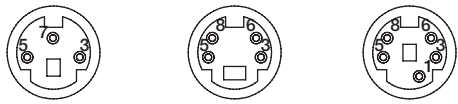
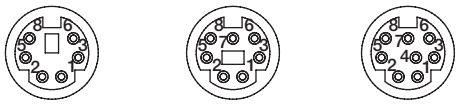


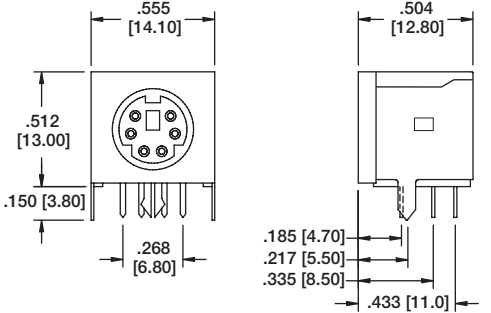


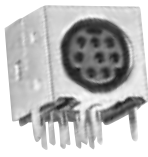
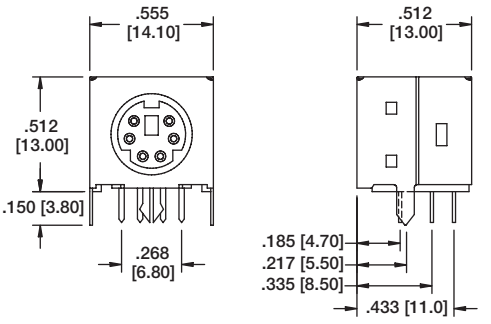
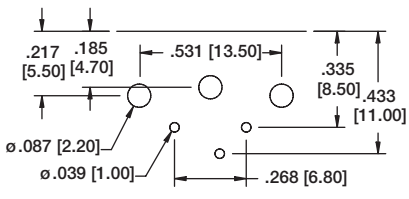
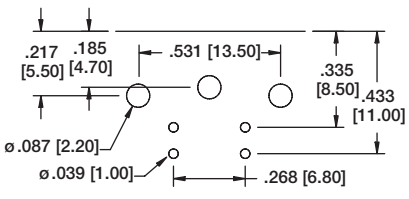
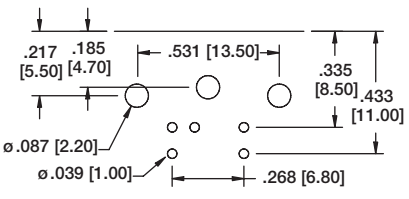
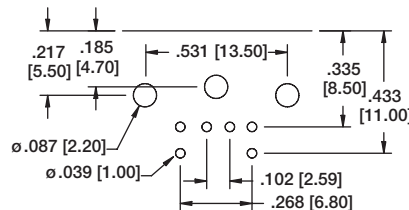
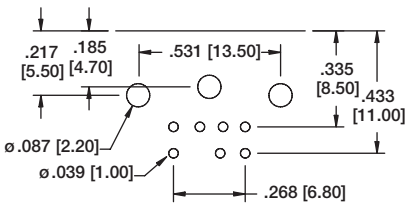
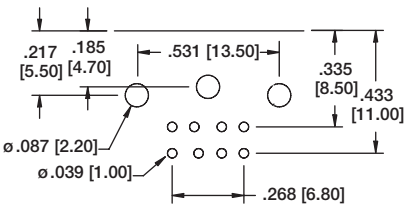
**RT** = PC board retention feature. On shielded units, crimped shield legs. On non-shielded units, forked grounding pin.

**PG** = Spring panel ground

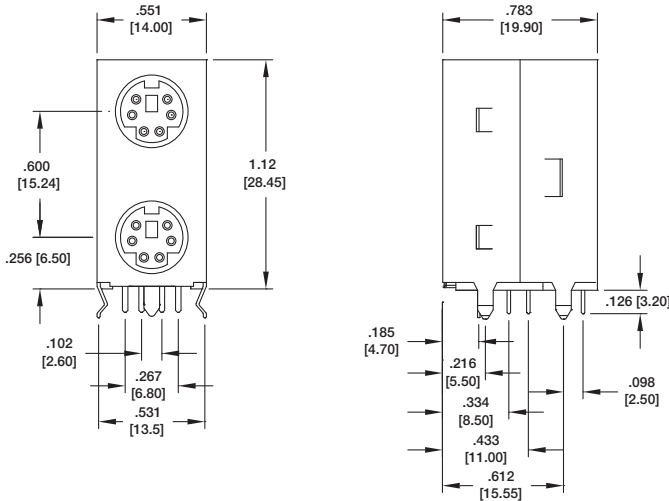
**PG4** = Four finger panel ground

**HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

**TGBP** = Top port color Green / Bottom port color Purple

<p><b>MDJ SERIES</b> <b>MINI DIN JACK-UNSHIELDED</b></p>  <p><b>MDJ-008</b></p> 	<p><b>MATING FACE CONFIGURATIONS</b></p> <p><b>3 Position</b>      <b>4 Position</b>      <b>5 Position</b></p>  <p><b>6 Position</b>      <b>7 Position</b>      <b>8 Position</b></p>  <p><b>9 Position</b>      <b>9A Position</b></p> 	
<p><b>MDJ SERIES</b> <b>MINI DIN JACK WITH FOUR SIDED SHIELD</b></p>  <p><b>MDJ-009-S</b></p> 	<p><b>PANEL GROUND OPTIONS</b></p>  <p><b>MDJ-009-FS-PG</b>      <b>Spring Panel Ground</b></p>  <p><b>MDJ-008-FS-PG</b>      <b>Four Finger Panel Ground</b></p>	
<p><b>MDJ SERIES</b> <b>MINI DIN JACK FULLY SHIELDED</b></p>  <p><b>MDJ-008-FS</b></p> 		
<p><b>PCB EDGE</b></p>  <p><b>3 Position</b></p>	<p><b>PCB EDGE</b></p>  <p><b>4 Position</b></p>	<p><b>PCB EDGE</b></p>  <p><b>5 Position</b></p>
<p><b>PCB EDGE</b></p>  <p><b>6 Position</b></p>	<p><b>PCB EDGE</b></p>  <p><b>7 Position</b></p>	<p><b>PCB EDGE</b></p>  <p><b>8 Position</b></p>

**MDJD SERIES  
STACKED  
MINI DIN JACK  
FULLY SHIELDED**



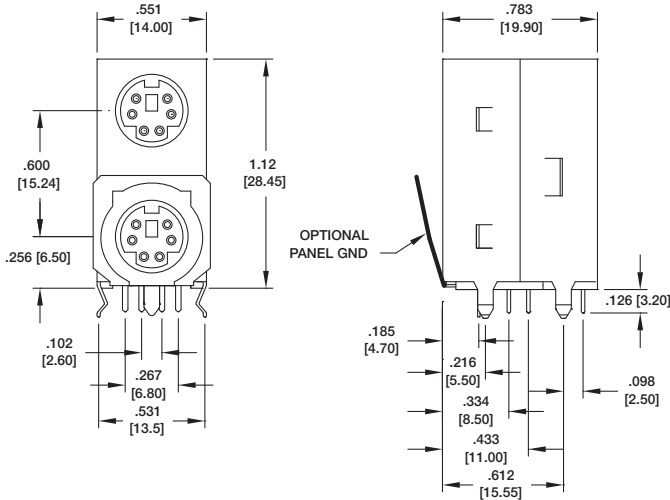
6 POSITION



4 POSITION



**MDJD-006-FS-RT**



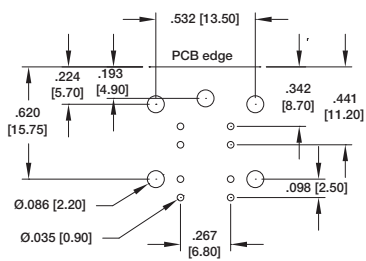
6 POSITION



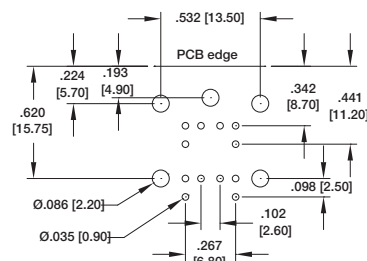
4 POSITION



**MDJD-006-FS-RT-PG**



4 Position



6 Position

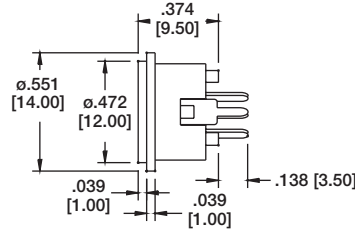
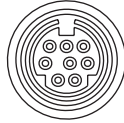
**Recommended PCB Layout**

### MDV SERIES

#### VERTICAL MINI DIN JACK



MDV-008

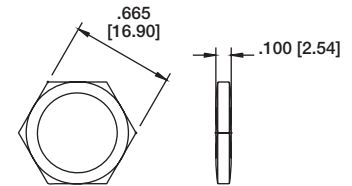
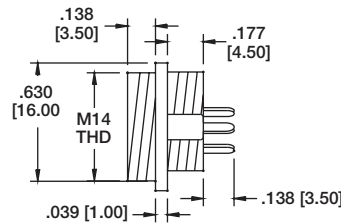
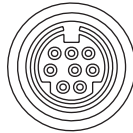


### MDV SERIES

#### VERTICAL MINI DIN JACK WITH THREADED SHELL



MDV-005-B



#### MATING FACE CONFIGURATIONS

#### 3 POSITION



#### 4 POSITION



#### 5 POSITION



#### 6 POSITION



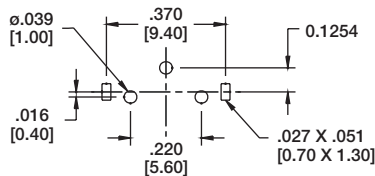
#### 7 POSITION



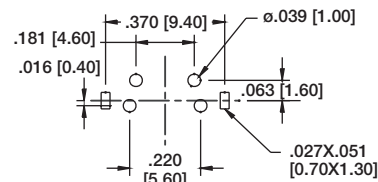
#### 8 POSITION



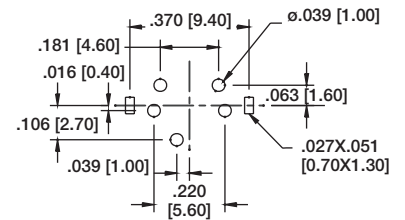
#### Recommended PCB Layouts



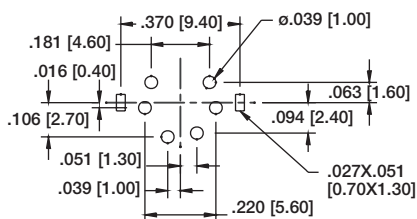
3 Position



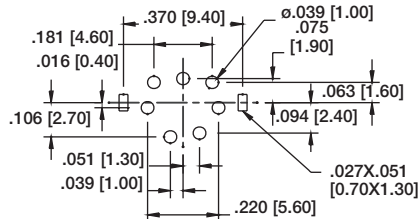
4 Position



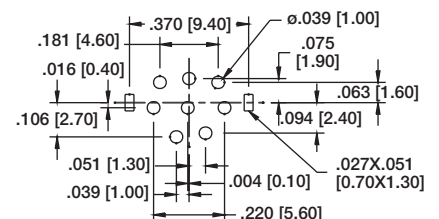
5 Position



6 Position



7 Position

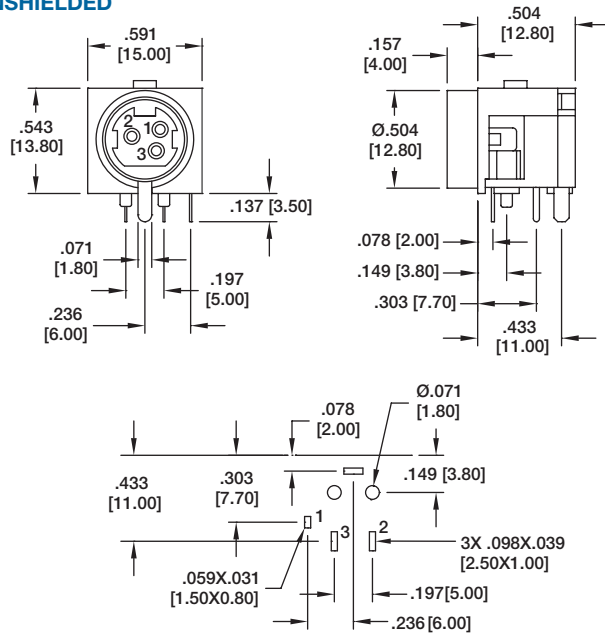


8 Position



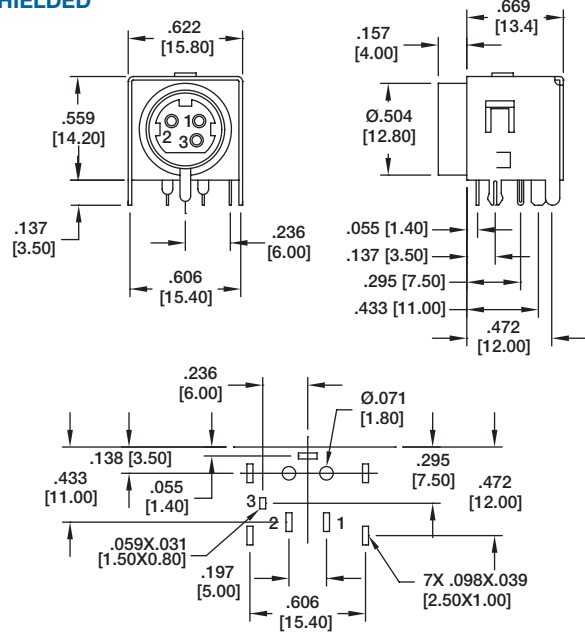


#### MPJ-3P UNSHIELDED



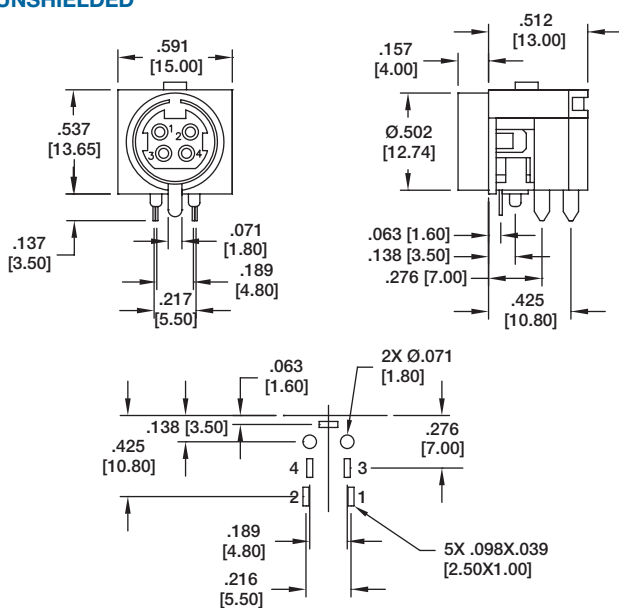
Recommended PCB Layout (Top View)

#### MPJ-3P-S SHIELDED



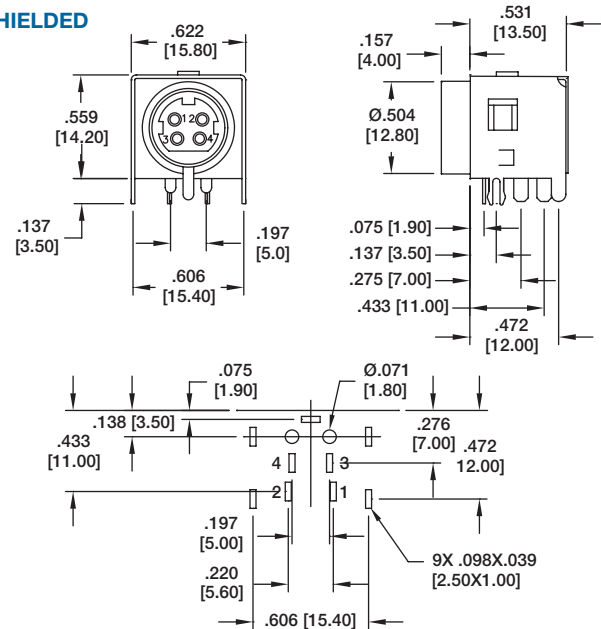
Recommended PCB Layout (Top View)

#### MPJ-4P UNSHIELDED



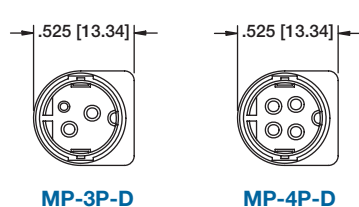
Recommended PCB Layout (Top View)

#### MPJ-4P-S SHIELDED



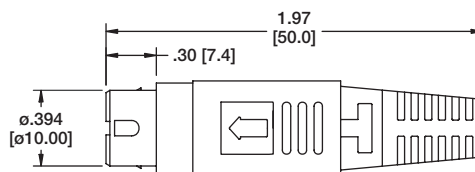
Recommended PCB Layout (Top View)

#### MP SERIES POWER PLUG



MP-3P-D

MP-4P-D



#### INTRODUCTION:

Adam Tech DP and MDP series male and female DIN and Mini DIN plugs are offered in an assembly version which contains a fitted two-piece snap-together metal shell with a slide over boot which surrounds the center contact pad or a molded version which has a one piece metal shell permanently attached to the contact pad which is used in over-molded cable production. Their simple yet extremely sturdy design make them perfect for most applications.

#### FEATURES:

DIN and Mini DIN styles  
Easy two-piece metal shell assembly  
Over-mold or assembly versions

#### MATING CONNECTORS:

All industry standard circular Mini DIN and DIN jacks.

#### SPECIFICATIONS:

##### Material:

Insulator: PBT glass filled, rated UL94V-0  
Insulator Color: Black standard, custom colors available  
Contacts: Brass  
Shield: Copper Alloy, Tin Plated

##### Contact Plating:

Nickel on mating area, Tin over Copper underplate on solder area.

##### Electrical:

Operating voltage: 100V AC / 12V DC max.  
Current rating: Mini Din: 1 Amp max.  
Din: 2 Amps max  
Contact resistance: 20 mΩ max. initial  
Insulation resistance: 500 MΩ min.  
Dielectric withstanding voltage: 500V AC for 1 minute

##### Mechanical:

Insertion force: 9.9 lbs max.  
Withdrawal force: 0.8 lbs min  
Mating durability: 5000 cycles min.

##### Temperature Rating:

Operating temperature: -25°C to +70°C

##### PACKAGING:

Anti-ESD plastic trays

##### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



#### ORDERING INFORMATION

MDP

008

##### SERIES INDICATOR

**DP** = Male DIN Plug  
**DS** = Female DIN Plug  
**MDP** = Male Mini DIN Plug  
**MDS** = Female Mini DIN Plug

##### NO. OF POSITIONS

003 thru 008 (DP/DS)  
003 thru 009 (MDP/MDS)



##### OPTIONS:

Add designator(s) to end of part number  
G = Gold plated contacts  
M = Single piece barrel and contact pad without plastic shell for molding applications

<p><b>DP SERIES DIN PLUG</b></p> <p>003 004 005 006 007 008</p>	<p><b>DP-008</b></p>
<p><b>DS SERIES DIN SOCKET</b></p> <p>003 004 005 006 007 008</p>	<p><b>DS-008</b></p>
<p><b>MDP SERIES MINI DIN PLUG</b></p> <p>MDP-006</p>	<p><b>MDP-006</b></p>
<p><b>MDS SERIES MINI DIN SOCKET</b></p> <p>MDS-008</p>	<p><b>MDS-008</b></p>
<p>3 Pin 4 pin 5 pin 6 pin 7 pin 8 pin 9 pin</p>	

### INTRODUCTION:

Adam Tech DNR Series DIN 41612 connectors are a versatile two piece PCB connector set with features useful for many applications including connections between plug-in card and back-panel wiring, PCB to PCB attachment and peripheral connections for external interfaces. Features include a multitude of body sizes and styles with options that include selective contact loading, make and break contacts, contact lead length choices, and contact plating variations each in .100" [2.54] or .200" [5.08] centerline spacing.

### FEATURES:

Industry Standard Compatible  
Multiple Body Sizes  
Contact Plating Options  
Make and Break contacts  
.100" or .200" Centerlines

### Mating Options:

Adam Tech DNR series and All industry standard DIN 41612 Connectors.

### SPECIFICATIONS:

#### Material:

Standard insulator: PBT, glass filled, rated UL94V-0  
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0  
Insulator Color: Beige  
Contacts: Brass or Phosphor Bronze

#### Plating:

Gold over nickel underplate on contact area  
Tin over copper underplate on tails

#### Electrical:

Operating voltage: 500V AC max.  
Current rating: 2 Amps max  
Contact resistance: 30 mΩ max. initial  
Insulation resistance: 1000 MΩ min.  
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:

Insertion force: 20 lbs / contact max.  
Withdrawal force: 0.033 lbs / contact min  
Mating durability: Class I: 500 cycles  
Class II: 250 cycles  
Class III: 100 cycles  
Temperature Rating:  
Operating temperature: -55°C to +125°C  
Soldering process temperature:  
Standard insulator: 235°C  
Hi-Temp insulator: 260°C

### PACKAGING:

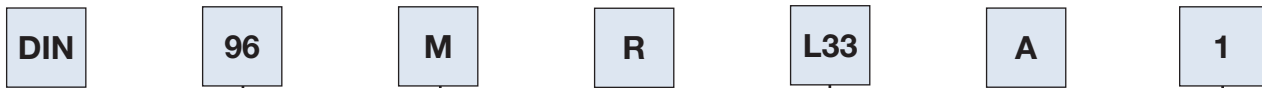
Anti-ESD plastic trays or tubes

### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



## ORDERING INFORMATION



### SERIES INDICATOR

**DIN** = DIN 41612 Connector

**96**

### NO. OF CONTACTS

Short body 2 rows: 16, 32  
Short body 3 rows: 16, 32, 48  
Long body 2 rows: 32, 64  
Long body 3 rows: 32, 64, 96  
Long body 4 rows: 100, 128, 160, 200, 240

**M**

### GENDER

**M** = Male, Pin Contacts  
**F** = Female, Socket Contacts

**R**

### MOUNTING ANGLE

**S** = Straight, PCB mount  
**R** = Right Angle, PCB mount

**L33**

### BODY TYPE

**S22** = Short body, 2 rows  
A & B Loaded  
**S32** = Short body, 3 rows  
A & C Loaded  
**S33** = Short body, 3 rows  
A, B & C Loaded  
**L22** = Long body, 2 rows  
A & B Loaded  
**L32** = Long body, 3 rows  
A & C Loaded  
**L33** = Long body, 3 rows  
A, B & C Loaded  
**L44** = Long body, 4 rows  
A, B, C & D Loaded

**A**

### PITCH

**A** = .100" [2.54 mm]  
**B** = .200" [5.08 mm]

**1**

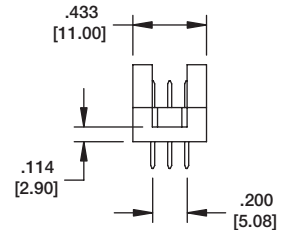
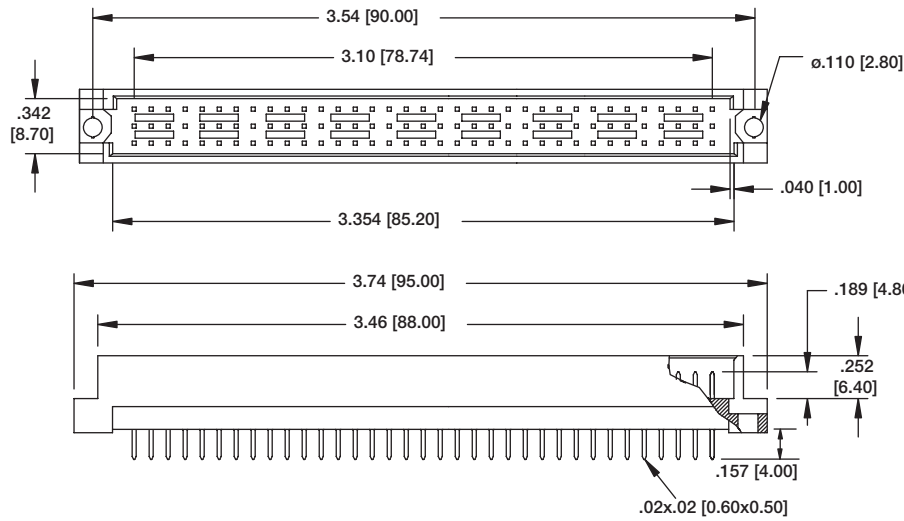
### SOLDER TAIL LENGTH

**1** = Standard solder tail length .157"  
**2** = Wire wrap .511" Solder tail (straight female only)

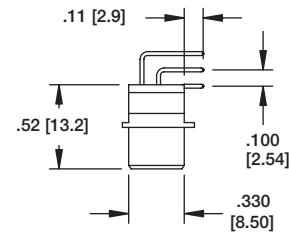
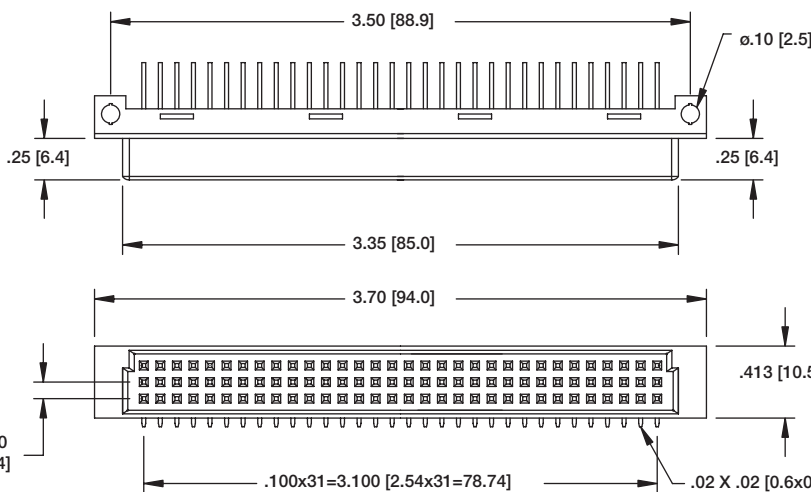
### OPTIONS:

Add designator(s) to end of part number  
**PF** = Press Fit Tails (pg 241)  
**HT** = Hi-Temp insulator 260°C max.  
**BL** = Metal board locks in mounting holes  
**C1** = 30u" Gold over nickel underplate  
**C2** = 15u" gold over nickel underplate

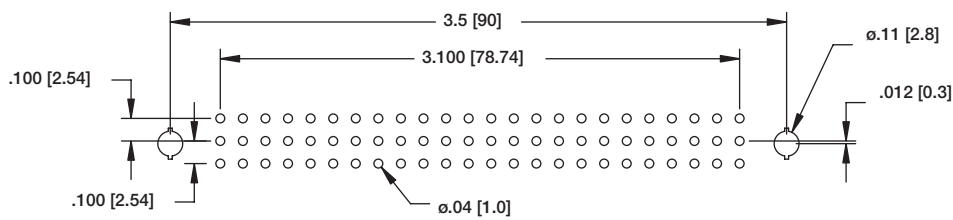
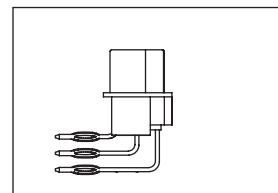
**DIN-96MS-L33-A1C1**  
**INVERSE DIN TYPE R MALE**  
**3 ROW STRAIGHT**



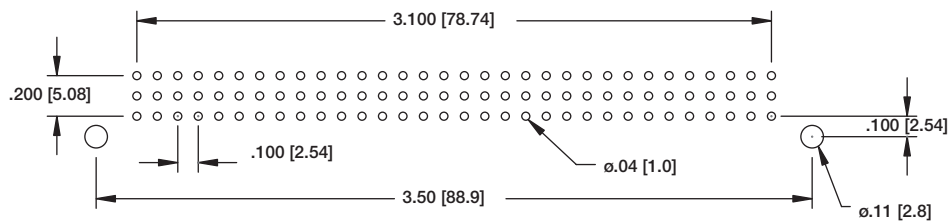
**DIN-96FR-L33-A1C1**  
**FEMALE TYPE R**  
**RIGHT ANGLE**



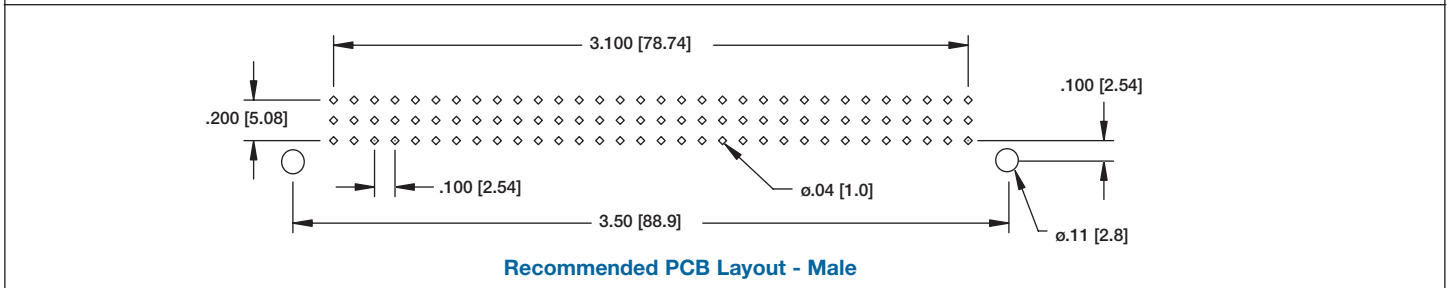
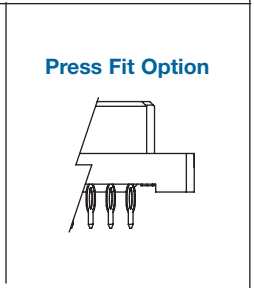
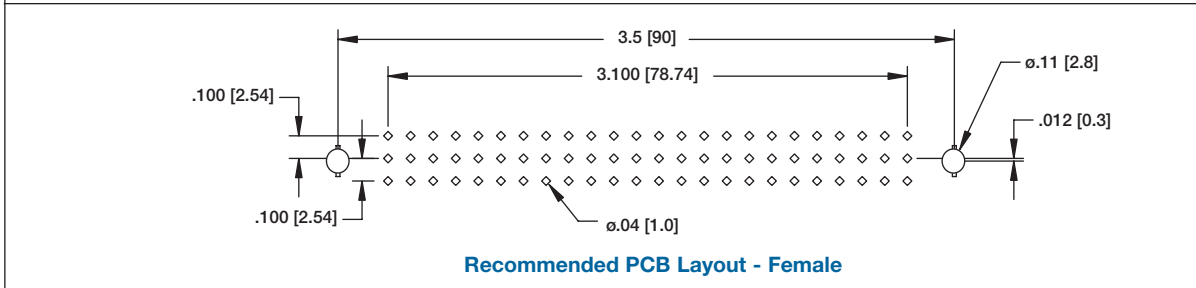
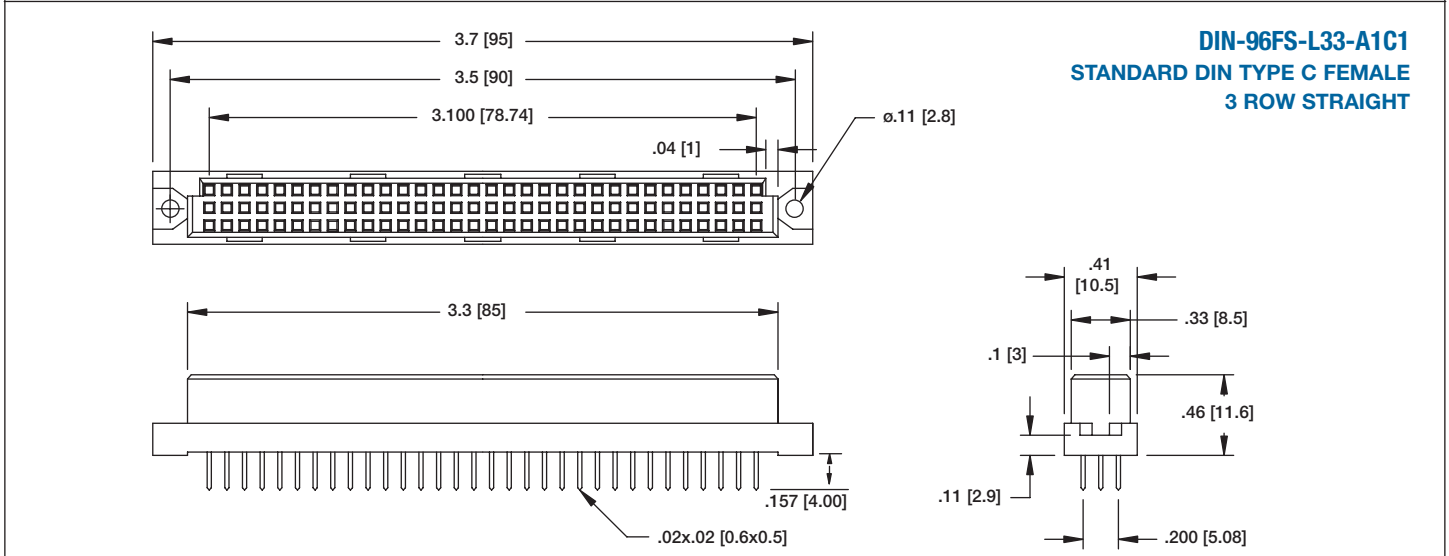
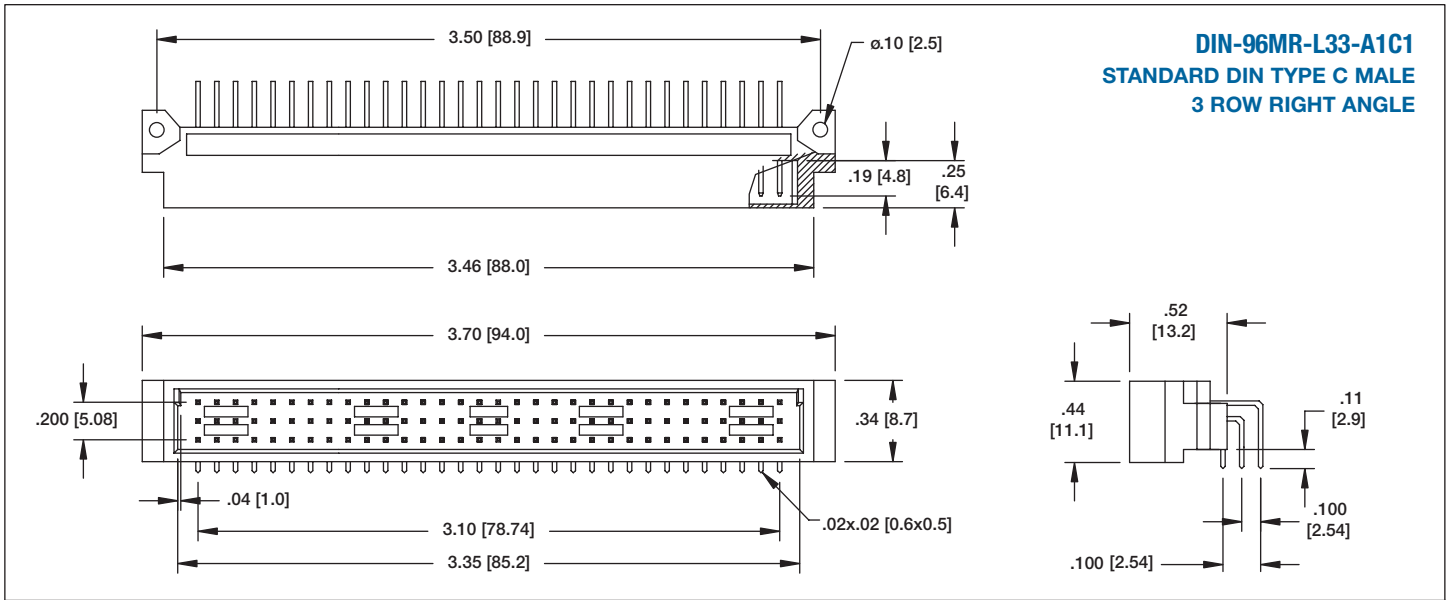
**Press Fit Option**



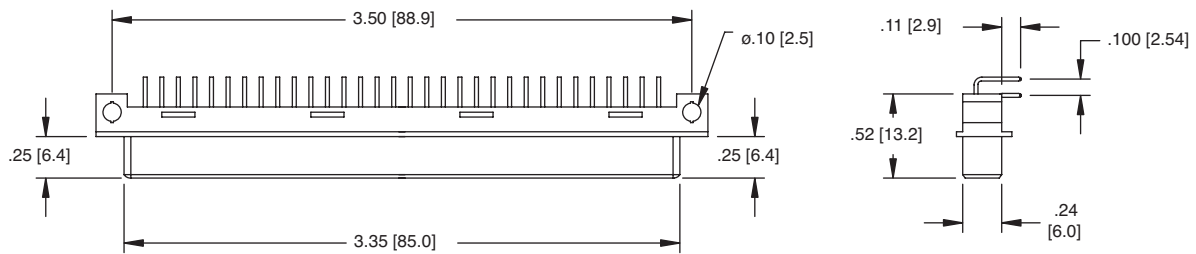
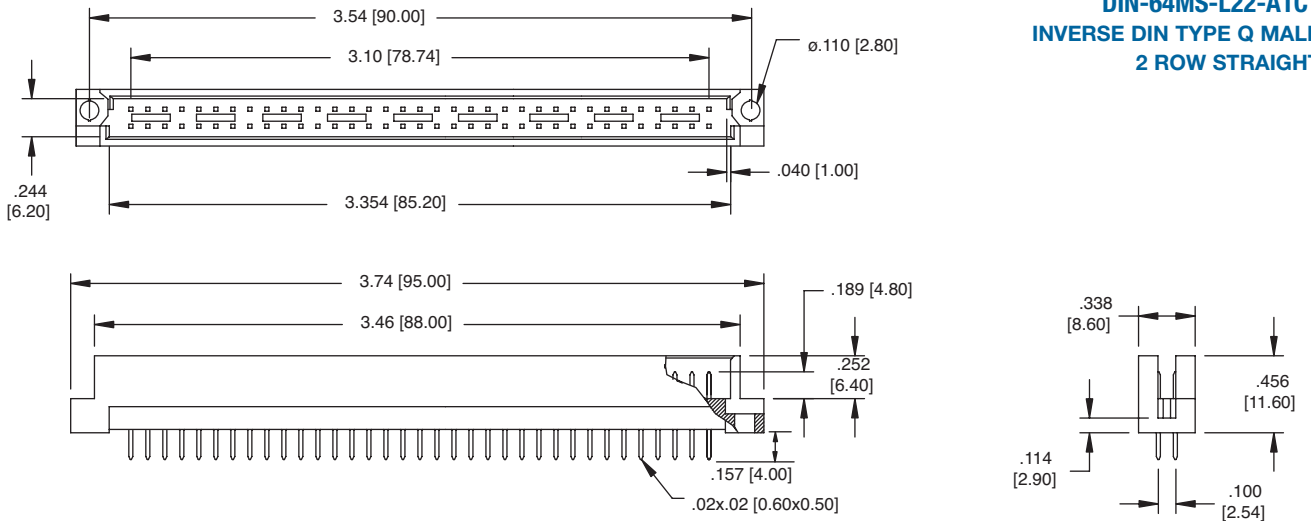
**Recommended PCB Layout - Male**



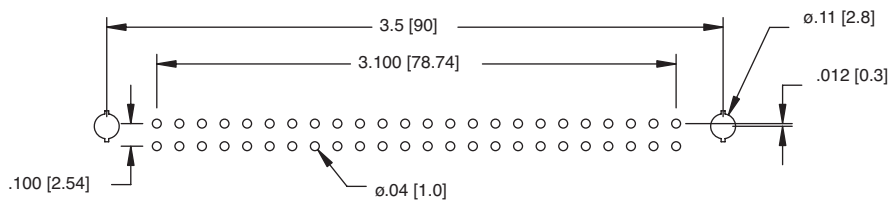
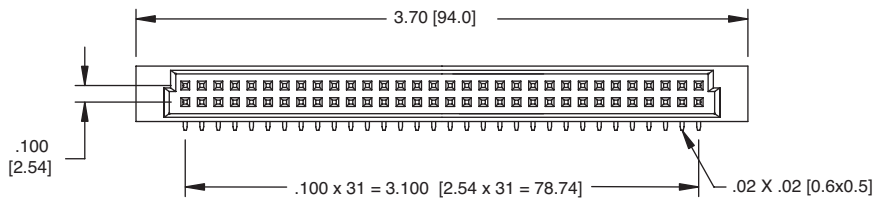
**Recommended PCB Layout - Female**



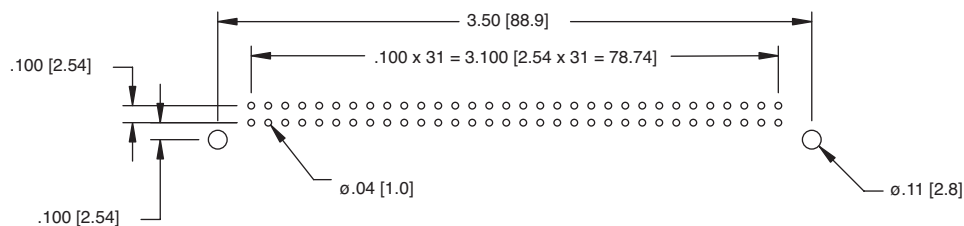
**DIN-64MS-L22-A1C1**  
**INVERSE DIN TYPE Q MALE**  
**2 ROW STRAIGHT**



**DIN-64FR-L22-A3C1**  
**INVERSE DIN TYPE Q FEMALE**  
**2 ROW RIGHT ANGLE**

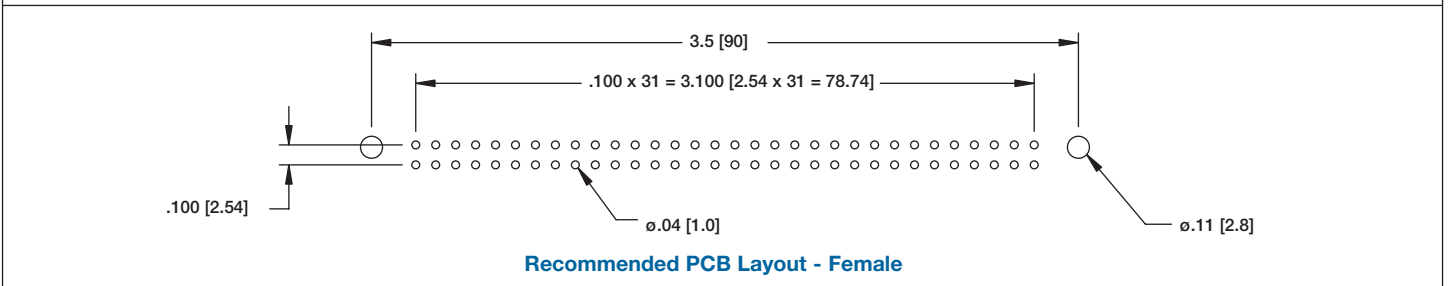
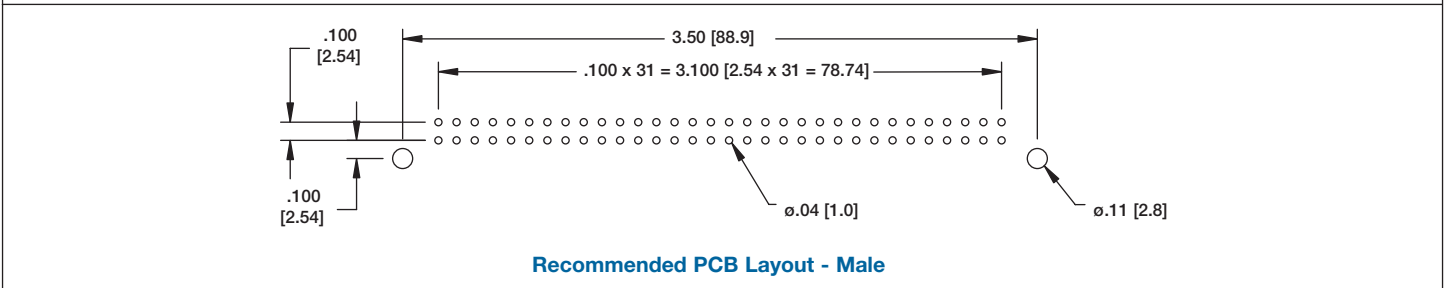
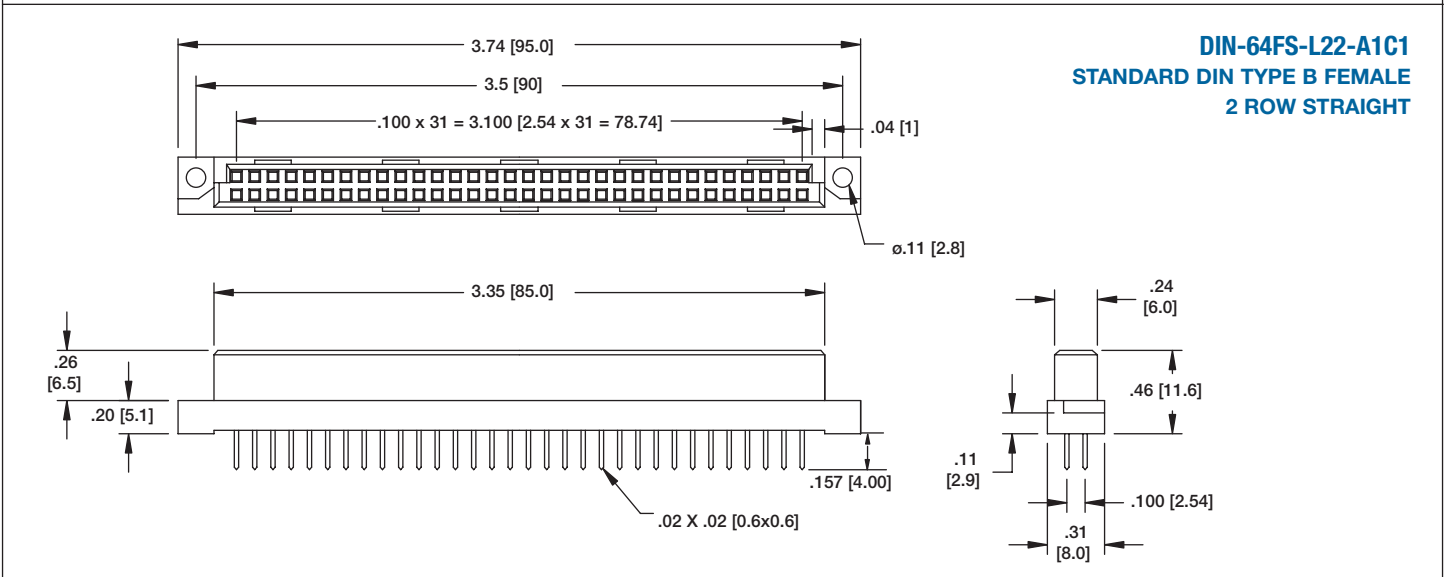
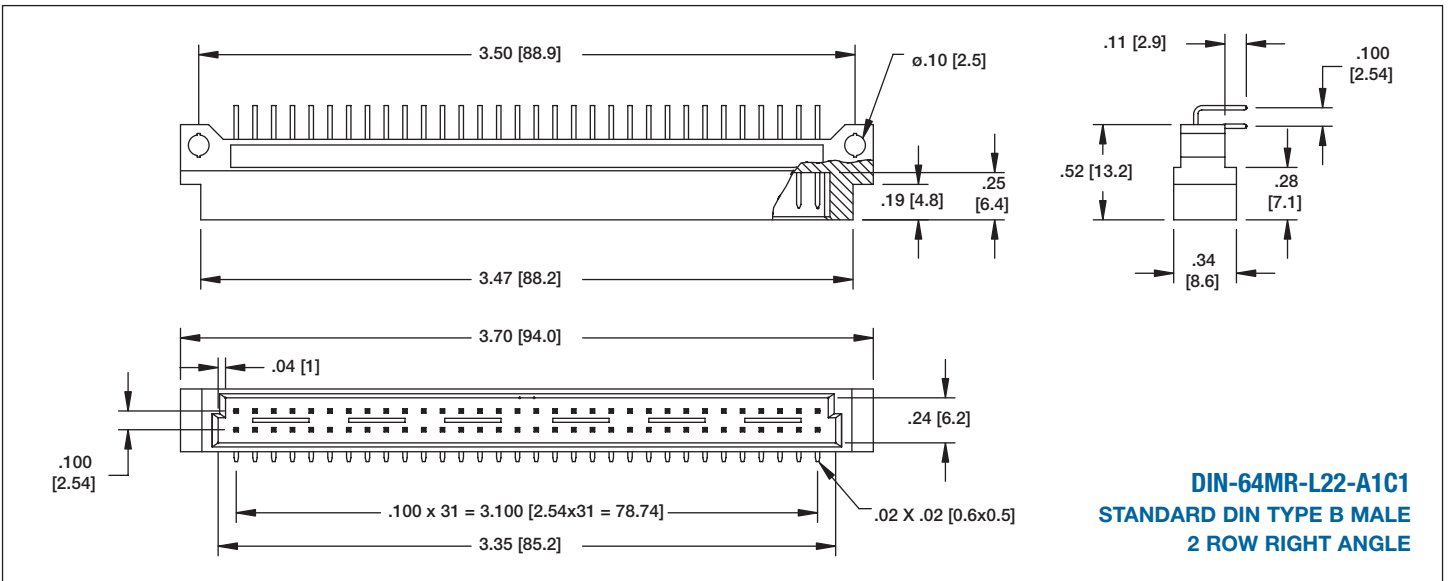


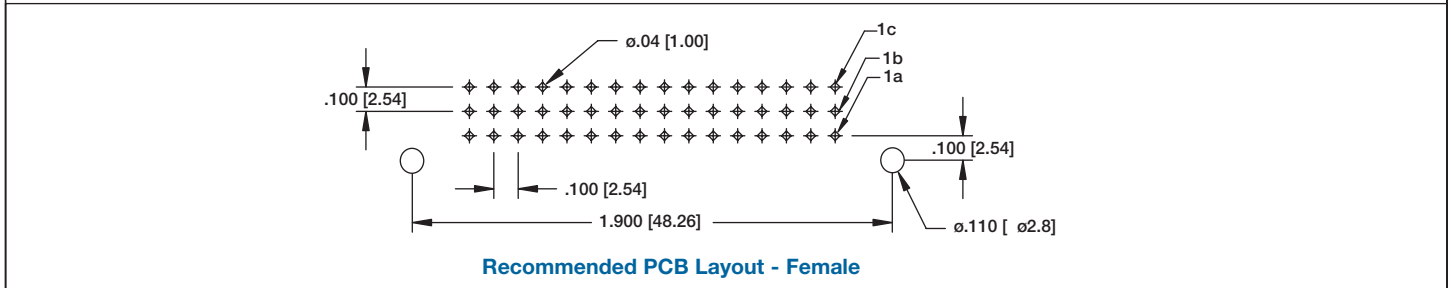
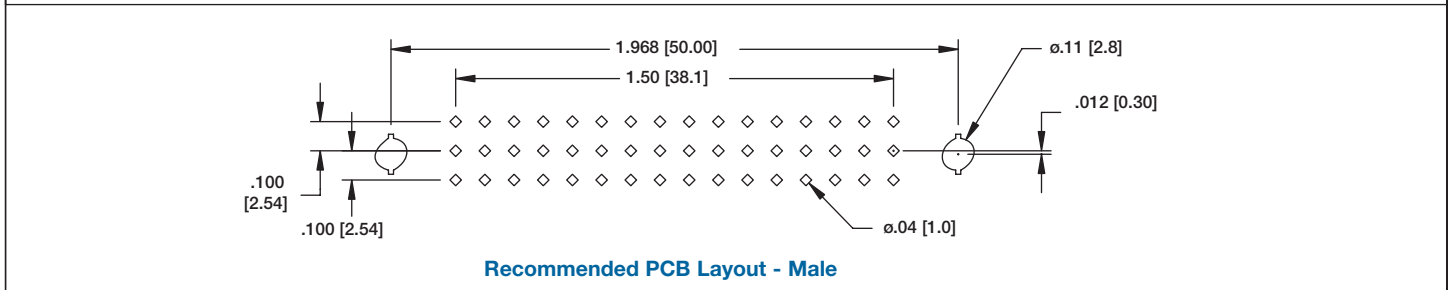
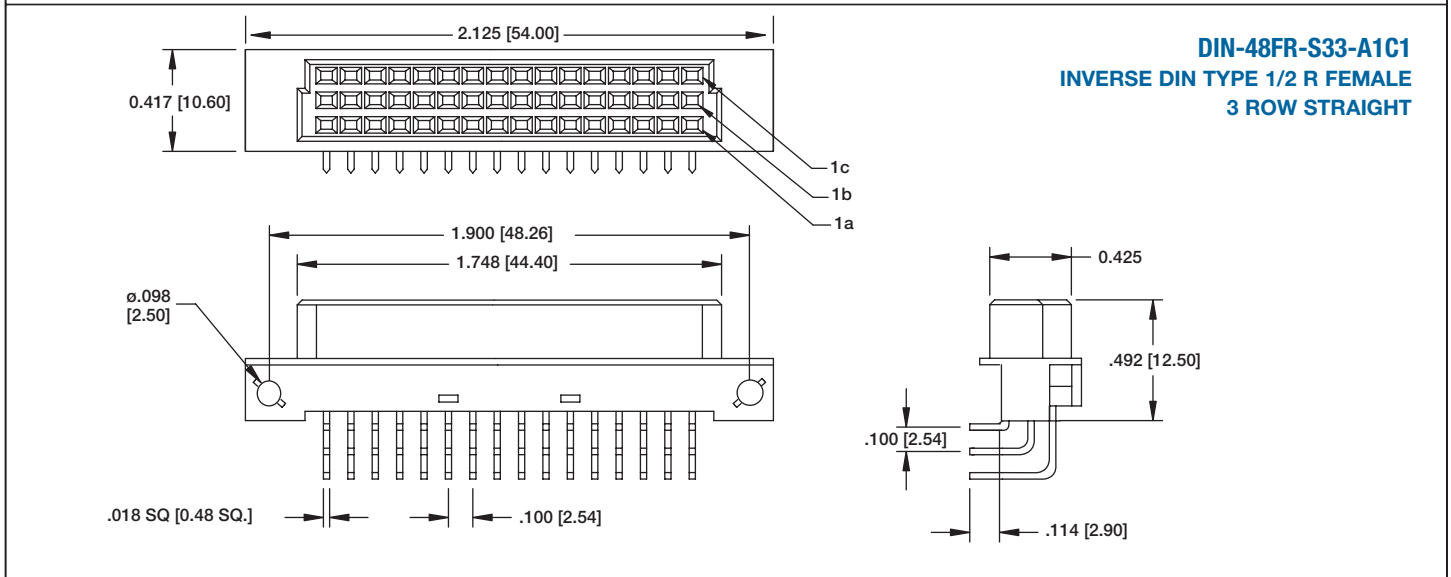
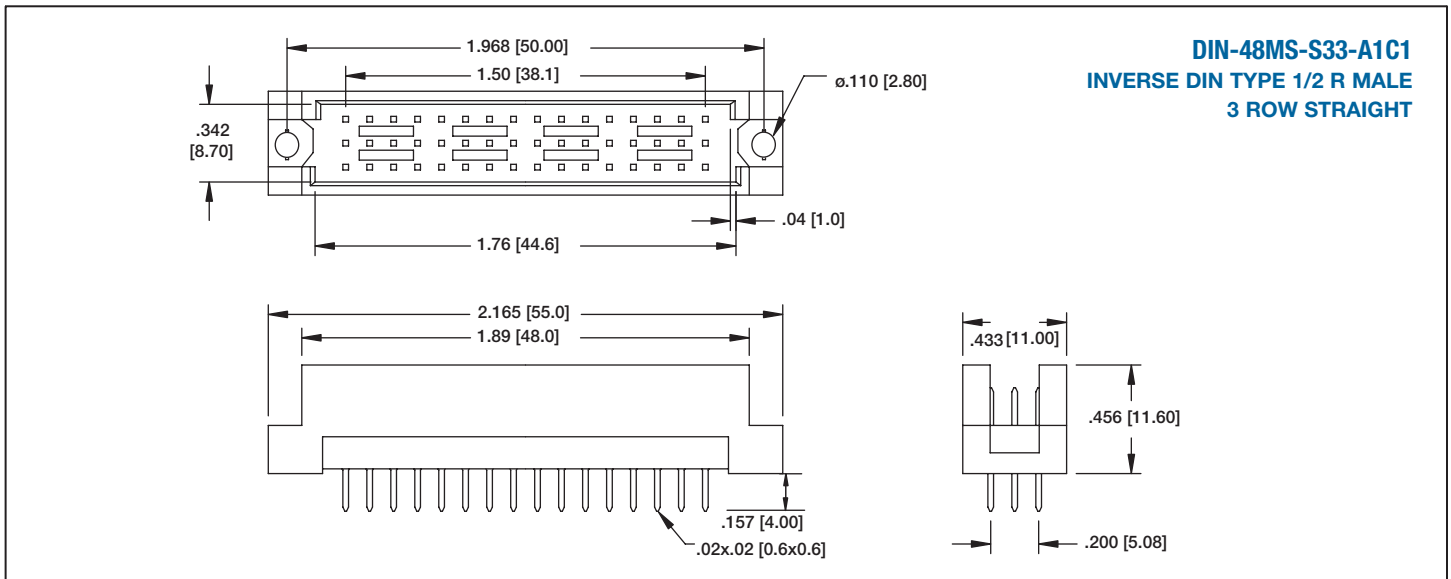
**Recommended PCB Layout - Male**

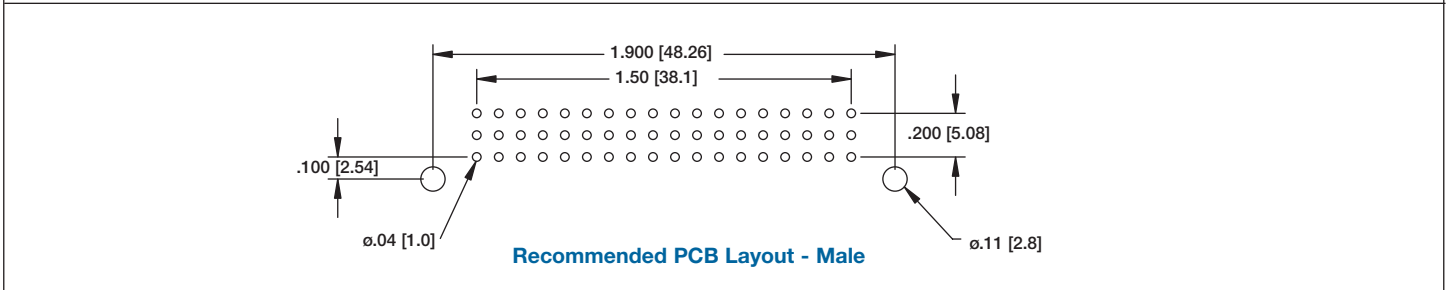
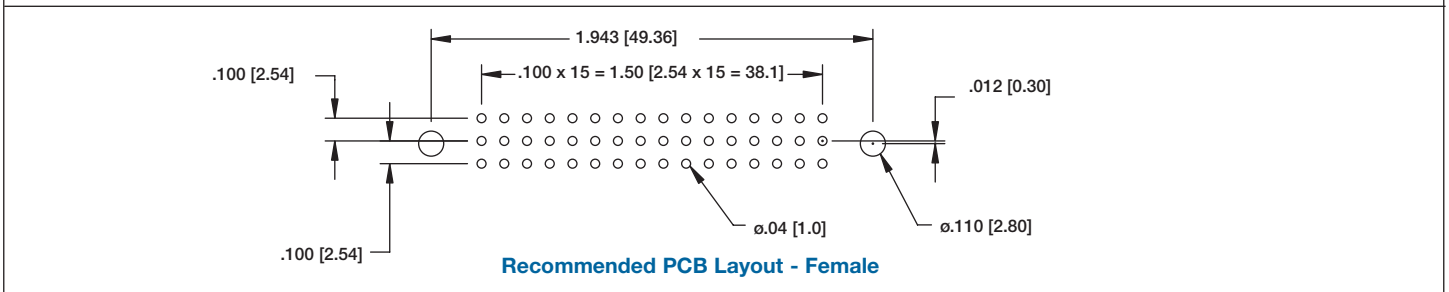
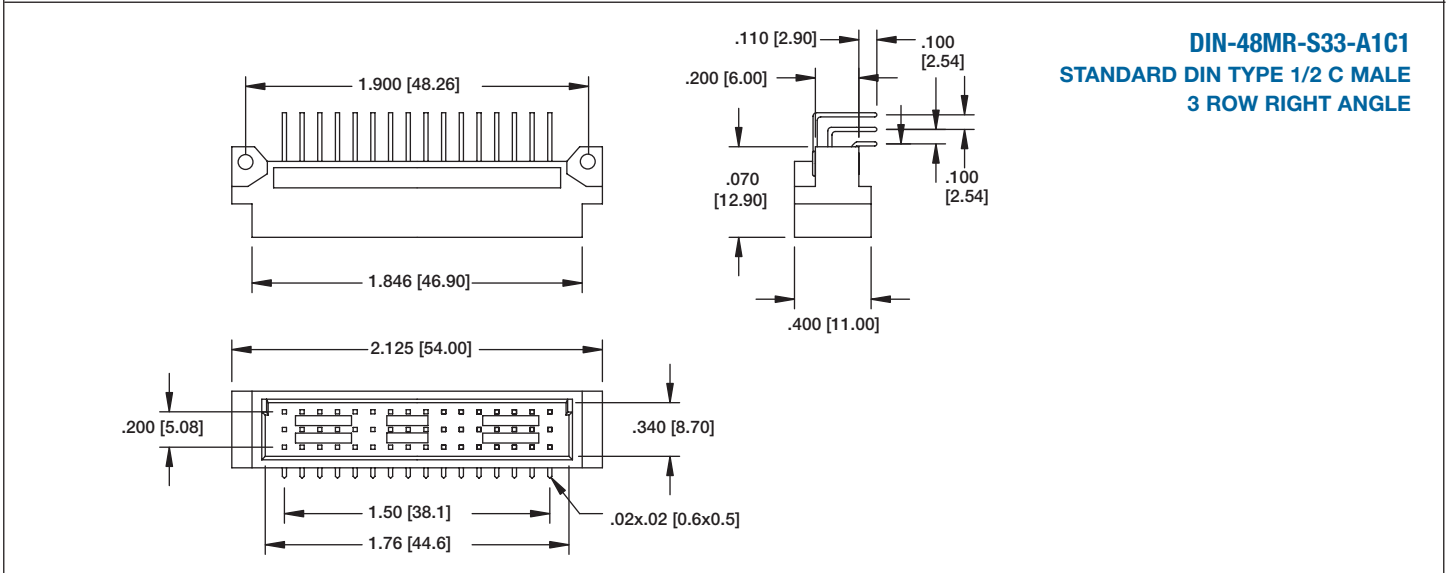
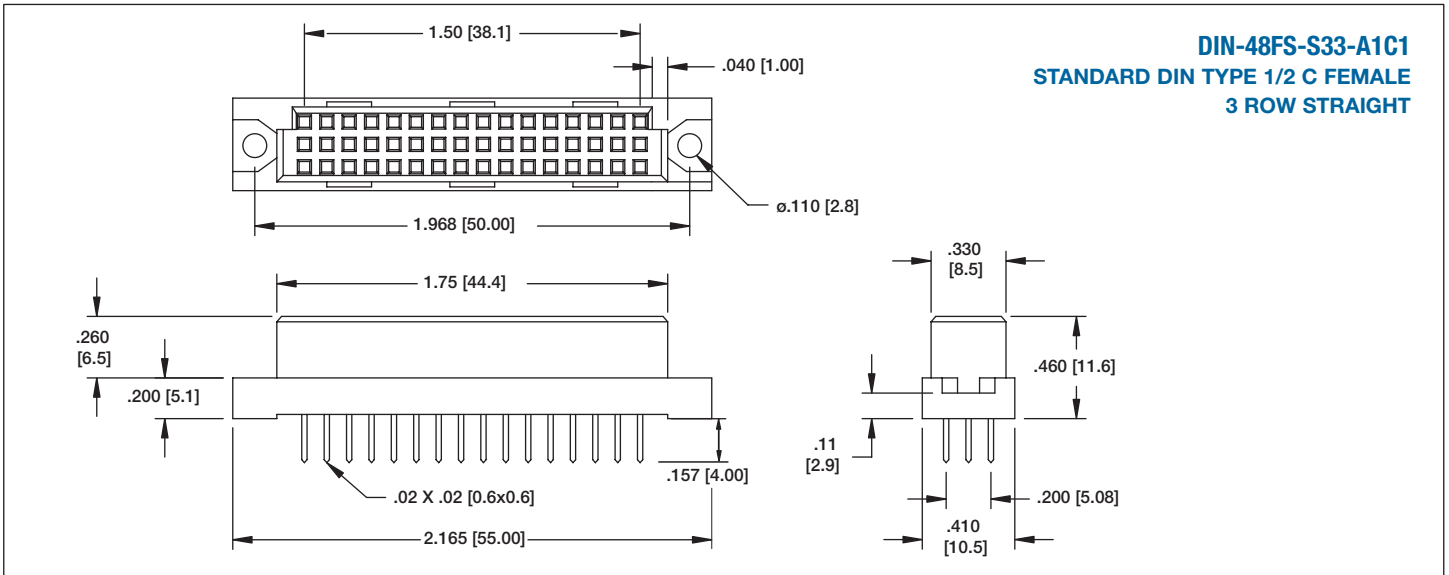


**Recommended PCB Layout - Female**

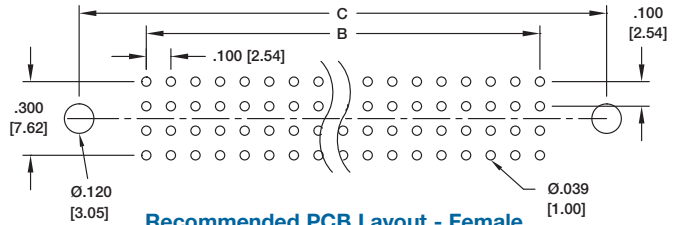
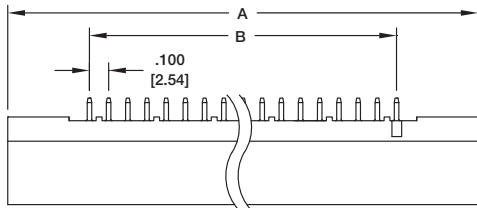




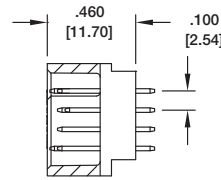
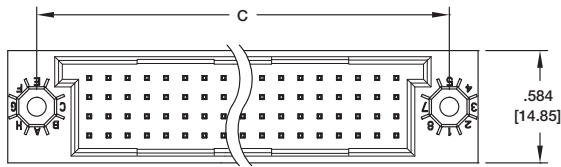




#### DIN-240MS-L44-A1 4 ROW MALE STRAIGHT

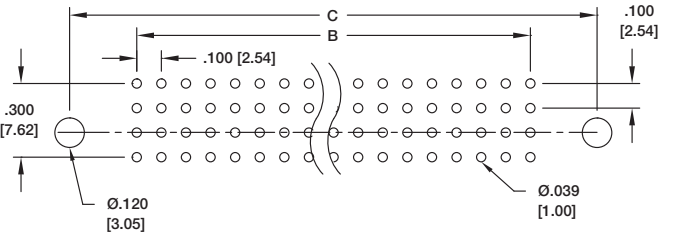
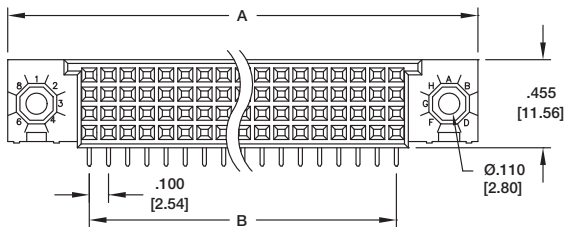


Recommended PCB Layout - Female

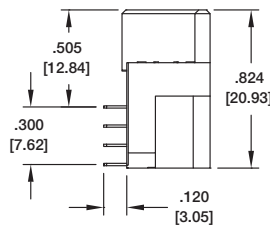
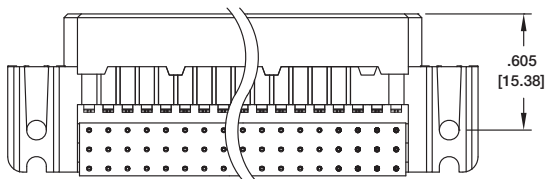


POSITIONS	DIMENSIONS		
	A	B	C
100	3.250 [82.55]	2.400 [60.96]	2.950 [74.93]
128	3.950 [100.33]	3.100 [78.74]	3.650 [92.71]
160	4.750 [120.65]	3.900 [99.06]	4.450 [113.03]
200	5.750 [146.05]	4.900 [124.46]	5.450 [138.43]
240	6.750 [171.45]	5.900 [149.86]	6.450 [163.83]

#### DIN-240FR-L44-A1 4 ROW FEMALE RIGHT ANGLE



Recommended PCB Layout - Female



POSITIONS	DIMENSIONS		
	A	B	C
100	3.250 [82.55]	2.400 [60.96]	2.950 [74.93]
128	3.950 [100.33]	3.100 [78.74]	3.650 [92.71]
160	4.750 [120.65]	3.900 [99.06]	4.450 [113.03]
200	5.750 [146.05]	4.900 [124.46]	5.450 [138.43]
240	6.750 [171.45]	5.900 [149.86]	6.450 [163.83]

### INTRODUCTION:

Adam Tech HHS Series of multiple pitch Headers and Housings are a matched set of Crimp Wire Housings and PCB mounted Shrouded Headers available in Straight, Right Angle or SMT orientation. Offered in various popular industry standard styles they provide a lightweight, fine pitched, polarized, high reliability connection system.

### FEATURES:

Multiple pitches and configurations  
Matched Housing & Header system  
Straight, Right Angle or SMT Headers  
Sure fit, Fine Pitched & Polarized

### MATING CONNECTORS:

Each set has a male and female mate

### SPECIFICATIONS:

#### Material:

Insulator: Thru-hole: PBT, glass reinforced, rated UL94V-0  
SMT: Nylon 46 or 6T, rated UL94V-0

Contacts: Brass

#### Plating:

Tin over copper underplate overall

#### Electrical:

Operating voltage: 100V AC max.  
Current rating: 0.5 - 5 Amps max.  
Insulation resistance: 1000 MΩ min.  
Dielectric withstanding voltage: 800V AC for 1 minute

#### Mechanical:

Insertion force: 1.28 lbs max  
Withdrawal force: 0.180 lbs min.

#### Temperature Rating:

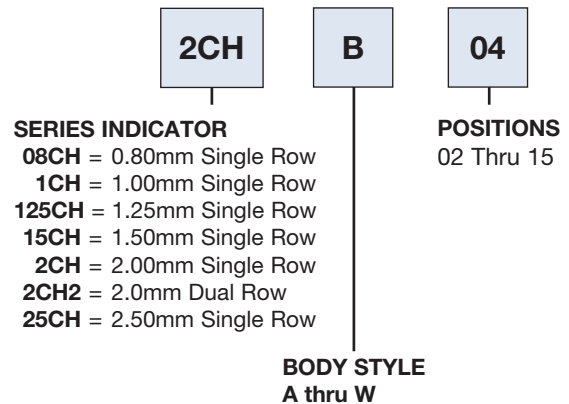
Operating temperature: -25°C to +85°C

### SAFETY AGENCY APPROVALS:

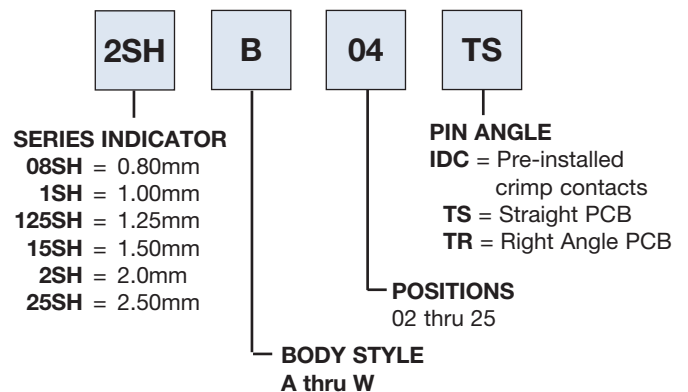
UL Recognized File no. E224053



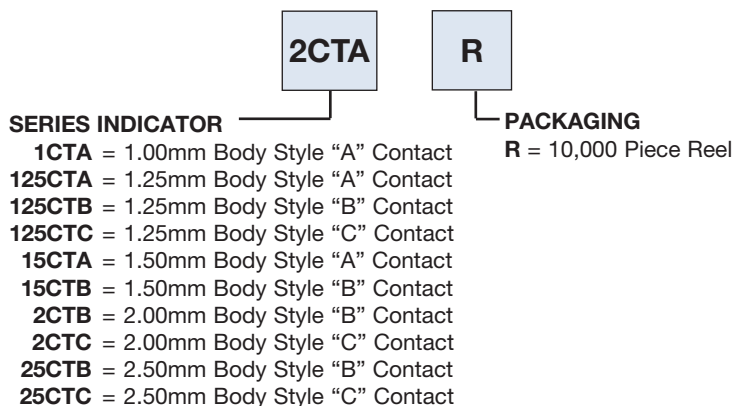
### ORDERING INFORMATION CRIMP HOUSING



### ORDERING INFORMATION SHROUDED HEADER



### ORDERING INFORMATION CRIMP CONTACT



### OPTIONS:

Add designator(s) to end of part number  
SMT = Surface mount leads with Hi-Temp insulator

## 0.8mm TYPE A

**08CH-A-XX-IDC**  
0.8mm IDC HOUSING  
WITH PRE-INSTALLED  
CONTACTS

**08CH-A-08-IDC**

Replace (XX) with No. of positions  
A=.031 [0.80] X No. of Positions -1  
B=.031 [0.80] X No. of Positions + .031 [0.80]

**08SH-A-XX-TS-SMT**  
0.8mm VERTICAL SMT HEADER

**08SH-A-08-TS-SMT**

Replace (XX) with No. of positions  
A=.031 [0.80] X No. of Positions -1  
B=.031 [0.80] X No. of Positions + .031 [0.80]

**Recommended PCB Layout**

## 1.00mm TYPE A

**1CH-A-XX**  
1.00mm CRIMP HOUSING

**1CH-A-04**

Replace (XX) with No. of positions  
A=.039 [1.00] X No. of Positions -1  
B=.039 [1.00] X No. of Positions + .118 [3.00]

**1CTA-R**  
1.00mm TERMINAL

**1CTA-R**

Recommended wire size 32-28 awg.

**1SH-A-XX-TS-SMT**  
1.00mm VERTICAL SMT HEADER

**1SH-A-04-TS-SMT**

Replace (XX) with No. of positions  
A=.039 [1.00] X No. of Positions -1  
B=.039 [1.00] X No. of Positions + .078 [2.00]

**Recommended PCB Layout**

**1SH-A-XX-TR-SMT**  
1.00mm RIGHT ANGLE SMT HEADER

**1SH-A-04-TR-SMT**

Replace (XX) with No. of positions  
A=.039 [1.00] X No. of Positions -1  
B=.039 [1.00] X No. of Positions + .078 [2.00]

**Recommended PCB Layout**

**125CH-A-XX**  
1.25mm CRIMP HOUSING

**125CH-A-10**

Replace (XX) with No. of positions  
 A=.049 [1.25] X No. of Positions -1  
 B=.049 [1.25] X No. of Positions + .068 [1.75]

**125CTA-R**  
1.25mm CRIMP TERMINAL

**125CTA-R**

Recommended wire size 32-28 awg.

**125SH-A-XX-TS**  
1.25mm VERTICAL HEADER

**125SH-A-04-TS**

**Recommended PCB Layout**

Replace (XX) with No. of positions  
 A=.049 [1.25] X No. of Positions -1  
 B=.049 [1.25] X No. of Positions + .068 [1.75]

**125SH-A-XX-TR**  
1.25mm RIGHT ANGLE HEADER

**125SH-A-04-TR**

**Recommended PCB Layout**

Replace (XX) with No. of positions  
 A=.049 [1.25] X No. of Positions -1  
 B=.049 [1.25] X No. of Positions + .068 [1.75]

**125SH-A-XX-TS-SMT**  
1.25mm VERTICAL SMT HEADER

**125SH-A-04-TS-SMT**

**Recommended PCB Layout**

**125SH-A-XX-TR-SMT**  
1.25mm RIGHT ANGLE SMT HEADER

**125SH-A-04-TR-SMT**

**Recommended PCB Layout**



**125CH-B-XX**  
1.25mm CRIMP HOUSING

**125CH-B-10**

Replace (XX) with No. of positions  
 A=.049 [1.25] X No. of Positions -1  
 B=.049 [1.25] X No. of Positions + .017 [0.45]  
 C=.049 [1.25] X No. of Positions + .068 [1.75]

**125CTB-R**  
1.25mm CRIMP TERMINAL

**125CTB-R**

Recommended wire size 32-28 awg.

**125SH-B-XX-TS**  
1.25mm VERTICAL HEADER

**125SH-B-04-TS**

Replace (XX) with No. of positions  
 A=.049 [1.25] X No. of Positions -1  
 B=.049 [1.25] X No. of Positions + .068 [1.75]  
 C=.049 [1.25] X No. of Positions + .068 [1.75]

**Recommended PCB Layout**

**125SH-B-XX-TS-SMT**  
1.25mm VERTICAL SMT HEADER

**125SH-B-04-TS-SMT**

Replace (XX) with No. of positions  
 A=.049 [1.25] X No. of Positions -1  
 B=.049 [1.25] X No. of Positions + .068 [1.75]  
 C=.049 [1.25] X No. of Positions + .202 [5.15]

**Recommended PCB Layout**

**125SH-B-XX-TR-SMT**  
1.25mm RIGHT ANGLE SMT HEADER

**125SH-B-04-TR-SMT**

Replace (XX) with No. of positions  
 A=.049 [1.25] X No. of Positions -1  
 B=.049 [1.25] X No. of Positions + .068 [1.75]  
 C=.049 [1.25] X No. of Positions + .187 [4.75]

**Recommended PCB Layout**

**125SH-B-XX-TR-SMT**  
1.25mm RIGHT ANGLE SMT HEADER

**125SH-B-04-TR-SMT**

Replace (XX) with No. of positions  
 A=.049 [1.25] X No. of Positions -1  
 B=.049 [1.25] X No. of Positions + .068 [1.75]  
 C=.049 [1.25] X No. of Positions + .187 [4.75]

**Recommended PCB Layout**

**125CH-C-XX**  
1.25mm CRIMP HOUSING

**125CH-C-05**

Replace (XX) with No. of positions  
 A=.049 [1.25] X No. of Positions -1  
 B=.049 [1.25] X No. of Positions + .065 [1.65]

**125CTC-R**  
1.25mm CRIMP TERMINAL

**125CTC-R**

Recommended wire size 28-32 awg.

**125SH-C-XX-TS**  
1.25mm VERTICAL HEADER

**125SH-C-05-TS**

Replace (XX) with No. of positions  
 A=.049 [1.25] X No. of Positions -1  
 B=.049 [1.25] X No. of Positions + .049 [1.25]

**Recommended PCB Layout**

**125SH-C-XX-TR**  
1.25mm RIGHT ANGLE HEADER

**125SH-C-05-TR**

Replace (XX) with No. of positions  
 A=.049 [1.25] X No. of Positions -1  
 B=.049 [1.25] X No. of Positions + .049 [1.25]

**Recommended PCB Layout**

**125SH-C-XX-TS-SMT**  
1.25mm VERTICAL SMT HEADER

**125SH-C-06-TS-SMT**

Replace (XX) with No. of positions  
 A=.049 [1.25] X No. of Positions -1  
 B=.049 [1.25] X No. of Positions + .065 [1.65]  
 C=.049 [1.25] X No. of Positions + .124 [3.15]

**Recommended PCB Layout**

**125SH-C-XX-TR-SMT**  
1.25mm RIGHT ANGLE SMT HEADER

**125SH-C-08-TR-SMT**

Replace (XX) with No. of positions  
 A=.049 [1.25] X No. of Positions -1  
 B=.049 [1.25] X No. of Positions + .065 [1.65]  
 C=.049 [1.25] X No. of Positions + .124 [3.15]

**Recommended PCB Layout**

**125CH-D-XX**  
1.25mm CRIMP HOUSING

**125SH-D-08**

CIRCUIT 1

Replace (XX) with No. of positions  
 $A = .049 [1.25] \times \text{No. of Positions} - 1$   
 $B = .049 [1.25] \times \text{No. of Positions} + .077 [1.95]$

**125CH-G**  
1.25mm CRIMP HOUSING

**125SH-G-08**

Replace (XX) with No. of positions  
 $A = .049 [1.25] \times \text{No. of Positions} - 1$   
 $B = .049 [1.25] \times \text{No. of Positions} + .057 [1.45]$

**125SH-D-XX-TR-SMT**  
1.25mm RIGHT ANGLE  
SMT HEADER

**125SH-D-06-TR-SMT**

Replace (XX) with No. of positions  
 $A = .049 [1.25] \times \text{No. of Positions} - 1$   
 $B = .049 [1.25] \times \text{No. of Positions} + .244 [6.20]$   
 $C = .049 [1.25] \times \text{No. of Positions} + .205 [5.20]$

**Recommended PCB Layout**

**125SH-G-XX-TR-SMT**  
1.25mm RIGHT ANGLE  
SMT HEADER

**125SH-G-03-TR-SMT**

Replace (XX) with No. of positions  
 $A = .049 [1.25] \times \text{No. of Positions} - 1$   
 $B = .049 [1.25] \times \text{No. of Positions} + .252 [6.40]$

**PCB Layout**

**125CTD-R**  
1.25mm CRIMP TERMINAL

Recommended wire size 28-32 awg.

**125CTD-R**

**125CTG-X-R**  
1.25mm CRIMP TERMINAL

Recommended wire size 28-32 awg.

**125CTG-R**

SECTION A-A

SECTION B-B

### 1.5mm TYPE A

<p style="text-align: center;"><b>15CH-A-XX</b> 1.5mm CRIMP HOUSING</p> <p style="text-align: center;"><b>15CH-A-10</b></p> <p>Replace (XX) with No. of positions          A=.059 [1.50] X No. of Positions -1          B=.059 [1.50] X No. of Positions + .059 [1.50]</p>	<p style="text-align: center;"><b>15CTA-R</b> 1.5mm CRIMP TERMINAL</p> <p style="text-align: center;"><b>15CTA-R</b></p> <p>Recommended wire size 26-30 awg.</p>
<p style="text-align: center;"><b>15SH-A-XX-TS</b> 1.5mm VERTICAL HEADER</p> <p style="text-align: center;"><b>15SH-A-04-TS</b></p> <p>Replace (XX) with No. of positions          A=.059 [1.50] X No. of Positions -1          B=.059 [1.50] X No. OF SPACES +.059 [1.50]</p> <p style="text-align: center;"><b>Recommended PCB Layout</b></p>	<p style="text-align: center;"><b>15SH-A-XX-TR</b> 1.5mm RIGHT ANGLE HEADER</p> <p style="text-align: center;"><b>15SH-A-04-TR</b></p> <p>Replace (XX) with No. of positions          A=.059 [1.50] X No. of Positions -1          B=.059 [1.50] X No. OF SPACES +.118 [3.00]</p> <p style="text-align: center;"><b>Recommended PCB Layout</b></p>
<p style="text-align: center;"><b>15SH-A-XX-TS-SMT</b> 1.5mm VERTICAL SMT HEADER</p> <p style="text-align: center;"><b>15SH-A-04-TS-SMT</b></p> <p>Replace (XX) with No. of positions          A=.059 [1.50] X No. of Positions -1          C=.059 [1.50] X No. of Positions + .118 [3.00]</p> <p style="text-align: center;"><b>Recommended PCB Layout</b></p>	<p style="text-align: center;"><b>15SH-A-XX-TR-SMT</b> 1.5mm RIGHT ANGLE SMT HEADER</p> <p style="text-align: center;"><b>15SH-A-04-TR-SMT</b></p> <p>Replace (XX) with No. of positions          A=.059 [1.50] X No. of Positions -1          C=.059 [1.50] X No. of Positions + .118 [3.00]</p> <p style="text-align: center;"><b>Recommended PCB Layout</b></p>

## 1.5mm TYPE B

<p><b>15CH-B-XX</b> 1.5mm CRIMP HOUSING</p> <p><b>15CH-B-05</b></p> <p>Replace (XX) with No. of positions A=.059 [1.50] X No. of Positions -1 B=.059 [1.50] X No. of Positions +.043 [1.10]</p>	<p><b>15CTB-R</b> 1.5mm CRIMP TERMINAL</p> <p><b>15CTB-R</b></p> <p>Recommended wire size 28-24 awg.</p>
<p><b>15SH-B-XX-TS-SMT</b> 1.5mm VERTICAL SMT HEADER</p> <p><b>15SH-B-04-TS-SMT</b></p> <p>Replace (XX) with No. of positions A=.059 [1.50] X No. of Positions -1 B=.059 [1.50] X No. of Positions +.051 [1.30]</p> <p><b>Recommended PCB Layout</b></p> <p><b>15SH-B-XX-TR-SMT</b> 1.5mm RIGHT ANGLE SMT HEADER</p> <p><b>15SH-B-04-TR-SMT</b></p> <p>Replace (XX) with No. of positions A=.059 [1.50] X No. of Positions -1 B=.059 [1.50] X No. of Positions +.051 [1.30]</p> <p><b>Recommended PCB Layout</b></p>	

## 2mm TYPE B

<p><b>2CH-B-XX</b> 2mm CRIMP HOUSING</p> <p><b>2CH-B-10</b></p> <p>Positions: 2 thru 15 Replace (XX) with No. of positions A = .079 [2.00] x No. of Positions -1 B = .079 [2.00] x No. of Positions +.063 [1.60]</p>	<p><b>2CTB</b> 2mm CRIMP TERMINAL</p> <p><b>2CTB-R</b></p> <p>Recommended wire size 28-22 awg.</p>
<p><b>2SH-B-XX-TS</b> 2mm VERTICAL SMT HEADER</p> <p><b>2SH-B-10-TS</b></p> <p>Replace (XX) with No. of positions A = .079 [2.00] x No. of Positions -1 B = .079 [2.00] x No. of Positions +.078 [2.00]</p> <p><b>Recommended PCB Layout</b></p> <p><b>2SH-B-XX-TR</b> 2mm RIGHT ANGLE SMT HEADER</p> <p><b>2SH-B-10-TR</b></p> <p>Replace (XX) with No. of positions A = .079 [2.00] x No. of Positions -1 B = .079 [2.00] x No. of Positions +.078 [2.00]</p> <p><b>Recommended PCB Layout</b></p>	

### 2mm TYPE C

**2CH-C-XX**  
2mm CRIMP HOUSING

**2CH-C-10**

Positions: 2 thru 20  
 Replace (XX) with No. of positions  
 A =  $.079 [2.00] \times \text{No. of Positions} - 1$   
 B =  $.079 [2.00] \times \text{No. of Positions} + .071 [1.80]$

**2CTC-R**  
2mm CRIMP TERMINAL

**2CTC-R**

Recommended wire size 28-22 awg.

**2SH-C-XX-TS**  
2mm VERTICAL HEADER

**2SH-C-10-TS**

PCB Layout

Positions: 2 thru 20  
 Replace (XX) with No. of positions  
 A =  $.079 [2.00] \times \text{No. of Positions} - 1$   
 B =  $.079 [2.00] \times \text{No. of Positions} + .082 [2.10]$

**2SH-C-XX-TR**  
2mm RIGHT ANGLE HEADER

**2SH-C-10-TR**

PCB Layout

Positions: 2 thru 20  
 Replace (XX) with No. of positions  
 A =  $.079 [2.00] \times \text{No. of Positions} - 1$   
 B =  $.079 [2.00] \times \text{No. of Positions} + .082 [2.10]$

**2SH-C-XX-TS-SMT**  
2mm VERTICAL SMT HEADER

**2SH-C-10-TS-SMT**

PCB Layout

Positions: 2 thru 16  
 Replace (XX) with No. of positions  
 A =  $.079 [2.00] \times \text{No. of Positions} - 1$   
 B =  $.079 [2.00] \times \text{No. of Positions} + .153 [3.90]$

**2SH-C-XX-TR-SMT**  
2mm RIGHT ANGLE SMT HEADER

**2SH-C-10-TR-SMT**

PCB Layout

Positions: 2 thru 16  
 Replace (XX) with No. of positions  
 A =  $.079 [2.00] \times \text{No. of Positions} - 1$   
 B =  $.079 [2.00] \times \text{No. of Positions} + .153 [3.90]$

## 2mm TYPE D

<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>2CH-D-XX</b> 2.0mm CRIMP HOUSING</p> <p><b>2CH-D-03</b></p> <p>Positions: 2 thru 15 Replace (XX) with No. of positions A = .079 [2.00] x No. of Spaces B = .079 [2.00] x No. of Spaces + .110 [2.80] C = .079 [2.00] x No. of Spaces + .157 [4.00]</p> </div> <div style="width: 45%;"> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>2CTD-R</b> 2.0mm CRIMP TERMINAL</p> <p><b>2CTD-R</b></p> <p>Recommended wire size 26-30 awg</p> </div> <div style="width: 45%;"> <p><b>2CTD-R</b></p> </div> </div> </div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>2SH-D-XX-TS</b> 2.0mm VERTICAL HEADER</p> <p><b>2SH-D-03-TS</b></p> <p>Positions: 2 thru 15 Replace (XX) with No. of positions A = .079 [2.00] x No. of Spaces B = .079 [2.00] x No. of Spaces + .152 [3.85]</p> <p><b>Recommended PCB Layout</b></p> </div> <div style="width: 45%;"> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>2SH-D-XX-TR</b> 2.0mm RIGHT ANGLE HEADER</p> <p><b>2SH-D-03-TR</b></p> <p>Positions: 2 thru 15 Replace (XX) with No. of positions A = .079 [2.00] x No. of Spaces B = .079 [2.00] x No. of Spaces + .152 [3.85]</p> <p><b>Recommended PCB Layout</b></p> </div> <div style="width: 45%;"> <p><b>2SH-D-03-TR</b></p> <p><b>Recommended PCB Layout</b></p> </div> </div> </div> </div>
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>2CH-F-XX</b> 2.0mm CRIMP HOUSING</p> <p><b>2CH-F-05</b></p> <p>Positions: 2 thru 15 Replace (XX) with No. of positions A = .079 [2.00] x No. of Spaces B = .079 [2.00] x No. of Spaces + .114 [2.90]</p> </div> <div style="width: 45%;"> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>2CTF-R</b> 2.0mm CRIMP TERMINAL</p> <p><b>2CTF-R</b></p> <p>Recommended wire size 26-30 awg</p> </div> <div style="width: 45%;"> <p><b>2CTF-R</b></p> </div> </div> </div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>2CH-F-XX</b> 2.0mm CRIMP HOUSING</p> <p><b>2CH-F-05</b></p> <p>Positions: 2 thru 15 Replace (XX) with No. of positions A = .079 [2.00] x No. of Spaces B = .079 [2.00] x No. of Spaces + .114 [2.90]</p> </div> <div style="width: 45%;"> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>2CTF-R</b> 2.0mm CRIMP TERMINAL</p> <p><b>2CTF-R</b></p> <p>Recommended wire size 26-30 awg</p> </div> <div style="width: 45%;"> <p><b>2CTF-R</b></p> </div> </div> </div> </div>

## 2mm TYPE F

<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>2CH-F-XX</b> 2.0mm CRIMP HOUSING</p> <p><b>2CH-F-05</b></p> <p>Positions: 2 thru 15 Replace (XX) with No. of positions A = .079 [2.00] x No. of Spaces B = .079 [2.00] x No. of Spaces + .114 [2.90]</p> </div> <div style="width: 45%;"> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>2CTF-R</b> 2.0mm CRIMP TERMINAL</p> <p><b>2CTF-R</b></p> <p>Recommended wire size 26-30 awg</p> </div> <div style="width: 45%;"> <p><b>2CTF-R</b></p> </div> </div> </div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>2CH-F-XX</b> 2.0mm CRIMP HOUSING</p> <p><b>2CH-F-05</b></p> <p>Positions: 2 thru 15 Replace (XX) with No. of positions A = .079 [2.00] x No. of Spaces B = .079 [2.00] x No. of Spaces + .114 [2.90]</p> </div> <div style="width: 45%;"> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>2CTF-R</b> 2.0mm CRIMP TERMINAL</p> <p><b>2CTF-R</b></p> <p>Recommended wire size 26-30 awg</p> </div> <div style="width: 45%;"> <p><b>2CTF-R</b></p> </div> </div> </div> </div>
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### 2mm TYPE F

<p><b>2SH-F-XX-TS</b> 2mm VERTICAL HEADER</p> <p><b>2SH-F-05-TS</b></p> <p>Positions: 2 thru 15 Replace (XX) with No. of positions A = .079 [2.00] x No. of Positions - 1 B = .079 [2.00] x No. of Positions + .157 [4.00]</p> <p><b>Recommended PCB Layout</b></p>	<p><b>2SH-F-XX-TR</b> 2mm RIGHT ANGLE HEADER</p> <p><b>2SH-F-05-TR</b></p> <p>Positions: 2 thru 15 Replace (XX) with No. of positions A = .079 [2.00] x No. of Positions - 1 B = .079 [2.00] x No. of Positions + .157 [4.00]</p> <p><b>Recommended PCB Layout</b></p>
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### 2mm TYPE H


<p>Positions: 2 thru 15 Replace (XX) with No. of positions A = .079 [2.00] x No. of Positions - 1 B = .079 [2.00] x No. of Positions + .035 [0.90]</p> <p><b>2CH-H-XX</b> 2mm CRIMP HOUSING</p> <p><b>2CH-H-05</b></p>	<p><b>2CTH-R</b> 2mm CRIMP TERMINAL</p> <p><b>2CTH-R</b></p> <p>Recommended wire size 26-30 awg</p>
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<p>Positions: 2 thru 15 Replace (XX) with No. of positions A = .079 [2.00] x No. of Positions - 1 B = .079 [2.00] x No. of Positions + .078 [2.00]</p> <p><b>2SH-H-XX-TS</b> 2mm VERTICAL HEADER WITH PEG</p> <p><b>2SH-H-05-TS</b></p> <p><b>Recommended PCB Layout</b></p>	<p>Positions: 2 thru 15 Replace (XX) with No. of positions A = .079 [2.00] x No. of Positions - 1 B = .079 [2.00] x No. of Positions + .078 [2.00]</p> <p><b>2SH-H-XX-TR</b> 2mm RIGHT ANGLE HEADER</p> <p><b>2SH-H-05-TR</b></p> <p><b>Recommended PCB Layout</b></p>
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### 2mm TYPE J

Positions: 2 thru 18  
 Replace (XX) with No. of positions  
 A = .098 [2.50] x No. of Positions -1  
 B = .098 [2.50] x No. of Positions +.157 [4.00]

**2SH-J-XX-TS**  
**2.0mm VERTICAL HEADER**




**2SH-J-04-TS**

**Recommended PCB Layout**

Positions: 2 thru 18  
 Replace (XX) with No. of positions  
 A = .098 [2.50] x No. of Positions -1  
 B = .098 [2.50] x No. of Positions +.157 [4.00]

**2SH-J-XX-TR**  
**2.0mm RIGHT ANGLE HEADER**




**2SH-J-04-TR**

**Recommended PCB Layout**

### 2.5mm TYPE E


Positions: 2 thru 18  
 Replace (XX) with No. of positions  
 A = .098 [2.50] x No. of Positions -1  
 B = .098 [2.50] x No. of Positions +.130 [3.30]  
 C = .098 [2.50] x No. of Positions +.193 [4.90]

**25CH-E-XX**  
**2.0mm CRIMP HOUSING**



**25CH-E-05**

**25CTE-R**  
**2.0mm CRIMP TERMINAL**




**25CTE-R**

Recommended wire size 22-28 awg

Positions: 2 thru 18  
 Replace (XX) with No. of positions  
 A = .098 [2.50] x No. of Positions -1  
 B = .098 [2.50] x No. of Positions +.197 [5.00]

**25SH-E-XX-TS**  
**2.5mm VERTICAL HEADER**




**25SH-E-05-TS**

**Recommended PCB Layout**

Positions: 2 thru 18  
 Replace (XX) with No. of positions  
 A = .098 [2.50] x No. of Positions -1  
 B = .098 [2.50] x No. of Positions +.197 [5.00]

**25SH-E-XX-TR**  
**2.5mm RIGHT ANGLE HEADER**



**25SH-E-05-TR**

**Recommended PCB Layout**

### 2.5mm TYPE B

**25CH-B-XX**  
2.5mm CRIMP HOUSING

**25CH-B-03**

Positions: 2 thru 20  
Replace (XX) with No. of positions  
A = .098 [2.50] x No. of Positions -1  
B = .098 [2.50] x No. of Positions + .189 [4.80]

**25BTC-R**  
2.5mm CRIMP TERMINAL

**25CTB-R**

**25SH-B-XX-TS**  
2.5mm VERTICAL HEADER

**25SH-B-03-TS**

Positions: 2 thru 20  
Replace (XX) with No. of positions  
A = .098 [2.50] x No. of Positions -1  
B = .098 [2.50] x No. of Positions + .102 [2.60]

**PC B Layout**

**25SH-B-XX-TR**  
2.5mm RIGHT ANGLE HEADER

**25SH-B-03-TR**

Positions: 2 thru 20  
Replace (XX) with No. of positions  
A = .098 [2.50] x No. of Positions -1  
B = .098 [2.50] x No. of Positions + .102 [2.60]

Wire sizes 28-24 awg.

**PCB Layout**

### 2.5mm TYPE C

**25CH-C-XX**  
2.5mm CRIMP HOUSING

**25CH-C-05**

Positions: 2 thru 20  
Replace (XX) with No. of positions  
A = .098 [2.50] x No. of Positions -1  
B = .098 [2.50] x No. of Positions + .178 [2.00]

**25CTC-R**  
2.5mm CRIMP TERMINAL

**25CTC-R**

**25SH-C-XX-TS**  
2.5mm VERTICAL HEADER

**25SH-C-04-TS**

Positions: 2 thru 15  
Replace (XX) with No. of positions  
A = .098 [2.50] x No. of Positions -1  
B = .098 [2.50] x No. of Positions + .198 [2.50]

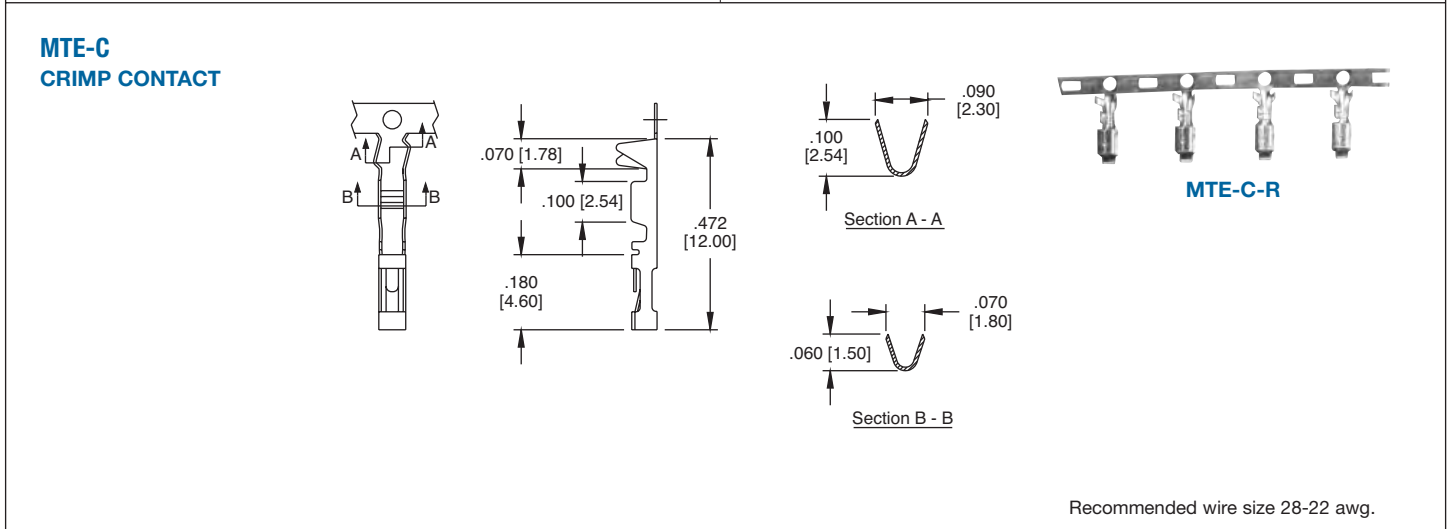
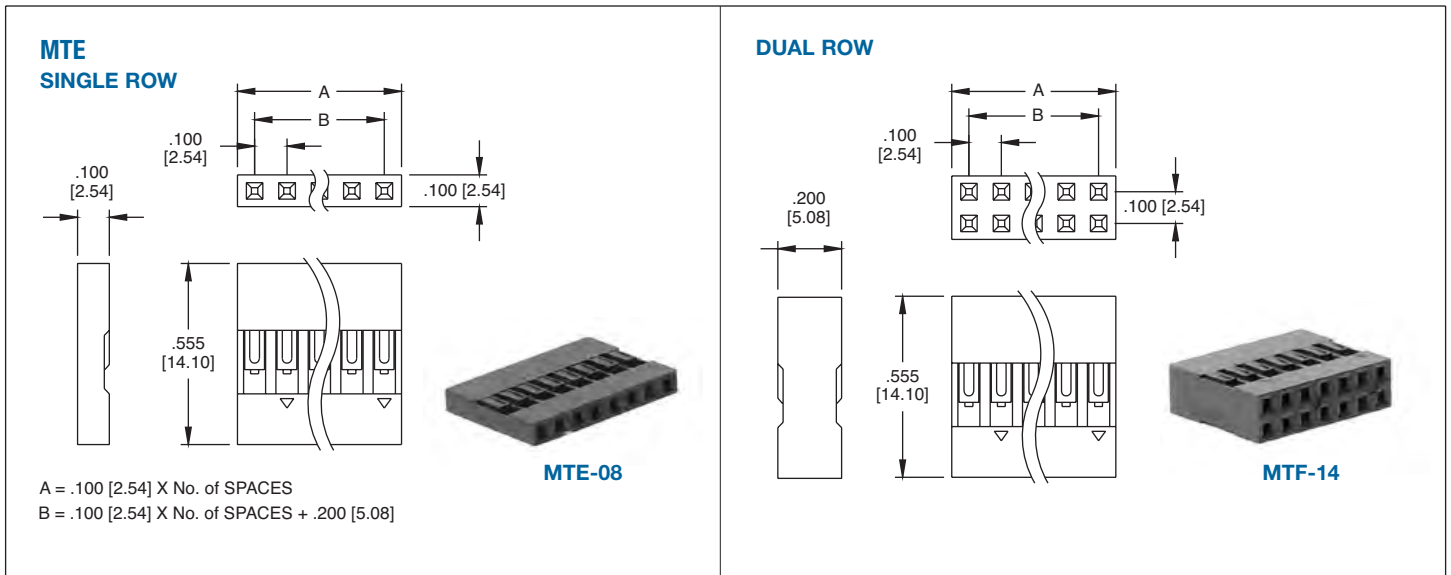
**PCB Layout**

**25SH-C-XX-TR**  
2.5mm RIGHT ANGLE HEADER

**25SH-C-04-TR**

Positions: 2 thru 15  
Replace (XX) with No. of positions  
A = .098 [2.50] x No. of Positions -1  
B = .098 [2.50] x No. of Positions + .198 [2.50]

**PCB Layout**



## ORDERING INFORMATION

### HOUSING

**MTE**

**SERIES INDICATOR**  
MTE = Single row housing  
MTF = Dual row housing

**10**

**POSITIONS**  
SINGLE ROW (MTE) 02-40 Positions  
DUAL ROW (MTF) 04-80 Positions

### CRIMP CONTACT

**MTE-C**

**SERIES INDICATOR**  
MTE-C = Crimp contact

**R**

**PACKAGING**  
R = 6,000 pieces on reel

### INTRODUCTION:

Adam Tech CDR & CDH series latching header & housing sets were designed to attach wires to a PCB. This series features a latching housing which mates to a polarized, locking header. This set provides a secure, easy to mate connection with superior electrical characteristics.

### FEATURES:

Secure, latching header & housing sets  
Precision .025" sq. posts  
Latching housing  
Polarized anti-vibration design  
Available in 2 - 12 positions

### MATING CONNECTORS:

All industry standard .100 centerline compatible latching headers and housings

### SPECIFICATIONS:

#### Material:

Insulator: Nylon 66, rated UL94V-0  
Insulator Color: Black (White optional)  
Contacts: Brass

#### Contact Plating:

Tin over copper underplate overall

#### Electrical:

Operating voltage: 250V AC max.  
Current rating: 3 Amps max.  
Insulation resistance: 1000 MΩ min.  
Dielectric withstanding voltage: 500V AC for 1 minute

#### Mechanical:

Recommended wire size: 22 to 28 Awg with .059" O.D. insulation max.  
Temperature Rating:  
Operating temperature: -25°C to +85°C

### PACKAGING:

Anti-ESD plastic bags

### SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



### HEADER ORDERING INFORMATION

CDR	04	TS
<b>SERIES INDICATOR</b> CDR = Latching Shrouded Header CDR2 = Dual Row Latching Shrouded Header	<b>POSITIONS</b> 02 thru 12 06 thru 24	<b>MOUNTING</b> TS = Straight PCB Mount TR = Right Angle PCB Mount

### HOUSING ORDERING INFORMATION


CDH	04
<b>SERIES INDICATOR</b> CDH = Latching Housing CDN = Non Latching Housing	<b>POSITIONS</b> 02 thru 12

### CONTACT ORDERING INFORMATION

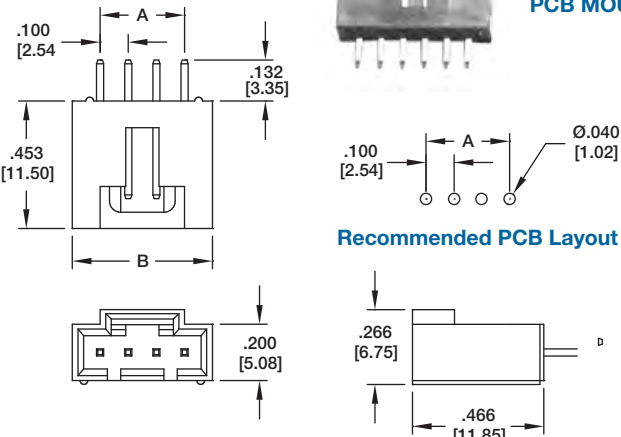
CDH-C	R
<b>SERIES INDICATOR</b> CDH-C = Crimp Contact	<b>PACKAGING</b> B = Loose in bag R = Chain on reel



**CDR-06-TS**




**CDR STRAIGHT PCB MOUNT**

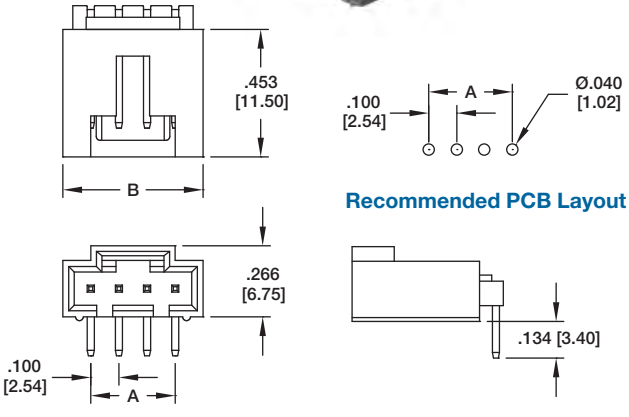


A = .100 [2.54] X No. of SPACES  
B = .100 [2.54] X No. of SPACES + .200 [5.08]


**CDR-06-TR**



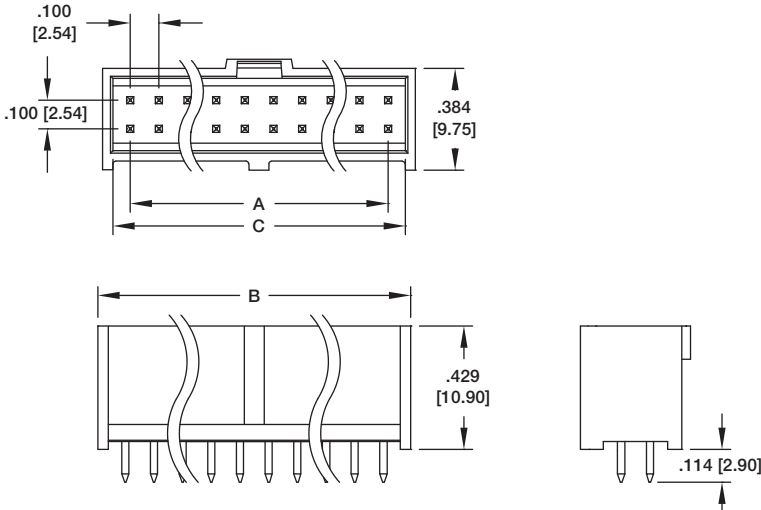
**CDR RIGHT ANGLE PCB MOUNT**



A = .100 [2.54] X No. of SPACES  
B = .100 [2.54] X No. of SPACES + .200 [5.08]




**CDR2 DUAL ROW PCB MOUNT**

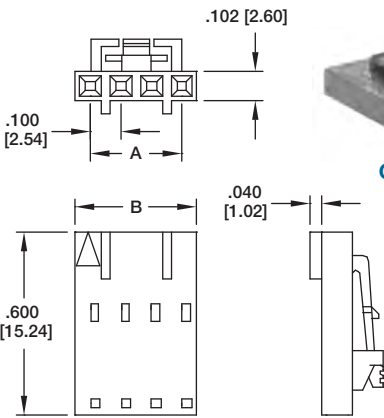


Positions: 6 thru 68  
A = .100 [2.54] x No. of Spaces per row  
B = .100 [2.54] x No. of Positions per row + .092 [2.34]  
C = .100 [2.54] x No. of Positions per row + .020 [0.50]

**CDH HOUSING**

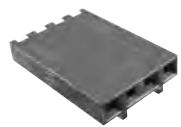


**CDH-04**

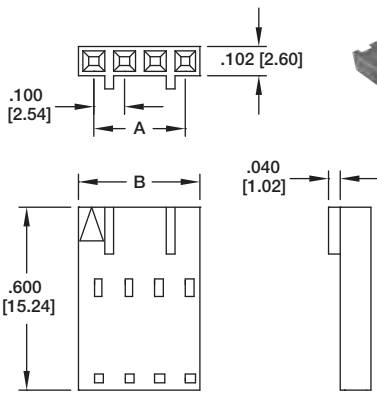


A = .100 [2.54] X No. of SPACES  
B = .100 [2.54] X No. of POSITIONS

**CDN HOUSING**

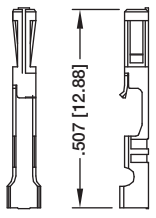
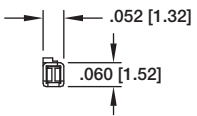


**CDN-04-NL**



A = .100 [2.54] X No. of SPACES  
B = .100 [2.54] X No. of POSITIONS

**CDH-C-R CONTACT**

Recommended wire size 24-28 awg.

### INTRODUCTION:

Adam Tech's Latching Header & Housing sets were designed to attach wires to a PCB. This series features a friction locking header which mates to a polarized wire housing with crimp contacts. This set provides a secure, easy to mate connection with superior electrical characteristics.

### FEATURES:

Precision .025" sq. posts  
Secure friction lock  
Polarized anti-vibration design  
Available in 2 - 20 positions

### MATING CONNECTORS:

All industry standard .100 centerline compatible latching headers and housings

### SPECIFICATIONS:

#### Material:

Insulator: Nylon 66, rated UL94V-2  
Insulator Color: White  
Contacts: Phosphor bronze and Brass

#### Contact Plating:

Tin over copper underplate overall

#### Electrical:

Operating voltage: 250V AC max.  
Current rating: 3 Amps max.  
Insulation resistance: 1000 MΩ min.  
Dielectric withstanding voltage: 500V AC for 1 minute

#### Mechanical:

Recommended wire size: 22 to 28 Awg with .059" O.D. insulation max.  
Temperature Rating:  
Operating temperature: -25°C to +85°C

#### PACKAGING:

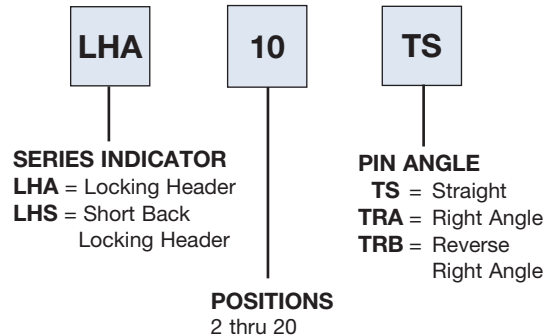
Anti-ESD plastic bags

#### SAFETY AGENCY APPROVALS:

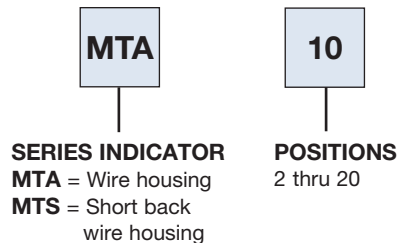
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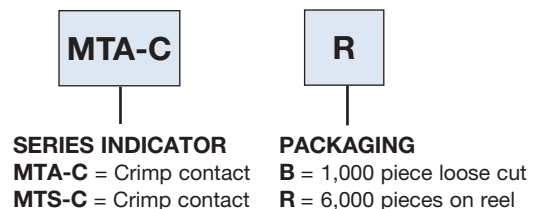
### ORDERING INFORMATION FRICTION LOCK HEADER



### HOUSING



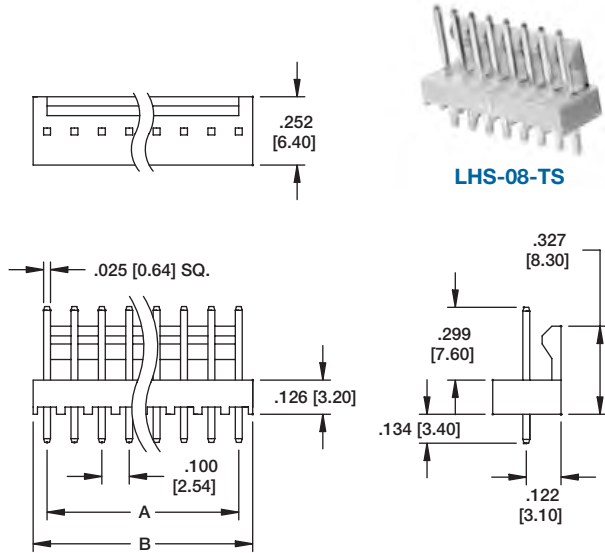
### CRIMP CONTACT





<p><b>LHA STRAIGHT</b></p> <p><b>LHA-08-TS</b></p>	<p><b>MTA HOUSING</b></p> <p><b>MTA-08</b></p>
<p><b>LHA RIGHT ANGLE</b></p> <p><b>LHA-08-TRA</b></p>	<p><b>MTA-C CONTACT</b></p>
<p><b>LHA REVERSE RIGHT ANGLE</b></p> <p><b>LHA-08-TRB</b></p>	<p><b>Recommended PCB Layout</b></p> <p>A = .100 [2.54] x No. of Spaces          B = .100 [2.54] X No. of Spaces + .100 [2.54]          C = .100 [2.54] X No. of Spaces + .122 [3.11]</p>

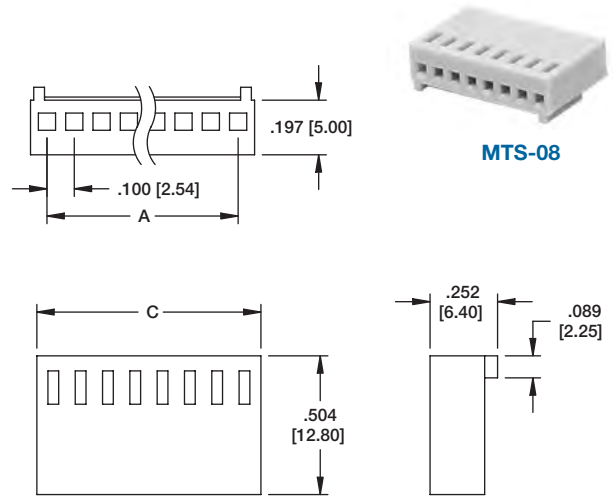
## LHS STRAIGHT PCB MOUNT



LHS-08-TS

A = .100 [2.54] x No. of Spaces  
B = .100 [2.54] X No. of Spaces + .104 [2.65]

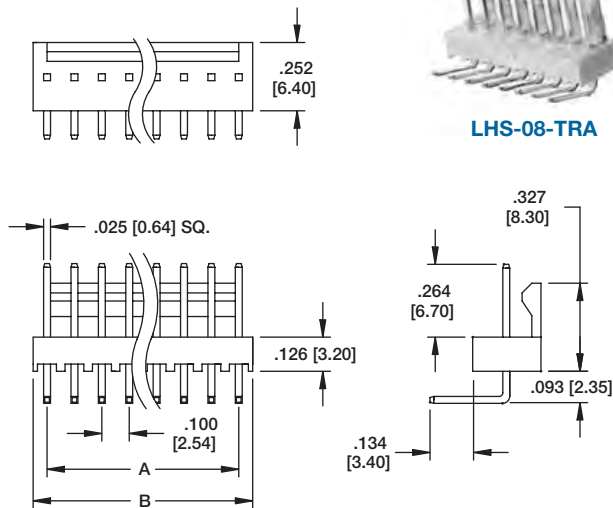
## MTS HOUSING



MTS-08

A = .100 [2.54] x No. of Spaces  
B = .100 [2.54] X No. of Spaces + .104 [2.65]

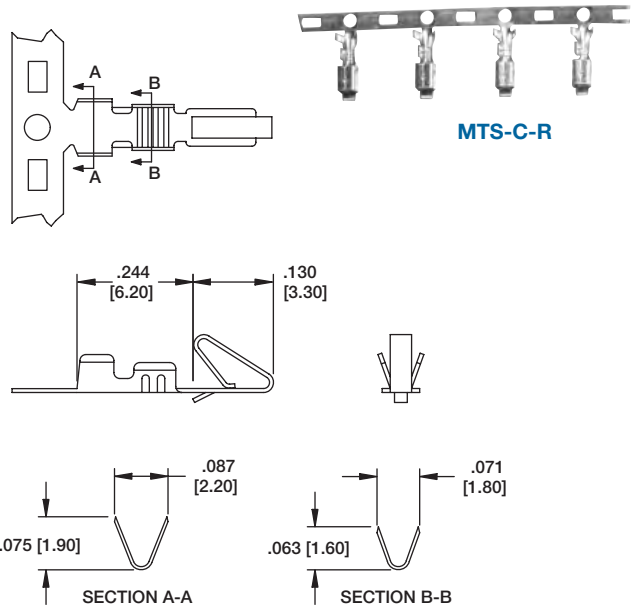
## LHS RIGHT ANGLE PCB MOUNT



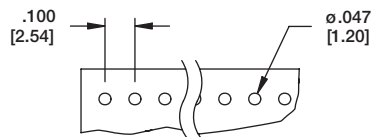
LHS-08-TRA

A = .100 [2.54] x No. of Spaces  
B = .100 [2.54] X No. of Spaces + .104 [2.65]

## MTS-C CRIMP CONTACTS



MTS-C-R



A = .100 [2.54] x No. of Spaces  
B = .100 [2.54] X No. of Spaces + .104 [2.65]

Recommended PCB Layout

### INTRODUCTION:

Adam Tech .156" Headers and Housings are two matched sets of Crimp Wire Housings and PCB mounted Latching Headers available in Straight and Right Angle orientation. This system is available with a front locking header, a rear locking header or without a locking feature. Each of the locking types are polarized to fit in only one direction with the housing. This system provides a sturdy, high current, high reliability connection with or without the polarized locking option.

### FEATURES:

Matched Latching Housing & Header system  
Straight, Right Angle mounting Headers  
Choice of Two Latching Types  
Housings feature High pressure, Low insertion force contacts

### MATING CONNECTORS:

Adam Tech MTB series and all industry standard latching type  
.156 [3.96mm] centers

### SPECIFICATIONS:

#### Material:

Insulator: Nylon 66, rated UL94V-2  
Insulator Color: Natural  
Contacts: Phosphor bronze and Brass  
Contact Plating:  
Tin over copper underplate overall

#### Electrical:

Operation voltage: 250V AC max.  
Current rating: 5 Amp max.  
Insulation resistance: 1000 MΩ min.  
Dielectric withstanding voltage: 1000V AC for 1 minute

#### Mechanical:

Recommended wire size: 18 to 24 Awg

#### Environmental:

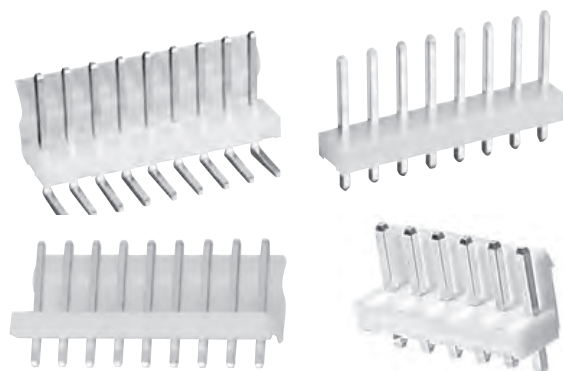
Operating temperature: -25°C to +85°C

#### PACKAGING:

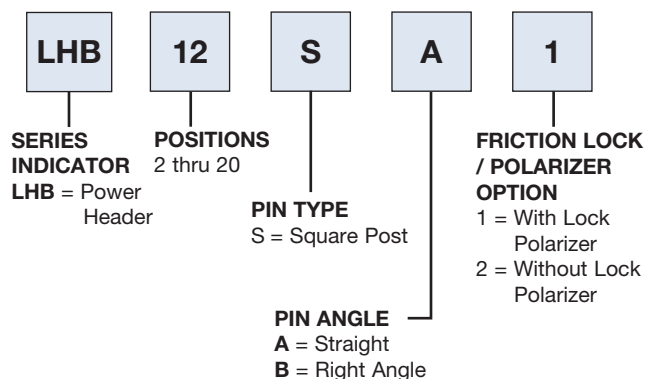
Anti-static plastic bags

#### APPROVALS AND CERTIFICATIONS:

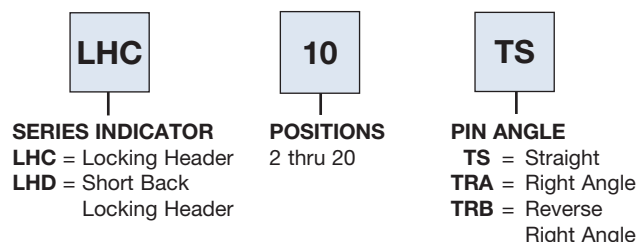
UL Recognized File no. E224053



### POWER HEADER



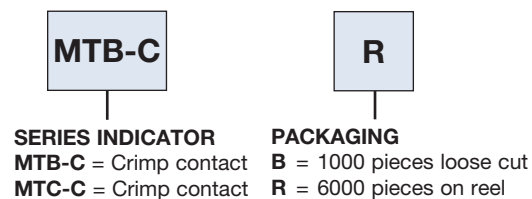
### POWER HEADER



### HOUSING

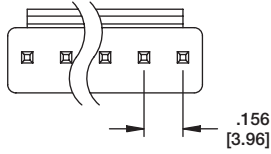


### CRIMP CONTACT

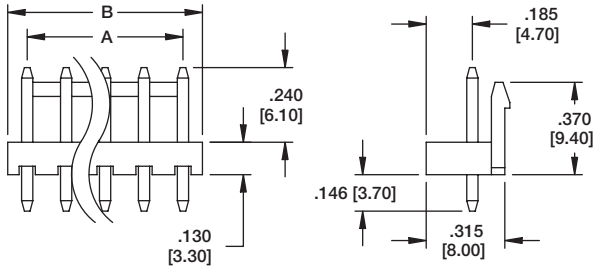


<p style="text-align: right;"><b>LHB</b> <b>STRAIGHT WITHOUT BACK</b></p> <p style="text-align: center;"><b>LHB-08-SA2</b></p>	<p style="text-align: right;"><b>LHB</b> <b>RIGHT ANGLE WITHOUT BACK</b></p> <p style="text-align: center;"><b>LHB-08-SB2</b></p>	
<p style="text-align: right;"><b>LHB</b> <b>STRAIGHT WITH BACK</b></p> <p style="text-align: center;"><b>LHB-09-SA1</b></p>	<p style="text-align: right;"><b>LHB</b> <b>RIGHT ANGLE WITH BACK</b></p> <p style="text-align: center;"><b>LHB-09-SB1</b></p>	
<p style="text-align: right;"><b>MTB</b> <b>CRIMP HOUSING</b></p> <p style="text-align: center;"><b>MTB-04</b></p>	<p style="text-align: right;"><b>MTB</b> <b>CRIMP CONTACT</b></p>	
<p>A = .156 [3.96] x No. of Spaces B = .156 [3.96] X No. of Positions</p>		<p style="text-align: center;"><b>Recommended PCB Layout</b></p>

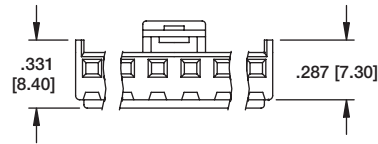
### LHC STRAIGHT WITH REAR LOCK



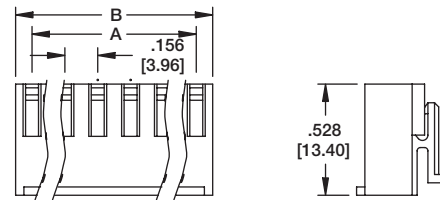
LHC-06-TS



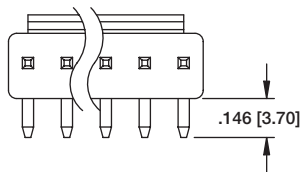
### MTC HOUSING



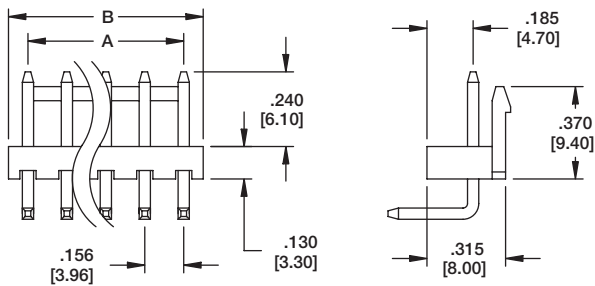
MTC-06



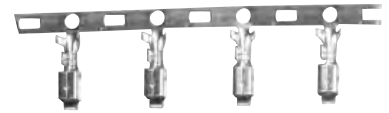
### LHC RIGHT ANGLE WITH REAR LOCK



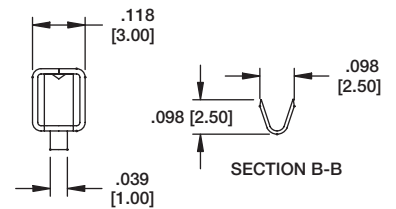
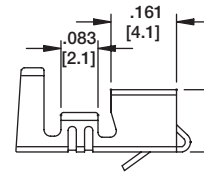
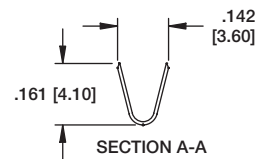
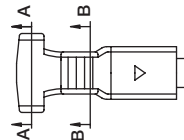
LHC-06-TRA



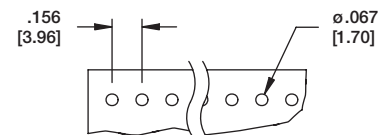
### MTC-C CRIMP CONTACTS



MTC-C-R



A = .156 [3.96] x No. of Spaces  
B = .156 [3.96] X No. of Spaces + .156 [3.96]



Recommended PCB Layout

<p><b>LHD STRAIGHT PBC MOUNT</b></p> <p>A = .156 [3.96] x No. of Positions B = .156 [3.96] x No. of Spaces</p> <p><b>LHD-06-TS</b></p>	<p><b>MTB HOUSING</b></p> <p>A = .156 [3.96] x No. of Positions B = .156 [3.96] x No. of Spaces</p> <p><b>MTB-08</b></p>
<p><b>LHD RIGHT ANGLE PCB MOUNT</b></p> <p>A = .156 [3.96] x No. of Positions B = .156 [3.96] x No. of Spaces</p> <p><b>LHD-06-TRA</b></p>	<p><b>LHD REVERSE RIGHT ANGLE PCB MOUNT</b></p> <p>A = .156 [3.96] x No. of Positions B = .156 [3.96] x No. of Spaces</p> <p><b>LHD-06-TRB</b></p>
<p><b>MTC-C CRIMP CONTACT</b></p> <p><b>MTC-C-R</b></p> <p><b>Recommended PCB Layout</b></p>	

#### INTRODUCTION:

Adam Tech's Mini-Flex series of connectors include cable to board, wire to board and board to board choices. This series is designed with a dual contact point mating system and an array of locating posts and PCB pegs for positive alignment and friction lock mating. Rigid, staggered solder tails provide excellent stability for rugged use and feature kinked tails for PCB retention.

#### FEATURES:

Fine .050" Pitch for Hi-Density connection  
 Flat heavy gauge contact blades for positive connectivity  
 Equipped with Polarizing posts and locating pegs  
 Positive Friction Locking mating  
 Kinked solder tails for PCB retention

#### SPECIFICATIONS:

Material:  
 Insulator: Polyester, glass filled, rated UL94V-0  
 Insulator Color: Red  
 Contacts: Phosphor Bronze or Brass

#### PLATING:

Tin over Copper underplate overall

#### ELECTRICAL:

Operating Voltage: 250V AC  
 Current Rating: 1.2 Amps Max.  
 Contact Resistance: 10 mΩ Max.  
 Insulation Resistance: 1000 MΩ Min.  
 Dielectric Withstanding Voltage: 750V AC for 1 Minute

#### TEMPERATURE RATING:

Operation Temperature: -25°C ~ +105°C

#### PACKAGING:

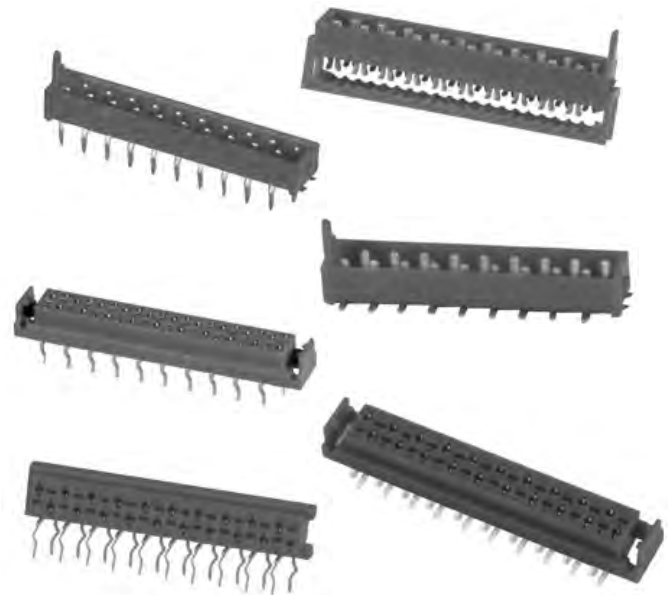
Anti ESD plastic trays or Tubes

#### SAFETY AGENCY APPROVALS:

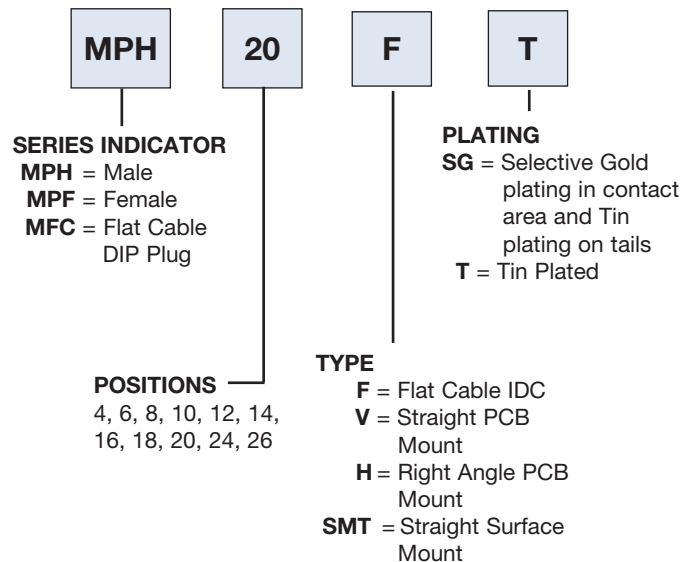
UL Recognized

#### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



### ORDERING INFORMATION



#### OPTIONS

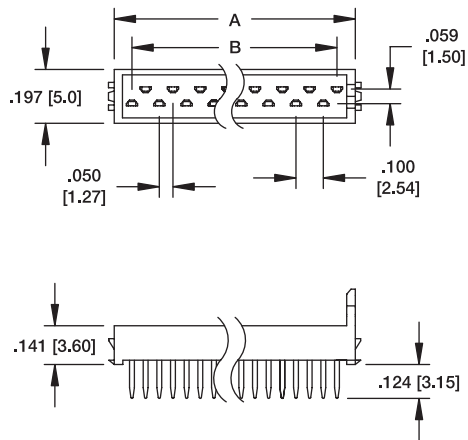
15 = 15u" Gold on contact area  
 30 = 30u" Gold on contact area  
 L = Locking Flange



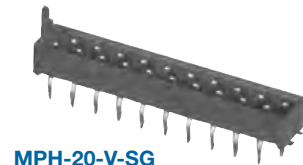
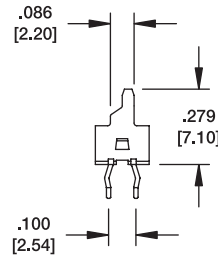


## MPH

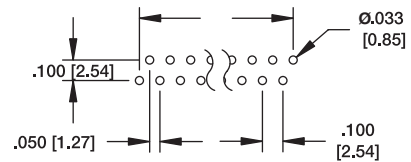
### PCB MALE HEADER



A =  $.050 [1.27] \times \text{\# of positions} + .120 [3.05]$   
 B =  $.050 [1.27] \times \text{\# of spaces}$



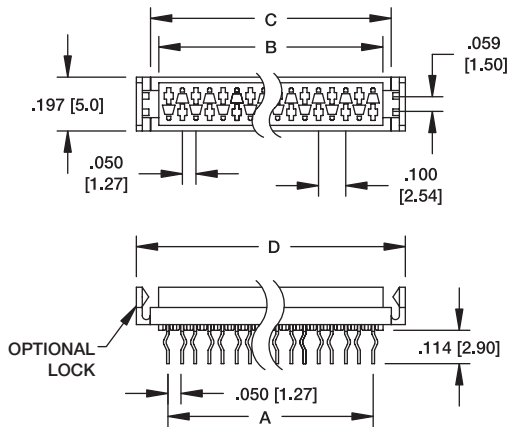
MPH-20-V-SG



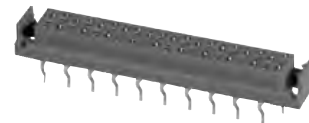
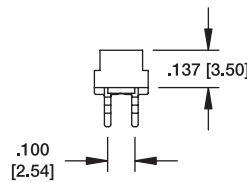
Recommended PCB Layout

## MPF

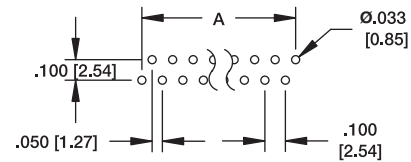
### PCB FEMALE HEADER



A =  $.050 [1.27] \times \text{\# of spaces}$   
 B =  $.050 [1.27] \times \text{\# of positions} + .020 [0.52]$   
 C =  $.050 [1.27] \times \text{\# of positions} + .078 [2.00]$   
 D =  $.050 [1.27] \times \text{\# of positions} + .181 [4.60]$



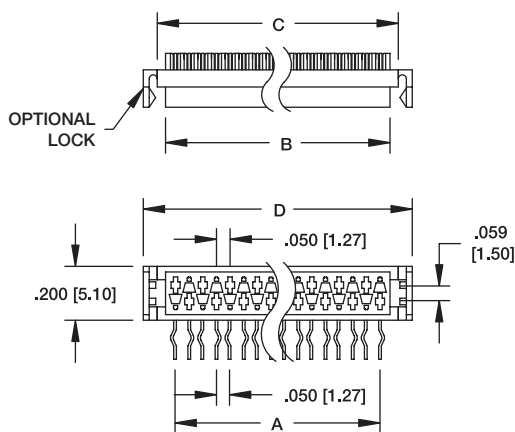
MPF-20-V-SG-L



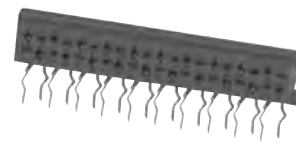
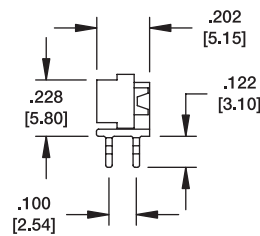
Recommended PCB Layout

## MPF

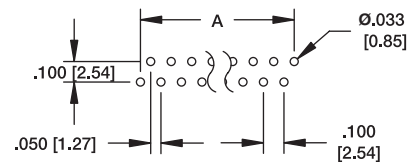
### PCB FEMALE HEADER RIGHT ANGLE



A =  $.050 [1.27] \times \text{\# of spaces}$   
 B =  $.050 [1.27] \times \text{\# of positions} + .020 [0.52]$   
 C =  $.050 [1.27] \times \text{\# of positions} + .078 [2.00]$   
 D =  $.050 [1.27] \times \text{\# of positions} + .181 [4.60]$

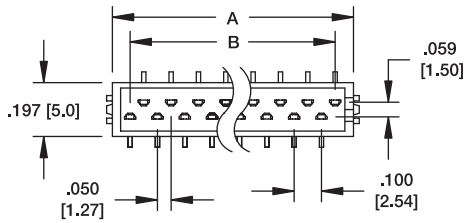


MPF-20-H-SG

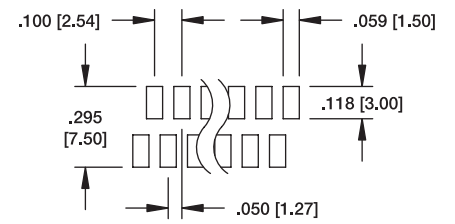
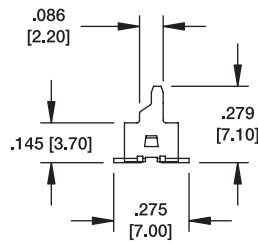
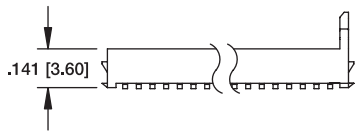


Recommended PCB Layout

#### MPH PCB MALE HEADER SMT



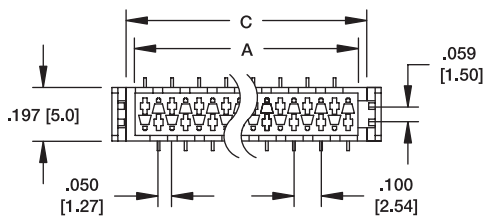
MPH-20-SMT-SG



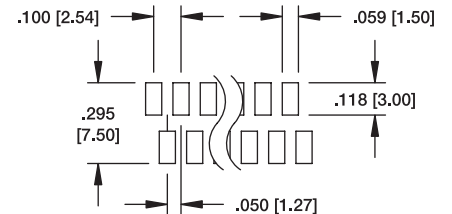
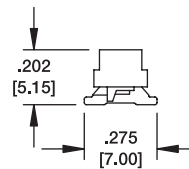
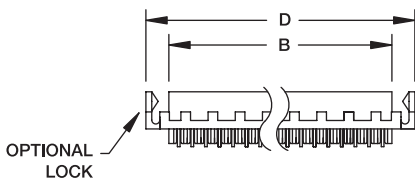
Recommended PCB Layout

A =  $.050 [1.27] \times \text{\# of positions} + .120 [3.05]$   
 B =  $.050 [1.27] \times \text{\# of spaces}$

#### MPF PCB FEMALE HEADER SMT



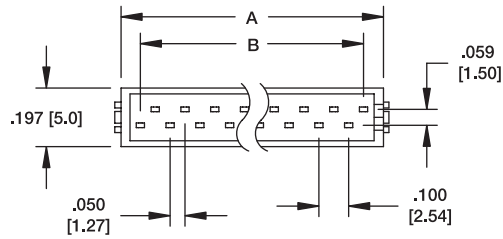
MPF-20-SMT-SG



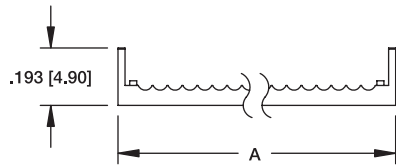
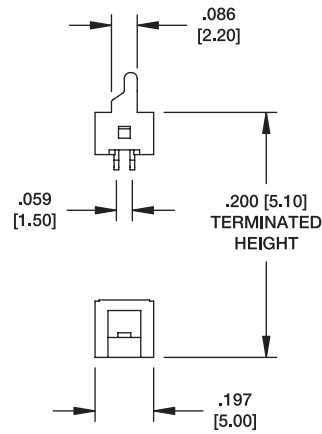
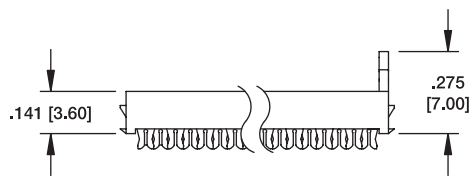
Recommended PCB Layout

A =  $.050 [1.27] \times \text{\# of spaces}$   
 B =  $.050 [1.27] \times \text{\# of positions} + .020 [0.52]$   
 C =  $.050 [1.27] \times \text{\# of positions} + .078 [2.00]$   
 D =  $.050 [1.27] \times \text{\# of positions} + .181 [4.60]$

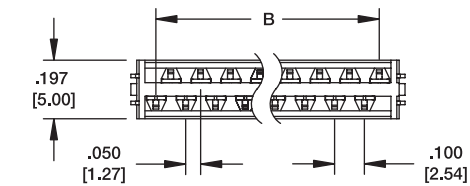
### MPH IDC MALE PLUG



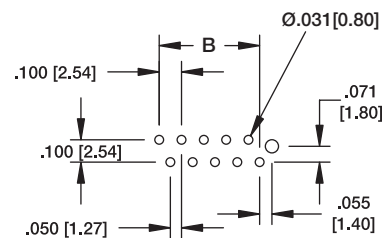
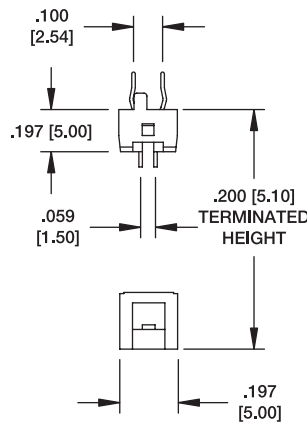
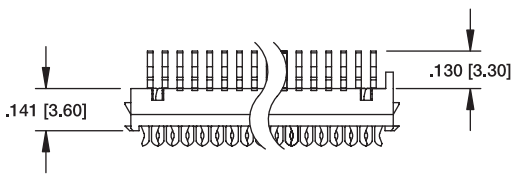
MPH-20-F-SG



### MFC FLAT CABLE TO PCB PLUG



MFC-20-F-SG



Recommended PCB Layout

A = .050 [1.27] X # of positions + .120 [3.05]  
 B = .050 [1.27] X # of spaces

## INTRODUCTION:

Adam Tech's Memory Connector series is a complete range of memory sockets for most memory card applications including Compact Flash, PCMCIA, Memory Stick and Secure Digital. Our advanced designs are focused on their ease of use, mating accuracy, card retention and cycle life. Precision engineered, extremely durable mating contacts and PCB leads contribute to a solid, high reliability, long life design.

## FEATURES:

Multitude of sockets to satisfy most applications  
Precision, compact designs  
Fine pitched, heavy duty contacts  
Sockets conform to CFA, JEIDA, PCMCIA & JEDEC

## MATING OPTIONS:

All industry standard memory cards

## SPECIFICATIONS:

### Material:

Insulator: PA9 or LCP, glass reinforced, rated UL94V-0  
Contacts: Phosphor Bronze  
Frame / shield: Brass, nickel plated

### Contact Plating:

Gold over nickel underplate on contact area, tin over copper underplate on tails.

### Electrical:

Operation voltage: 250V AC max.  
Current rating: 0.5 and 1 Amps max.  
Contact resistance: 40 mΩ max. initial  
Insulation resistance: 1000 MΩ min.  
Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:

Mating durability: 10,000 cycles min.

### Temperature Rating:

Operating temperature: -20°C to +85°C

### PACKAGING:

Anti-ESD plastic trays

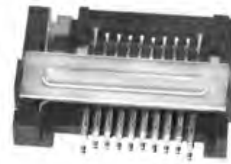
### SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053

## MEMORY SOCKETS

MEMORY STICK, SMART MEDIA,  
SECURE DIGITAL, SIM CARD,  
SMART CARD SOCKET, PCMCIA &  
COMPACT FLASH SOCKETS  
CF, MS AND SD SERIES

Memory Stick



Micro Secure Digital  
(Push-Push Type)



Mini Secure Digital



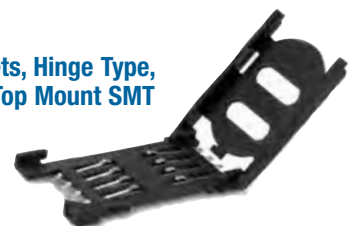
Compact Flash



Compact Flash



SIM Card Sockets, Hinge Type,  
Push-Push, Top Mount SMT



## MEMORY SOCKETS

### MINI, MICRO & STANDARD SECURE DIGITAL COMPACT FLASH SOCKETS CF, MS AND SD SERIES


#### MINI & MICRO SECURE DIGITAL SOCKETS



**MINI SECURE DIGITAL  
PUSH-PULL TYPE  
TOP MOUNT SMT**

Mini Flash Memory Card connectors for portable devices and tight space applications


**MSD SERIES**



**MINI SECURE DIGITAL  
PUSH-PUSH TYPE  
TOP MOUNT SMT**

Mini Flash Memory Card connectors for portable devices such as digital cameras and handheld computers

**MSDPR SERIES**



**MICRO SECURE DIGITAL  
HINGE & PUSH-PUSH OR PUSH-PULL TYPES  
TOP MOUNT SMT**

Micro Flash Memory Card connectors  
Extremely compact & Ultra miniature  
Push-push and hinge types with smooth and slow extraction

**MCSP SERIES**

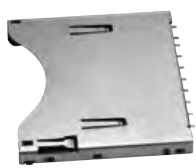
#### SECURE DIGITAL



**SECURE DIGITAL  
PUSH-PUSH TYPE  
TOP MOUNT SMT**

Flash Memory Card connector  
Available Shielded and with normal or reverse normal mount and/or locating pegs


**SDP SERIES**



**SECURE DIGITAL,  
PUSH-PULL TYPE,  
TOP MOUNT SMT**

Flash Memory Card connector  
Available Shielded and with normal or reverse normal mount and/or locating pegs

**SD SERIES**



**SECURE DIGITAL  
PUSH-PULL TYPE  
TOP MOUNT SMT**

Flash Memory Card connector  
Unshielded, reverse normal mount with/without locating pegs


**SD SERIES**

#### COMPACT FLASH SOCKETS

##### 50 PIN SLIM TYPE

**COMPACT FLASH  
TYPE II, SHORT SLIDE  
TOP MOUNT SMT**


Type II card connectors in broad range of styles with multiple profiles and slide options



**CF SERIES**



**COMPACT FLASH  
SLIM TYPE I/II  
TOP MOUNT SMT**

Type I & II card connector in broad range of styles with multiple profiles and slide options




**CF SERIES**

### COMPACT FLASH SOCKETS

 <p><b>COMPACT FLASH TYPE I SHORT SLIDE TOP MOUNT SMT 50 PIN</b></p> <p>Type I card connector in broad range of styles with multiple profiles and slide options</p> <p><b>CF SERIES</b></p>	 <p><b>COMPACT FLASH TYPE I EJECTOR</b></p> <p>CF card ejector for headers with short guides, standard Compact Flash Type I applications</p> <p><b>CF SERIES</b></p>
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### COMPACT FLASH SOCKETS STRADDLE MOUNT & SURFACE MOUNT



**COMPACT FLASH FEMALE SOCKET  
STRADDLE MOUNT 50 PIN**

CF straddle mount connector for 50 pin CF cards to PC card adapters, meets CFA standards

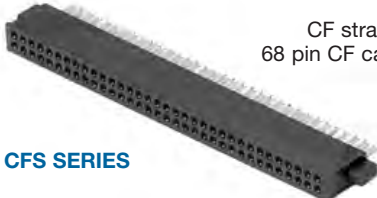
**CFS SERIES**



**COMPACT FLASH FEMALE SOCKET  
SURFACE MOUNT 50 PIN**

CF SMT connector for 50 pin CF card adapters, meets CFA standards

**CFS SERIES**




**COMPACT FLASH FEMALE SOCKET,  
STRADDLE MOUNT 68 PIN**

CF straddle mount connector for 68 pin CF cards to PC card adapters, meets CFA standards

**CFS SERIES**


### MEMORY STICK & SIM CARD SOCKET



**MICRO MEMORY STICK  
PUSH-PUSH OR PUSH-PULL  
TOP MOUNT SMT**

Wide range of connectors for Small Form Factor storage in media applications

**MMSP SERIES**



**MEMORY STICK  
TOP MOUNT SMT**

Smart Card connector for PCB host applications, mini & micro types available

**MS SERIES**



**SIM CARD SOCKETS  
HINGE TYPE  
PUSH-PUSH  
TOP MOUNT SMT**

Smart Card connectors for PCB host applications, mini & micro types available

**SCC SERIES**

### INTRODUCTION:

Adam Tech 0.8mm and 1.00mm Pin Header and Female Header series is a fine pitch, low profile, dual row, PCB mounted connector set intended for limited space applications or where total weight is a factor. Our specially tooled insulators and contacts maintain consistent high quality through our automated production processes. Each series is available in thru-hole PCB or SMT mounting and plated tin, gold or selective gold as specified.

### FEATURES:

0.8mm and 1.0mm versions  
Pin Header and Female Header set  
Lightweight and Compact  
Hi Temp Insulators

### MATING OPTIONS:

Mates with all industry standard 0.8mm & 1.0mm pitch headers and female headers

### SPECIFICATIONS:

#### Material:

Standard Hi-Temp insulator: Nylon 6T, rated UL94V-0  
Insulator Color: Black  
Contacts: Phosphor Bronze

#### Plating:

U = Gold over nickel underplate  
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.  
T = Tin over copper underplate overall.

#### Electrical:

Operating voltage: 250V AC max.  
Current rating: 1 Amp max  
Contact resistance: 20 mΩ max. initial  
Insulation resistance: 5000 MΩ min.  
Dielectric withstanding voltage: 1000V AC for 1 minute

#### Mechanical:

Mating durability: 500 cycles min.

#### Temperature Ratings:

Operating temperature: -40°C to +105°C  
Max process temp: 230°C for 30 ~ 60 seconds  
(260°C for 10 seconds)  
Soldering process temperature: 260°C

#### PACKAGING:

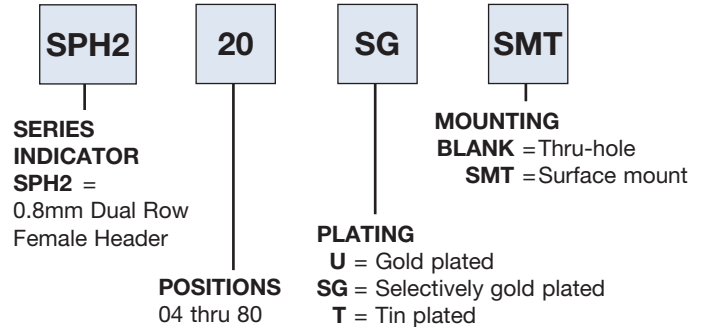
Anti-ESD plastic bags or tubes

#### APPROVALS AND CERTIFICATIONS:

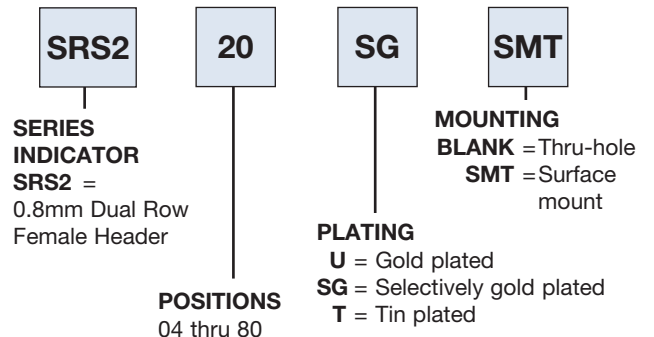
UL Recognized File no. E224053



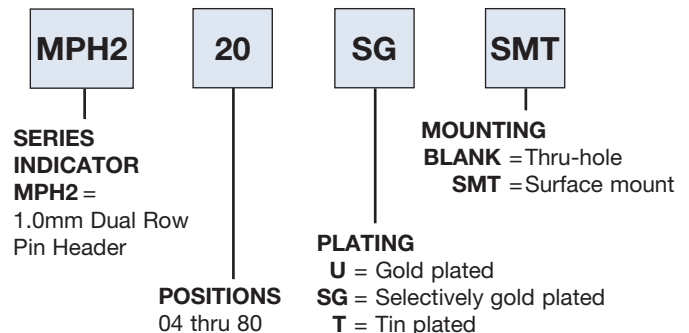
### 0.8mm MALE ORDERING INFORMATION



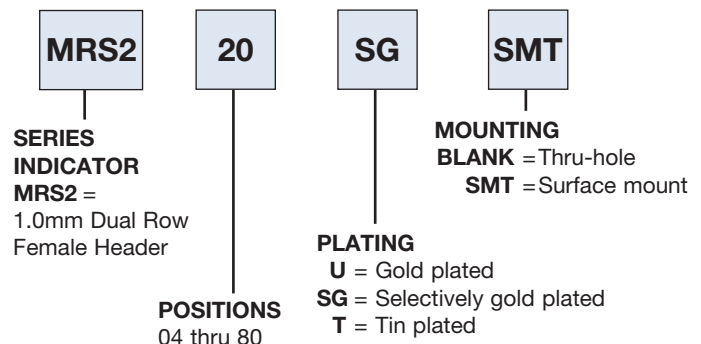
### 0.8mm FEMALE ORDERING INFORMATION



### 1.0mm MALE ORDERING INFORMATION



### 1.0mm FEMALE ORDERING INFORMATION



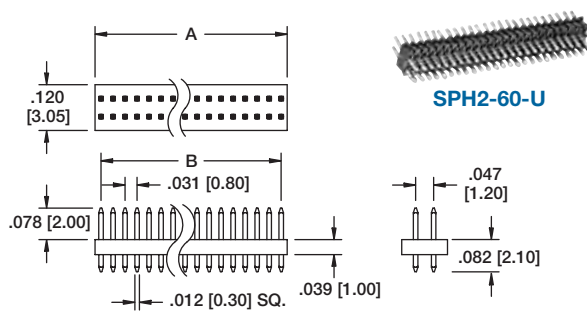
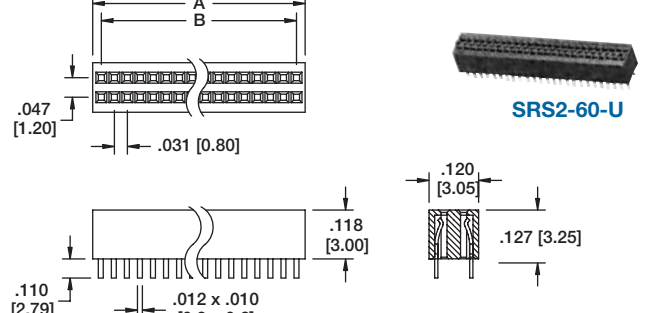
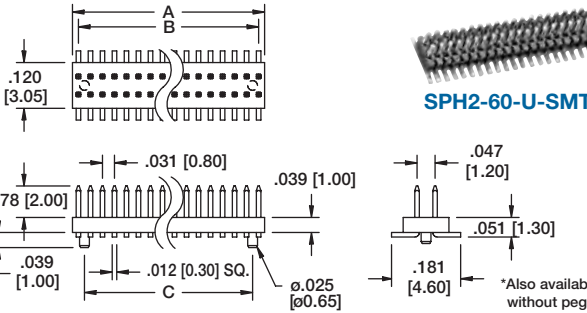
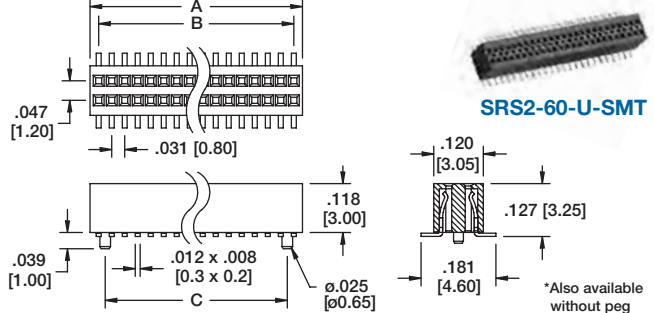


## 0.8mm SUB-MICRO HEADERS 1.00mm MICRO HEADERS

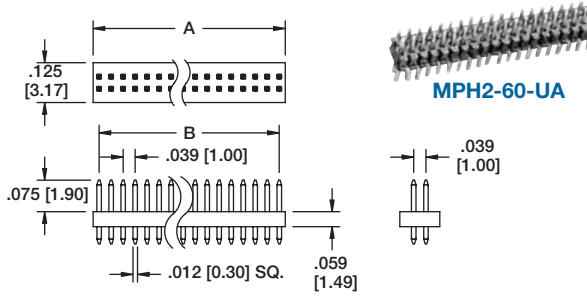
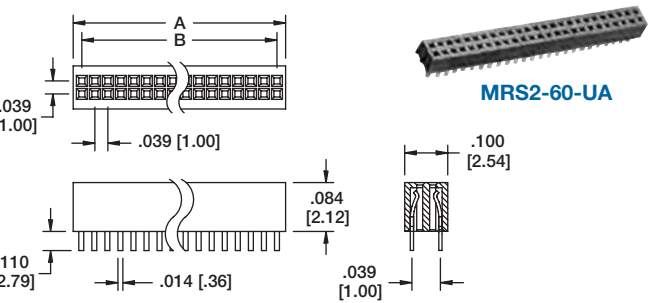
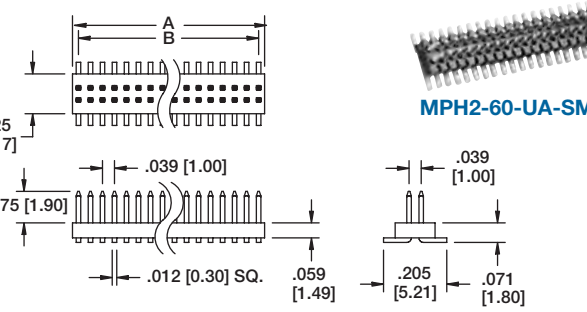
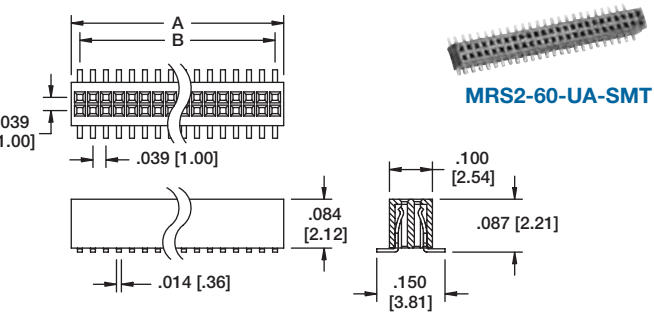
.031" [0.8] & .039" [1.00] CENTERLINE

MPH & SPH / MRS & SRS

### 0.8mm SUB-MICRO HEADERS

 <p><b>SPH2-60-U</b></p> <p><b>0.8mm Male Header SPH2 Series</b></p> <p>A = .031 [.80] X No of Positions Per Row B = .031 [.80] X No of Spaces Per Row</p>	 <p><b>SRS2-60-U</b></p> <p><b>0.8mm Female Header SRS2 Series</b></p> <p>A = .031 [.80] X No of Positions Per Row B = .031 [.80] X No of Spaces Per Row</p>
 <p><b>SPH2-60-U-SMT</b></p> <p><b>0.8mm SMT Male Header SPH2 SMT Series</b></p> <p>A = .031 [.80] X No of Positions Per Row B = .031 [.80] X No of Spaces Per Row C = .031 [.80] X No of Spaces - 1</p> <p>*Also available without peg</p>	 <p><b>SRS2-60-U-SMT</b></p> <p><b>0.8mm SMT Female Header SRS2 SMT Series</b></p> <p>A = .031 [.80] X No of Positions Per Row B = .031 [.80] X No of Spaces Per Row C = .031 [.80] X No of Spaces - 1</p> <p>*Also available without peg</p>

### 1.0mm MICRO HEADERS

 <p><b>MPH2-60-UA</b></p> <p><b>1.0mm Male Header MPH2 Series</b></p> <p>A = .039 [1.00] X No of Positions Per Row B = .039 [1.00] X No of Spaces Per Row</p>	 <p><b>MRS2-60-UA</b></p> <p><b>1.0mm Female Header MRS2 Series</b></p> <p>A = .039 [1.00] X No of Positions Per Row B = .039 [1.00] X No of Spaces Per Row</p>
 <p><b>MPH2-60-UA-SMT</b></p> <p><b>1.0mm SMT Male Header MPH2-SMT Series</b></p> <p>A = .039 [1.00] X No of Positions Per Row B = .039 [1.00] X No of Spaces Per Row</p>	 <p><b>MRS2-60-UA-SMT</b></p> <p><b>1.0mm SMT Female Header MRS2-SMT Series</b></p> <p>A = .039 [1.00] X No of Positions Per Row B = .039 [1.00] X No of Spaces Per Row</p>

#### INTRODUCTION:

Adam Tech .050" HPH Series Pin Headers are fine pitched, low profile, PCB mounted pin headers intended for limited space applications or where overall size is a factor. Our specially tooled insulators and contacts offer consistent high quality through automated production processes. This series offers an extensive range of single, dual and stacked versions. Each is available in thru-hole PCB or SMT mounting with choice of tin, gold or selective gold plating.

#### FEATURES:

- Single and Dual Row
- Stacked, Thru-Hole and SMT mounting
- Pin Header and Female Header sets
- Lightweight and Compact
- Hi Temp Insulator available
- Choice of plating

#### MATING OPTIONS:

Mates with all industry standard .050" [1.27mm] pitch female headers designed for use with 0.4mm Sq. pins and Low profile receptacle

#### SPECIFICATIONS:

##### Material:

Standard Hi-Temp insulator: Nylon 6T or Nylon 46, rated UL94V-0  
Insulator Color: Black  
Contacts: Brass or Phosphor Bronze

##### Plating:

- U = Gold over nickel underplate overall
- SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
- T = Tin over copper underplate overall

##### Electrical:

Operating voltage: 250V AC max.  
Current rating: 1 Amp max  
Contact resistance: 20 mΩ max. Initial  
Insulation resistance: 5000 MΩ min.  
Dielectric withstanding voltage: 1000V AC for 1 minute

##### Mechanical:

Mating durability: 500 Cycles min.

##### Temperature Rating:

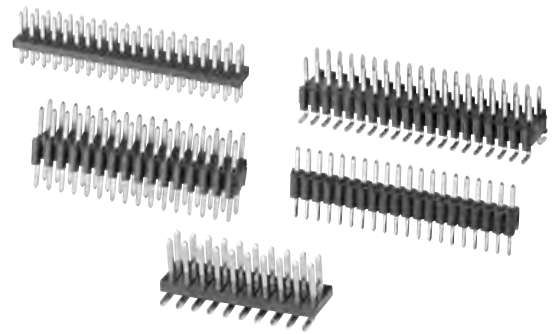
Operating temperature: -40°C to +105°C  
Soldering process temperature: 260°C

##### PACKAGING:

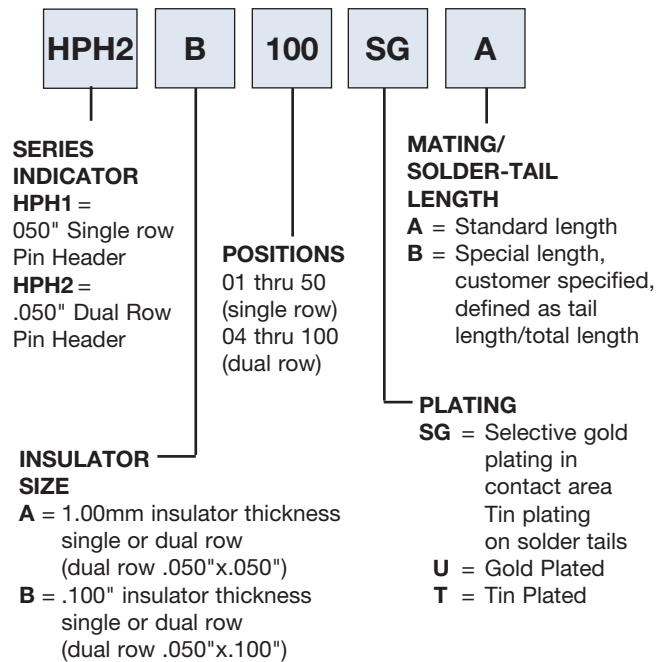
Anti-ESD plastic bags

##### APPROVALS AND CERTIFICATIONS:

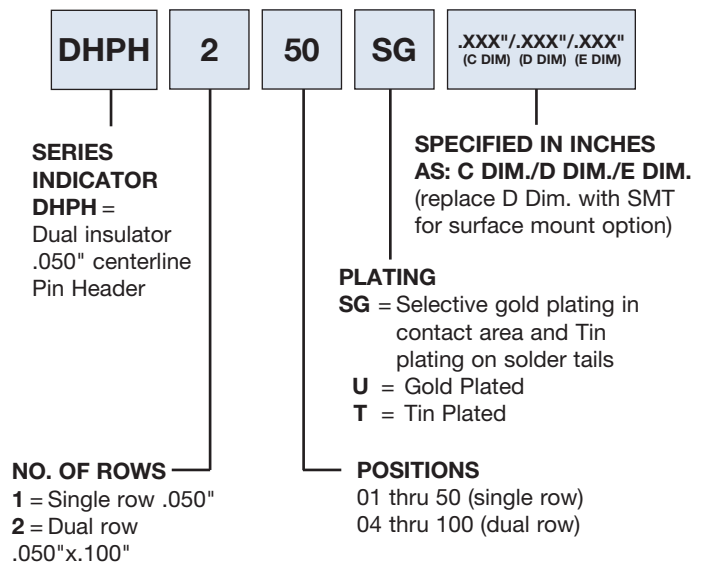
UL Recognized File no. E224053



#### ORDERING INFORMATION



#### ORDERING INFORMATION



#### OPTIONS:

Add designator(s) to end of part number

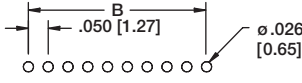
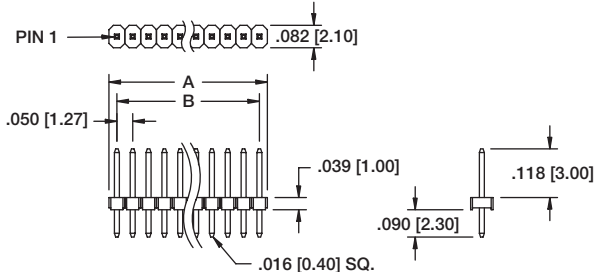

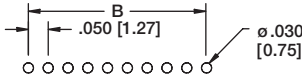
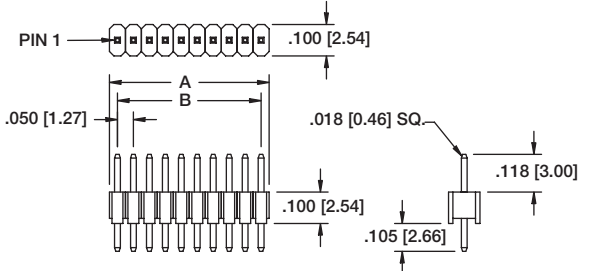
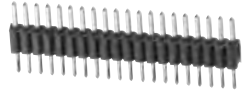
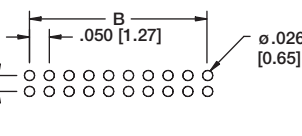
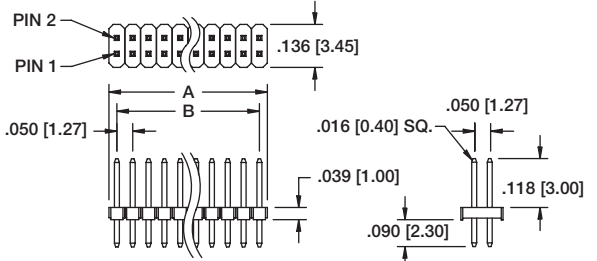
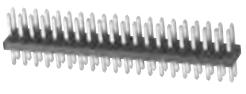
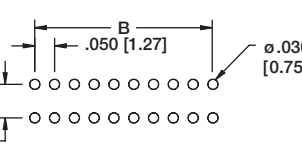
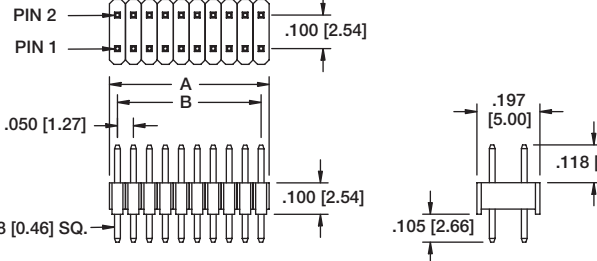

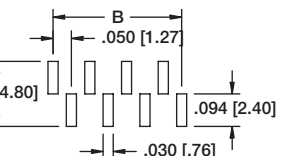
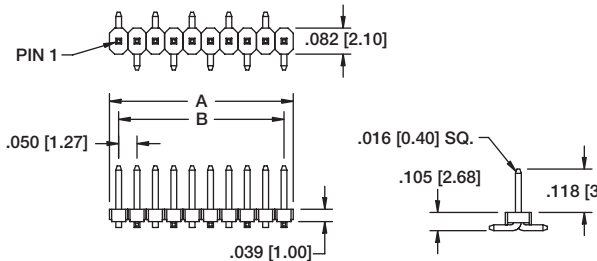

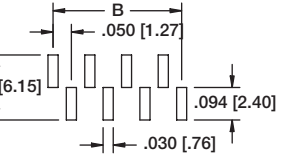
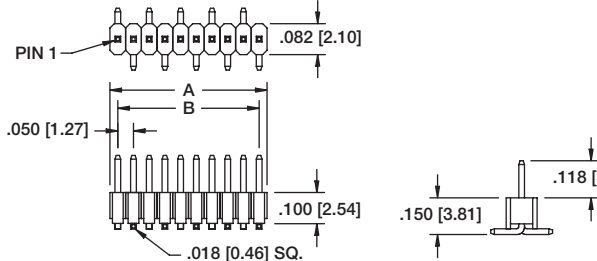

**HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C  
(Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)

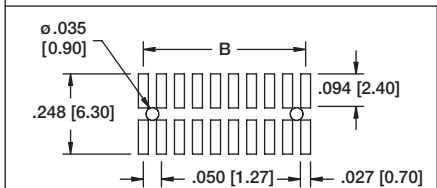
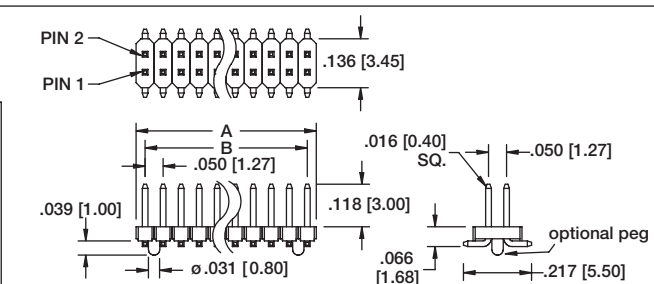
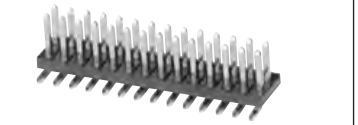
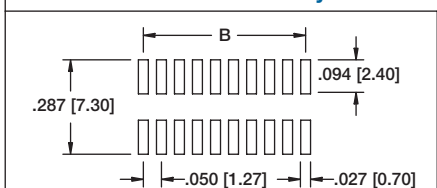
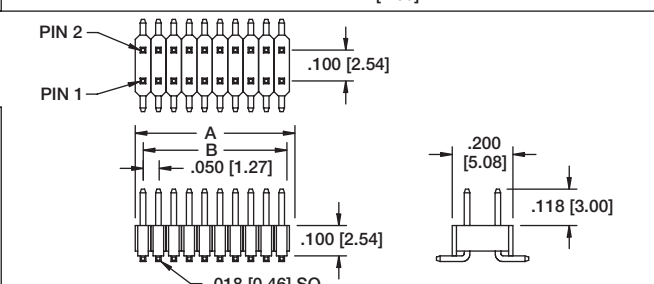
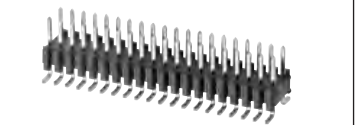
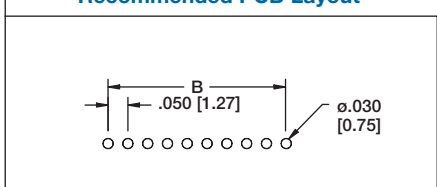
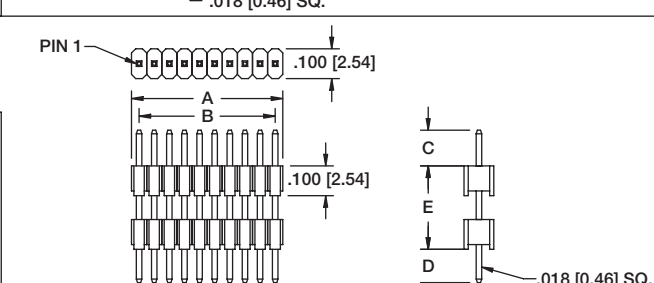
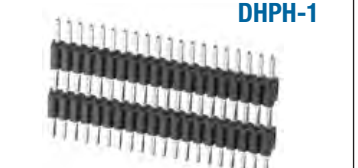
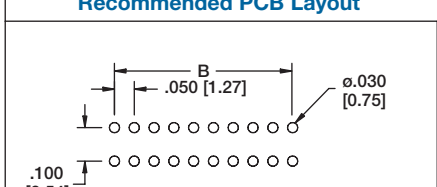
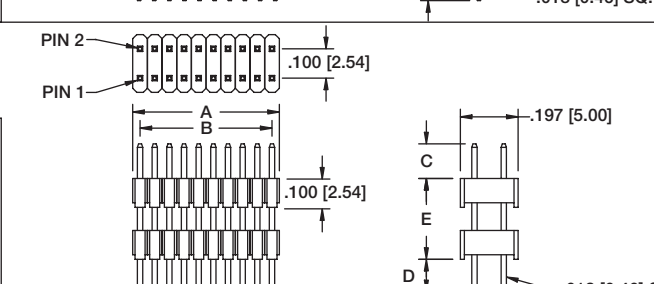

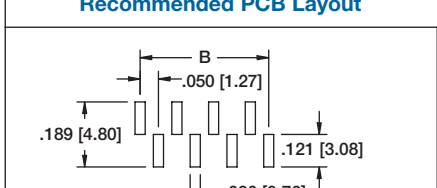
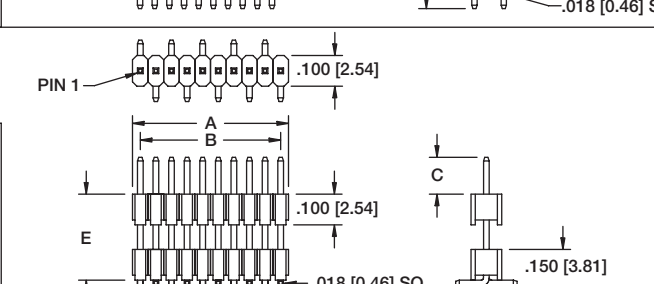

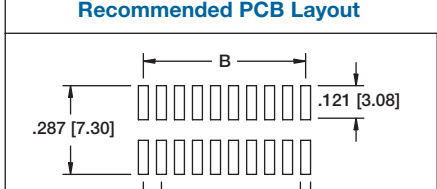
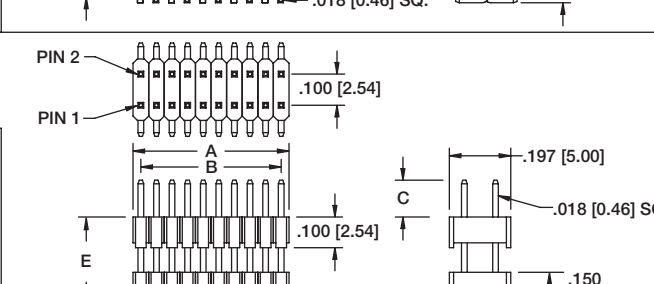

**SMT** = Dual Row Surface Mount leads with Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

**SMT-A** = Single Row Surface Mount Leads Type A

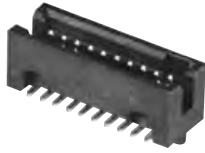
**SMT-B** = Single Row Surface Mount Leads Type B

**P** = Optional locating peg

<p>A = .050 [1.27] X No. of Positions B = .050 [1.27] X No. of Spaces</p> <p><b>Recommended PCB Layout</b></p> 		<p><b>HPH1-A</b> SINGLE ROW STRAIGHT WITH 1.00mm INSULATOR</p>  <p><b>HPH1-A-20-UA</b></p>
<p>A = .050 [1.27] X No. of Positions B = .050 [1.27] X No. of Spaces</p> <p><b>Recommended PCB Layout</b></p> 		<p><b>HPH1-B</b> SINGLE ROW STRAIGHT WITH .100" INSULATOR</p>  <p><b>HPH1-B-20-UA</b></p>
<p>A = .050 [1.27] X No. of Positions per row B = .050 [1.27] X No. of Spaces</p> <p><b>Recommended PCB Layout</b></p> 		<p><b>HPH2-A</b> DUAL ROW STRAIGHT WITH 1.00mm INSULATOR</p>  <p><b>HPH2-A-40-UA</b></p>
<p>A = .050 [1.27] X No. of Positions per row B = .050 [1.27] X No. of Spaces</p> <p><b>Recommended PCB Layout</b></p> 		<p><b>HPH2-B</b> DUAL ROW STRAIGHT WITH .100" INSULATOR</p>  <p><b>HPH2-B-40-UA</b></p>
<p>A = .050 [1.27] X No. of Positions B = .050 [1.27] X No. of Spaces</p> <p><b>Recommended PCB Layout</b></p> 		<p><b>HPH1-A (SMT)</b> SINGLE ROW STRAIGHT SMT WITH 1.00mm INSULATOR</p>  <p><b>HPH1-A-20-UA-SMT</b></p>
<p>A = .050 [1.27] X No. of Positions B = .050 [1.27] X No. of Spaces</p> <p><b>Recommended PCB Layout</b></p> 		<p><b>HPH1-B (SMT)</b> SINGLE ROW STRAIGHT SMT WITH .100" INSULATOR</p>  <p><b>HPH1-B-20-UA-SMT</b></p>

<p>A = .050 [1.27] X No. of Positions per row B = .050 [1.27] X No. of Spaces</p> <p><b>Recommended PCB Layout</b></p> 		<p><b>HPH2-A (SMT)</b></p>  <p><b>HPH2-A-40-UA-SMT</b></p> <p>Dwg. shown with optional peg</p>
<p>A = .050 [1.27] X No. of Positions per row B = .050 [1.27] X No. of Spaces</p> <p><b>Recommended PCB Layout</b></p> 		<p><b>HPH2-B (SMT)</b></p>  <p><b>HPH2-B-40-UA-SMT</b></p>
<p>A = .050 [1.27] X No. of Positions B = .050 [1.27] X No. of Spaces</p> <p><b>Recommended PCB Layout</b></p> 		<p><b>DPH-1</b></p>  <p><b>DPH-1-20-U-.079/.079/.354</b></p>
<p>A = .050 [1.27] X No. of Positions per row B = .050 [1.27] X No. of Spaces</p> <p><b>Recommended PCB Layout</b></p> 		<p><b>DPH-2</b></p>  <p><b>DPH-2-32-U-.079/.079/.354</b></p>
<p>A = .050 [1.27] X No. of Positions B = .050 [1.27] X No. of Spaces</p> <p><b>Recommended PCB Layout</b></p> 		<p><b>DPH-1 (SMT)</b></p>  <p><b>DPH-1-10-U-.079/SMT-A/.354</b></p>
<p>A = .050 [1.27] X No. of Positions per row B = .050 [1.27] X No. of Spaces</p> <p><b>Recommended PCB Layout</b></p> 		<p><b>DPH-2 (SMT)</b></p>  <p><b>DPH-2-40-U-.079/SMT/.354</b></p>

## MALE HEADER



### ORDERING INFORMATION

**HSH**

**50**

**G**

#### SERIES INDICATOR

**HSH** =  
.050" Shrouded  
Male header

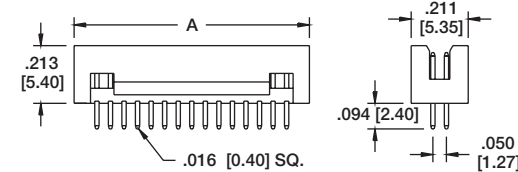
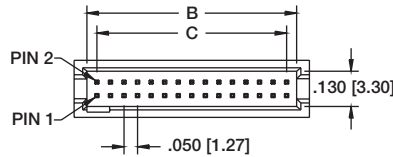
#### PLATING

**G** = Gold plated  
**T** = Tin plated  
**SG** = Gold plating  
in contact  
area, tin  
plated  
solder tails

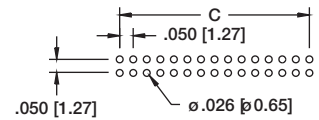
**TOTAL POSITIONS**  
10 thru 100

#### OPTIONS:

**SMT** = Surface mount leads with  
Hi-Temp insulator  
**P** = Peg option (thru hole only)



#### Recommended PCB Layout

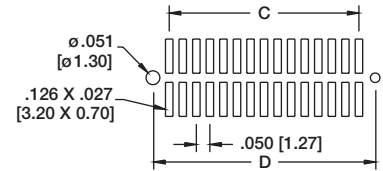
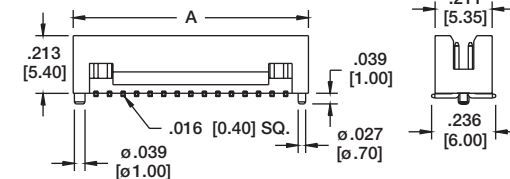
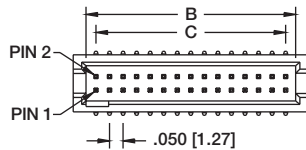


Standard: With key & without peg

A = .050 X No. of Spaces + .168 [4.27]  
B = .050 X No. of Spaces + .074 [1.87]  
C = .050 X No. of Spaces

**HSH SERIES**  
**SHROUDED MALE HEADER**

#### Recommended PCB Layout

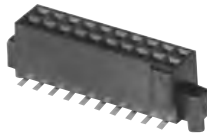


Standard: With key & with peg

A = .050 X No. of Spaces + .168 [4.27]  
B = .050 X No. of Spaces + .074 [1.87]  
C = .050 X No. of Spaces  
D = .050 X No. of Spaces + .120 [3.05]

**HSH-SMT SERIES**  
**SHROUDED MALE HEADER**

## FEMALE HEADER



### ORDERING INFORMATION

**HFH**

**50**

**G**

#### SERIES INDICATOR

**HFH** =  
.050" Female header

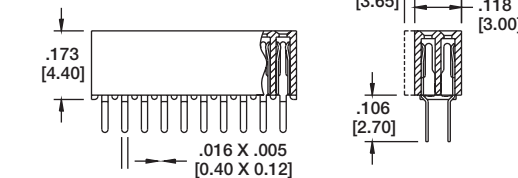
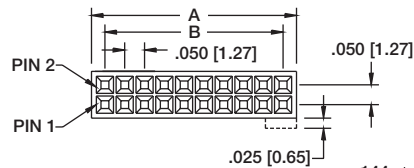
#### PLATING

**G** = Gold plated  
**T** = Tin plated  
**SG** = Gold plating  
in contact  
area, tin  
plated  
solder tails

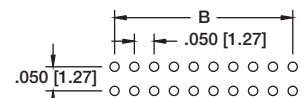
**TOTAL POSITIONS**  
10 thru 100

#### OPTIONS:

**SMT** = Surface mount leads  
with Hi-Temp insulator  
**NP** = No peg  
**NK** = No Key  
**P** = Peg option (thru hole only)



#### Recommended PCB Layout

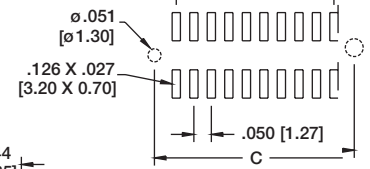
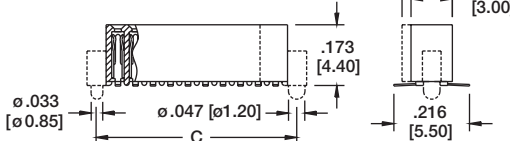
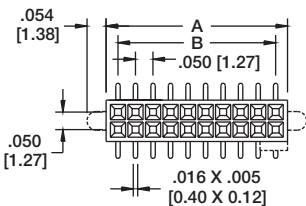


Standard: With key & without peg

A = .050 X No. of Spaces + .068 [1.73]  
B = .050 X No. of Spaces  
C = .050 X No. of Spaces + .120 [3.05]

**HFH SERIES**  
**SHROUDED FEMALE HEADER**

#### Recommended PCB Layout



Standard: With key & with peg

A = .050 X No. of Spaces + .068 [1.73]  
B = .050 X No. of Spaces  
C = .050 X No. of Spaces + .120 [3.05]

**HFH-SMT SERIES**  
**SHROUDED FEMALE HEADER**



### HBHR SERIES

Adam Tech HBHR Series .050" Box Headers are fine pitched, dual row shrouded headers for use with dual row IDC female socket connectors. Our low profile, space saving design has a center slot for the socket's polarization bump. Adam Tech's Box Headers are available in Straight PCB Mount, Right Angle PCB Mount and SMT Mounting. Plating options include choice of Gold, Tin or Selective Gold. SMT versions are manufactured with a Hi-Temp insulator. Additional options include latches and custom pin lengths.

### FEATURES:

- Shrouded, insulated connection
- Superior low profile design
- Slot for IDC socket Polarization bump
- Straight PCB, Right Angle PCB and SMT versions
- Gold, Tin or Selective Gold plating
- Options include Elevated types and integral latches
- Hi-Temp insulator available

### MATING RECEPTACLES:

Mates with all industry standard .050" [1.27mm] pitch dual row IDC sockets

### SPECIFICATIONS:

#### Material:

Standard insulator: PBT, glass reinforced, rated UL94V-0  
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0  
Insulator Color: Black  
Contacts: Brass

#### Plating:

G = Gold over nickel underplate overall  
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.  
T = Tin over copper underplate overall

#### Electrical:

Operating voltage: 250V AC max.  
Current rating: 1 Amp max  
Contact resistance: 20 mΩ max. initial  
Insulation resistance: 5000 MΩ min.  
Dielectric withstanding voltage: 500V AC for 1 minute

#### Temperature Rating:

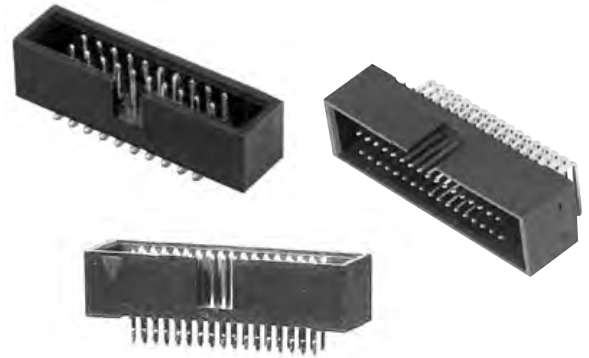
Operating temperature: -40°C to +105°C  
Soldering process temperature: 260°C

#### PACKAGING:

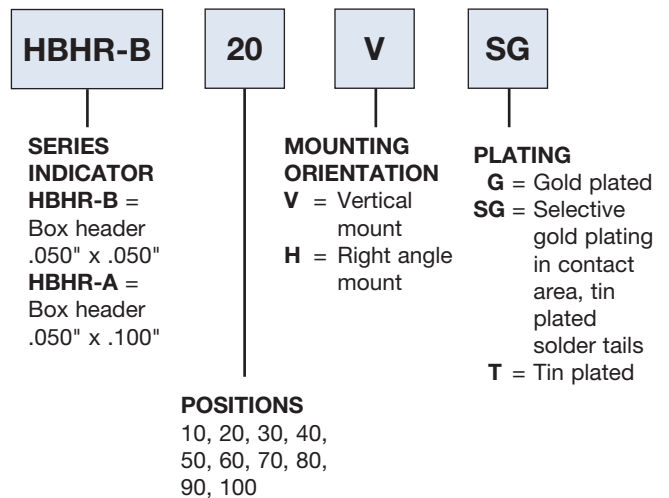
Anti-ESD plastic trays

#### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



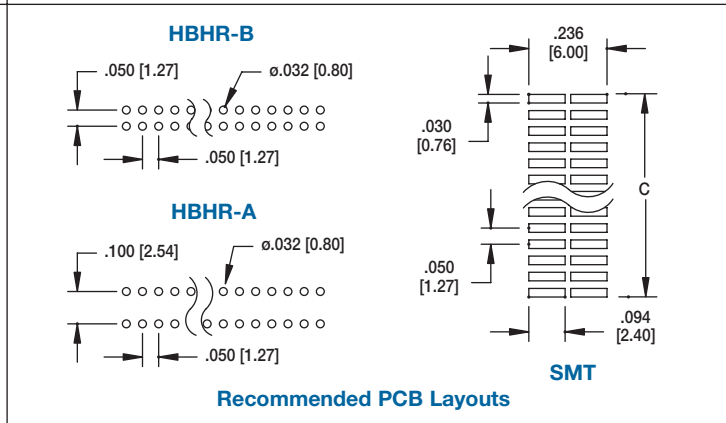
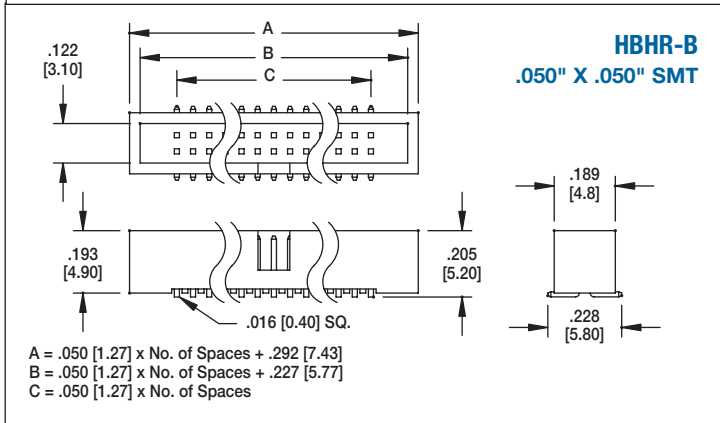
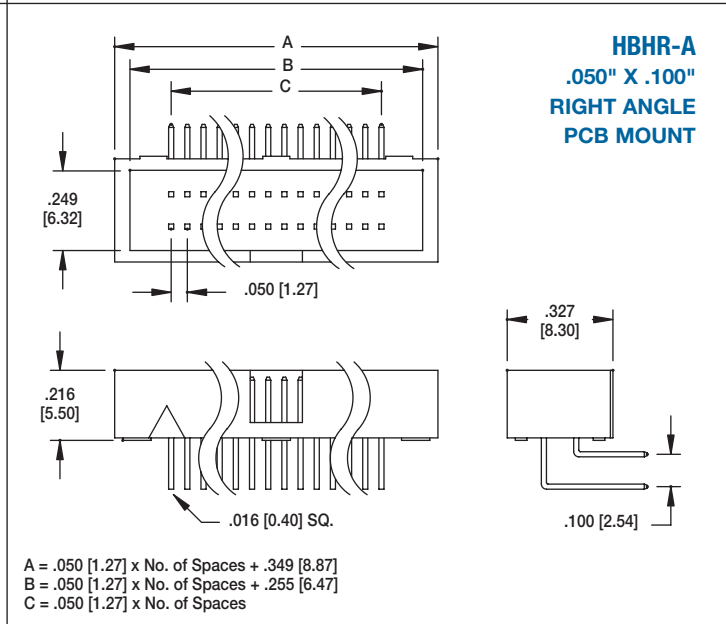
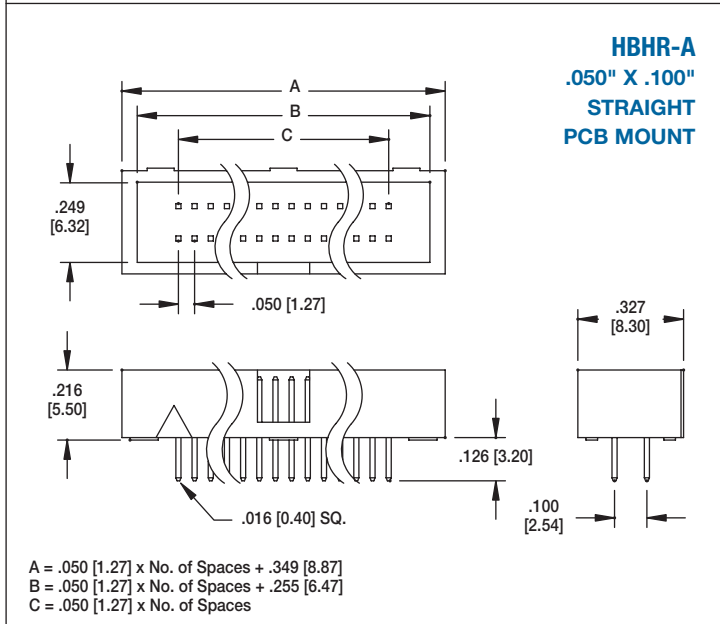
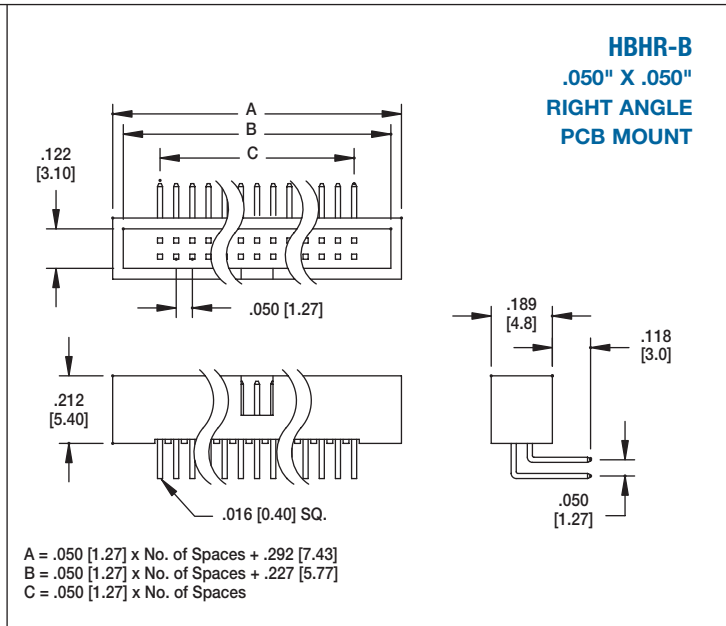
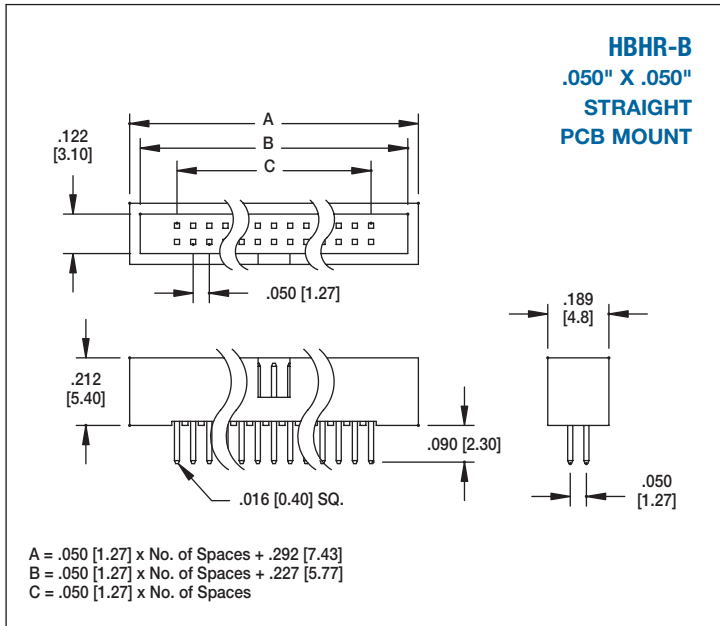
### ORDERING INFORMATION



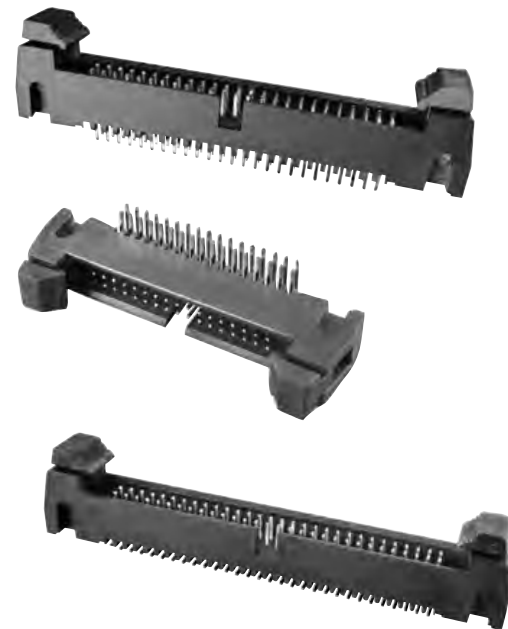
This series is available in an elevated version similar to our BHRE Series as shown on pgs. 286-287

#### OPTIONS:

Add designator(s) to end of part number  
**30** = 30 μin gold plating in contact area  
**SMT** = Surface mount leads with Hi-Temp insulator for Hi-Temp soldering processes up to 260°C  
**HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only.  
*All SMT products are manufactured with Hi-Temp insulators*)







### INTRODUCTION:

Adam Tech HMHR Series .050" Latch Headers are dual row, PCB mounted, shrouded headers with latches for use with dual row IDC female socket connectors. In addition to providing a shock and vibration proof connection the locking latches also act as ejectors to remove the mating socket. Our low profile, space saving design has a center slot for the socket's polarization bump. Adam Tech's Latch Headers are available in Straight PCB Mount, Right Angle PCB and SMT Mounting. Plating options include choice of Gold, Tin or Selective Gold

### FEATURES:

Integral Latches provide Shock and Vibration Proof connection  
Slot for IDC socket Polarization bump  
Straight PCB, Right Angle PCB and SMT versions  
Gold, Tin or Selective Gold plating  
Elevated option available  
Hi-Temp insulator available

### MATING SOCKETS:

.050" X .050" & .050" X .100" Dual row IDC sockets

### SPECIFICATIONS:

#### Material:

Insulator: PBT, glass reinforced, rated UL94V-0  
Insulator Color: Black (Gray optional)  
Contacts: Brass

#### Plating:

U = Gold over nickel underplate overall  
SG = Gold over nickel on contact area,  
Tin over copper underplate on tails.  
T = Tin over copper underplate overall

#### Electrical:

Operating voltage: 250V AC max.  
Current rating: 1 Amp max  
Contact resistance: 20 mΩ max. initial  
Insulation resistance: 5000 MΩ min.  
Dielectric withstanding voltage: 500V AC for 1 minute

#### Mechanical:

Mating durability: 500 Cycles min.

#### Temperature Rating:

Operating temperature: -55°C to +105°C

#### PACKAGING:

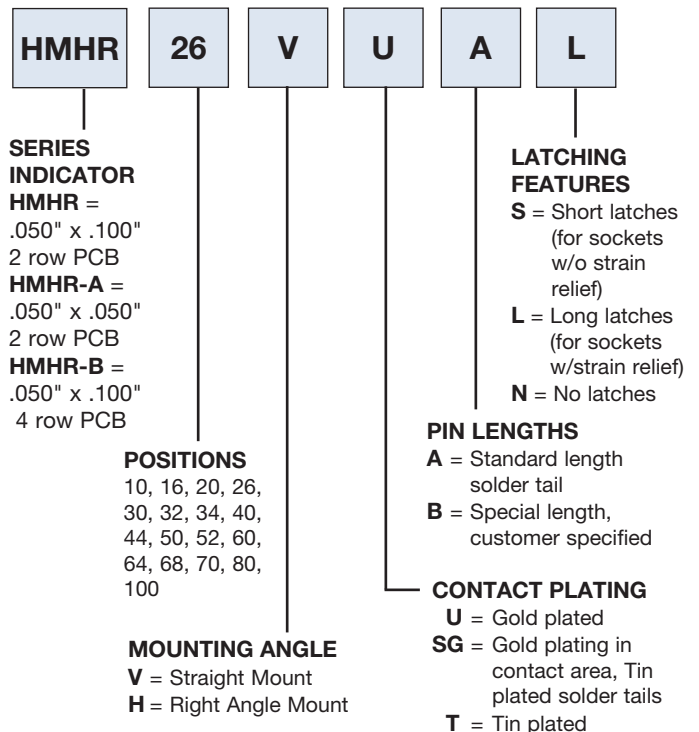
Anti-ESD plastic trays

#### SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



### ORDERING INFORMATION



### OPTIONS:

Add designator(s) to end of part number

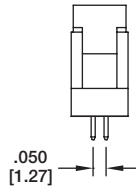
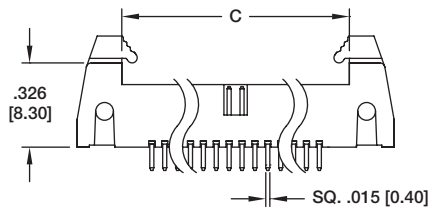
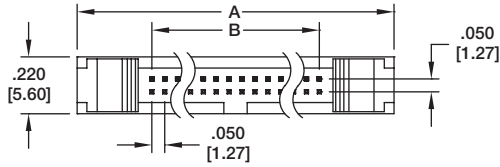
**SMT** = Surface mount leads Dual row with Hi-Temp insulator

**HT** = High-temp insulator for high-temp soldering processes

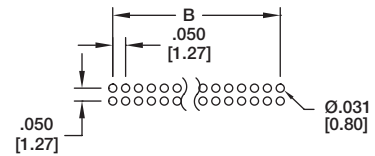
### HMHR-A

.050" X .050"

STRAIGHT PCB MOUNT



HMHR-A-50-VUAS



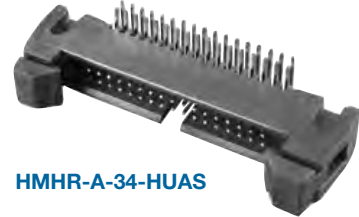
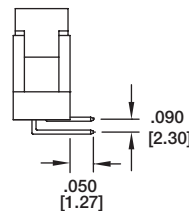
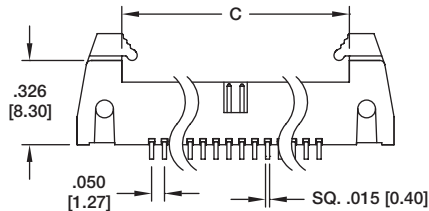
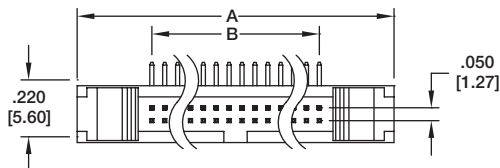
Recommended PCB Layout

A = .050 [1.27] X No. of Spaces + .233 [5.92]  
 B = .050 [1.27] X No. of Spaces  
 C = .050 [1.27] X No. of Spaces + .621 [15.77]

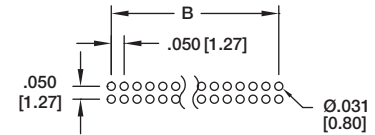
### HMHR-A

.050" X .050"

RIGHT ANGLE PCB MOUNT



HMHR-A-34-HUAS



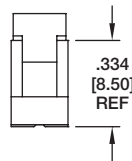
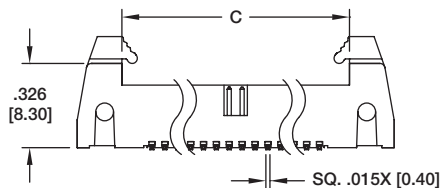
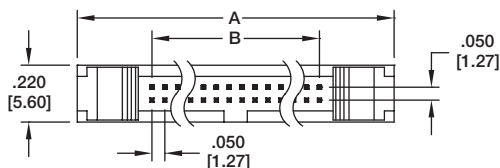
Recommended PCB Layout

A = .050 [1.27] X No. of Spaces + .233 [5.92]  
 B = .050 [1.27] X No. of Spaces  
 C = .050 [1.27] X No. of Spaces + .621 [15.77]

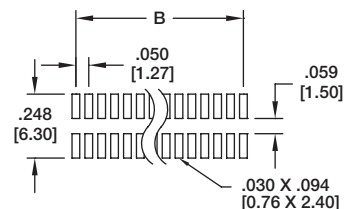
### HMHR-A

.050" X .050"

VERTICAL SMT



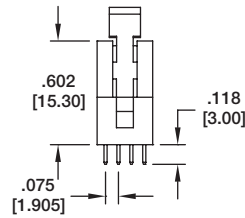
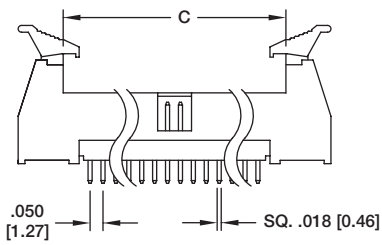
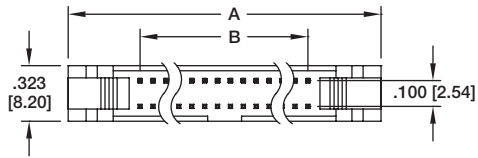
HMHR-A-60-VUAS-SMT



Recommended PCB Layout

A = .050 [1.27] X No. of Spaces + .233 [5.92]  
 B = .050 [1.27] X No. of Spaces  
 C = .050 [1.27] X No. of Spaces + .621 [15.77]

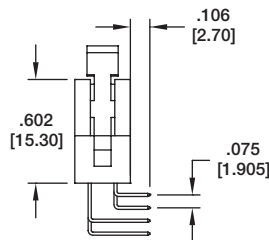
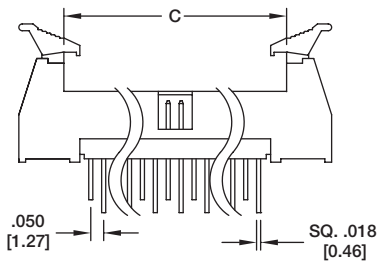
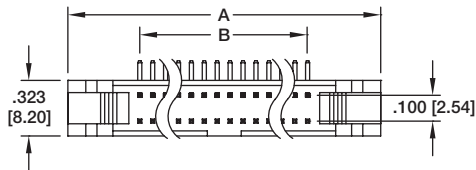
**HMHR-B**  
**.050" X .100"**  
**STRAIGHT PCB MOUNT**



**HMHR-B-50-VUAL**

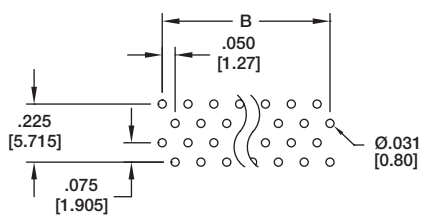
A =  $.050$  [1.27] X No. of Spaces +  $.306$  [7.78]  
 B =  $.050$  [1.27] X No. of Spaces  
 C =  $.050$  [1.27] X No. of Spaces +  $.829$  [21.07]

**HMHR-B**  
**.050" X .100" 4 ROW**  
**RIGHT ANGLE PCB MOUNT**



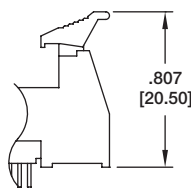
**HMHR-B-60-HUAL**

A =  $.050$  [1.27] X No. of Spaces +  $.306$  [7.78]  
 B =  $.050$  [1.27] X No. of Spaces  
 C =  $.050$  [1.27] X No. of Spaces +  $.829$  [21.07]

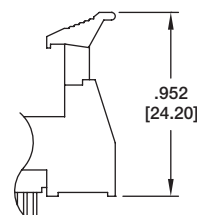


**Recommended PCB Layout**

**Latch Options**

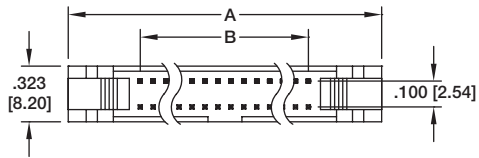


Header with Short Ejector/Latch for Sockets without Strain Reliefs

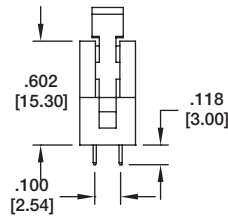
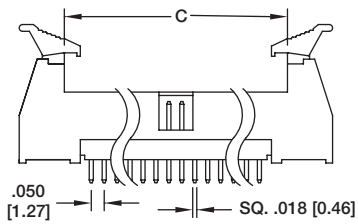


Header with Long Ejector/Latch for Sockets with Strain Reliefs

**HMHR**  
**.050" X .100"**  
**STRAIGHT PCB MOUNT**

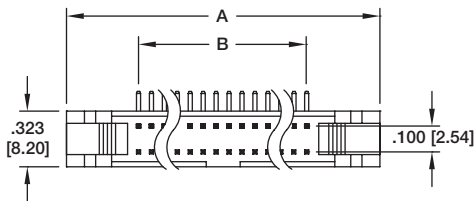


**HMHR-80-VUAS**

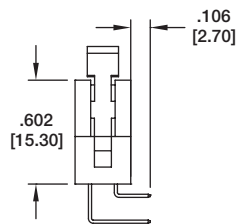
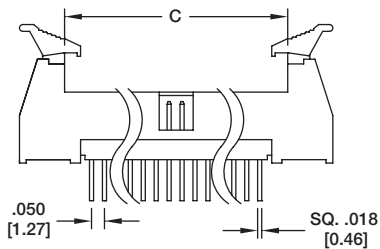


A =  $.050$  [1.27] X No. of Spaces +  $.306$  [7.78]  
 B =  $.050$  [1.27] X No. of Spaces  
 C =  $.050$  [1.27] X No. of Spaces +  $.829$  [21.07]

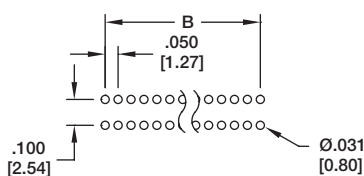
**HMHR**  
**.050" X .100"**  
**RIGHT ANGLE PCB MOUNT**



**HMHR-50-HUAL**

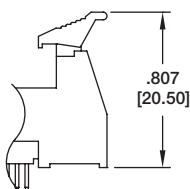


A =  $.050$  [1.27] X No. of Spaces +  $.306$  [7.78]  
 B =  $.050$  [1.27] X No. of Spaces  
 C =  $.050$  [1.27] X No. of Spaces +  $.829$  [21.07]

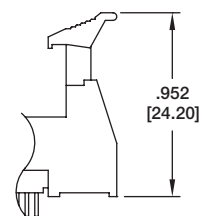


**Recommended PCB Layout**

**Latch Options**



Header with Short Ejector/Latch for Sockets without Strain Reliefs



Header with Long Ejector/Latch for Sockets with Strain Reliefs

## INTRODUCTION:

Adam Tech HRS Series .050" Receptacle Strips are offered in a multitude of sizes and profiles designed to satisfy most .050" socket requirements. Available in Single and Dual rows they are offered in Straight, Right Angle, SMT, Bottom Entry and Pass Through PCB mounting styles. Each type has a specially designed contact system which produces a high normal force connection and is available with gold, tin or selective gold plating. All are available with standard or Hi-Temp thermoplastic insulators. Our SMT offering is available with optional pick and place pads and tape & reel packaging.

## FEATURES:

- Broad range of sizes and profiles
- Contact systems with high normal force
- Choice of contact plating
- SMT pick & place option
- Optional Tape & reel packaging

## MATING CONNECTORS:

Adam Tech HPH headers and all industry standard .050" pitch pin headers with .016" [0.4mm] square pins

## SPECIFICATIONS:

### Material:

Insulator: Hi-Temp insulator: Nylon 6T, rated UL94V-0  
 Insulator Color: Black  
 Contacts: Phosphor Bronze

### Contact Plating:

G = Gold over nickel underplate overall  
 SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.  
 T = Tin over copper underplate overall

### Electrical:

Operating voltage: 250V AC max.  
 Current rating: 1 Amp max.  
 Contact resistance: 20 mΩ max. initial  
 Insulation resistance: 5000 MΩ min.  
 Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:

Insertion force: 0.375 lbs per contact max.  
 Withdrawal force: 0.125 lbs per contact min.

### Temperature rating:

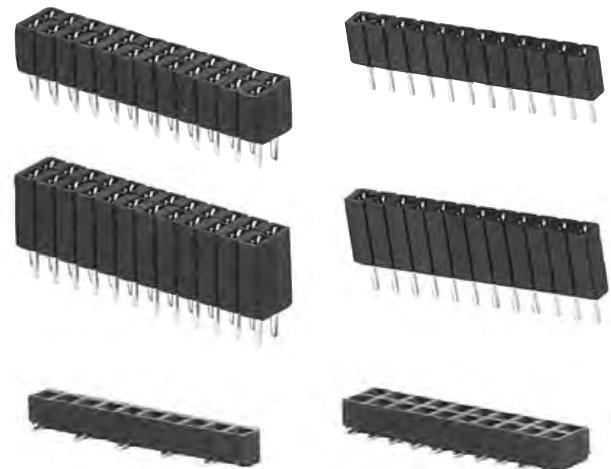
Operating temperature: -40°C to +105°C

### PACKAGING:

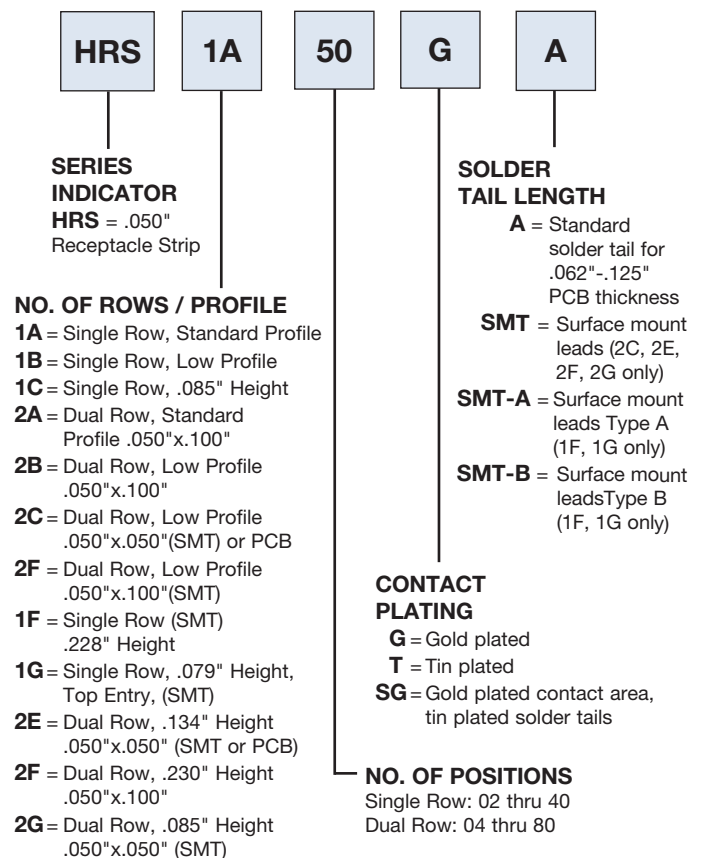
Anti-ESD trays or tubes  
 (Tape and Reel optional for SMT type)

### SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053




## ORDERING INFORMATION



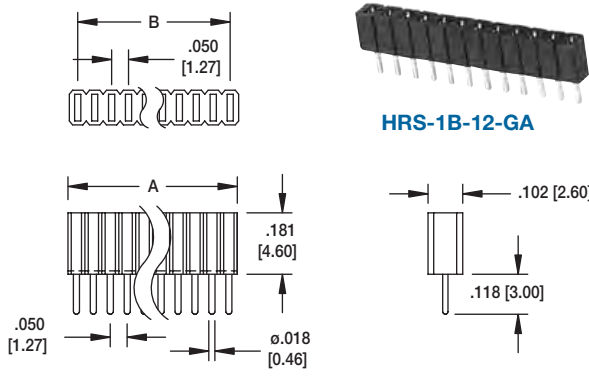
## OPTIONS:

Add designator(s) to end of part number  
 30 = 30 μin gold plating in contact area  
 P = Guide Pegs  
 E = End Pegs


**HRS-1B**



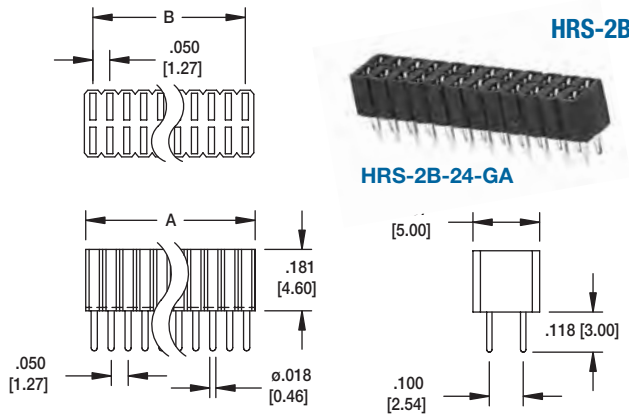
**HRS-1B-12-GA**




**HRS-2B**



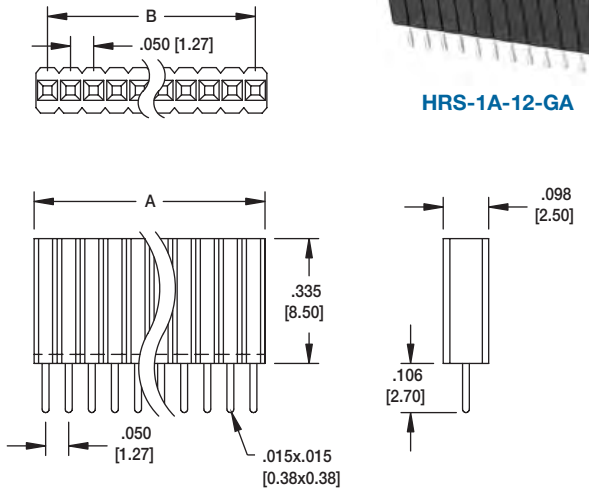
**HRS-2B-24-GA**




**HRS-1A**



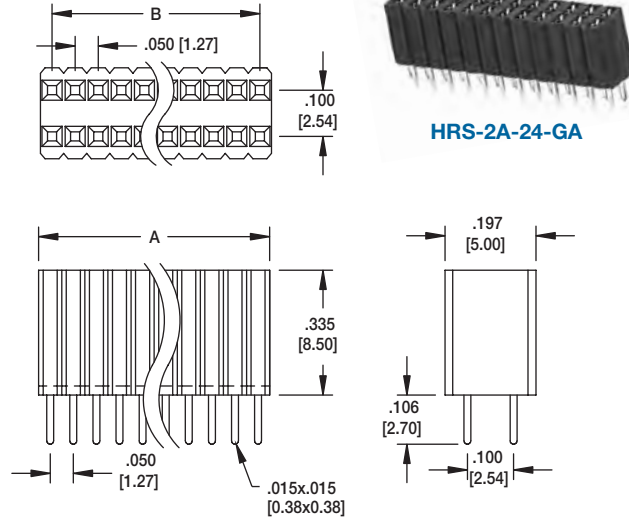
**HRS-1A-12-GA**




**HRS-2A**



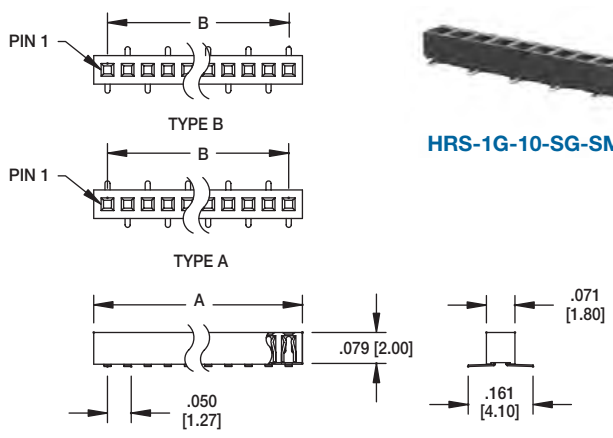
**HRS-2A-24-GA**




**HRS-1G-SMT TOP ENTRY**



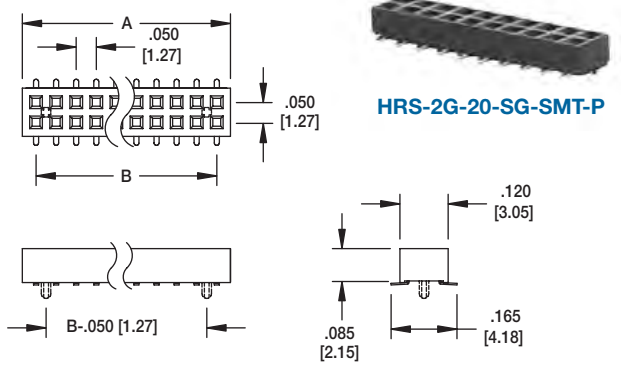
**HRS-1G-10-SG-SMT-B**



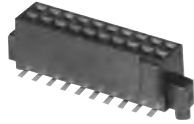
**HRS-2G-SMT TOP ENTRY**



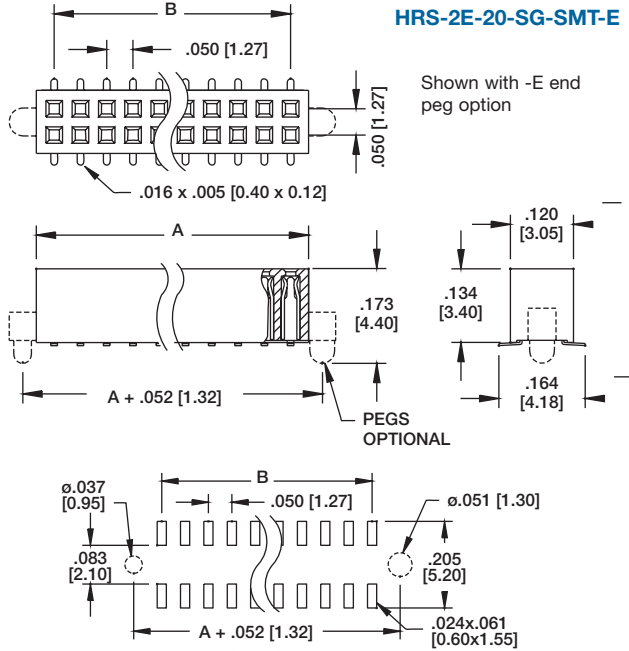
**HRS-2G-20-SG-SMT-P**



## HRS-2E SMT W/ OPTIONAL PEG



**HRS-2E-20-SG-SMT-E**



### Recommended PCB Layout

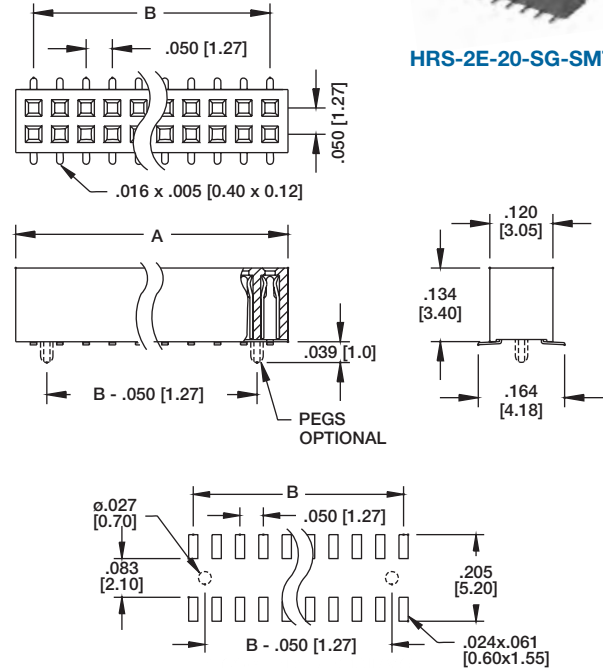
$A = .050$  [1.27] X No. of Positions per row +  $.018$  [0.46]  
 $B = .050$  [1.27] X No. of Spaces

## HRS-2E SMT

Ordering Information pg. 294



**HRS-2E-20-SG-SMT**



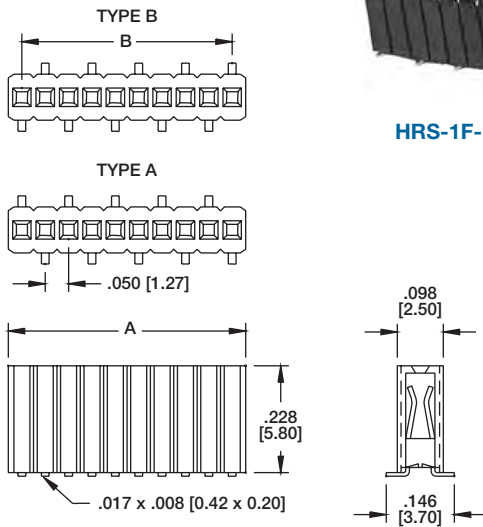
### Recommended PCB Layout

$A = .050$  [1.27] X No. of Positions per row +  $.018$  [0.46]  
 $B = .050$  [1.27] X No. of Spaces

## HRS-1F-SMT



**HRS-1F-12-SG-SMT-B**

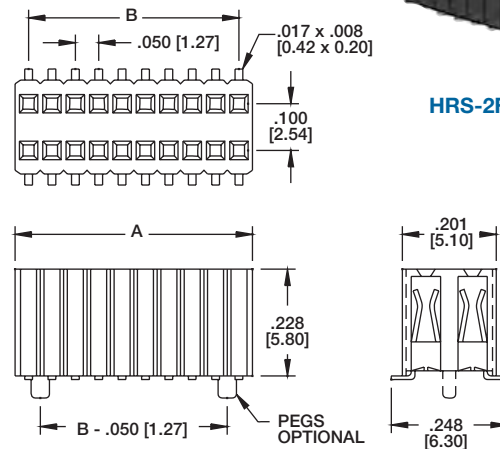


$A = .050$  [1.27] X No. of Positions +  $.008$  [0.20]  
 $B = .050$  [1.27] X No. of Spaces

## HRS-2F-SMT




**HRS-2F-24-SG-SMT**



$A = .050$  [1.27] X No. of Positions per row +  $.008$  [0.20]  
 $B = .050$  [1.27] X No. of Spaces

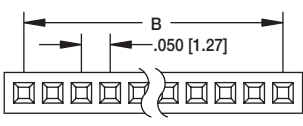
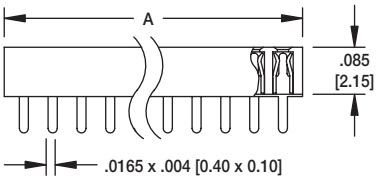


**HRS-1C  
SINGLE ROW**




**HRS-1C-13-GA**

A = .050 [1.27] X No. of Pos. + .018 [0.46]  
B = .050 [1.27] X No. of Spaces

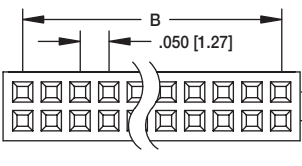
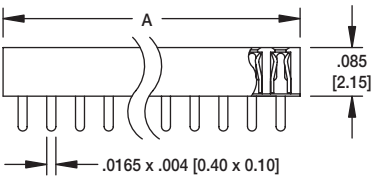
**HRS-2C  
DUAL ROW**

Ordering Information  
pg. 294

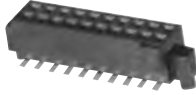


**HRS-2C-26-GA**

A = .050 [1.27] X No. of Pos. + .018 [0.46]  
B = .050 [1.27] X No. of Spaces

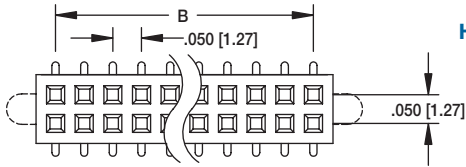
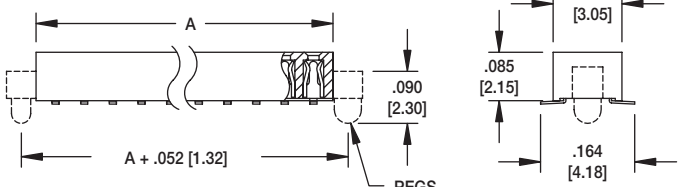



**HRS-2C-SMT  
DUAL ROW WITH END PEGS**




**HRS-2C-20-SG-SMT-E**

A = .050 [1.27] X No. of Pos. + .018 [0.46]  
B = .050 [1.27] X No. of Spaces

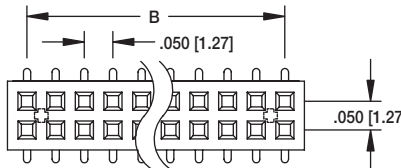
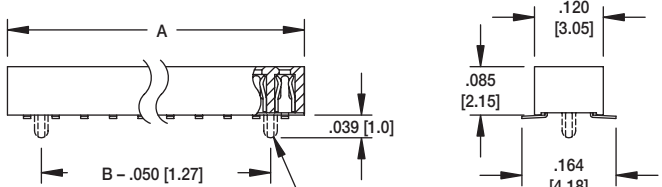



**HRS-2C-SMT  
DUAL ROW WITH UNDERSIDE PEGS**

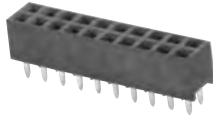


**HRS-2C-20-SG-SMT**

A = .050 [1.27] X No. of Pos. + .018 [0.46]  
B = .050 [1.27] X No. of Spaces

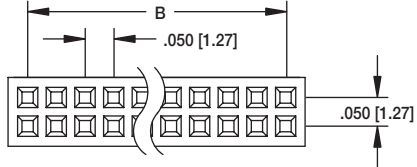
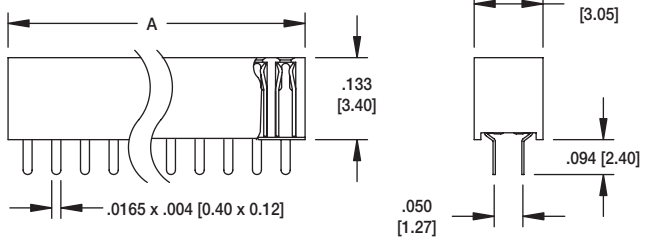
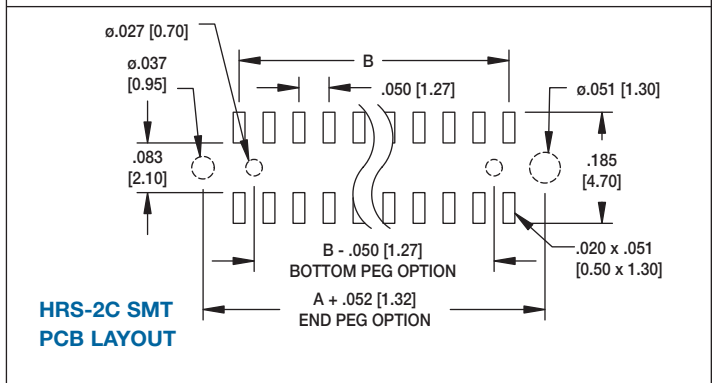
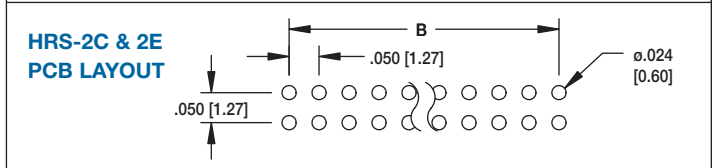
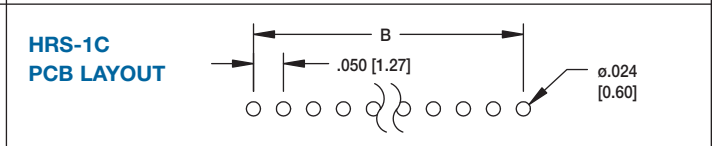



**HRS-2E  
DUAL ROW**



**HRS-2E-20-GA**

A = .050 [1.27] X No. of Pos. + .018 [0.46]  
B = .050 [1.27] X No. of Spaces

### INTRODUCTION

Adam Tech 2PH & D2PH Series 2.0mm Pin Headers offer a full range of fine pitched headers in a variety of configurations including Single, Dual and Three rows, Straight & Right Angle in Thru-Hole or SMT mounting. Their close tolerance .020" sq. posts are smoothly finished and taper tipped to eliminate insertion damage to the PCB or mating connector. Adam Tech 2.0mm Pin Headers can be easily cut into exact sizes as required. Options include stacked insulator versions and choice of tin, gold or selective gold plating. This series is compatible with all industry standard 2.0mm pitch mating connectors.

### FEATURES:

Single, Dual or Three Row  
Tin, gold or selective gold plating options  
Thru-hole or SMT mounting  
Stacked and Custom length versions available  
Versatile Breakaway design  
Hi Temp Insulator available

### MATING RECEPTACLES:

Mates with all industry standard .050" pitch female headers

### SPECIFICATIONS:

#### Material:

Standard insulator: PBT, glass reinforced, rated UL94V-0  
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0  
Insulator Color: Black  
Contacts: Brass

#### Plating:

U = Gold over nickel underplate overall  
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.  
T = Tin over copper underplate overall

#### Electrical:

Operating voltage: 250V AC max.  
Current rating: 1 Amp max.  
Contact resistance: 20 mΩ max. initial  
Insulation resistance: 5000 MΩ min.  
Dielectric withstanding voltage: 1000V AC for 1 minute

#### Mechanical:

Mating durability: 1,000 cycles

#### Temperature Rating:

Operating temperature: -40°C to +105°C  
Soldering process temperature: 260°C

#### PACKAGING:

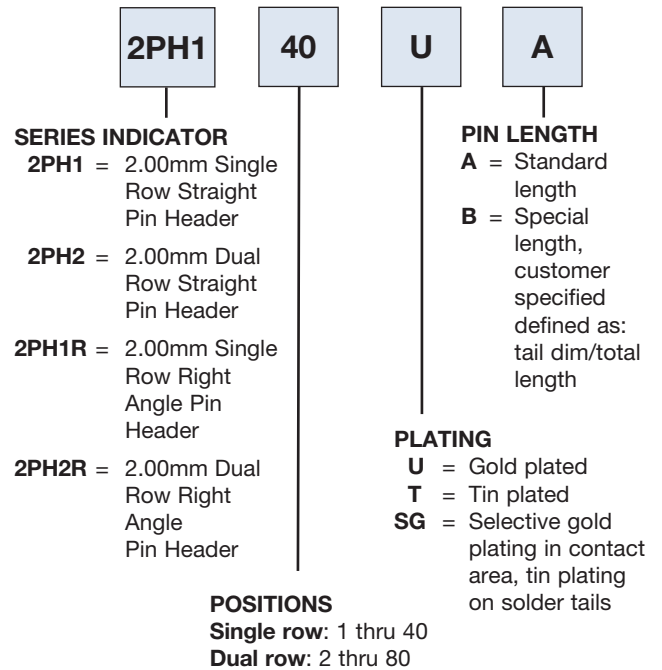
Anti-ESD plastic bags  
(Tape and Reel available for SMT option)

#### APPROVALS AND CERTIFICATIONS:

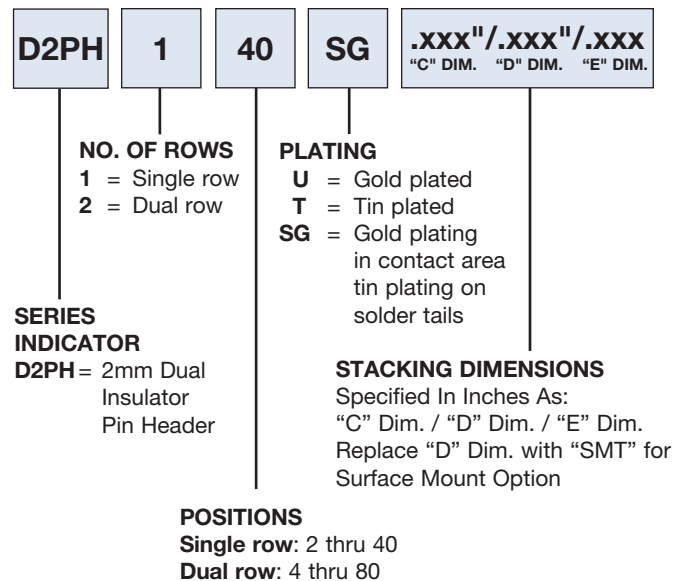
UL Recognized File no. E224053



### ORDERING INFORMATION



### ORDERING INFORMATION DUAL INSULATOR HEADERS



#### OPTIONS: Add designator(s) to end of part number

- SMT = Surface Mount leads Dual Row
- SMT-A = Surface Mount leads Type A
- SMT-B = Surface Mount Leads Type B
- HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C  
(Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)
- L = Low profile 1.5mm insulator thickness
- P = Locating pegs
- BR = Board retention solder tails

<p>A = .079" [2.00] x No. of positions B = .079" [2.00] x No. of spaces</p> <p>PIN 1</p> <p>.079 [2.00]</p> <p>.079 [2.00]</p> <p>.020 [0.51]</p> <p>.079 [2.00]</p> <p>.110 [2.80]</p> <p>.154 [3.90]</p>	<p><b>2PH1</b></p> <p><b>2PH1-16-UA</b></p>	<p><math>\phi .031</math> [0.80]</p> <p>B</p> <p>.079 [2.00]</p> <p><b>Recommended PCB Layout</b></p>
<p>A = .079" [2.00] x No. of positions B = .079" [2.00] x No. of spaces</p> <p>PIN 1</p> <p>.079 [2.00]</p> <p>.079 [2.00]</p> <p>.020 [0.51]</p> <p>.079 [2.00]</p> <p>.118 [3.00]</p> <p>.154 [3.90]</p> <p>.110 [2.80]</p>	<p><b>2PH1R</b></p> <p><b>2PH1R-16-UA</b></p>	<p><math>\phi .031</math> [0.80]</p> <p>B</p> <p>.079 [2.00]</p> <p><b>Recommended PCB Layout</b></p>
<p>A = .079" [2.00] x No. of positions B = .079" [2.00] x No. of spaces</p> <p>PIN 2</p> <p>PIN 1</p> <p>.157 [4.00]</p> <p>.079 [2.00]</p> <p>.079 [2.00]</p> <p>.020 [0.51] .sq</p> <p>.154 [3.90]</p> <p>.079 [2.00]</p> <p>.110 [2.80]</p>	<p><b>2PH2</b></p> <p><b>2PH2-32-UA</b></p>	<p><math>\phi .031</math> [0.80]</p> <p>B</p> <p>.079 [2.00]</p> <p>.079 [2.00]</p> <p><b>Recommended PCB Layout</b></p>
<p>A = .079" [2.00] x No. of positions B = .079" [2.00] x No. of spaces</p> <p>PIN 2</p> <p>PIN 1</p> <p>.157 [4.00]</p> <p>.079 [2.00]</p> <p>.079 [2.00]</p> <p>.020 [0.51] .sq</p> <p>.079 [2.00]</p> <p>.118 [3.00]</p> <p>.154 [3.90]</p> <p>.110 [2.80]</p>	<p><b>2PH2R</b></p> <p><b>2PH2R-32-UA</b></p>	<p><math>\phi .031</math> [0.80]</p> <p>B</p> <p>.079 [2.00]</p> <p>.079 [2.00]</p> <p><b>Recommended PCB Layout</b></p>

PIN 1

TYPE B

PIN 1

TYPE A

$A = .079" [2.00] \times \text{No. of positions}$   
 $B = .079" [2.00] \times \text{No. of spaces}$

**2PH1 (SMT)**

**2PH1-15-UA-SMT-A-L**

**Recommended PCB Layout**

SMT-A

SMT-B

PIN 2

PIN 1

$A = .079" [2.00] \times \text{No. of positions}$   
 $B = .079" [2.00] \times \text{No. of spaces}$

**2PH2 (SMT)**

**2PH2-26-UA-SMT-L**

**Recommended PCB Layout**

PIN 1

$A = .079" [2.00] \times \text{No. of positions}$   
 $B = .079" [2.00] \times \text{No. of spaces}$

**D2PH-1**

**D2PH-1-16-U-.235 / .100 / .400**

**Recommended PCB Layout**

PIN 2

PIN 1

$A = .079" [2.00] \times \text{No. of positions}$   
 $B = .079" [2.00] \times \text{No. of spaces}$

**D2PH-2**

**D2PH-2-32-U-.235 / .100 / .400**

**Recommended PCB Layout**

**D2PH-1 (SMT)**

PIN 1  
TYPE B

PIN 1  
TYPE A

$A = .079" [2.00] \times \text{No. of positions}$   
 $B = .079" [2.00] \times \text{No. of spaces}$

**D2PH-1-12-U-.100/SMT-B/.240**

**Recommended PCB Layouts**

**SMT-A**

**SMT-B**

**D2PH-2 (SMT)**

PIN 2

PIN 1

$A = .079" [2.00] \times \text{No. of positions}$   
 $B = .079" [2.00] \times \text{No. of spaces}$

**D2PH-2-16-U-.145/SMT/.360**

**Recommended PCB Layouts**

**MS2A**

**MS2B**

**MS2C**

**MS2H-1 RIGID SHORT HANDLE**

**MS2H-2 FLEXIBLE LONG HANDLE**

### INTRODUCTION:

Adam Tech 2BHR Series 2.0mm Box Headers are dual row shrouded headers for use with dual row IDC female socket connectors. Our low profile, space saving design has a center slot for the socket's polarization bump. Adam Tech's Box Headers are available in Straight PCB Mount, Right Angle PCB Mount and SMT Mounting. Plating options include choice of Gold, Tin or Selective Gold. SMT versions are manufactured with a Hi-Temp insulator. Additional options include latches and custom pin lengths.

### FEATURES:

Shrouded, insulated connection  
 Superior low profile design  
 Slot for IDC socket Polarization bump  
 Straight PCB, Right Angle PCB and SMT versions  
 Gold, Tin or Selective Gold plating  
 Options include Elevated types and integral latches  
 Hi-Temp insulator available

### MATING SOCKETS:

Adam Tech .079" [2.0mm] X .079" [2.0mm] dual row IDC sockets

### SPECIFICATIONS:

#### Material:

Standard insulator: PBT, rated UL94V-0  
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0  
 Insulator Color: Black  
 Contacts: Brass

#### Plating:

U = Gold over nickel underplate  
 SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.  
 T = Tin over copper underplate overall

#### Electrical:

Operating voltage: 250V AC max.  
 Current rating: 1 Amp max  
 Contact resistance: 20 mΩ max. initial  
 Insulation resistance: 5000 MΩ min.  
 Dielectric withstanding voltage: 1000V AC for 1 minute

#### Mechanical:

Mating durability: 500 cycles min.

#### Temperature Rating:

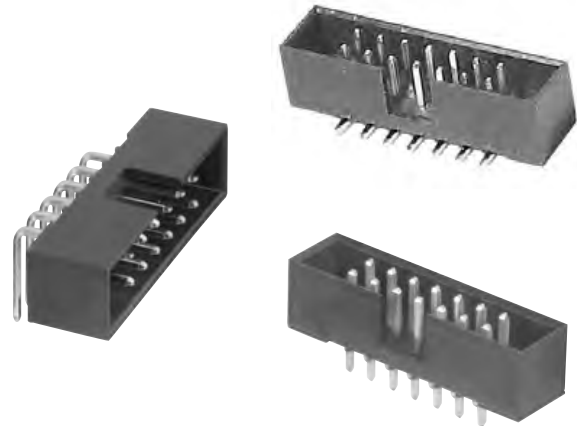
Operating temperature: -40°C to +105°C  
 Soldering process temperature:  
 Standard insulator: 235°C  
 Hi-Temp insulator: 260°C

#### PACKAGING:

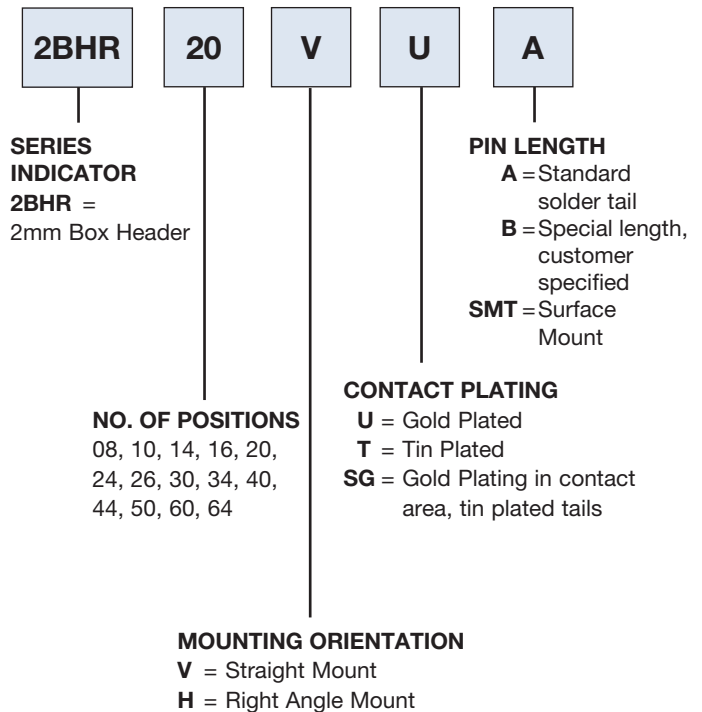
Anti-ESD plastic trays

#### APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



### ORDERING INFORMATION



This series is available in an elevated version similar to our BHRE Series as shown on pgs. 286-287

#### OPTIONS:

Add designator(s) to end of part number  
**30** = 30 μin gold plating in contact area  
**GY** = Gray color insulator  
**HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)



$A = .079 [2.00] \times \text{No. of Spaces} + .362 [9.20]$   
 $B = .079 [2.00] \times \text{No. of Spaces}$

**2BHR STRAIGHT**

**2BHR-14-VUA**

**Recommended PCB Layout**

$A = .079 [2.00] \times \text{No. of Spaces} + .362 [9.20]$   
 $B = .079 [2.00] \times \text{No. of Spaces}$

**2BHR RIGHT ANGLE**

**2BHR-14-HUA**

**Recommended PCB Layout**

$A = .079 [2.00] \times \text{No. of Spaces} + .362 [9.20]$   
 $B = .079 [2.00] \times \text{No. of Spaces}$

**2BHR SMT**

**2BHR-14-VUA-SMT**

**Recommended PCB Layout**



### INTRODUCTION:

Adam Tech 2MHR Series 2mm Latch Headers are dual row, PCB mounted, shrouded headers with latches for use with dual row IDC female socket connectors. In addition to providing a shock and vibration proof connection the locking latches also act as ejectors to remove the mating socket. Our low profile, space saving design has a center slot for the socket's polarization bump. Adam Tech's Latch Headers are available in Straight PCB Mount, Right Angle PCB and SMT Mounting. Plating options include choice of Gold, Tin or Selective Gold

### FEATURES:

Integral Latches provide Shock and Vibration Proof connection  
Slot for IDC socket Polarization bump  
Straight PCB, Right Angle PCB and SMT versions  
Gold, Tin or Selective Gold plating  
Elevated option available  
Hi-Temp insulator available

### MATING SOCKETS:

2mm X 2mm Dual row IDC sockets

### SPECIFICATIONS:

#### Material:

Insulator: PBT, glass reinforced, rated UL94V-0  
Insulator Color: Black (Gray optional)  
Contacts: Brass

#### Plating:

U = Gold over nickel underplate overall  
SG = Gold over nickel on contact area,  
Tin over copper underplate on tails.  
T = Tin over copper underplate overall

#### Electrical:

Operating voltage: 250V AC max.  
Current rating: 1 Amp max  
Contact resistance: 20 mΩ max. initial  
Insulation resistance: 5000 MΩ min.  
Dielectric withstanding voltage: 1000V AC for 1 minute

#### Mechanical:

Mating durability: 500 Cycles min.

#### Temperature Rating:

Operating temperature: -40°C to +105°C

#### PACKAGING:

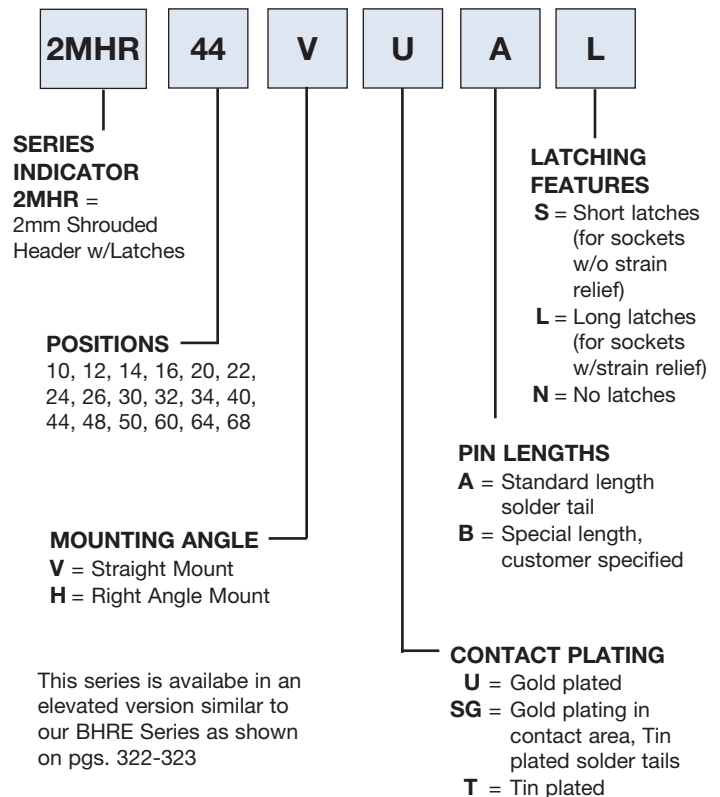
Anti-ESD plastic trays

#### SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



### ORDERING INFORMATION



### OPTIONS:

Add designator(s) to end of part number  
HT = High-temp insulator for high-temp soldering processes

LATCH DIMENSIONS		
	X	Y
LONG LATCH	.775 [19.70]	.452 [11.50]
SHORT LATCH	.665 [16.90]	.342 [8.70]

$A = .079 [2.00] \times \text{No. of Spaces} + .697 [17.70]$   
 $B = .079 [2.00] \times \text{No. of Spaces}$

**2MHR-34-VUAS**

**Recommended PCB Layout**

LATCH DIMENSIONS		
	X	Y
LONG LATCH	.775 [19.70]	.452 [11.50]
SHORT LATCH	.665 [16.90]	.342 [8.70]

$A = .079 [2.00] \times \text{No. of Spaces} + .697 [17.70]$   
 $B = .079 [2.00] \times \text{No. of Spaces}$

**2MHR-60-HUAS**

**Recommended PCB Layout**

LATCH DIMENSIONS		
	X	Y
LONG LATCH	.775 [19.70]	.452 [11.50]
SHORT LATCH	.665 [16.90]	.342 [8.70]

$A = .079 [2.00] \times \text{No. of Spaces} + .697 [17.70]$   
 $B = .079 [2.00] \times \text{No. of Spaces}$

**2MHR-40-HUAS**

**Recommended PCB Layout**

### INTRODUCTION:

Adam Tech 2RS Series 2.00mm Receptacle Strips are offered in several sizes and profiles designed to satisfy most 2.00mm socket requirements. Available in Single and Dual rows, they are offered in Straight, Right Angle, Bottom Entry and Pass Through PCB mounting styles. Each type has a specially designed contact system which uses a wiping mating action and produces a high normal force connection with gold, tin or selective gold plating. All are available with Standard or Hi-Temp Thermoplastic insulators. Our SMT offering is available with optional pick and place pads and tape & reel packaging.

### FEATURES:

Single and dual row in straight, right angle and SMT mounting forms  
 Top, side and bottom entry versions  
 Plated full gold, full tin or duplex plated  
 Five different body heights  
 Standard PBT insulator or optional Hi Temp insulator  
 Tape and reel packaging available

### MATING CONNECTORS:

Adam Tech 2PH headers and all industry standard 2.0mm pin headers with a .020" [0.5mm] square pin.

### SPECIFICATIONS:

#### Material:

Insulator: PBT, glass reinforced, rated UL94V-0  
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0  
 Insulator Color: Black  
 Contacts: Phosphor Bronze

#### Contact Plating:

G = Gold over nickel underplate overall  
 SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.  
 T = Tin over copper underplate overall

#### Electrical:

Operating voltage: 250V AC max.  
 Current rating: 1 Amp max.  
 Contact resistance: 20 mΩ max. initial  
 Insulation resistance: 5000 MΩ min.  
 Dielectric withstanding voltage: 1000V AC for 1 minute

#### Mechanical:

Insertion force: 0.313 lbs per contact max.  
 Withdrawal force: 0.175 lbs per contact min.

#### Temperature Rating:

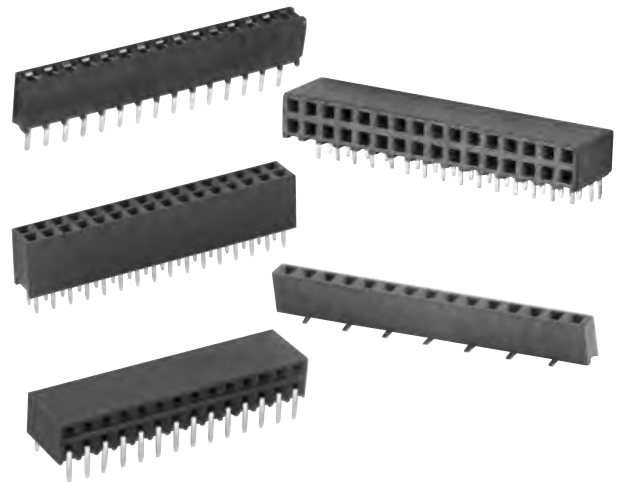
Operating temperature: -40°C to +105°C

#### PACKAGING:

Anti-ESD plastic trays  
 (Tape and Reel optional for SMT option)

#### SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



### ORDERING INFORMATION

2RS1

40

G

#### SERIES INDICATOR

- 2RS1** = 2.00mm Single Row, Vertical Mount, Receptacle
- 2RS2** = 2.00mm Dual Row, Vertical Mount, Receptacle
- 2RS1R** = 2.00mm Single Row, Right Angle, Receptacle
- 2RS2R** = 2.00mm Dual Row, Right Angle, Receptacle
- 2RS4** = 2.00mm 4 Row, Vertical Mount, Receptacle
- 2RS2BR** = 2.00mm Dual Row, Right Angle, 3-Sided Contact Receptacle
- 2RS1H** = 2.00mm Single Row, Vertical Mount, .248" Height Receptacle
- 2RS2H** = 2.00mm Dual Row, Vertical Mount, .248" Height Receptacle
- 2RS2T** = 2.00 mm Dual Row, Surface Mount, .106" Height, Top Entry Receptacle
- 2RS2B** = 2.00mm Dual Row, Surface Mount, .106" Height, Bottom Entry Receptacle

#### PLATING

- G** = Gold plated
- SG** = Gold plated contact area, tin plated solder tails
- T** = Tin plated

#### POSITIONS

- SINGLE ROW:** 2 thru 40
- DUAL ROW:** 4 thru 80
- FOUR ROW:** 8 thru 120

#### OPTIONS:

- Add designator(s) to end of part number
- 30** = 30 μin gold plating in contact area
  - SMT** = SMT leads with Hi-Temp insulator dual row
  - SMT-A** = SMT Single Row Type A with Hi-Temp insulator
  - SMT-B** = SMT Single Row Type B with Hi-Temp insulator
  - P** = Optional guide peg on SMT version
  - PP** = Pick and place pad
  - HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only.)
- All SMT products are manufactured with Hi-Temp insulators

**2RS1**

A = .079 [2.00] X No. of Positions  
B = .079 [2.00] X No. of Spaces

**2RS1-15-G**

**Recommended PCB Layout**

**2RS2**

A = .079 [2.00] X No. of Positions per row  
B = .079 [2.00] X No. of Spaces

**2RS2-32-G**

**Recommended PCB Layout**

**2RS2BR**

A = .079 [2.00] X No. of Positions per row + .008 [0.20]  
B = .079 [2.00] X No. of Spaces

**2RS2BR-28-G**

**Recommended PCB Layout**

A = .079 [2.00] X No. of Positions  
B = .079 [2.00] x No. of Spaces

**2RS1R**

**2RS1R-14-G**

**Recommended PCB Layout**

A = .079 [2.00] X No. of Positions Per Row  
B = .079 [2.00] x No. of Spaces

**2RS2R**

**2RS2R-32-G**

**Recommended PCB Layout**

TYPE A

A = .079 [2.00] X No. of Positions  
B = .079 [2.00] x No. of Spaces

**2RS1-SMT**

**2RS1-15-SG-SMT-A**

**Recommended PCB Layout**

A = .079 [2.00] X No. of Positions Per Row  
B = .079 [2.00] x No. of Spaces

**2RS2-SMT**

**2RS2-32-SG-SMT**

**Recommended PCB Layout**

	<p>A = .079 [2.00] X No. of Positions B = .079 [2.00] x No of Spaces</p>	<p><b>2RS1H</b></p> <p><b>2RS1H-16-G</b></p> <p><b>Recommended PCB Layout</b></p>
	<p>A = .079 [2.00] X No. of Positions Per Row B = .079 [2.00] x No of Spaces</p>	<p><b>2RS2H</b></p> <p><b>2RS2H-32-G</b></p> <p><b>Recommended PCB Layout</b></p>
	<p>A = .079 [2.00] X No. of Positions Per Row B = .079 [2.00] x No of Spaces</p>	<p><b>2RS2T-SMT TOP ENTRY SOCKET</b></p> <p><b>2RS2T-20-SG-SMT</b></p> <p><b>Recommended PCB Layout</b></p>
	<p>A = .079 [2.00] X No. of Positions Per Row B = .079 [2.00] x No of Spaces</p>	<p><b>2RS2B-SMT BOTTOM ENTRY SOCKET</b></p> <p><b>2RS2B-20-SG-SMT</b></p> <p><b>Recommended PCB Layout</b></p>



## INTRODUCTION:

Adam Tech PH Series .100" Pin Headers are a full range headers in a variety of configurations including Single, Dual and Three rows, Straight or Right Angle in Thru-Hole or SMT mounting. Their close tolerance .025" sq. posts are smoothly finished and taper tipped to eliminate insertion damage to the PCB or mating connector. Adam Tech Pin Headers can be easily cut into exact sizes as required. Options include stacked insulator versions and choice of tin, gold or selective gold plating. This series is compatible with all industry standard .100" pitch pin headers.

## FEATURES:

Single, Dual or Three Row  
 Tin, gold or selective gold plating options  
 Thru-hole or SMT mounting  
 Stacked and Custom length versions available  
 Versatile Breakaway design  
 Hi Temp Insulator available

## MATING RECEPTACLES:

Mates with all industry standard receptacles accepting a .025" square post on .100" [2.54mm] centerlines

## SPECIFICATIONS:

### Material:

Insulator: PBT, glass reinforced, rated UL94V-0  
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0  
 Insulator Color: Black  
 Contacts: Brass

### Plating:

U = Gold over nickel underplate  
 SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.  
 T = Tin over copper underplate overall

### Electrical:

Operating voltage: 250V AC max.  
 Current rating: 3 Amps max  
 Contact resistance: 20 mΩ max. initial  
 Insulation resistance: 5000 MΩ min.  
 Dielectric withstanding voltage: 1000V AC for 1 minute

### Mechanical:

Insertion force: 2 oz lbs max.  
 Withdrawal force: .75 oz lbs min  
 Mating durability: 1000 cycles min.

### Temperature Rating:

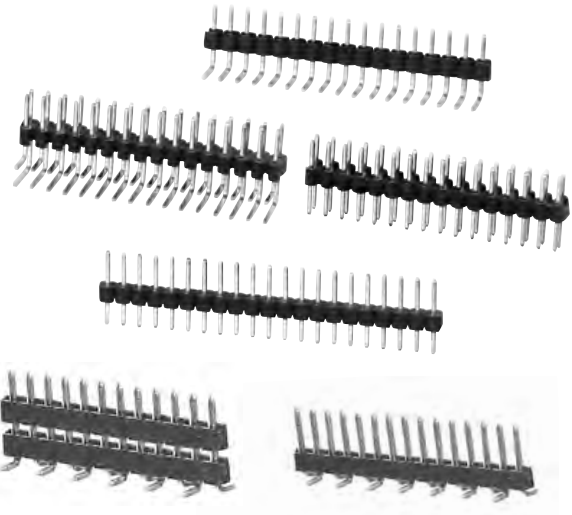
Operating temperature: -40°C to +105°C  
 Soldering process temperature:  
 Standard insulator: 235°C  
 Hi-Temp insulator: 260°C

### PACKAGING:

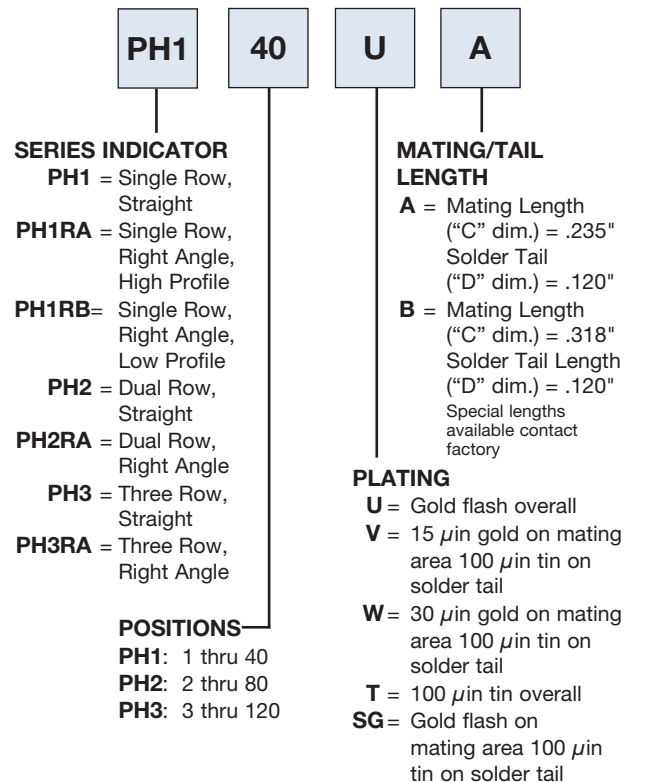
Anti-ESD plastic bags

### SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



## ORDERING INFORMATION

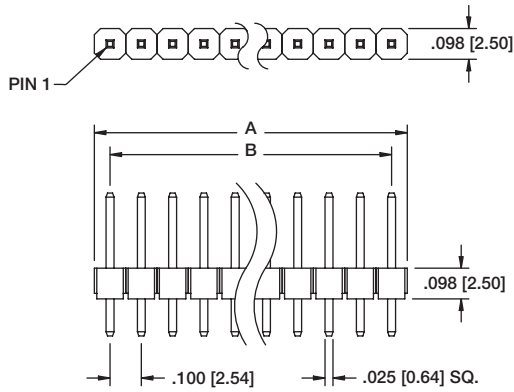


### OPTIONS:

Add designator(s) to end of part number  
**SMT** = Surface mount leads Dual row with Hi-Temp insulator  
**SMT-A** = Surface mount leads Type A with Hi-Temp insulator  
**SMT-B** = Surface mount leads Type B with Hi-Temp insulator  
**HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only).  
 All SMT products are manufactured with Hi-Temp insulators)  
**L** = Low profile 1.50 mm insulator thickness



A = .100 [2.54] X No. of Positions.  
 B = .100 [2.54] X No. of Spaces.

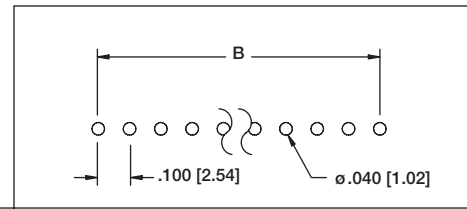


#### PH1 SINGLE ROW

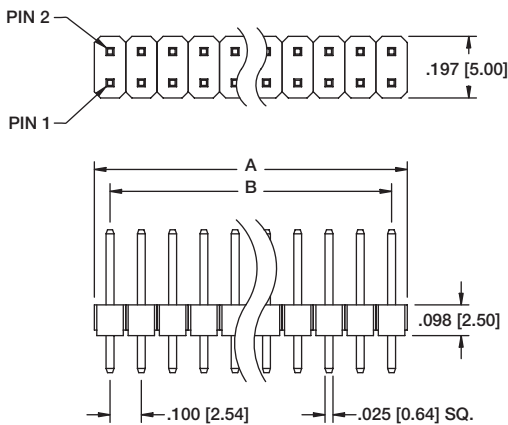


PH1-16-UA

#### Recommended PCB Layout



A = .100 [2.54] X No. of Positions per row.  
 B = .100 [2.54] X No. of Spaces.

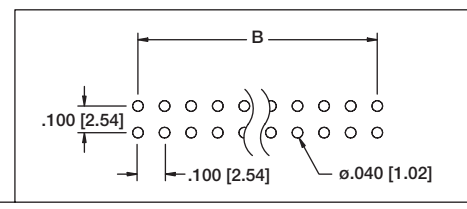


#### PH2 DUAL ROW

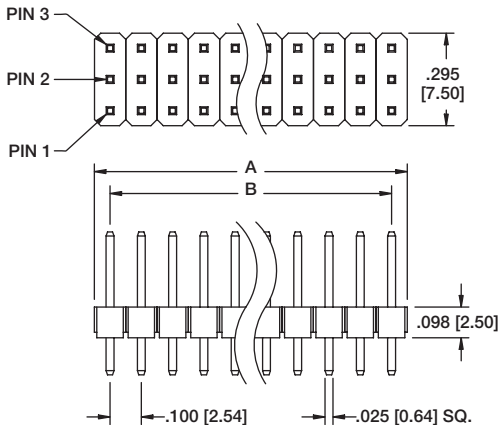


PH2-32-UA

#### Recommended PCB Layout



A = .100 [2.54] X No. of Positions per row.  
 B = .100 [2.54] X No. of Spaces.

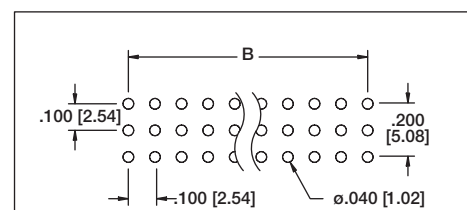


#### PH3 TRIPLE ROW



PH3-48-UA

#### Recommended PCB Layout



**PH1RB**  
SINGLE ROW

**PH1RB-16-UA**

**Recommended PCB Layout**

A = .100 [2.54] X No. of Positions.  
B = .100 [2.54] X No. of Spaces.

**PH2RA**  
DUAL ROW

**PH2RA-32-UA**

**Recommended PCB Layout**

A = .100 [2.54] X No. of Positions per row.  
B = .100 [2.54] X No. of Spaces.

**PH3RA**  
TRIPLE ROW

**PH3RA-48-UA**

**Recommended PCB Layout**

A = .100 [2.54] X No. of Positions per row.  
B = .100 [2.54] X No. of Spaces.

PIN 1  
TYPE B

PIN 1  
TYPE A

$A = .100 [2.54] \times \text{No. of Positions.}$   
 $B = .100 [2.54] \times \text{No. of Spaces.}$

$.130 [3.30]$   
 $.197 [5.00]$   
 $.098 [2.50]$   
 $.025 [0.64] \text{ SQ}$   
 $C$

**PH1**  
**SMT-SINGLE ROW**  
**STRAIGHT**

**PH1-15-UA-SMT-B**

**Recommended PCB Layout**

**SMT-A**

**SMT-B**

PIN 2

PIN 1

$A = .100 [2.54] \times \text{No. of Positions per row.}$   
 $B = .100 [2.54] \times \text{No. of Spaces.}$

$.197 [5.00]$   
 $.100 [2.54]$   
 $.130 [3.30]$   
 $.295 [7.50]$   
 $.098 [2.50]$   
 $.025 [0.64] \text{ SQ}$   
 $C$

**PH2**  
**SMT-DUAL ROW**  
**STRAIGHT**

**PH2-26-UA-SMT**

**Recommended PCB Layout**

PIN 1

$A = .100 [2.54] \times \text{No. of Positions.}$   
 $B = .100 [2.54] \times \text{No. of Spaces.}$

$.180 [4.57]$   
 $.100 [2.54]$   
 $.098 [2.50]$   
 $C$   
 $0.154 [3.90]$

**PH1RB**  
**SMT-SINGLE ROW**  
**RIGHT ANGLE**

**PH1RB-10-UA-SMT**

**Recommended PCB Layout**

PIN 2

PIN 1

$A = .100 [2.54] \times \text{No. of Positions per row.}$   
 $B = .100 [2.54] \times \text{No. of Spaces.}$

$.180 [4.57]$   
 $.100 [2.54]$   
 $.197 [5.00]$   
 $.098 [2.50]$   
 $C$

**PH2RA**  
**SMT-DUAL ROW**  
**RIGHT ANGLE**

**PH2RA-20-UA-SMT**

**Recommended PCB Layout**

**DPH-1**

Top view dimensions: A, B, .098 [2.50], .100 [2.54], .025 [0.64] SQ.

Side view dimensions: C, D, .098 [2.50]

PCB layout dimensions: B, .100 [2.54],  $\phi .040$  [1.02]

**Recommended PCB Layout**      **DPH-1-10-U-.220/.100/.350**

**DPH-1-SMT**

Top view dimensions: A, B, .098 [2.50], .100 [2.54], .025 [0.64] SQ.

Side view dimensions: C, E, .098 [2.50], .197 [5.00]

PCB layout dimensions: B, .100 [2.54], .217 [5.50], .040 [1.00]

**Recommended PCB Layout**      **DPH-1-12-U-.200/SMT/.220-B**

**DPH-2**

Top view dimensions: A, B, .197 [5.00], .100 [2.54], .025 [0.64] SQ.

Side view dimensions: C, D, .100 [2.54], .098 [2.50]

PCB layout dimensions: B, .100 [2.54], .100 [2.54],  $\phi .040$  [1.02]

**Recommended PCB Layout**      **DPH-2-22-U-.220/.100/.350**

**DPH-2-SMT**

Top view dimensions: A, B, .197 [5.00], .100 [2.54], .025 [0.64] SQ.

Side view dimensions: C, E, .100 [2.54], .098 [2.50]

PCB layout dimensions: B, .100 [2.54], .315 [8.00], .040 [1.00], .059 [1.50]

**Recommended PCB Layout**      **DPH-2-16-U-.250/SMT/.300**

### ORDERING INFORMATION

**DPH**

**SERIES INDICATOR**  
DPH =Dual insulator  
.100" centerline

**2**

**NO. OF ROWS**  
1 = Single row  
2 = Dual row  
3 = Triple row

**20**

**POSITIONS**  
1 thru 40 (single row)  
4 thru 80 (dual row)  
3 thru 120 (triple row)

**SG**

**PLATING**  
U = Gold plated  
T = Tin plated  
SG = Gold plating in contact area, tin plating on solder tails

**.XXX"/.XXX"/.XXX"**  
(C DIM) (D DIM) (E DIM)

**SPECIFIED IN INCHES AS:**  
C DIM. / D DIM. / E DIM.  
(replace D Dim. with SMT for surface mount option)

A = .100 [2.54] x No. of Positions.  
B = .100 [2.54] x No. of Spaces.

### INTRODUCTION:

Adam Tech MS Series Mini Shunts are available in .050", 2.0mm, .100" and .200" centerlines. They quickly and easily jump individual pins on pin headers to perform manual programming on PCB's. This series offers a broad range of sizes, shapes and colors. Shunts are designed with detents at top for easy fingertip installation and removal. Options include integrated pull tabs and gang types which are molded in one piece. This series is extremely low cost and is a highly economical, cost effective solution to replacing PCB switches. Adam Tech's shunts are available in Gold or Tin plating.

### FEATURES:

Electrically connects two or more pin header posts  
Wide variety of bodies and styles to choose from  
Superior insulator design provides easy Fingertip extraction  
Pull Tab and Ganged options available  
Choice of Gold or Tin-plated contact area  
Side and end stackable

### MATING OPTIONS:

Mates with .025" sq. pin headers on .100" centers and all industry standard pin headers with .025" square post on .100" [2.54mm] centerlines.

### SPECIFICATIONS:

#### Material:

Insulator: PBT, rated UL94V-0  
Insulator Color: Black  
Contacts: Phosphor Bronze

#### Contact Plating:

G = Gold over nickel underplate overall  
T = Tin over copper underplate overall

#### Electrical:

Operating voltage: 250V AC max.  
Current rating: 3 Amps max  
Contact resistance: 20 mΩ max. initial  
Insulation resistance: 5000 MΩ min.  
Dielectric withstanding voltage: 1000V AC for 1 minute

#### Mechanical:

Insertion force: 1.57 lbs max.  
Withdrawal force: .65 lbs min  
Mating durability: 50 Cycles Gold  
20 Cycles Tin

#### Temperature Rating:

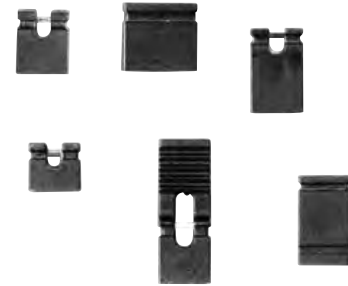
Operating temperature: -40°C to +105°C

#### PACKAGING:

Anti-ESD plastic bags

#### SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



### ORDERING INFORMATION

**MSB**

**G**

#### BODY STYLE/HEIGHT

**MSA** = Closed top, .256"  
**MSB** = Open top, .236"  
**MSC** = Open top, .177"  
**MSDA** = Closed top, .315"  
**MSDB** = Open top, .315"  
**MSBH** = Handle-top, .531"  
**HMSA** = .050" Mini Shunt (1 x 2)  
**HMSB** = .050" Mini Shunt (2 x 2)  
**HMSC** = .050" Mini Shunt, .118"

#### PLATING

**G** = Gold plated  
**T** = Tin plated

**MSE** = Closed top, 3 position  
**MST** = 10 piece strip  
**MSBG** = Ganged, block type  
(Specify # of positions, 2 thru 10)

2.00mm SHUNTS - pg. 267

#### OPTIONS:

Add designator(s) to end of part number  
30 = 30 μin gold plating in contact area

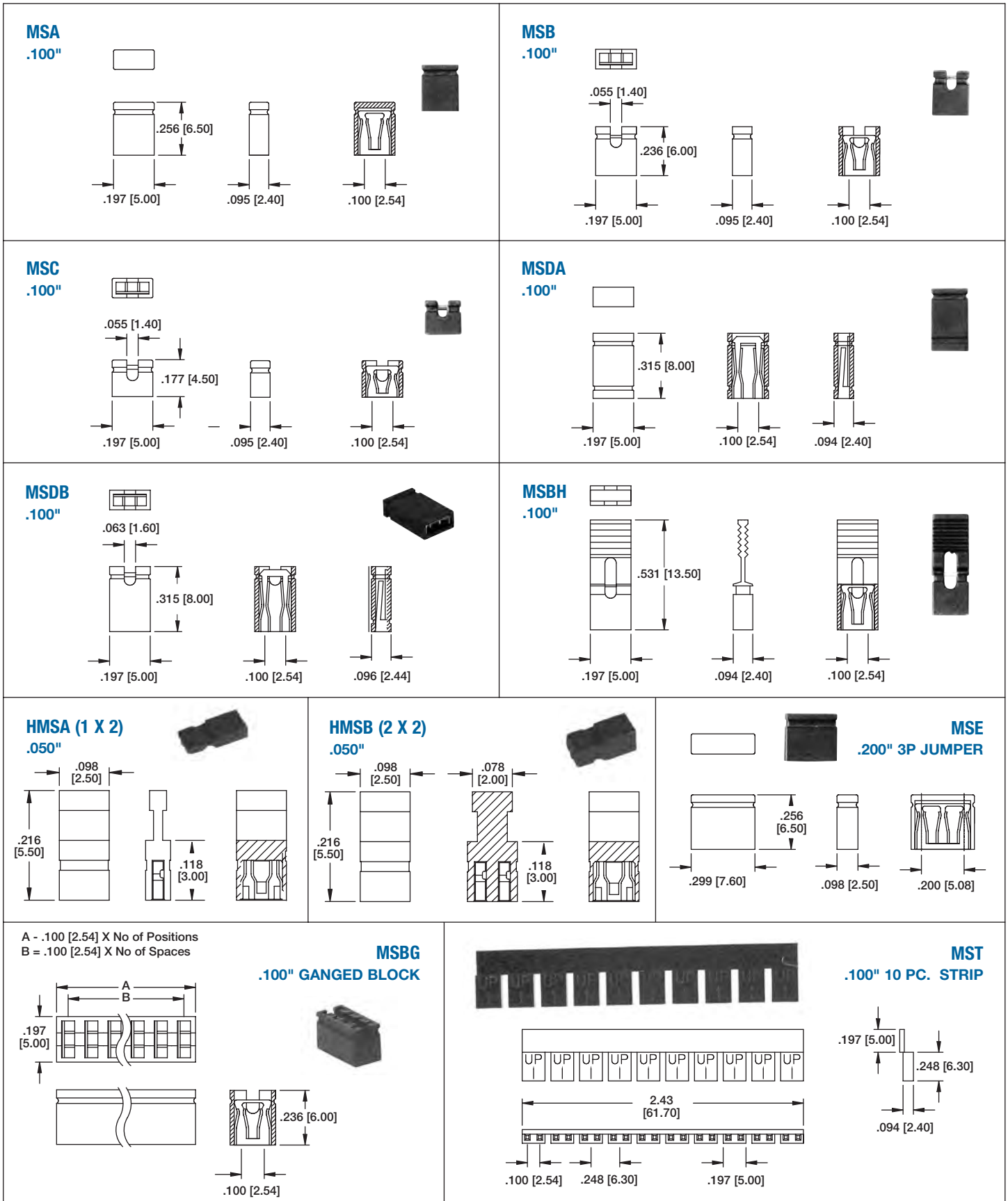
STANDARD INSULATOR COLOR IS BLACK

Other insulator colors available

Add designator(s) to end of part number

**R** = Red \*  
**B** = Blue \*  
**W** = White \*  
**Y** = Yellow \*  
**G** = Green \*

\* Minimum order required



### INTRODUCTION:

Adam Tech BHR Series .100" Box Headers are a dual row shrouded header for use with dual row IDC female socket connectors. Our low profile, space saving design has a center slot for the socket's polarization bump. Adam Tech's Box Headers are available in Straight PCB Mount, Right Angle PCB Mount and SMT Mounting. Plating options include choice of Gold, Tin or Selective Gold. SMT versions are manufactured with a Hi-Temp insulator. Additional options include latches and custom pin lengths.

### FEATURES:

- Superior low profile design
- Slot for IDC socket Polarization bump
- Straight PCB, Right Angle PCB and SMT versions
- Gold, Tin or Selective Gold plating
- Options include Elevated types and integral latches
- Hi-Temp insulator available

### MATING SOCKETS:

Adam Tech .100" X .100" dual row IDC sockets

### SPECIFICATIONS:

#### Material:

Insulator: PBT, glass reinforced, rated UL94V-0  
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0  
 Insulator Color: Black (Gray optional)  
 Contacts: Brass

#### Plating:

U = Gold over nickel underplate  
 SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.  
 T = Tin over copper underplate overall

#### Electrical:

Operating voltage: 250V AC max.  
 Current rating: 1 Amp max  
 Contact resistance: 20 mΩ max. initial  
 Insulation resistance: 5000 MΩ min.  
 Dielectric withstanding voltage: 1000V AC for 1 minute

#### Mechanical:

Mating durability: 500 cycles min.

#### Temperature Rating:

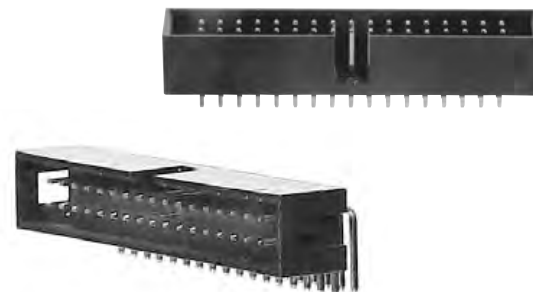
Operating temperature: -40°C to +105°C

#### PACKAGING:

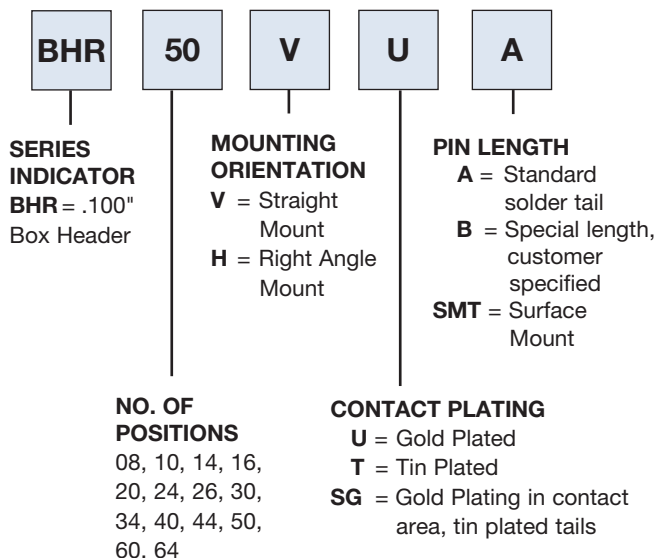
Anti-ESD plastic trays

#### SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



### ORDERING INFORMATION



### OPTIONS:

Add designator(s) to end of part number  
**LL** = Box header with long plastic latches  
**SL** = Box header with short plastic latches  
**ML** = Box header with long metal latches  
**MS** = Box header with short metal latches  
**30** = 30 μin gold plating in contact area  
**GY** = Gray color insulator  
**HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only.  
 All SMT products are manufactured with Hi-Temp insulators)





A = .100 [2.54] X No. of Positions /2 + .300 [7.62]  
 B = .100 [2.54] X No. of Positions /2 + .200 [5.08]  
 C = .100 [2.54] X No. of Spaces

**BHR**  
STRAIGHT PCB MOUNT

**BHR-34-VUA**

**Recommended PCB Layout**

A = .100 [2.54] X No. of Positions /2 + .300 [7.62]  
 B = .100 [2.54] X No. of Positions /2 + .200 [5.08]  
 C = .100 [2.54] X No. of Spaces

**BHR**  
RIGHT ANGLE PCB MOUNT

**BHR-34-HUA**

**Recommended PCB Layout**

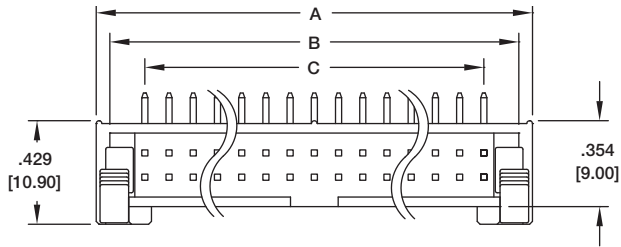
A = .100 [2.54] X No. of Positions /2 + .300 [7.62]  
 B = .100 [2.54] X No. of Positions /2 + .200 [5.08]  
 C = .100 [2.54] X No. of Spaces

**BHR**  
SURFACE MOUNT

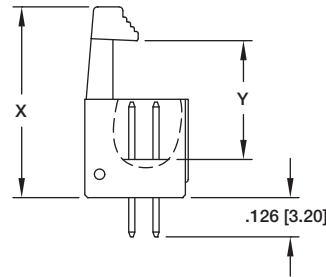
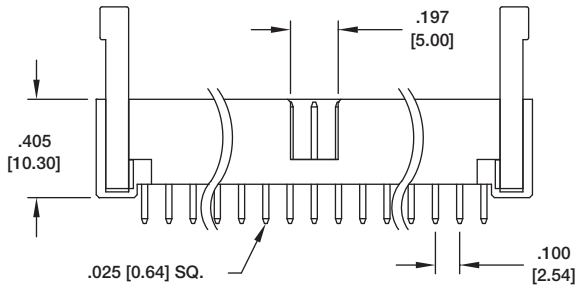
**BHR-30-VSG-SMT**

**Recommended PCB Layout**

### BHR STRAIGHT MOUNT BOX HEADER WITH LATCHES

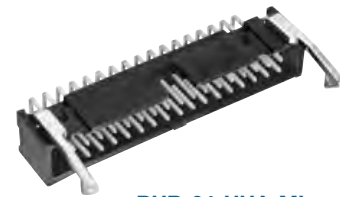
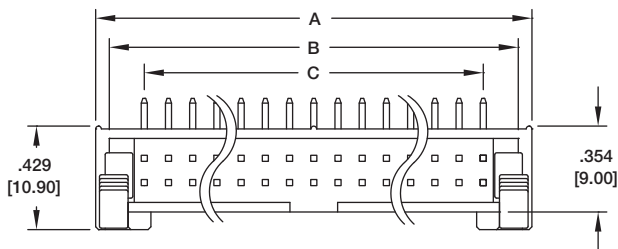


**BHR-34-VUA-ML**

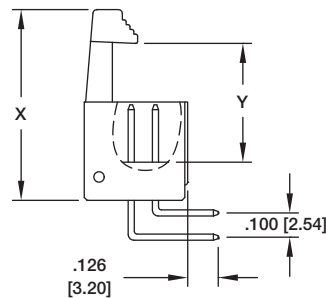
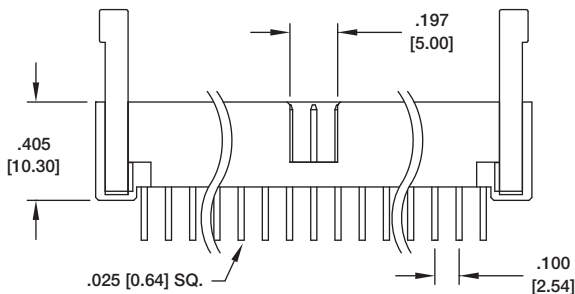


$A = .100 [2.54] \times \text{No. of Positions} / 2 + .301 [7.66]$   
 $B = .100 [2.54] \times \text{No. of Positions} / 2 + .189 [4.80]$   
 $C = .100 [2.54] \times \text{No. of Positions} / 2 - 1$

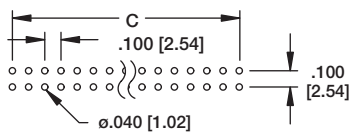
### BHR RIGHT ANGLE MOUNT BOX HEADER WITH LATCHES



**BHR-34-HUA-ML**



$A = .100 [2.54] \times \text{No. of Positions} / 2 + .301 [7.66]$   
 $B = .100 [2.54] \times \text{No. of Positions} / 2 + .189 [4.80]$   
 $C = .100 [2.54] \times \text{No. of Positions} / 2 - 1$



**Recommended PCB Layout**

LATCH TYPE	DIMENSIONS	
	X	Y
LONG LATCH (-ML)	1.035 [26.30]	.575 [14.60]
SHORT LATCH (-MS)	.901 [22.90]	.417 [10.60]

### INTRODUCTION:

Adam Tech BHRE Series Elevated Box Headers provide all of the advantages of our standard Box Headers such as our Low Profile design, snug fit & polarized mating but have additional plastic insulators in place to stabilize rows of pins for stacking applications. This series is available in Straight, Right Angle & SMT mounting with standard or customer specified Stacking Heights and PCB tail lengths.

### FEATURES:

Elevated for Stacking applications  
 Low Profile design  
 Straight, Right Angle & SMT mounting options  
 Standard or customer specified Stacking Heights & PCB tail lengths

### MATING SOCKETS:

Adam Tech .100" X .100" dual row IDC sockets

### SPECIFICATIONS:

#### Material:

Insulator: PBT, glass reinforced, rated UL94V-0  
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0  
 Insulator Color: Black (Gray optional)  
 Contacts: Brass

#### Plating:

U = Gold over nickel underplate  
 SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.  
 T = Tin over copper underplate overall

#### Electrical:

Operating voltage: 250V AC max.  
 Current rating: 1 Amp max  
 Contact resistance: 20 mΩmax. initial  
 Insulation resistance: 5000 MΩmin.  
 Dielectric withstanding voltage: 1000V AC for 1 minute

#### Mechanical:

Mating durability: 500 cycles min.

#### Temperature Rating:

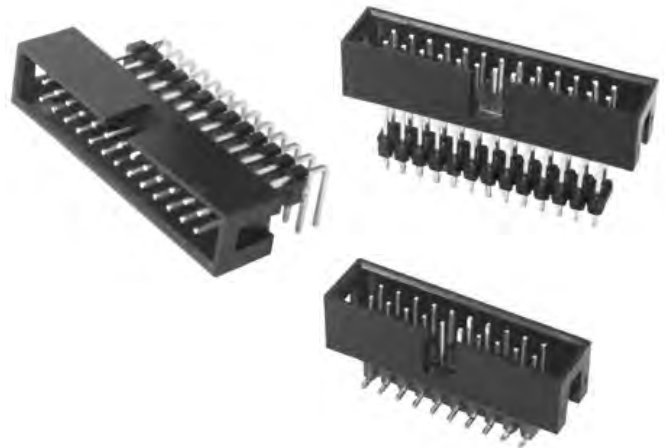
Operating temperature: -40°C to +105°C

#### PACKAGING:

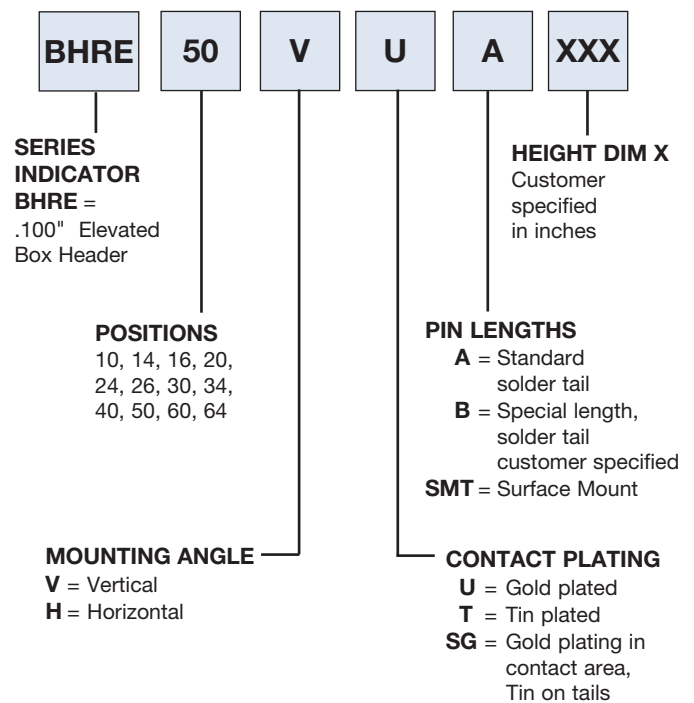
Anti-ESD plastic trays

#### SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



### ORDERING INFORMATION



### OPTIONS:

Add designator(s) to end of part number

**30** = 30u" Gold on contact area

**GY** = Gray color insulator

**HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)



$A = .100 [2.54] \times \text{No. of Positions} / 2 + .300 [7.62]$   
 $B = .100 [2.54] \times \text{No. of Positions} / 2 + .200 [5.08]$   
 $C = .100 [2.54] \times \text{No. of Spaces}$

**BHRE**  
**ELEVATED STRAIGHT**  
**PCB MOUNT**

**BHRE-26-VUA-.477**

$A = .100 [2.54] \times \text{No. of Positions} / 2 + .300 [7.62]$   
 $B = .100 [2.54] \times \text{No. of Positions} / 2 + .200 [5.08]$   
 $C = .100 [2.54] \times \text{No. of Spaces}$

**BHRE**  
**ELEVATED RIGHT ANGLE**  
**PCB MOUNT**

**BHRE-26-HUA-.477**

$A = .100 [2.54] \times \text{No. of Positions} / 2 + .300 [7.62]$   
 $B = .100 [2.54] \times \text{No. of Positions} / 2 + .200 [5.08]$   
 $C = .100 [2.54] \times \text{No. of Spaces}$

**BHRE**  
**ELEVATED SMT**

**BHRE-20-VU-SMT-.477**

### INTRODUCTION:

Adam Tech MHR Series .100" pitch Latch Headers are dual row, PCB mounted, shrouded headers with latches for use with dual row IDC female socket connectors. In addition to providing a shock and vibration proof connection the locking latches also act as ejectors to remove the mating socket. Our low profile, space saving design has a center slot for the socket's polarization bump. Adam Tech's Latch Headers are available in Straight PCB Mount, Right Angle PCB and SMT Mounting. Plating options include choice of Gold, Tin or Selective Gold

### FEATURES:

Integral Latches provide Shock and Vibration Proof connection  
Slot for IDC socket Polarization bump  
Straight PCB, Right Angle PCB and SMT versions  
Gold, Tin or Selective Gold plating  
Elevated option available  
Hi-Temp insulator available

### MATING SOCKETS:

.100" X .100" Dual row IDC sockets

### SPECIFICATIONS:

#### Material:

Insulator: PBT, glass reinforced, rated UL94V-0  
Insulator Color: Black (Gray optional)  
Contacts: Brass

#### Plating:

U = Gold over nickel underplate overall  
SG = Gold over nickel on contact area,  
Tin over copper underplate on tails.  
T = Tin over copper underplate overall

#### Electrical:

Operating voltage: 250V AC max.  
Current rating: 3 Amps max  
Contact resistance: 20 mΩ max. initial  
Insulation resistance: 5000 MΩ min.  
Dielectric withstanding voltage: 1000V AC for 1 minute

#### Mechanical:

Mating durability: 500 Cycles min.

#### Temperature Rating:

Operating temperature: -40°C to +105°C

#### PACKAGING:

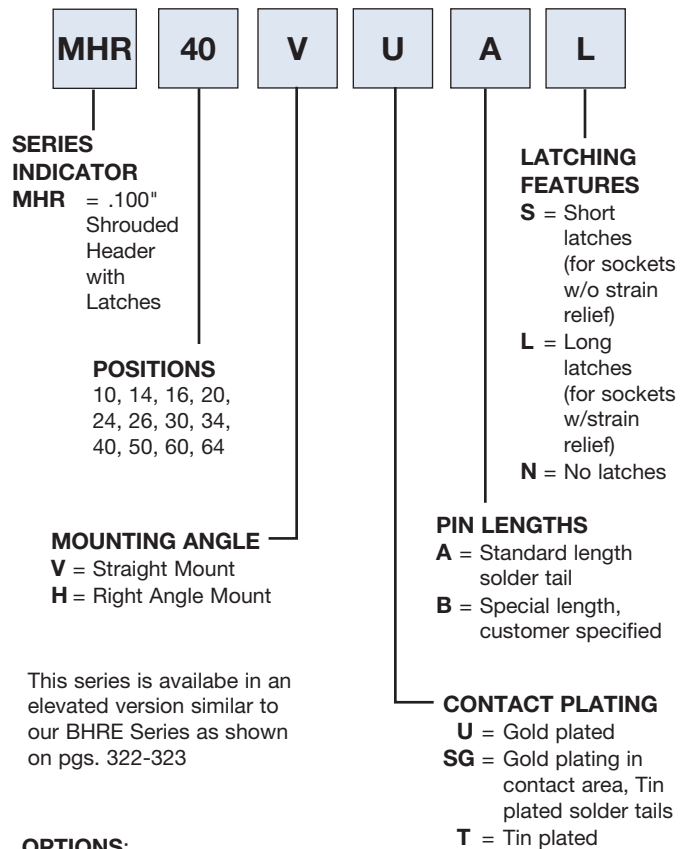
Anti-ESD plastic trays

#### SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



### ORDERING INFORMATION



This series is available in an elevated version similar to our BHRE Series as shown on pgs. 322-323

#### OPTIONS:

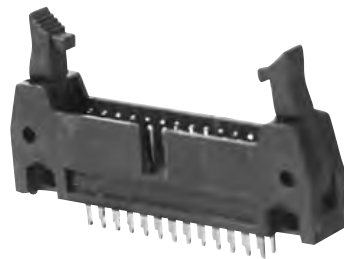
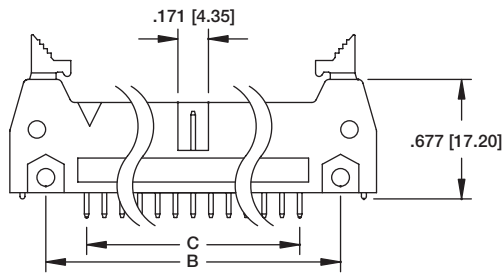
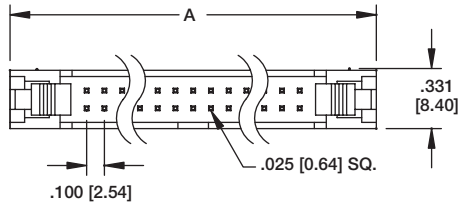
Add designator(s) to end of part number

GY = Gray color insulator

HT = High-temp insulator for high-temp soldering processes



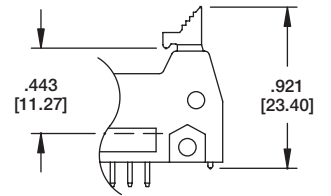
A = .100 [2.54] x No. of Spaces + .860 [21.84]  
 B = .100 [2.54] x No. of Spaces + .460 [11.68]  
 C = .100 [2.54] x No. of Spaces



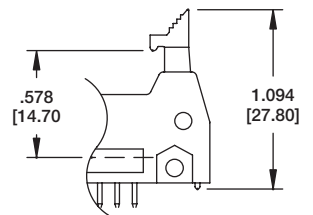
MHR-26-VUAL

**MHR  
STRAIGHT PCB  
MOUNT**

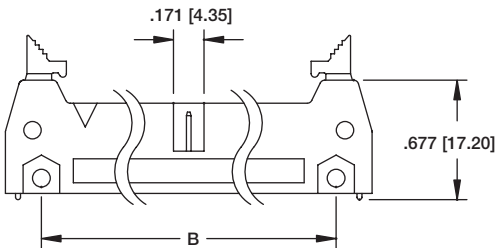
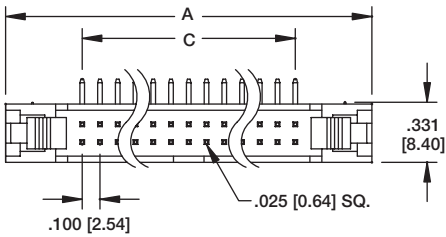
**Latch Options**



Header with Short Ejector/Latch for Sockets without Strain Reliefs



Header with Long Ejector/Latch for Sockets with Strain Reliefs

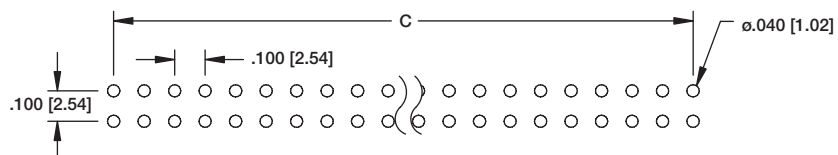
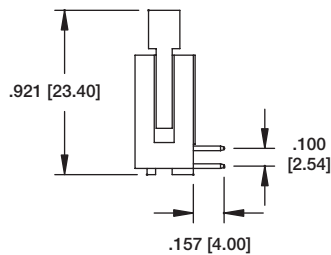


A = .100 [2.54] x No. of Spaces + .860 [21.84]  
 B = .100 [2.54] x No. of Spaces + .460 [11.68]  
 C = .100 [2.54] x No. of Spaces



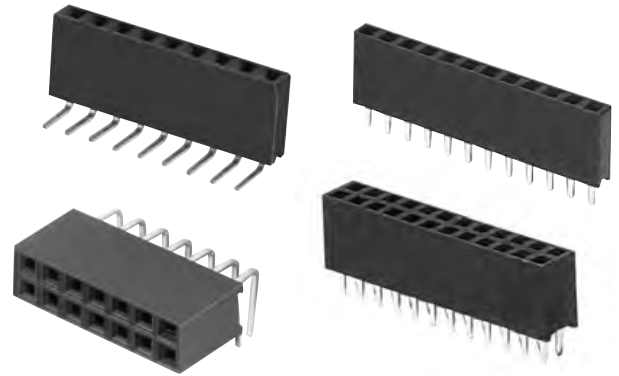
MHR-26-HUAL

**MHR  
RIGHT ANGLE PCB  
MOUNT**



Recommended PCB Layout





#### INTRODUCTION:

Adam Tech RS Series .100" pitch Receptacle Strips are a series of sockets offered in a multitude of sizes and profiles designed to satisfy most .100" pitch socket requirements. Available in Single, Dual and Triple row, they are offered in Straight, Right Angle, SMT, Bottom Entry and Pass Through PCB mounting styles. Each type has a specially designed contact system which uses a wiping mating action and produces a high normal force connection with gold, tin or selective gold plating. All are available with Standard or Hi-Temp Thermoplastic insulators. Our SMT offering is available with optional pick and place pads and tape & reel packaging.

#### FEATURES:

- Broad range of sizes and profiles
- Contact systems with high normal force
- Choice of contact plating
- SMT pick & place option
- Optional Tape & reel packaging

#### MATING CONNECTORS:

Adam Tech PH series .100" pitch pin headers and all industry standard pin headers with a .025" (0.64mm) square pin.

#### SPECIFICATIONS:

##### Material:

Insulator: PBT, glass reinforced, rated UL94V-0  
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0  
 Insulator Color: Black  
 Contacts: Phosphor Bronze

##### Contact Plating:

G = Gold over nickel underplate overall  
 SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.  
 T = Tin over copper underplate overall

##### Electrical:

Operating voltage: 250V AC max.  
 Current rating: 3 Amps max.  
 Contact resistance: 20 mΩ max. initial  
 Insulation resistance: 5000 MΩ min.  
 Dielectric withstanding voltage: 1000V AC for 1 minute

##### Mechanical:

Insertion force: 0.375 lbs per contact max.  
 Withdrawal force: 0.125 lbs per contact min.

##### Temperature Rating:

Operating temperature: -40°C to +105°C

##### PACKAGING:

Anti-ESD plastic trays  
 (Tape and Reel optional for SMT option)

##### SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



#### ORDERING INFORMATION

RS1

12

G

#### SERIES INDICATOR

- RS1** = Single row vertical mount receptacle
- RS1R** = Single row right angle mount receptacle
- RS2** = Dual row vertical mount receptacle
- RS2R** = Dual row right angle mount receptacle
- RSB** = Dual row straight PCB mount with polarization bump and keyed corner contacts
- RSBR** = Dual row right angle PCB mount with polarization bump and keyed corner contacts
- RSE1** = Single row elevated receptacle
- RSE2** = Dual row elevated receptacle
- RSM1** = Single row surface mount
- RSM2** = Dual row surface mount

#### PLATING

- G** = Gold plated
- T** = Tin plated
- SG** = Gold plating in contact area, Tin Plated solder tails

#### POSITIONS

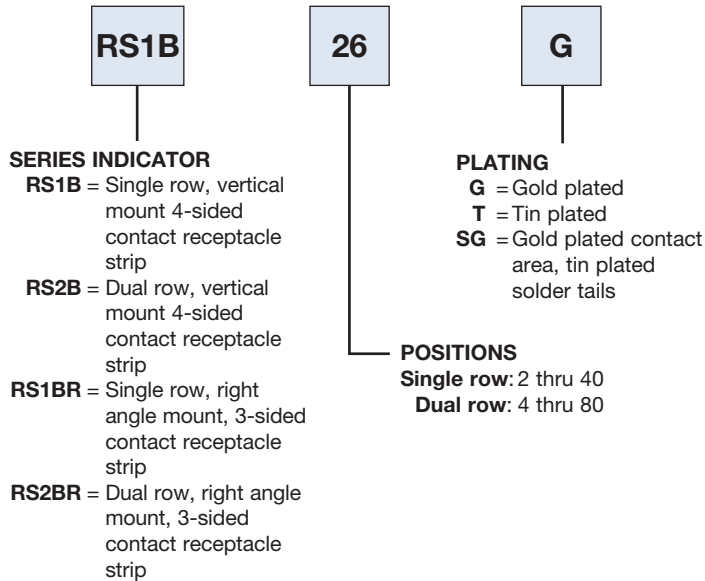
Single row: 1 thru 40  
 Dual row: 2 thru 80

#### OPTIONS:

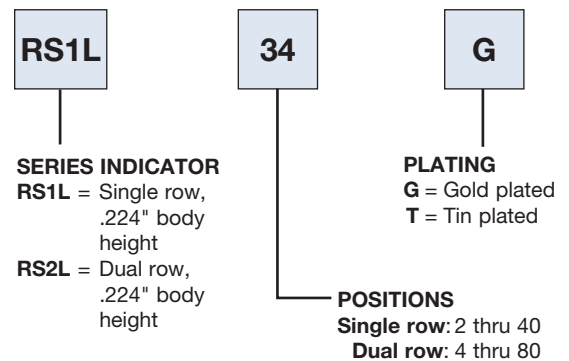
- Add designator(s) to end of part number
- SMT** = SMT Dual row with Hi-Temp insulator
- SMT-A** = SMT Single Row Type A with Hi-Temp insulator
- SMT-B** = SMT Single Row Type B with Hi-Temp insulator
- 30** = 30 μin gold plating in contact area
- P** = Optional guide peg on SMT version
- HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)



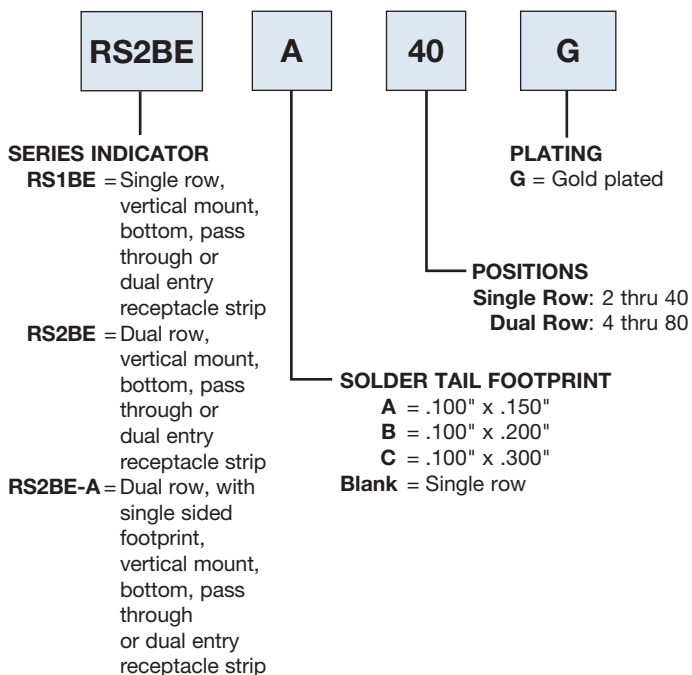
### RECEPTACLE STRIPS FOUR SIDED CONTACT PAGE 293, 294 & 298



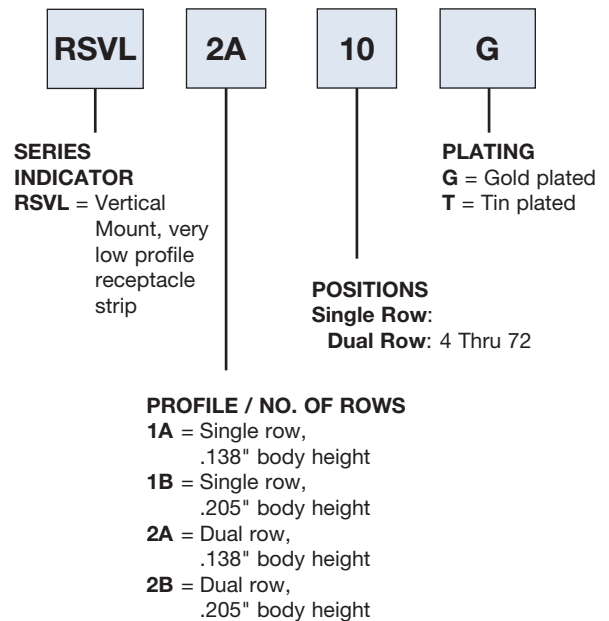
### RECEPTACLE STRIPS LOW PROFILE PAGE 297



### RECEPTACLE STRIPS BOTTOM, PASS THROUGH OR DUAL ENTRY



### RECEPTACLE STRIPS VERY LOW PROFILE PAGE 292



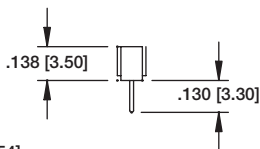
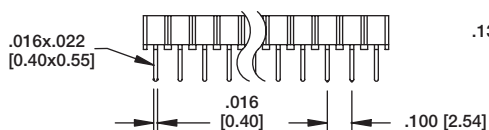
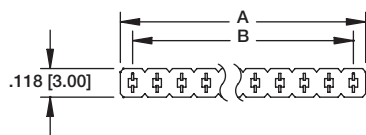
#### OPTIONS:

Add designator(s) to end of part number

**A** = Type A PCB Layout

**B** = Type B PCB Layout

Ordering Information pg. 291

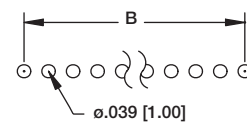


A = .100 [2.54] X No. of Positions  
B = .100 [2.54] X No. of Spaces

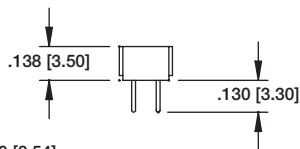
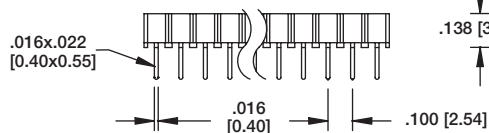
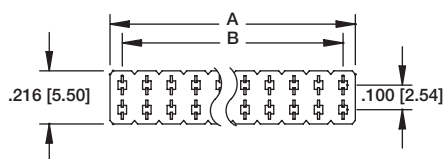


**RSVL-1A**

**RSVL-1A-18-G**



Recommended PCB Layout

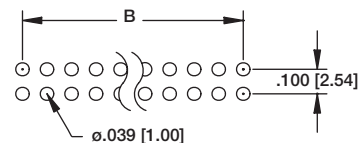


A = .100 [2.54] X No. of Positions Per Row  
B = .100 [2.54] X No. of Spaces

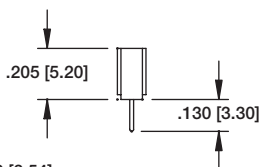
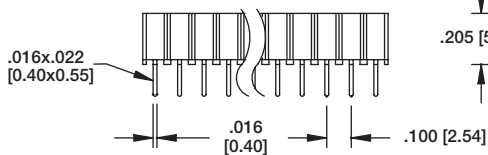
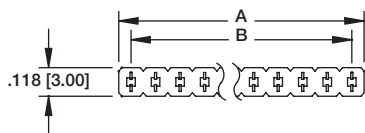


**RSVL-2A**

**RSVL-2A-38-G**



Recommended PCB Layout

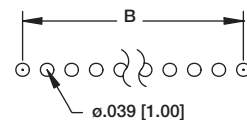


A = .100 [2.54] X No. of Positions  
B = .100 [2.54] X No. of Spaces

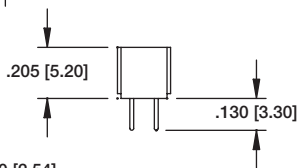
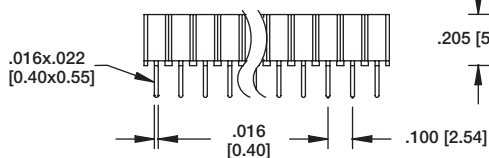
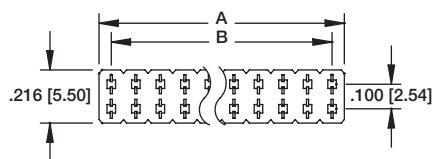


**RSVL-1B**

**RSVL-1B-18-G**



Recommended PCB Layout

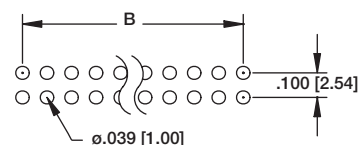


A = .100 [2.54] X No. of Positions Per Row  
B = .100 [2.54] X No. of Spaces



**RSVL-2B**

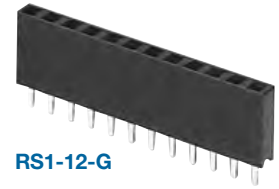
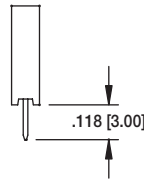
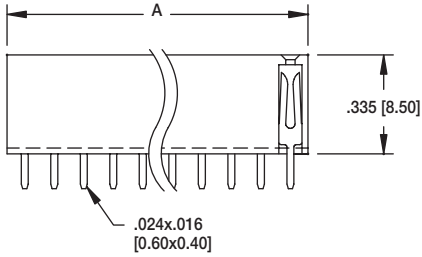
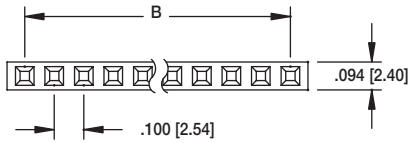
**RSVL-2B-36-G**



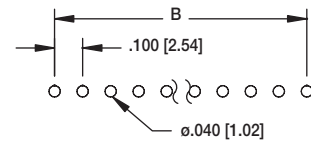
Recommended PCB Layout

Ordering Information pg. 290

RS1



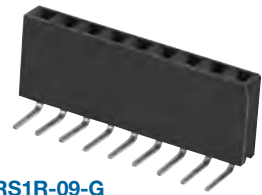
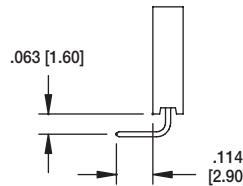
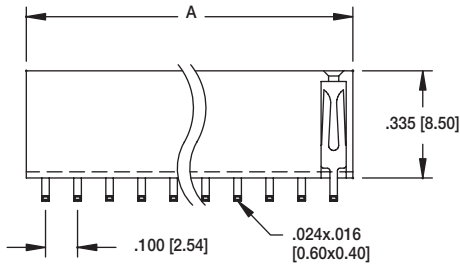
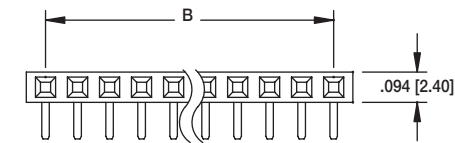
RS1-12-G



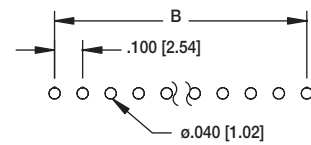
Recommended PCB Layout

A = .100 [2.54] X No. of Positions +.020 [0.50]  
B = .100 [2.54] X No. of Spaces

RS1R



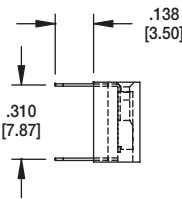
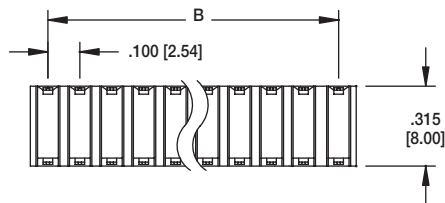
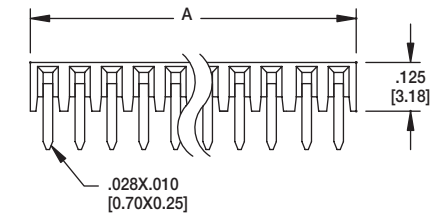
RS1R-09-G



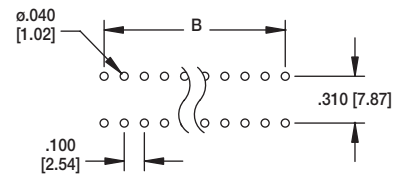
Recommended PCB Layout

A = .100 [2.54] X No. of Positions +.020 [0.50]  
B = .100 [2.54] X No. of Spaces

RS1BR



RS1BR-13-G

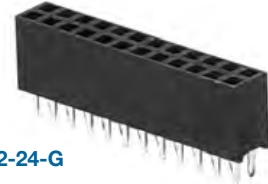
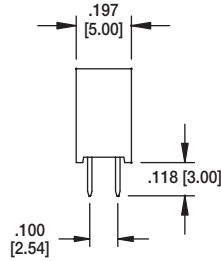
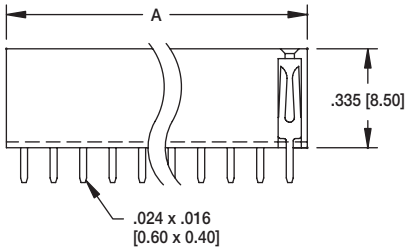
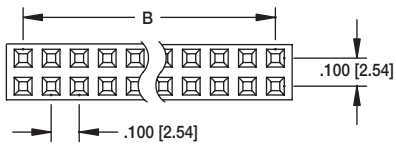


Recommended PCB Layout

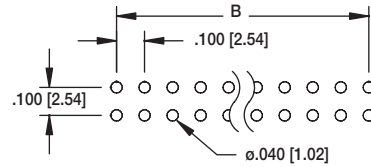
A = .100 [2.54] X No. of Positions  
B = .100 [2.54] X No. of Spaces

Ordering Information pg. 290-291

RS2



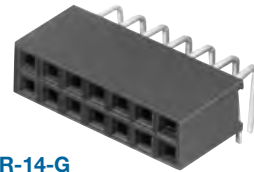
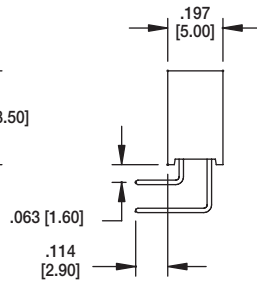
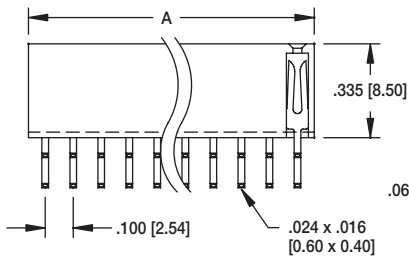
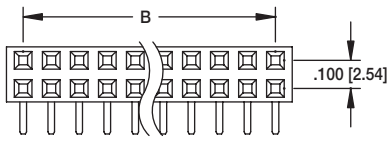
RS2-24-G



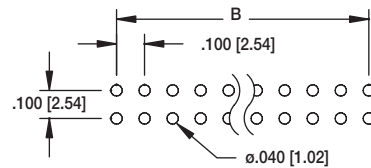
Recommended PCB Layout

A = .100 [2.54] x No. of Positions per row +.020 [0.50]  
B = .100 [2.54] x No. of Spaces

RS2R



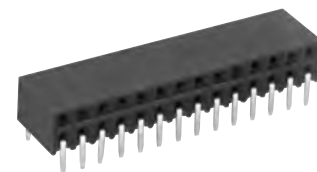
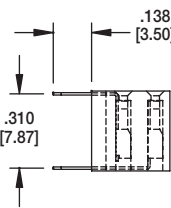
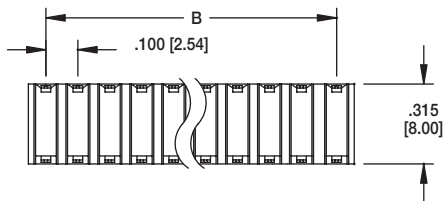
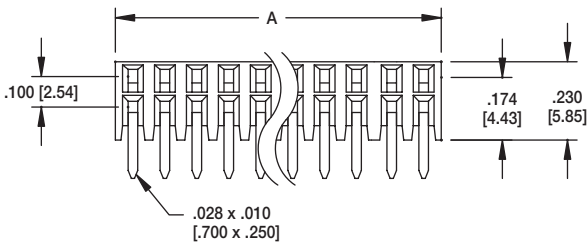
RS2R-14-G



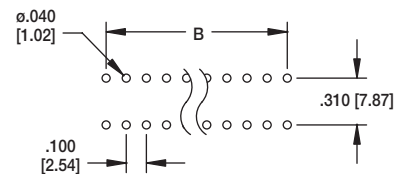
Recommended PCB Layout

A = .100 [2.54] x No. of Positions per row +.020 [0.50]  
B = .100 [2.54] x No. of Spaces

RS2BR



RS2BR-28-G

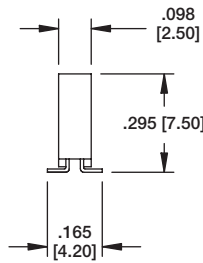
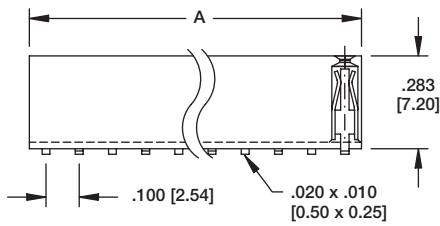
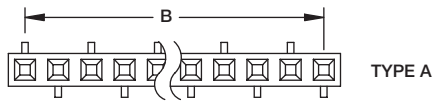
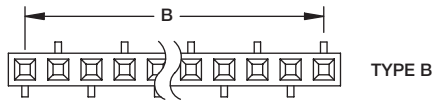


Recommended PCB Layout

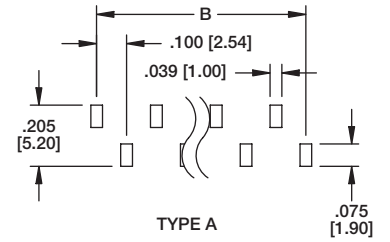
A = .100 [2.54] x No. of Positions per row  
B = .100 [2.54] x No. of Spaces

Ordering Information pg. 290

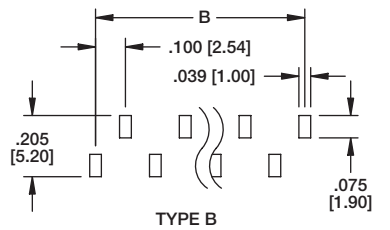
RSM1



RSM1-10-SG-SMT-A



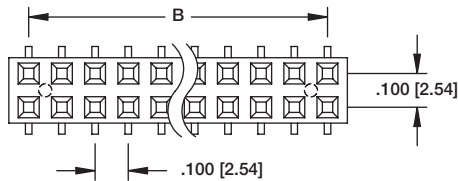
Recommended PCB Layout



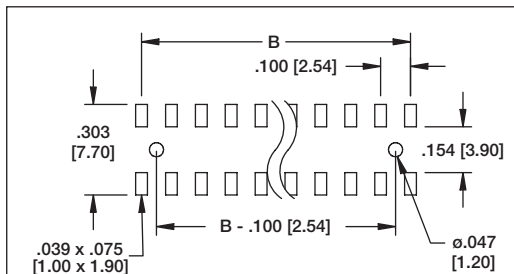
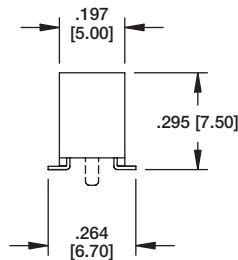
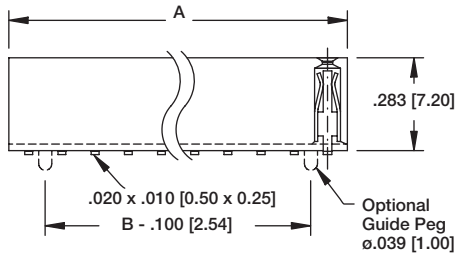
Recommended PCB Layout

A = .100 [2.54] x No. of Positions  
B = .100 [2.54] x No. of Spaces

RSM2



RSM2-20-SG-SMT

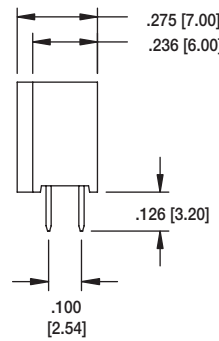
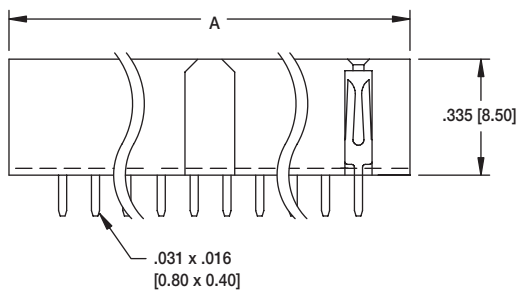
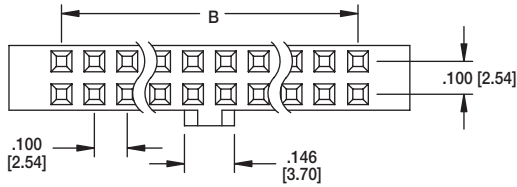


Recommended PCB Layout

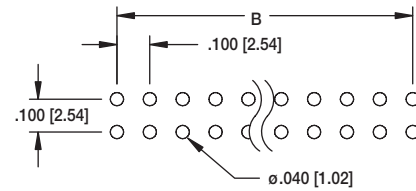
A = .100 [2.54] x No. of Positions per row  
B = .100 [2.54] x No. of Spaces

Ordering Information pg. 290

RSB



RSB-36-G

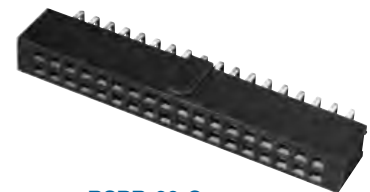
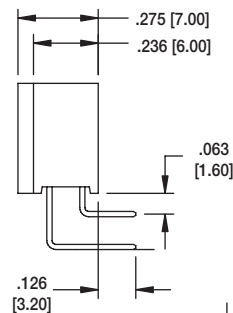
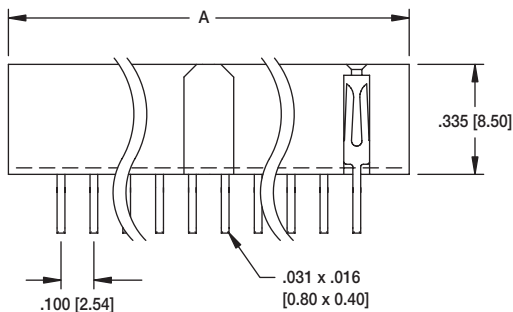
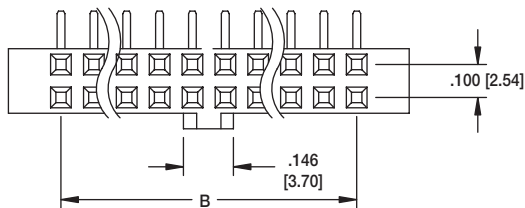


Recommended PCB Layout

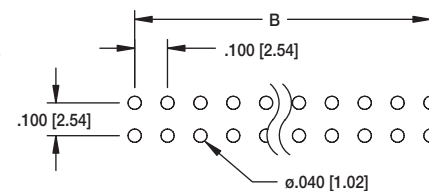
A = .100 [2.54] X No. of Positions + .300 [7.62]

B = .100 [2.54] X No. of Spaces

RSBR



RSBR-36-G



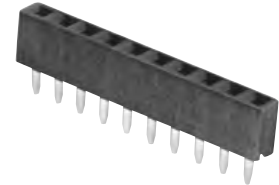
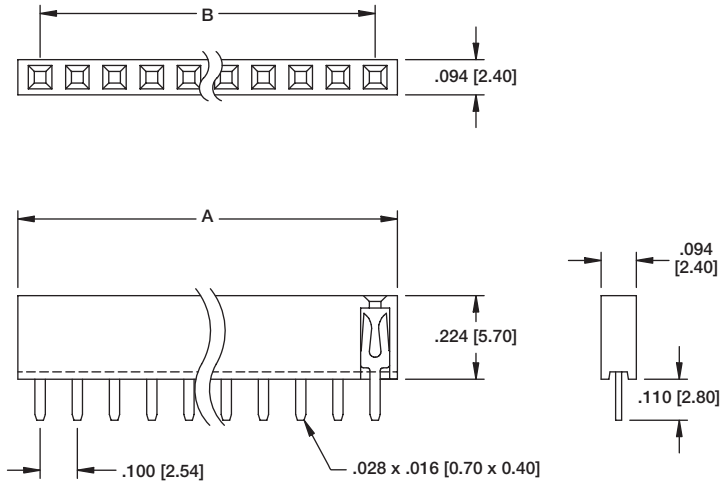
Recommended PCB Layout

A = .100 [2.54] x No. of Positions + .300 [7.62]

B = .100 [2.54] x No. of Spaces

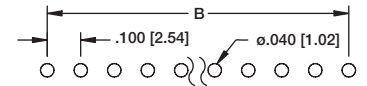
Ordering Information pg. 291

RS1L



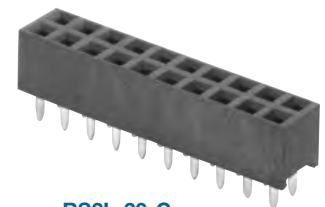
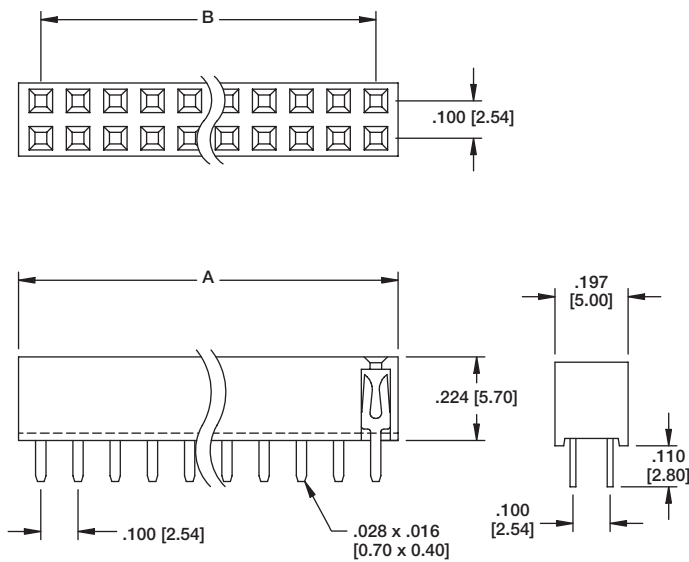
RS1L-10-G

A = .100 [2.54] x No. of Positions  
 B = .100 [2.54] x No. of Spaces



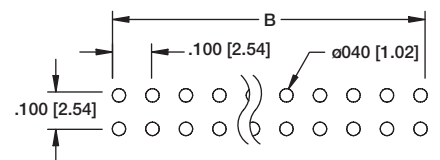
Recommended PCB Layout

RS2L



RS2L-20-G

A = .100 [2.54] x No. of Positions per row  
 B = .100 [2.54] x No. of Spaces

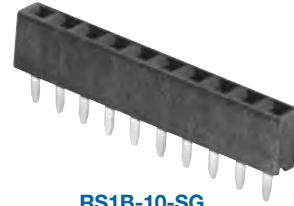
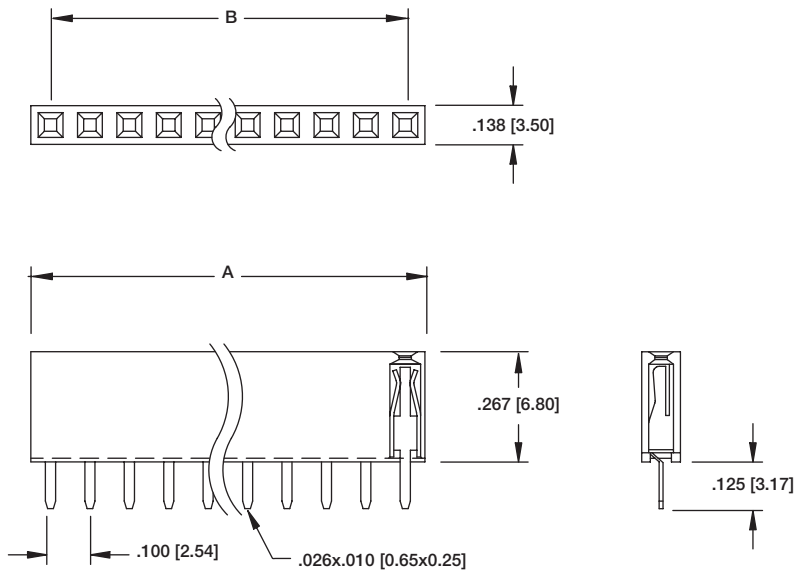


Recommended PCB Layout



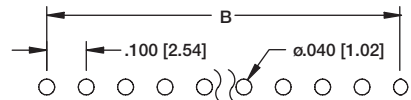
Ordering Information pg. 291

RS1B



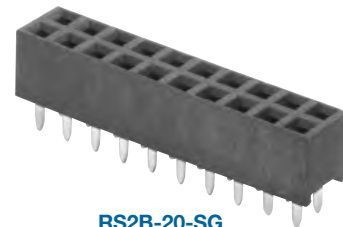
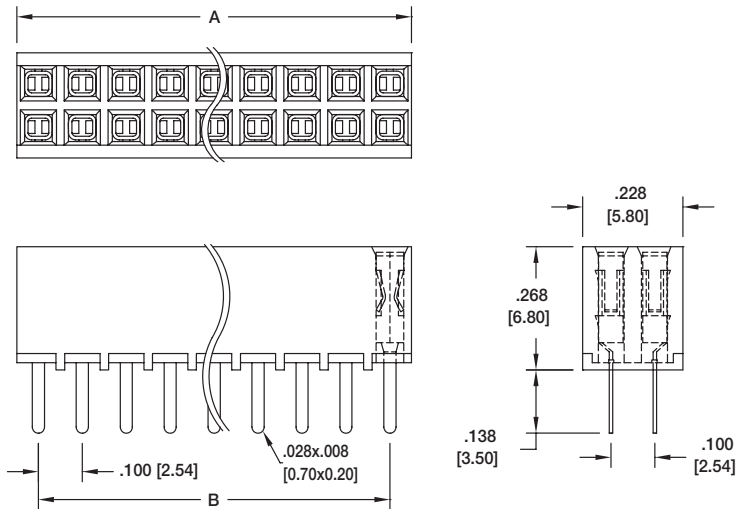
RS1B-10-SG

A = .100 [2.54] X No. of Positions  
 B = .100 [2.54] X No. of Spaces



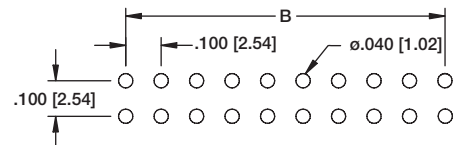
Recommended PCB Layout

RS2B



RS2B-20-SG

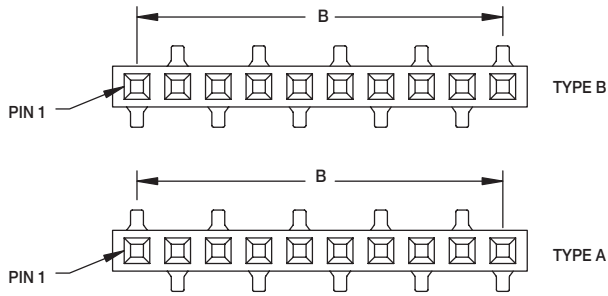
A = .100 [2.54] X No. of Positions per row  
 B = .100 [2.54] X No. of Spaces



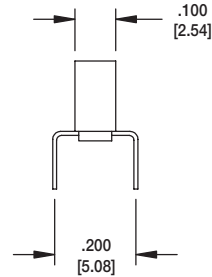
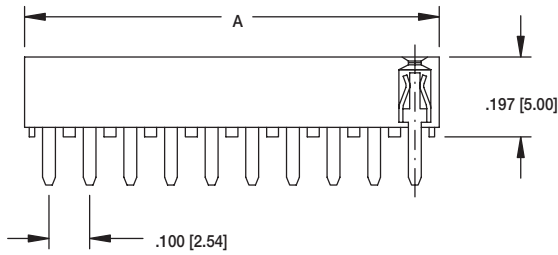
Recommended PCB Layout

Ordering Information pg. 291

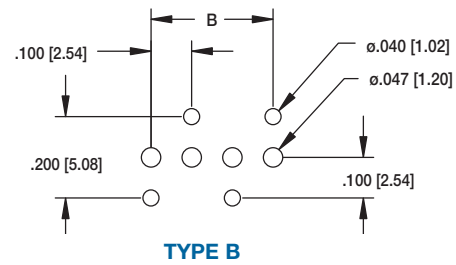
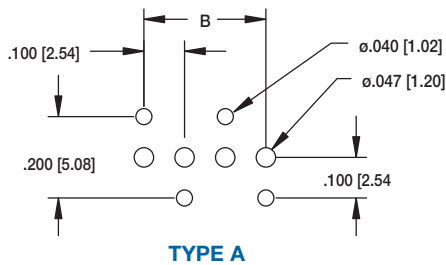
RS1BE-A/B



RS1BE-B-10-SG-A

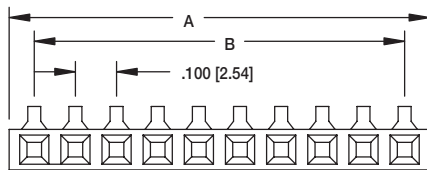


A = .100 [2.54] X No. of Positions  
B = .100 [2.54] X No. of Spaces



Recommended PCB Layouts

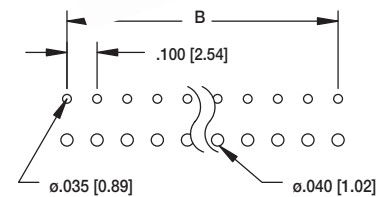
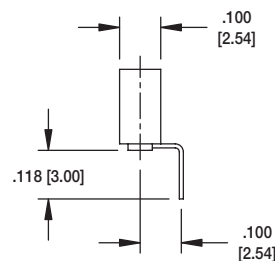
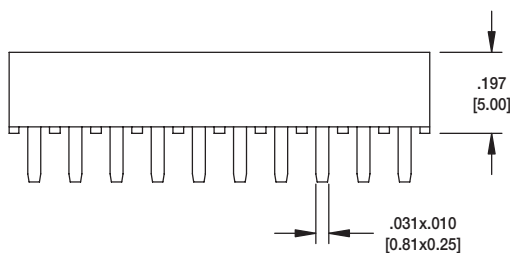
RS1BE



A = .100 [2.54] X No. of Positions  
B = .100 [2.54] X No. of Spaces



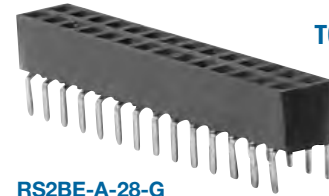
RS1BE-10-SG



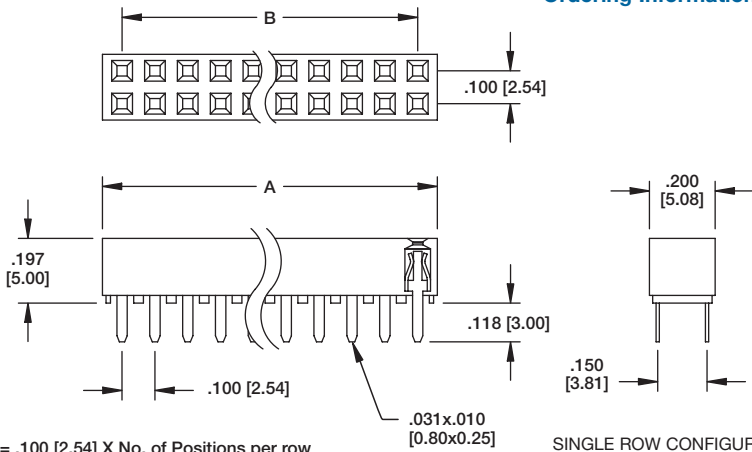
Recommended PCB Layout

Ordering Information pg. 291

**RS2BE-A  
TOP ENTRY**

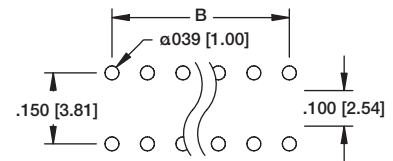


**RS2BE-A-28-G**



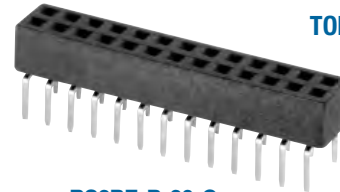
A = .100 [2.54] X No. of Positions per row  
B = .100 [2.54] X No. of Spaces

SINGLE ROW CONFIGURATION  
ALSO AVAILABLE

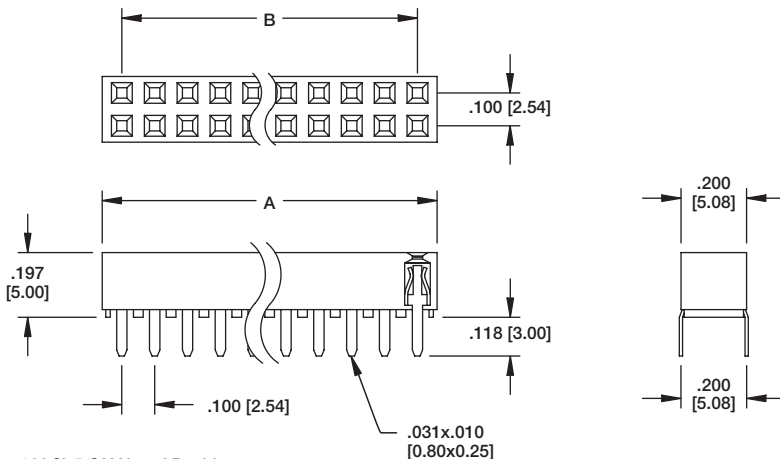


**Recommended PCB Layout**

**RS2BE-B  
TOP OR BOTTOM  
ENTRY**

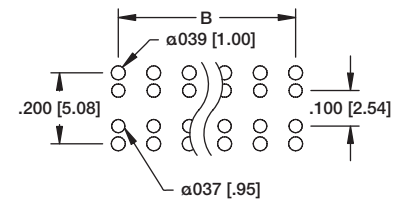


**RS2BE-B-26-G**



A = .100 [2.54] X No. of Positions per row  
B = .100 [2.54] X No. of Spaces

SINGLE ROW CONFIGURATION  
ALSO AVAILABLE

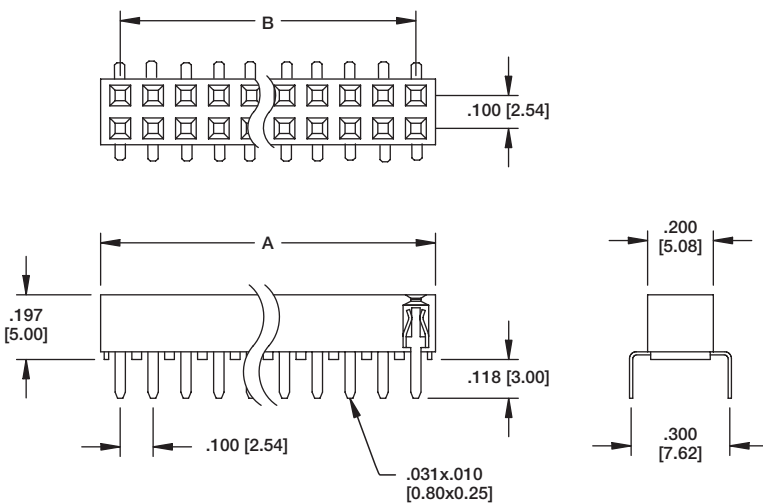


**Recommended PCB Layout**

**RS2BE-C  
TOP OR  
BOTTOM ENTRY**

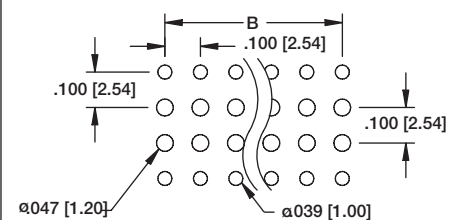


**RS2BE-C-30-G**



A = .100 [2.54] X No. of Positions per row  
B = .100 [2.54] X No. of Spaces

SINGLE ROW CONFIGURATION  
ALSO AVAILABLE



**Recommended PCB Layout**

A = .100" [2.54] x No. of positions  
B = .100" [2.54] x No. of spaces

**RSE1**

**RSE1-3-20-SG-3**

**Recommended PCB Layout**

A = .100" [2.54] x No. of positions per row  
B = .100" [2.54] x No. of spaces

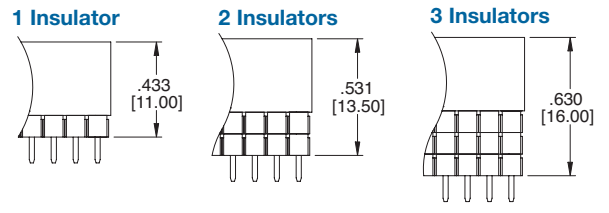
**RSE2**

**RSE2-3-40-SG-3**

**Recommended PCB Layout**

### ORDERING INFORMATION

<b>RSE1</b>	<b>2</b>	<b>20</b>	<b>SG</b>	<b>1</b>
<b>SERIES INDICATOR</b> RSE1 = Single row, vertical elevated socket strip RSE2 = Dual row, vertical elevated socket strip	<b>POSITIONS</b> Single Row 01 thru 40 Dual Row 02 thru 80	<b>HEIGHT</b> 1 = .433 [11.00] 2 = .531 [13.50] 3 = .630 [16.00]	<b>PLATING</b> SG = Selective Gold Plating in contact area, Tin Plated tails T = Tin Plated	<b>PIN LENGTH</b> Dim. D See chart Dim.D



PART NUMBER	INSULATORS	DIM. C	DIM. D
RSEX-1-XX-SG-1	1	.433 [11.00]	.118 [3.00]
RSEX-1-XX-SG-2	1	.433 [11.00]	.315 [8.00]
RSEX-1-XX-SG-3	1	.433 [11.00]	.448 [11.40]
RSEX-2-XX-SG-1	2	.531 [13.50]	.216 [5.50]
RSEX-3-XX-SG-1	3	.635 [16.12]	.118 [3.00]
RSEX-3-XX-SG-2	3	.635 [16.12]	.252 [6.40]

\*Replace "X" with "1" for single row or "2" for double row.  
\*Replace "XX" with total number of positions.

## .100" & .156" RECEPTACLE WITH BOARD HOOKS

.100" & .156" CENTERLINE  
PCE SERIES

### INTRODUCTION:

Adam Tech PCE & PCD Series receptacles are PCB mounted sockets that have integral PC Board hooks which wrap around the edge of the PCB for added stability. They are made with three mounting and mating configurations which include Top, Bottom & Side entry. Offered in pitches of .100" & .156" they contain a high reliability contact system that offers superior connectivity through a set of long, wide, precision stamped contacts which provide ample contact pressure with a smooth wiping action.

### FEATURES:

- .100" & .156" Centerlines
- Hooks for stability to PCB
- High normal force contacts
- Low insertion force
- Three mounting orientation options

### MATING HEADERS:

Adam Tech PH & LHB headers and all industry standard .100" and .156" pitch pin headers with a .025" or .045" square or round pins

### SPECIFICATIONS:

#### Material:

Insulator: Nylon 66, rated UL94V-0  
Insulator Color: Natural  
Contacts: Phosphor Bronze

#### Contact Plating:

Tin over copper underplate overall

#### Electrical:

Operating voltage: 250V AC max.  
Current rating: .100 pitch: 3 Amp max.  
.156 pitch: 7 Amps max.  
Contact resistance: 10 mΩ max. Initial  
Insulation resistance: 1000 MΩ min.  
Dielectric withstanding voltage: 1500V AC for 1 minute

#### Mechanical:

Insertion force: 0.375 lbs max  
Withdrawal force: 0.187 lbs min.  
Recommended PCB Thickness: 0.063" (1.6mm)

#### Temperature Rating:

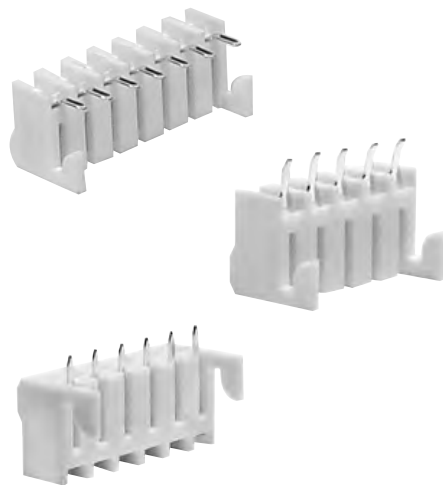
Operating temperature: -40°C to +105°C

#### PACKAGING:

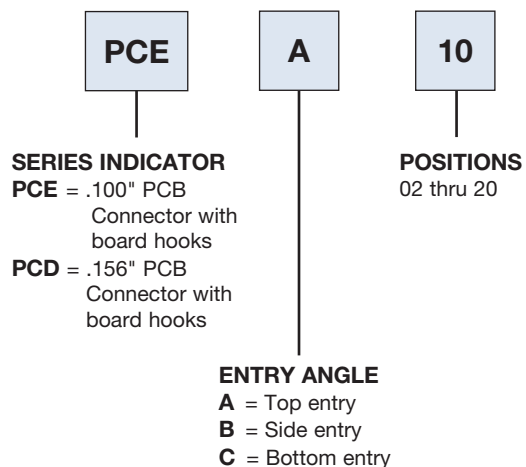
Anti-ESD plastic trays

#### SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



### ORDERING INFORMATION



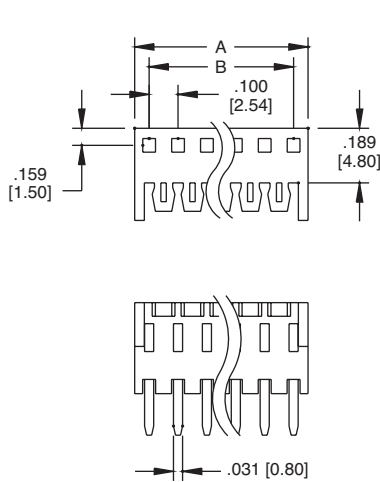
### OPTIONS

Add designator(s) to end of part number

NH = No Board hooks



## PCE-A



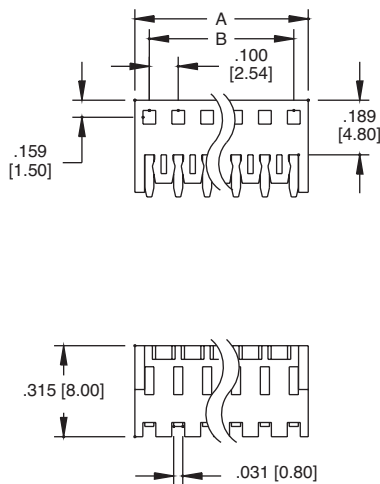
**Recommended PCB Layout**



**TOP ENTRY  
PCE-A-05**

A = .100 [2.54] x No. of Positions  
B = .100 [2.54] x No. of Spaces

## PCE-B



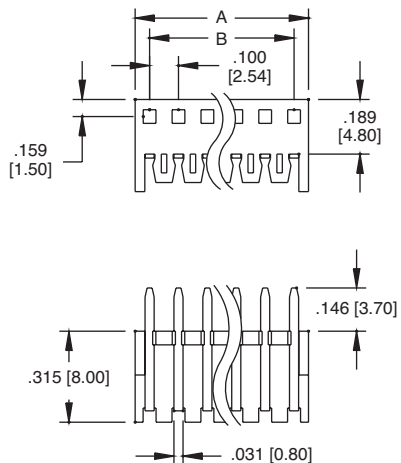
**Recommended PCB Layout**



**SIDE ENTRY  
PCE-B-07**

A = .100 [2.54] x No. of Positions  
B = .100 [2.54] x No. of Spaces

## PCE-C



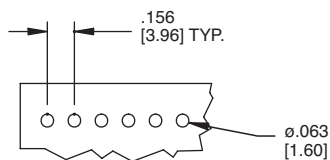
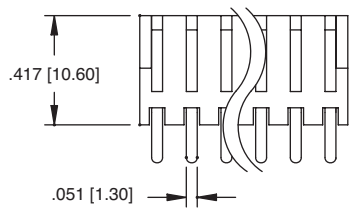
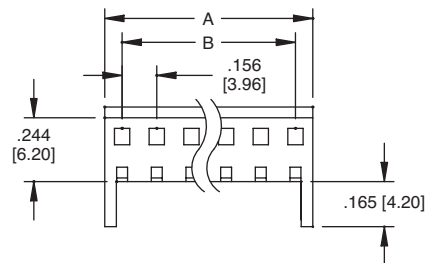
**Recommended PCB Layout**



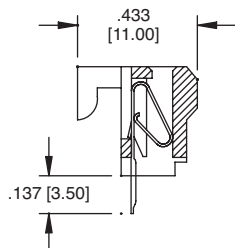
**BOTTOM ENTRY  
PCE-C-06**

A = .100 [2.54] x No. of Positions  
B = .100 [2.54] x No. of Spaces

## PCD-A



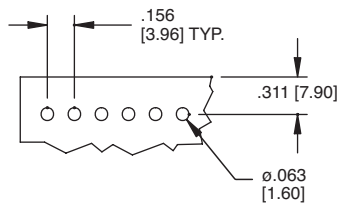
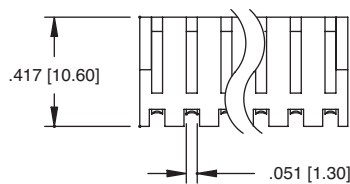
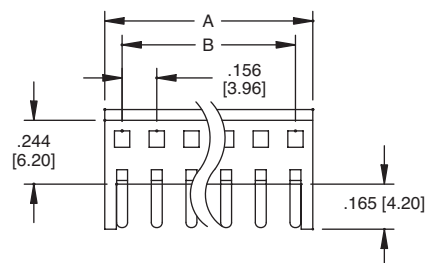
Recommended PCB Layout



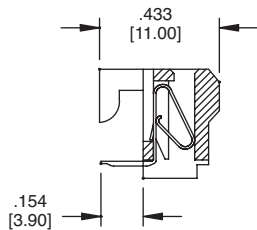
TOP ENTRY  
PCD-A-05

A = .156 [3.96] x No. of Positions  
B = .156 [3.96] x No. of Spaces

## PCD-B



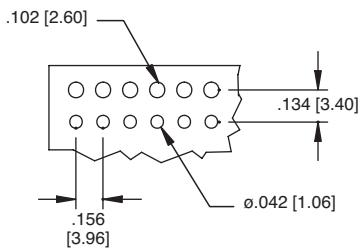
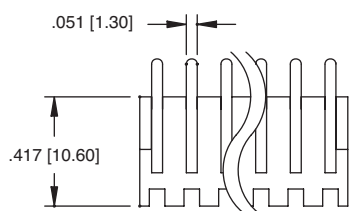
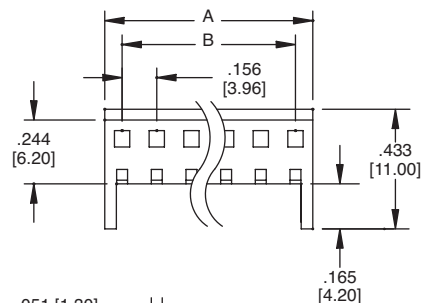
Recommended PCB Layout



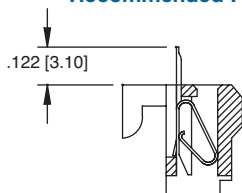
SIDE ENTRY  
PCD-B-07

A = .156 [3.96] x No. of Positions  
B = .156 [3.96] x No. of Spaces

## PCD-C



Recommended PCB Layout



BOTTOM ENTRY  
PCD-C-06

A = .156 [3.96] x No. of Positions  
B = .156 [3.96] x No. of Spaces



#### INTRODUCTION:

Adam Tech .050" IDC Sockets and Transition Plugs are low profile, precision designed flat cable connectors that feature either .050" x .100" centerlines or .050" x .050" centerlines. These series quickly and easily mass terminate flat cable in one simple step. Our superior contact design provides a smooth, high pressure wiping action to ensure excellent continuity. They are used with a single layer of .025" flat cable. Their small size, light weight and high density make them ideal for compact and limited space applications.

#### FEATURES:

- .050" x .050" or .050" x .100"
- Low Profile and High Density
- Uses Single layer .025" Flat Cable
- Quickly and easily mass terminates standard Flat Cable
- Smooth High Pressure Wiping Contacts

#### MATING CONNECTORS:

Adam Tech .050" HBHR series box headers, latch headers or HPH2 series pin headers

#### SPECIFICATIONS:

##### Material:

Insulator: PBT, glass reinforced, rated UL94V-0  
 Insulator Color: Black  
 Contacts: Phosphor Bronze

##### Contact Plating:

Tin over copper underplate overall

##### Electrical:

Operating voltage: 250V AC max.  
 Current rating: 1 Amp max.  
 Contact resistance: 20 mΩ max. Initial  
 Insulation resistance: 5000 MΩ min.  
 Dielectric withstanding voltage: 1000V AC for 1 minute

##### Mechanical:

Insertion force: 0.312 lbs per contact max.  
 Withdrawal force: 0.094 lbs per contact min.  
 Recommended wire size: 28 Awg stranded  
 Cable retention: 22 lbs. min axial force per inch.  
 Mating durability: 500 cycles min.

##### Temperature Rating:

Operating temperature: -40°C to +105°C

##### PACKAGING:

Anti-ESD plastic trays

##### SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



### ORDERING INFORMATION



#### SERIES INDICATOR

**HFCS** = Low profile  
 .050" x .100" IDC  
 Socket for single  
 layer .025"  
 Flat Cable

**HFCS-A** = Low profile  
 .050" x .050" IDC  
 Socket for single  
 layer .025"  
 Flat Cable

**HFTR** = .050" Transition  
 plug

**HFDP** = .050" Paddleboard  
 Connector for  
 single layer .025"  
 Flat Cable

**FDH** = 4 Row  
 Transition plug

#### PLATING

**SG** = Selective  
 gold plating  
 in contact  
 area, nickel  
 plating in  
 termination  
 area

**T** = Tin plated  
 (HFDP &  
 FDH only)

#### POSITIONS

**HFCS:** 10, 20, 30, 40,  
 50, 60, 70, 80,  
 90, 100

**HFCS-A:** 10, 20, 26, 34,  
 40, 50

**HFDP:** 30, 50, 68,  
 72, 80, 100

**HFTR:** 10, 12, 14, 16,  
 20, 22, 26, 30,  
 34, 40, 44, 50

**FDH:** 10, 14, 16,  
 20, 26, 34,  
 40, 50, 60

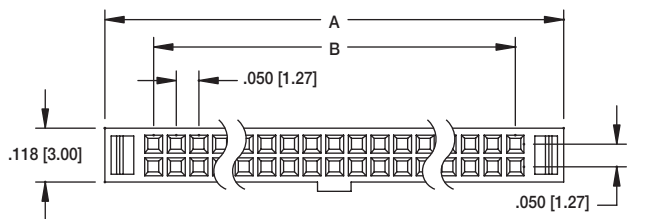
#### HFCS SERIES STRAIN RELIEF

HFCSR-X (replace X with number of positions)

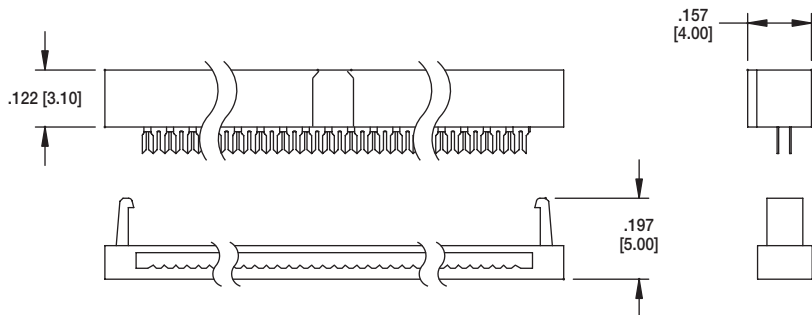
#### OPTIONS

Add designator(s) to end of part number  
**N** = No polarization bump (HFCS series)

#### HFCS-A .050" X .050"

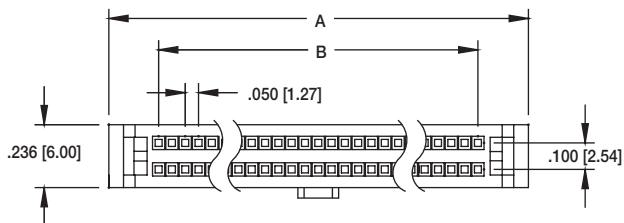


HFCS-A-34-SG

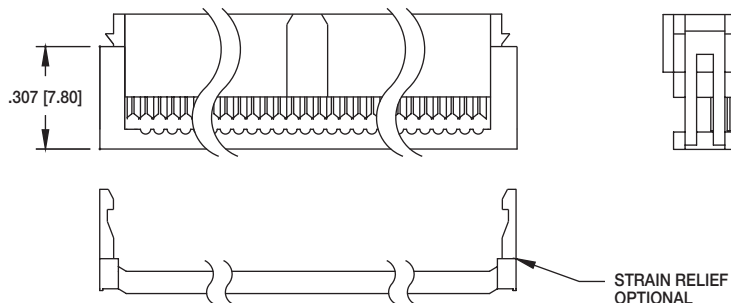


PART No. & POSITIONS	DIMENSIONS	
	A	B
HFCS-A-10 SG	.450 [5.08]	.413 [10.50]
HFCS-A-20 SG	.450 [11.43]	.665 [16.90]
HFCS-A-26 SG	.600 [15.24]	.815 [20.70]
HFCS-A-34 SG	.800 [20.32]	1.016 [25.80]
HFCS-A-40 SG	.950 [24.13]	1.165 [29.60]
HFCS-A-50 SG	1.200 [30.48]	1.413 [35.90]

#### HFCS .050" X .100"



HFCS-40-SG



PART No. & POSITIONS	Dimensions	
	A	B
HFCS-10 SG	0.437 [5.08]	0.200 [11.10]
HFCS-20 SG	0.687 [11.43]	0.450 [17.45]
HFCS-30 SG	0.937 [17.78]	0.700 [23.80]
HFCS-40 SG	1.187 [24.13]	0.950 [30.15]
HFCS-50 SG	1.437 [30.48]	1.200 [36.50]
HFCS-60 SG	1.687 [36.83]	1.450 [42.85]
HFCS-70 SG	1.937 [43.18]	1.700 [49.20]
HFCS-80 SG	2.187 [49.53]	1.950 [55.55]
HFCS-90 SG	2.437 [55.88]	2.200 [61.90]
HFCS-100 SG	2.687 [62.23]	2.450 [68.25]

**Recommended PCB Layout**

**HFTR**

**HFTR-26-T**

Part No.	A		B	
	in	mm	in	mm
HFTR-10-T	.413	10.50	.200	5.08
HFTR-12-T	.464	11.80	.250	6.35
HFTR-14-T	.515	13.10	.300	7.62
HFTR-16-T	.563	14.30	.350	8.89
HFTR-20-T	.665	16.90	.450	11.43
HFTR-22-T	.712	18.10	.500	12.70
HFTR-26-T	.815	20.70	.600	15.24
HFTR-30-T	.917	23.30	.700	17.78
HFTR-34-T	1.015	25.80	.800	20.32
HFTR-40-T	1.165	29.60	.950	24.13
HFTR-44-T	1.263	32.10	1.050	26.67
HFTR-50-T	1.413	35.90	1.200	30.48

**Recommended PCB Layout**

**HFDP**

**HFDP-80-T**

Part No.	A		B	
	in	mm	in	mm
HFDP-30-T	0.938	23.83	0.700	17.78
HFDP-50-T	1.438	36.53	1.200	30.48
HFDP-68-T	1.888	47.96	1.650	41.91
HFDP-80-T	2.188	55.58	1.950	49.53
HFDP-100-T	2.688	68.28	2.450	62.23

**Recommended PCB Layout**

**FDH**

**FDH-34-T**

Part No.	A		B	
	in	mm	in	mm
FDH-10-T	.689	17.50	.450	11.43
FDH-14-T	.889	22.58	.650	16.51
FDH-16-T	.989	25.12	.750	19.05
FDH-20-T	1.189	30.20	.950	24.13
FDH-26-T	1.489	37.82	1.250	31.75
FDH-34-T	1.889	47.98	1.650	41.91
FDH-40-T	2.189	55.60	1.950	49.53
FDH-50-T	2.689	68.30	2.450	62.23
FDH-60-T	3.189	81.00	2.950	74.93

## 2.00mm IDC SOCKET & TRANSITION PLUG

.079" [2.00 X 2.00] CENTERLINE  
2FCS & 2FTR SERIES

### INTRODUCTION:

Adam Tech 2FCS Series 2.00mm IDC Sockets are low profile, precision designed flat cable sockets that feature 2.00mm pin to pin and row to row centerlines. These sockets quickly and easily mass terminate flat cable in one simple step. Their versatility allows them to mate with a multitude of 2.00mm pin headers. Our superior selectively gold plated contact design provides a smooth, high pressure wiping action to ensure excellent continuity. They are used with a single layer of 1.00mm flat cable. Their small size, light weight and high density make them ideal for compact and limited space applications.

### FEATURES:

Low Profile and High Density  
Uses Single layer 1.00mm Flat Cable  
Quickly and easily mass terminates standard Flat Cable

### MATING CONNECTORS:

Adam Tech 2.0mm 2BHR series box headers, 2MHR latch headers and 2PH series pin headers

### SPECIFICATIONS:

#### Material:

Insulator: PBT, glass reinforced, rated UL94V-0  
Insulator Color: Black  
Contacts: Phosphor Bronze

#### Contact Plating:

Gold flash (30  $\mu$ in optional) over nickel underplate on contact area, tin over copper underplate on IDC area

#### Electrical:

Operating voltage: 250V AC max.  
Current rating: 1 Amp max.  
Contact resistance: 20 m $\Omega$  max. initial  
Insulation resistance: 3000 M $\Omega$  min.  
Dielectric withstanding voltage: 500V AC for 1 minute

#### Mechanical:

Insertion force: 0.661 lbs per contact max.  
Withdrawal force: 0.044 lbs per contact min.  
Recommended wire size: 30 - 28 Awg stranded  
Cable retention: 24 lbs. min axial force per inch.  
Mating durability: 500 cycles min.

#### Temperature Rating:

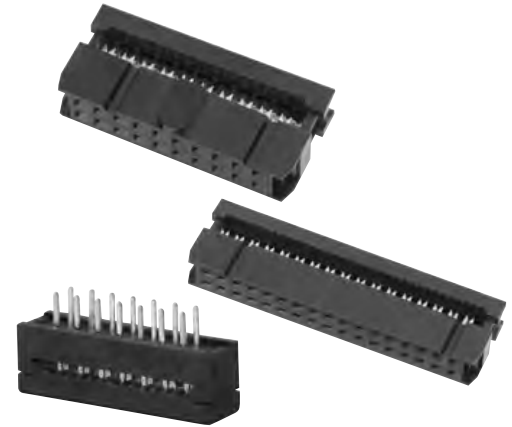
Operating temperature: -40°C to +105°C

#### PACKAGING:

Anti-ESD plastic trays

#### SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



### ORDERING INFORMATION

2FCS

40

SG

#### SERIES INDICATOR

2FCS = 2.00mm  
Flat Cable  
IDC Socket

2FTR = 2.00mm  
Flat Cable  
Transition Plug

#### PLATING OPTIONS

SG = Selectively  
Gold-Plated

#### POSITIONS

##### 2FCS:

06, 08, 10, 12, 14, 16, 18, 20, 22,  
24, 26, 34, 36, 40, 44, 50, 60, 68

##### 2FTR:

08, 10, 12, 14, 16, 20, 22, 24, 26,  
30, 34, 40, 44, 50, 68

#### NOTE:

Mating Box Headers for 2FCS series located on page 302-303

#### OPTIONS:

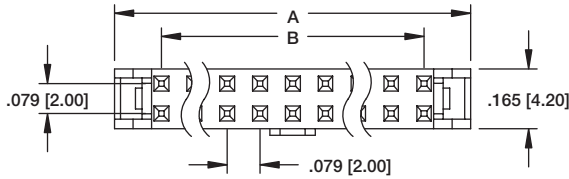
Add designator(s) to end of part number

30 = 30  $\mu$ in gold plating in contact area

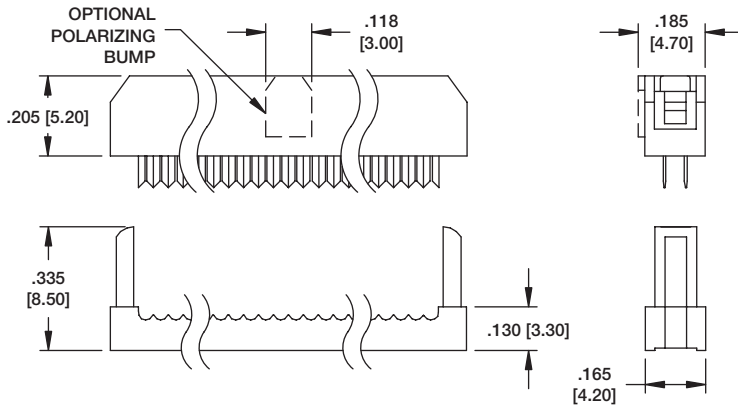
PB = Polarizing bump



### 2FCS

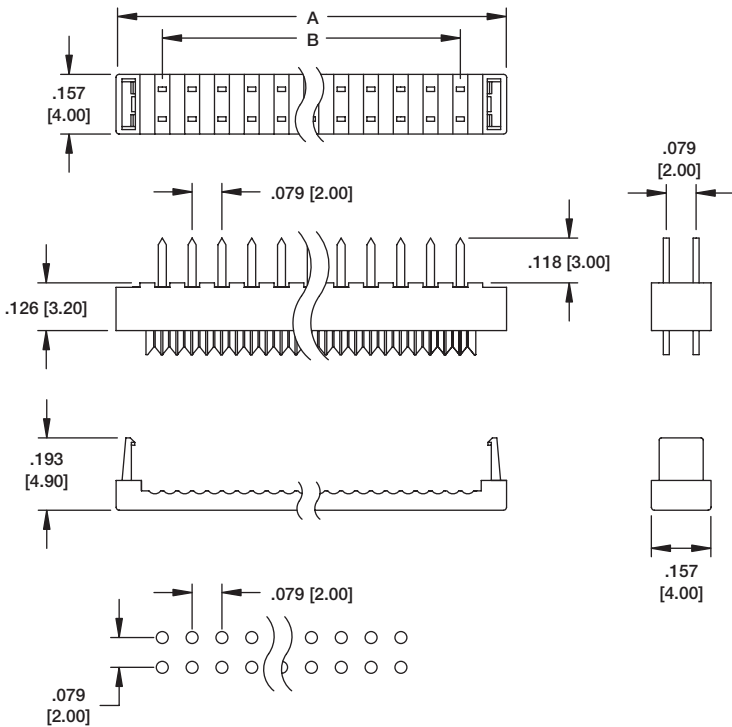


2FCS-20-SG



PART No. & POSITIONS	DIMENSIONS	
	A	B
2FCS-20-SG	.992 [25.10]	.709 [18.00]
2FCS-22-SG	1.071 [27.20]	.787 [20.00]
2FCS-24-SG	1.150 [29.20]	.866 [22.00]
2FCS-26-SG	1.228 [31.00]	.945 [24.00]
2FCS-34-SG	1.543 [39.20]	1.260 [32.00]
2FCS-36-SG	1.622 [41.20]	1.339 [34.00]
2FCS-40-SG	1.780 [45.10]	1.496 [38.00]
2FCS-44-SG	1.937 [49.20]	1.654 [42.00]
2FCS-50-SG	2.773 [55.10]	1.890 [48.00]
2FCS-60-SG	2.567 [65.20]	2.283 [58.00]
2FCS-68-SG	2.882 [73.20]	2.598 [66.00]

### 2FTR



2FTR-20-T

PART No. & POSITIONS	DIMENSIONS	
	A	B
2FTR-08-T	.480 [12.20]	.236 [6.00]
2FTR-10-T	.559 [14.20]	.315 [8.00]
2FTR-12-T	.637 [16.20]	.3937 [10.00]
2FTR-14-T	.716 [18.20]	.472 [12.00]
2FTR-16-T	.795 [20.20]	.551 [14.00]
2FTR-20-T	.952 [24.20]	.629 [16.00]
2FTR-22-T	1.031 [26.20]	.708 [18.00]
2FTR-24-T	1.110 [28.20]	.866 [22.00]
2FTR-26-T	1.189 [30.20]	.945 [24.00]
2FTR-34-T	1.503 [38.20]	1.260 [32.00]
2FTR-40-T	1.740 [44.20]	1.496 [38.00]
2FTR-44-T	1.897 [48.20]	1.654 [42.00]
2FTR-50-T	2.133 [54.20]	1.890 [48.00]
2FTR-68-T	2.842 [72.20]	2.598 [66.00]

#### INTRODUCTION:

Adam Tech FCS Series .100" IDC Sockets are extremely popular, low profile, precision designed flat cable sockets that feature .100" pin to pin and row to row centerlines. These sockets quickly and easily mass terminate flat cable in one simple step. Their versatility allows them to mate with a multitude of .025" sq. post pin headers. Our superior selectively gold plated contact design provides a smooth high pressure wiping action to ensure excellent continuity. They are used with a single layer of .050" flat cable. Their small size, light weight, low cost and high density make them ideal for use in many applications.

#### FEATURES:

Choice of Single or Dual beam contact design  
 Low Profile and High Density  
 Uses Single layer .050" standard Flat Cable  
 Quickly and easily mass terminates Flat Cable  
 Smooth High Pressure Wiping Contacts

#### MATING CONNECTORS:

Adam Tech .100" BHR series box headers and PH2 series pin headers

#### SPECIFICATIONS:

##### Material:

Insulator: PBT, glass reinforced, rated UL94V-0  
 Insulator Color: Black  
 Contacts: Phosphor Bronze

##### Contact Plating:

Gold flash (30  $\mu$ in optional) over nickel underplate on contact area, tin over copper underplate on IDC area

##### Electrical:

Operating voltage: 250V AC max.  
 Current rating: 1 Amp max.  
 Contact resistance: 30 m $\Omega$  max. initial  
 Insulation resistance: 1000 M $\Omega$  min.  
 Dielectric withstanding voltage: 500V AC for 1 minute

##### Mechanical:

Insertion force: FCS-D2: 0.5 lbs per contact max.  
 Withdrawal force: FCS-D2: 0.094 lbs per contact min.  
 Recommended wire size: 28 Awg stranded  
 Cable retention: 28 lbs. min axial force per inch.  
 Mating durability: 500 cycles min.

##### Temperature Rating:

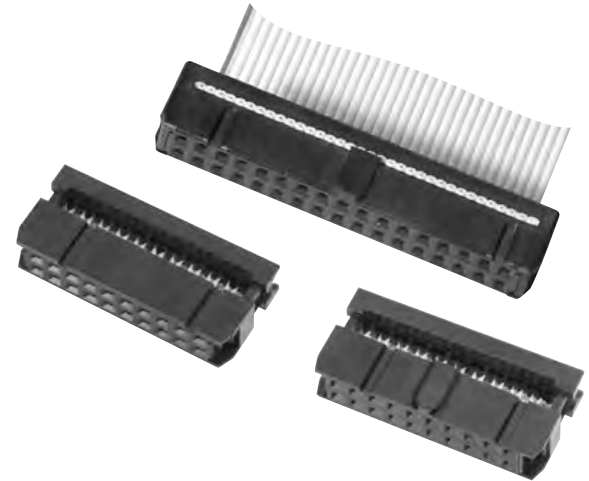
Operating temperature: -40°C to +105°C

##### PACKAGING:

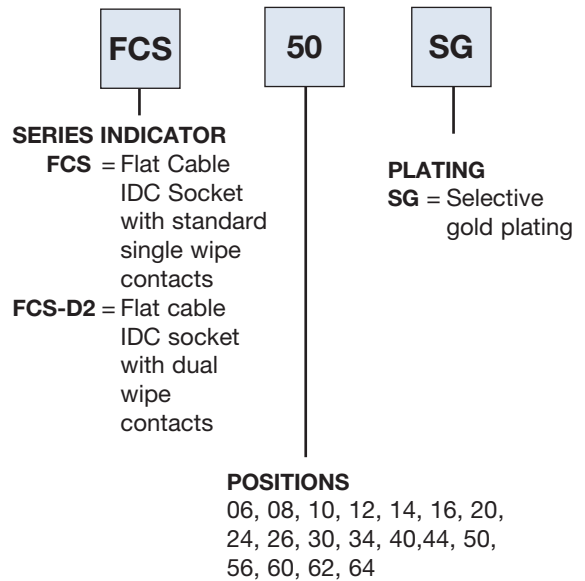
Anti-ESD plastic trays

##### SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



#### ORDERING INFORMATION



**Note:** Mating box headers for this series located on pages 283-289

#### STRAIN RELIEF:

**FSR-XX** (XX = No. of Positions)

#### PULL TABS:

**PT-XX** (No. of positions)

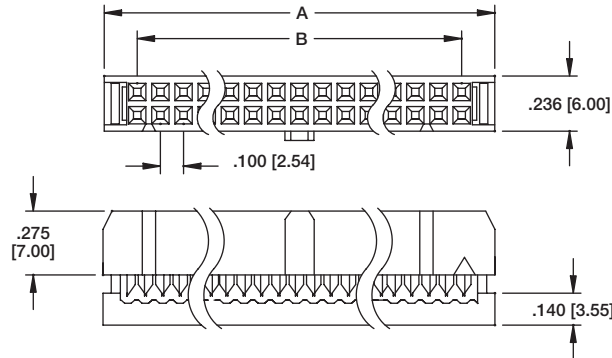
#### KEYING PLUGS:

**FCS-K** (Key plugs can also be molded into connector, consult factory)

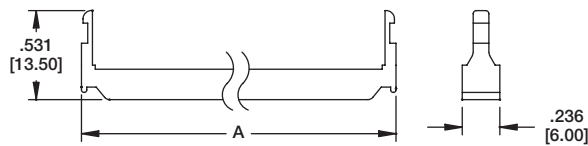
#### OPTIONS:

Add designator(s) to end of part number  
**30** = 30  $\mu$ in gold in contact area  
**GY** = Gray color insulator  
**N** = No polarization bump

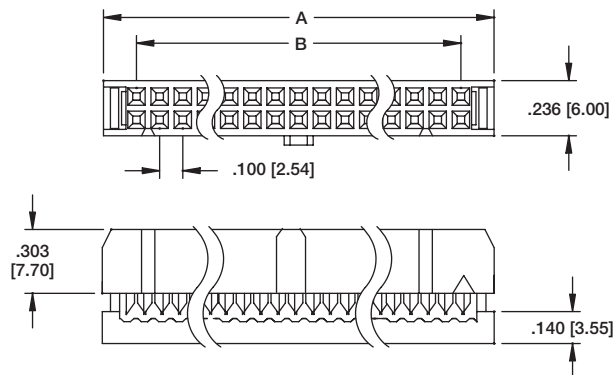
### FCS SINGLE WIPE CONTACT



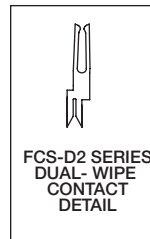
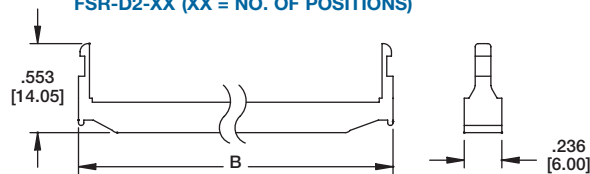
### FCS STRAIN RELIEF: FSR-XX (XX = NO. OF POSITIONS)



### FCS-D2 DUAL WIPE CONTACT



### FCS-D2 STRAIN RELIEF: FSR-D2-XX (XX = NO. OF POSITIONS)



### DIMENSIONS

POSITIONS	6	8	10	12	14	16	20	24	26	30	34	40	44	50	56	60	62	64
B	0.200 [5.08]	0.300 [7.62]	0.400 [10.16]	0.500 [12.70]	0.600 [15.24]	0.700 [17.78]	0.900 [22.86]	1.100 [27.94]	1.200 [30.48]	1.400 [35.56]	1.600 [40.64]	1.900 [48.26]	2.100 [53.34]	2.400 [60.96]	2.700 [68.58]	2.900 [73.66]	3.000 [76.20]	3.100 [78.74]
A	0.480 [12.19]	0.580 [14.73]	0.680 [17.27]	0.780 [19.81]	0.880 [22.35]	0.980 [24.89]	1.180 [29.97]	1.380 [35.05]	1.480 [37.59]	1.680 [42.67]	1.880 [47.75]	2.180 [55.37]	2.380 [60.45]	2.680 [68.07]	2.980 [75.69]	3.180 [80.77]	3.280 [83.31]	3.380 [85.85]



### INTRODUCTION:

Adam Tech FCE Series IDC Card Edge Connectors are designed to quickly and easily mass terminate .050" flat cable and mate directly with the plated fingers of a PCB as a card edge connector. Our superior designed crimp cap features guides to reduce occurrence of mis-mating and our specially engineered contacts provide strong wiping action and high retention to the PCB.

### FEATURES:

Available with or without mounting ears  
 Special "easy fit" cap reduces mis-mating  
 High Retention to PCB  
 Selectively Gold plated Bifurcated contacts

### MATING OPTIONS:

Printed circuit boards with a thickness of .058" to .070"

### SPECIFICATIONS:

#### Material:

Insulator: PBT, glass reinforced, rated UL94V-0  
 Insulator Color: Black, (Gray optional)  
 Contacts: Phosphor Bronze

#### Contact Plating:

Gold flash (30  $\mu$ in optional) over nickel underplate on contact area,  
 tin over copper underplate on IDC area

#### Electrical:

Operating voltage: 250V AC max.  
 Current rating: 1 Amp max.  
 Contact resistance: 30 m $\Omega$  max. initial  
 Insulation resistance: 1000 M $\Omega$  min.  
 Dielectric withstanding voltage: 500V AC for 1 minute

#### Mechanical:

PCB Insertion force: 0.406 lbs per contact max.  
 With .062 thick board  
 Withdrawal force: 0.312 lbs per contact min.  
 With .062 thick board  
 Recommended wire size: 28 Awg stranded  
 Cable retention: 28 lbs. min axial force per inch.  
 Mating durability: 500 cycles min.

#### Temperature Rating:

Operating temperature: -40°C to +105°C

#### PACKAGING:

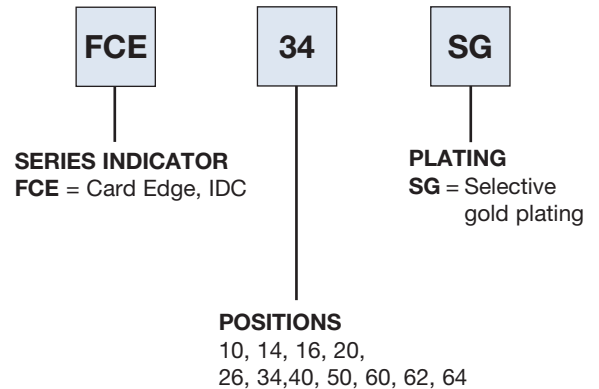
Anti-ESD plastic trays

#### SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



### ORDERING INFORMATION



#### STRAIN RELIEF:

FCR - XX (XX= No. of Positions)

#### KEYING PLUGS:

FCE-K (Key plugs can also be molded into connector, consult factory)

#### OPTIONS:

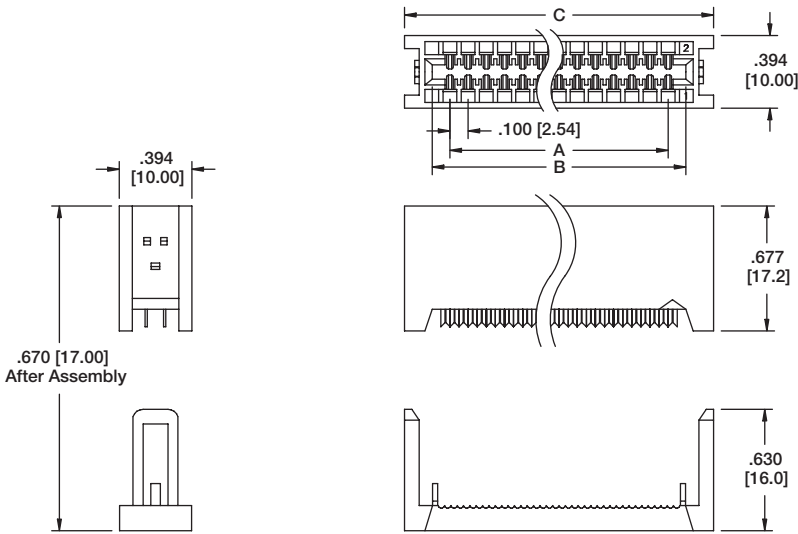
Add designator(s) to end of part number

30 = 30  $\mu$ in gold plating in contact area

GY = Gray color insulator

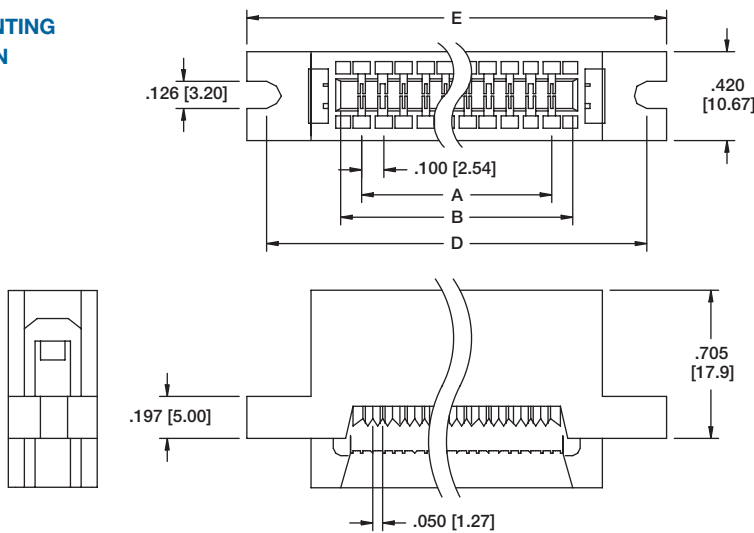
E = Mounting ears with slotted mounting holes

### FCE



FCE-20-SG

### FCE WITH MOUNTING EAR OPTION



FCE-20-SG-E

DIMENSIONS											
POSITIONS	10	14	16	20	26	34	40	50	60	62	64
A	.400 [10.16]	.600 [15.24]	.700 [17.78]	.900 [22.86]	1.200 [22.86]	1.600 [40.64]	1.900 [48.26]	2.400 [60.96]	2.900 [73.66]	3.000 [76.20]	3.100 [78.74]
B	.604 [15.34]	.804 [20.42]	.904 [22.96]	1.1040 [28.04]	1.404 [35.66]	1.804 [45.82]	2.104 [53.44]	2.604 [66.14]	3.104 [78.84]	3.204 [81.38]	3.304 [83.92]
C	.872 [22.15]	1.072 [27.23]	1.172 [29.77]	1.372 [34.85]	1.672 [42.47]	2.072 [52.63]	2.372 [60.25]	2.872 [72.95]	3.372 [85.65]	3.472 [88.19]	3.304 [90.73]
D	1.300 [33.02]	1.500 [38.10]	1.600 [40.64]	1.800 [45.72]	2.100 [53.34]	2.500 [63.50]	2.800 [71.12]	3.300 [83.82]	3.800 [96.52]	N / A	4.000 [101.60]
E	1.500 [38.10]	1.700 [43.18]	1.800 [45.72]	2.000 [50.80]	2.300 [58.42]	2.700 [68.58]	3.000 [76.20]	3.500 [88.90]	4.000 [101.60]	N / A	4.200 [106.68]

### INTRODUCTION:

Adam Tech FCP Series IDC Box Headers are designed to quickly and easily mass terminate to .050" flat cable. The IDC termination is converted to a Shrouded Box Header output with a polarizing slot that mates with standard IDC sockets. This connector is ideal for splicing and making "T" taps to a cable bus. Adam Tech's sturdy design features solid, selectively gold plated .025"sq. copper alloy posts.

### FEATURES:

IDC Flat Cable to Shrouded Box Header  
Mates with standard IDC sockets  
Ideal for splicing and "T" taps to cable bus  
Solid selectively gold plated contacts

### MATING CONNECTORS:

Mates with Adam Tech FCS Series .100" [2.54mm] dual row IDC sockets

### SPECIFICATIONS:

#### Material:

Insulator: PBT, rated UL94V-0  
Insulator Color: Gray  
Contacts: Brass

#### Contact Plating:

Gold flash (30  $\mu$ in optional) over nickel underplate on contact area, tin over copper underplate on IDC area

#### Electrical:

Operating voltage: 250V AC max.  
Current rating: 1 Amp max  
Contact resistance: 30 m $\Omega$  max. initial  
Insulation resistance: 5000 M $\Omega$  min.  
Dielectric withstanding voltage: 1000V AC for 1 minute

#### Mechanical:

Insertion force: 0.5 lbs per circuit max.  
Withdrawal force: 0.094 lbs per circuit min  
Mating durability: 500 cycles min.  
Recommended cable size: 28 Awg stranded

#### Temperature Rating:

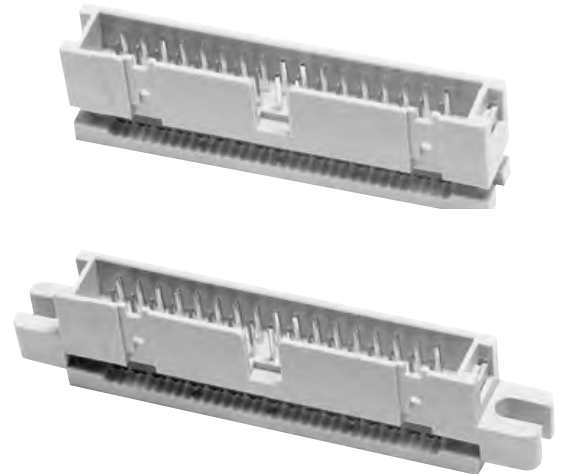
Operating temperature: -40°C to +105°C

#### PACKAGING:

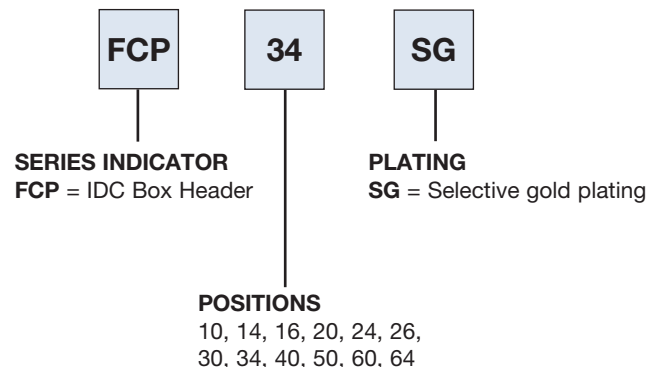
Anti-ESD plastic trays

#### SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



### ORDERING INFORMATION

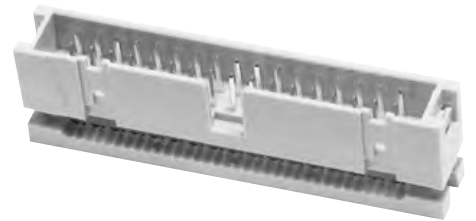
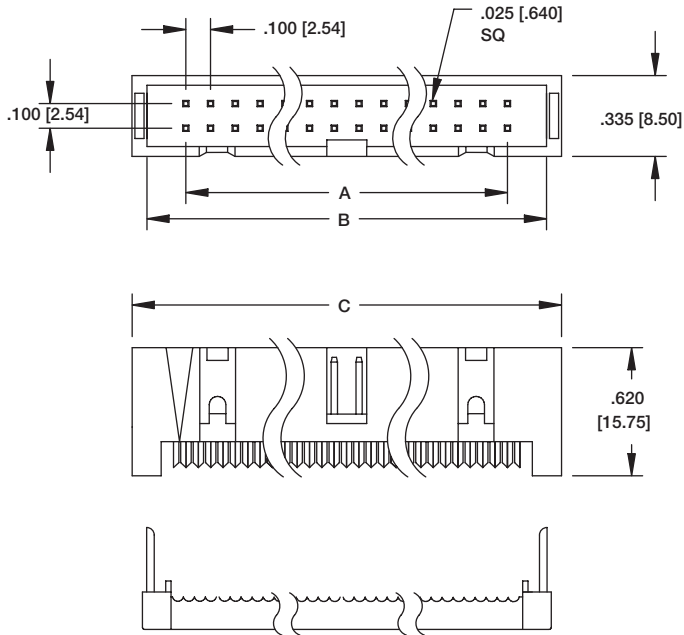


### OPTIONS:

Add designator(s) to end of part number

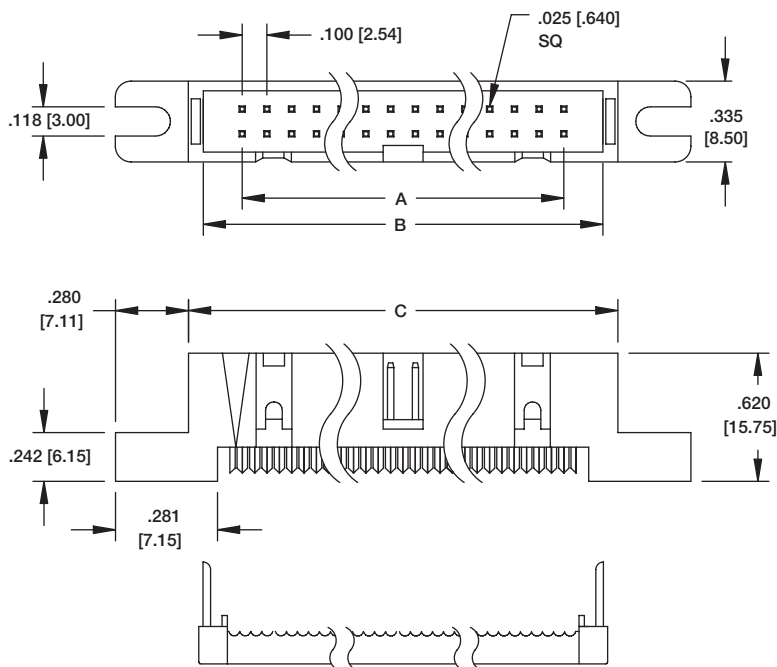
- E = Mounting Ears
- 30 = 30  $\mu$ in gold plating in contact area
- BK = Black color insulator

### FCP HEADER



FCP-34-SG

### FCP HEADER WITH MOUNTING EAR OPTION



FCP-34-SG-E

POS.	DIMENSIONS		
	A	B	C
10	.400 [10.16]	.708 [18.00]	.905 [23.00]
14	.600 [15.24]	.908 [23.08]	1.105 [28.08]
16	.700 [17.78]	1.008 [25.62]	1.205 [30.62]
20	.900 [22.86]	1.208 [30.70]	1.405 [35.70]
24	1.100 [27.94]	1.408 [35.78]	1.605 [40.78]
26	1.200 [30.48]	1.508 [38.32]	1.705 [43.32]
30	1.400 [35.56]	1.708 [43.40]	1.905 [48.40]
34	1.600 [40.64]	1.908 [48.48]	2.105 [53.48]
40	1.900 [48.26]	2.208 [56.10]	2.405 [61.10]
50	2.400 [60.96]	2.708 [68.80]	2.905 [73.80]
60	2.900 [73.66]	3.208 [81.50]	3.405 [86.50]
64	3.100 [78.74]	3.408 [86.58]	3.605 [91.58]

### INTRODUCTION:

Adam Tech MHF Series IDC Latch Headers are designed to quickly and easily mass terminate to .050" flat cable. The IDC termination is converted to a Shrouded Box Header with ejector/latches and a polarizing slot that mates with standard IDC sockets. This connector is ideal for splicing and making "T" taps to a cable bus. Adam Tech's sturdy design features solid, selectively gold plated .025"sq. copper alloy posts.

### FEATURES:

- Latches for secure attachment
- Latch ejection feature makes socket removal easy
- IDC Cable to Shrouded Box Header
- Mates with standard IDC sockets
- Ideal for splicing and "T" taps to cable bus
- Solid selectively gold plated contacts

### MATING CONNECTORS:

Mates with Adam Tech FCS Series .100" (2.54mm) dual row IDC sockets

### SPECIFICATIONS:

#### Material:

Insulator: PBT, rated UL94V-0  
Insulator Color: Gray  
Contacts: Brass

#### Contact Plating:

Gold flash (30  $\mu$ in optional) over nickel on contact area,  
Tin over copper underplate on IDC area

#### Electrical:

Operating voltage: 250V AC max.  
Current rating: 1 Amp max  
Contact resistance: 20 m $\Omega$  max. initial  
Insulation resistance: 5000 M $\Omega$  min.  
Dielectric withstanding voltage: 1000V AC for 1 minute

#### Mechanical:

Insertion force: 0.5 lbs per circuit max.  
Withdrawal force: 0.094 lbs per circuit min  
Mating durability: 500 Cycles min.  
Recommended cable size: 28 Awg stranded

#### Temperature Rating:

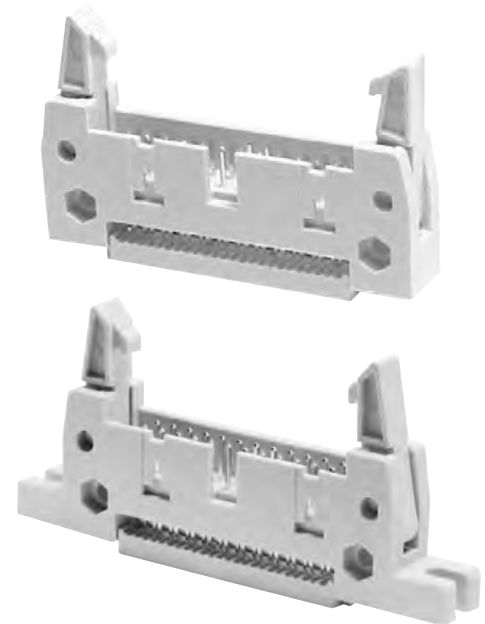
Operating temperature: -40°C to +105°C

#### PACKAGING:

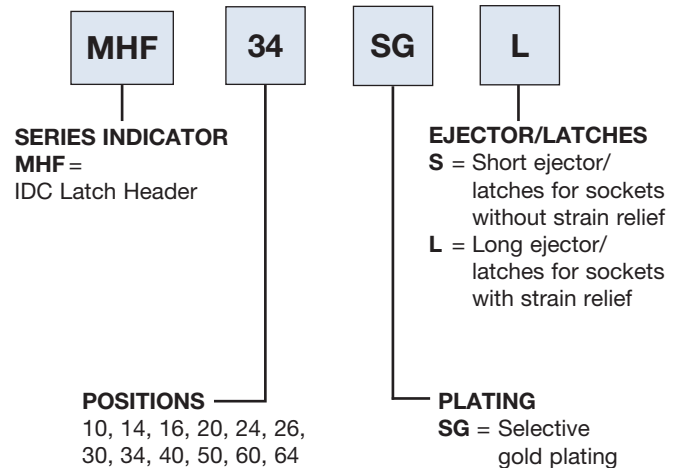
Anti-ESD plastic trays

#### SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



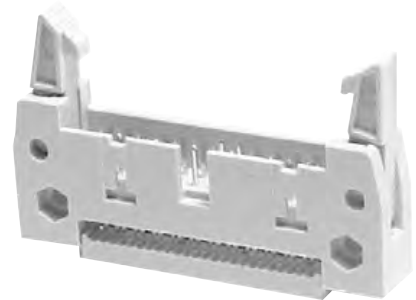
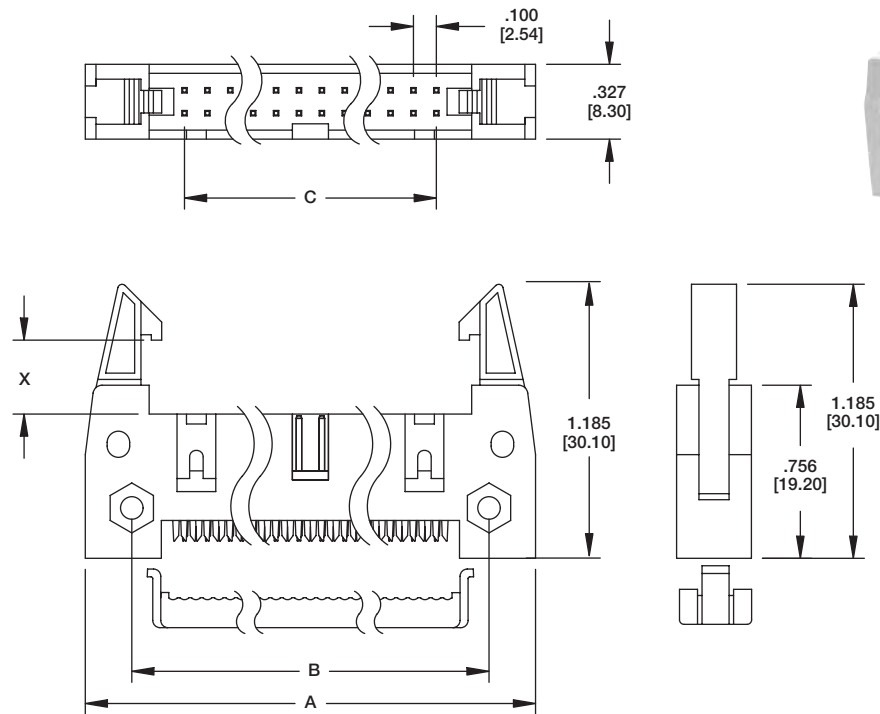
### ORDERING INFORMATION



#### OPTIONS:

Add designator(s) to end of part number  
**E** = Mounting ears

### MHF HEADER

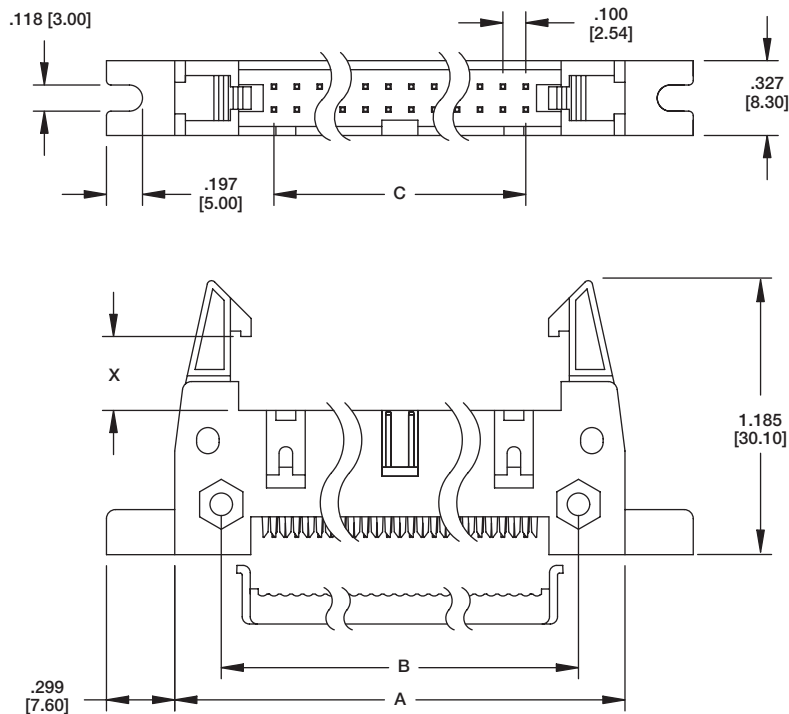


MHF-34-SG-L

Short Latch (No Strain Relief Type)  
X= .236 [6.00]

Long Latch (Strain Relief Type)  
X= .315 [8.00]

### MHF HEADER WITH MOUNTING EAR OPTION



PART NO. & POSITIONS	DIMENSIONS		
	A	B	C
MHF-10	1.266 [32.17]	.860 [21.85]	.400 [10.16]
MHF-14	1.466 [37.25]	1.060 [26.93]	.600 [15.24]
MHF-16	1.566 [39.79]	1.160 [29.47]	.700 [17.78]
MHF-20	1.766 [44.87]	1.360 [34.55]	.900 [22.86]
MHF-24	1.966 [49.95]	1.560 [39.63]	1.100 [27.94]
MHF-26	2.066 [52.49]	1.660 [42.17]	1.200 [30.48]
MHF-30	2.266 [57.57]	1.860 [47.25]	1.400 [35.56]
MHF-34	2.466 [62.65]	2.060 [52.33]	1.600 [40.64]
MHF-40	2.766 [70.27]	2.360 [59.95]	1.900 [48.26]
MHF-50	3.266 [82.97]	2.860 [72.65]	2.400 [60.96]
MHF-60	3.766 [95.67]	3.360 [85.34]	2.900 [73.66]
MHF-64	3.966 [100.75]	3.560 [90.43]	3.100 [78.74]

#### INTRODUCTION:

Adam Tech's MTD Series .100" & .156" Housings with IDC contacts are designed to quickly and easily mass terminate discrete wires or pre-notched flat cable. Our stamped contacts are designed to feature a precision, gas tight IDC connection at the wire end and a high pressure, smooth wiping action connection on the mating connector end. Both are available with optional cover in feed through or closed end styles.

#### FEATURES:

Easily mass terminates discrete wire and pre-notched flat cable  
Housings have pre-inserted IDC contacts  
High performance Gas tight IDC connection  
Optional Feed through or Closed end cover

#### SPECIFICATIONS:

##### Material:

Insulator: Nylon 66, rated UL94V-2  
Insulator Color: Natural  
Contacts: Phosphor bronze and Brass

##### Contact Plating:

Tin over copper underplate overall

##### Electrical:

Operation voltage: 250V AC max.  
Current rating:  
.100" centers: 4. Amp max.  
.156" centers: 6 Amp max.  
Insulation resistance: 1000 MΩ min.  
Dielectric withstanding voltage: 1000V AC for 1 minute

##### Mechanical:

Mating force:  
.100" & .156" Center: 1.3 lbs max  
Unmating force:  
.100" Center: 0.5 lbs min  
.156" Center: 1.3 lbs min  
.100" Centers: Wire size: 28 Awg to 22 Awg  
.156" Centers: Wire size: 26 Awg to 18 Awg

##### Temperature Rating:

Operating temperature: -40°C to +105°C

##### PACKAGING:

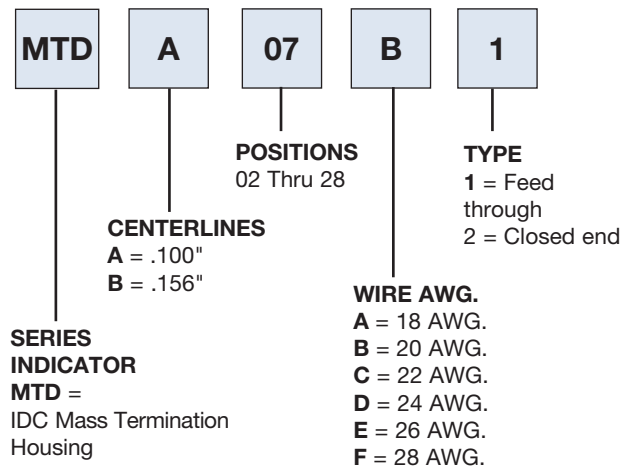
Anti-ESD plastic bags

##### APPROVALS AND CERTIFICATIONS:

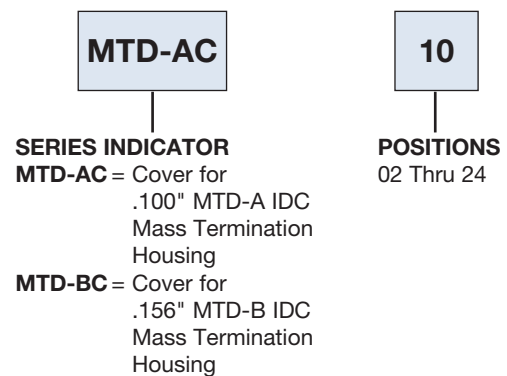
UL Recognized File no. E224053



#### ORDERING INFORMATION CONNECTOR

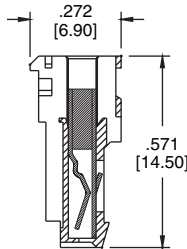
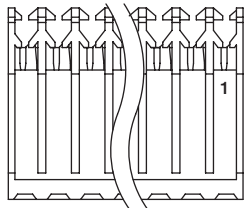
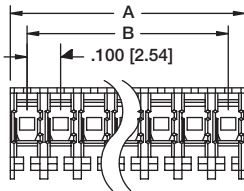


#### ORDERING INFORMATION COVER





#### MTD-A .100" CENTERLINE

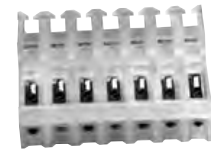


A = .100 [2.54] X No of Positions  
B = .100 [2.54] X No of Spaces

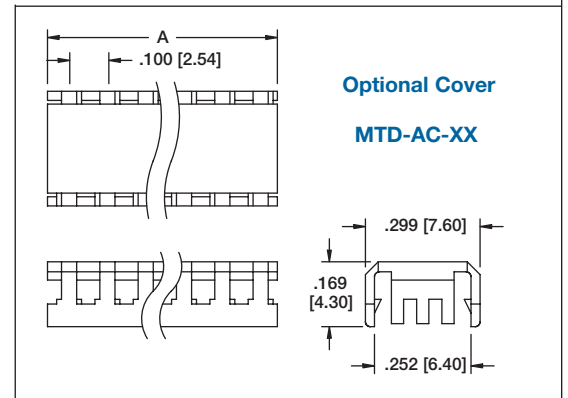
Available wire sizes: 22, 24, 26 & 28 AWG.



MTD-A-04-D-1

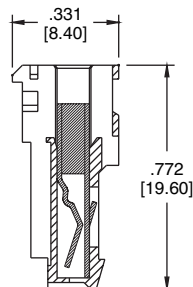
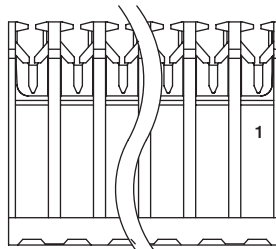
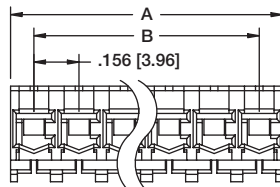


MTD-A-07-D-1



Optional Cover  
MTD-AC-XX

#### MTD-B .156" CENTERLINE

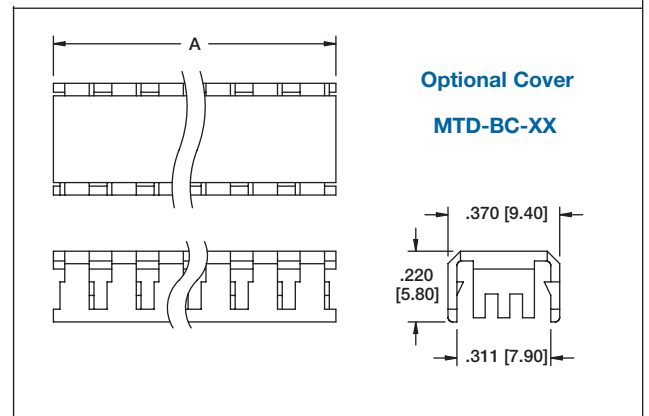


A = .156 [3.96] X No of Positions  
B = .156 [3.96] X No of Spaces

Available wire sizes: 18, 20, 22, & 24 AWG.



MTD-B-07-B-1



Optional Cover  
MTD-BC-XX

### INTRODUCTION:

Adam Tech's Flat Cable DIP & Transition plugs are a one piece connector system that quickly and easily mass terminates flat cable then mounts directly to the PCB or PCB socket. These connectors are ideal for interconnecting PCB's in a permanent flat cable transition or satisfying disconnect applications. Our low profile design allows an increased board to board stacking density.

### FEATURES:

Available in 8 – 64 positions  
Eliminates need for two piece header & Socket set  
Fast easy mass termination without stripping cable  
Heavy duty Tin plated contacts  
Low Profile, high density board to board stacking  
Plugs into IC Socket or solders directly to PCB

### SPECIFICATIONS:

Material:

Insulator: PBT, glass reinforced, rated UL94V-0  
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0  
Insulator Color: Black (Gray optional)

Contacts: Brass

Contact Plating:

G = Gold over nickel underplate on contact area, Tin over copper underplate on IDC area.

T = Tin over copper underplate overall

Electrical:

Operating voltage: 250V AC max.

Current rating: 3 Amp max

Contact resistance: 20 mΩ max. initial

Insulation resistance: 5000 MΩ min.

Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Recommended cable size: 28 Awg stranded

Temperature Rating:

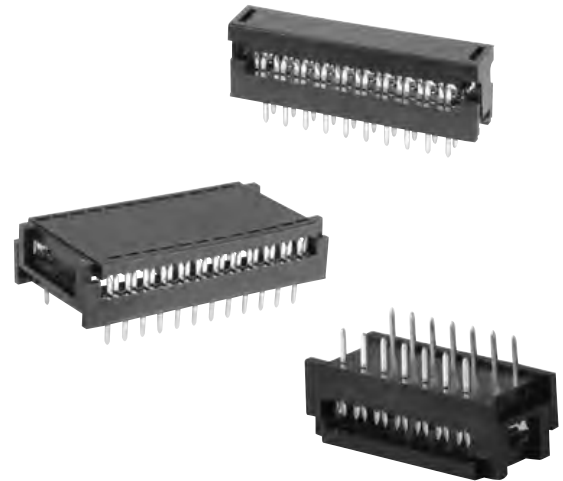
Operating temperature: -40°C to +105°C

### PACKAGING:

Anti-ESD plastic trays

### SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



### ORDERING INFORMATION

**FTR**

**40**

**T**

#### SERIES INDICATOR

**FTR** = IDC Flat Cable  
Transition Plug  
.100" X .100"

**FDP-3** = IDC Flat Cable  
Dip Plug  
.100" X .300"

**FDP-6** = IDC Flat Cable  
Dip Plug  
.100" X .600"

#### PLATING

T = Tin plated  
G = Gold plating  
on tails

#### POSITIONS

**FTR:** 08, 10, 14, 16, 20, 24, 26,  
28, 30, 34, 40, 50, 60, 64

**FDP-3:** .300" row spacing  
Positions: 08, 10, 14, 16, 18, 20, 24,  
26, 28, 34, 40

**FDP-6:** .600" row spacing  
Positions: 24, 26, 28, 32, 34, 36, 40

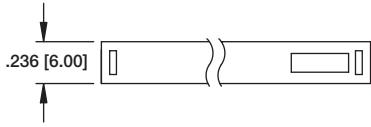
#### OPTIONS:

Add designator(s) to end of part number  
30 = 30 μin gold plating in contact area  
GY = Gray color insulator  
RT = Board retention



## FTR SERIES

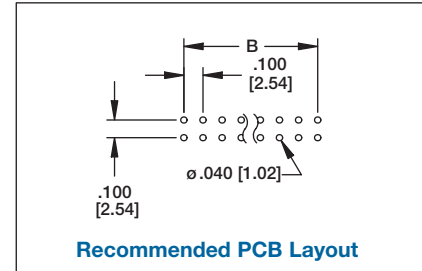
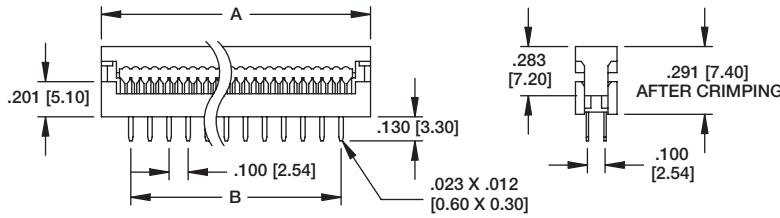
.100" X .100" (8P-64P)



A = .100 [2.54] x No. of Positions per row + .310 [7.88]  
 B = .100 [2.54] x No. of Spaces per row



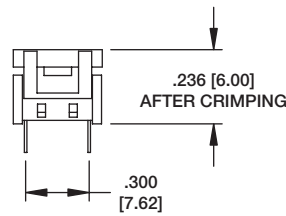
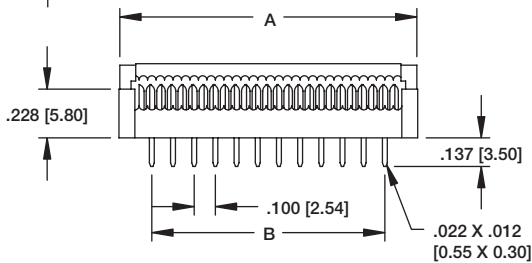
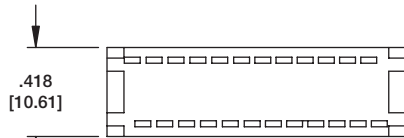
FTR-14-T



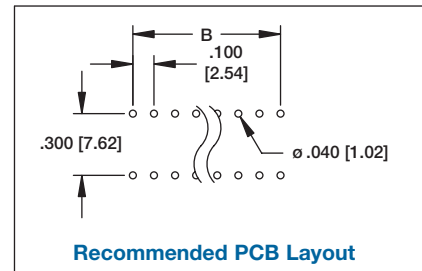
Recommended PCB Layout

## FDP SERIES

.100" X .300" (8P-20P)



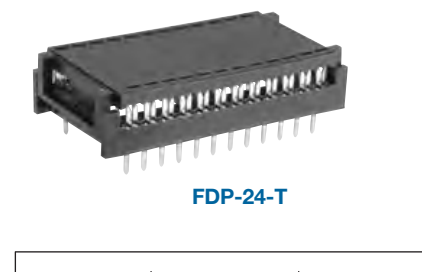
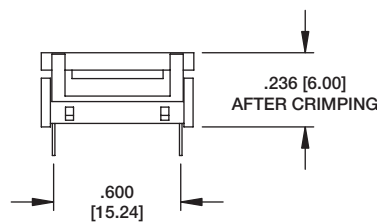
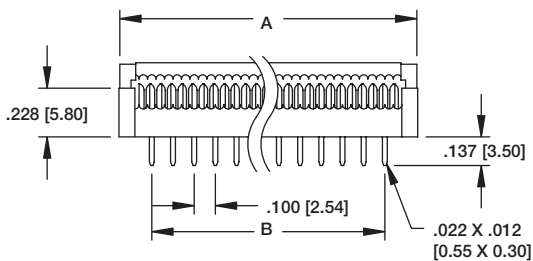
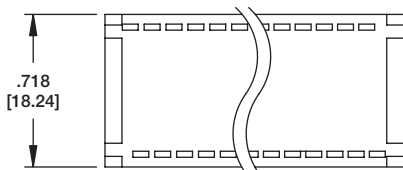
FDP-14-T



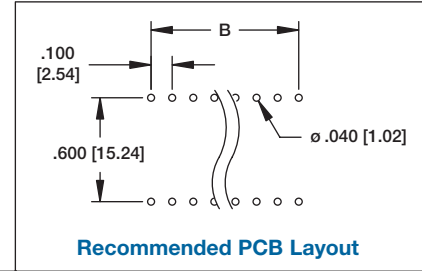
Recommended PCB Layout

## FDP SERIES

.100" X .600" (24P-40P)



FDP-24-T



Recommended PCB Layout

**INTRODUCTION:**

Adam Tech DMH & DMF Series Power Connectors consist of a receptacle and plug set in a variety of single and multiple row configurations with 165" centerlines. They are manufactured of Nylon 6/6 with a flammability rating of UL94V-2 or UL94V-0. This series is designed as a mated set with a PCB mounted header and a wire mounted socket which securely latches to header when mated. Our specially designed bodies provide polarization to eliminate mismatching and our latching system resists heavy vibration. PCB mounted headers have molded pegs which align and brace the PCB tails for trouble free assembly and use.

**FEATURES:**

- High current rating
- Polarized and Positive locking
- Vibration resistant
- Compatible with Wide Range of wires
- Industry standard compatible

**SPECIFICATIONS:**

**Material:**

- Insulator: Nylon 66, rated UL94V-2
- Insulator Color: Natural or Black
- Contacts: Brass, tin plated

**Electrical:**

- Operating voltage: 300V AC / DC max.
- Current Rating: 5 Amps max
- Insulation resistance: 1000 MΩ min.
- Dielectric withstanding voltage: 1500V AC for 1 minute

**Temperature Rating:**

- Operating temperature: -25°C to +85°C

**PACKAGING:**

- Anti-ESD plastic bags

**SAFETY AGENCY APPROVALS:**

- UL Recognized File no. E224053



**ORDERING INFORMATION  
FEMALE WIRE HOUSING**



- SERIES INDICATOR**  
DMH = 4.2mm Pitch  
DMW = 4.14mm Pitch  
DMU = 3.0mm Pitch  
DMT = 3.0mm Pitch  
DML = 3.0mm Pitch
- POSITIONS**  
02 THRU 24

**ORDERING INFORMATION  
MALE PCB HOUSING**



- SERIES INDICATOR**  
DMF = PCB Male
- POSITIONS**  
02 THRU 24  
(Evenly numbered)
- FLANGES (RIGHT ANGLE ONLY)**  
BLANK = Straight Type  
F = With Flange (Right Angle Only)
- MOUNTING**  
S = Straight PCB Mount  
R = Right Angle PCB Mount  
W = Crimp Housing

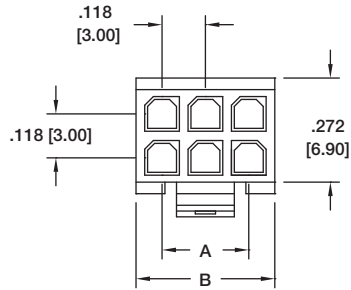
- OPTIONS:**  
Add designator(s) to end of part number  
P = PCB Peg



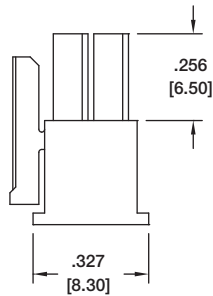
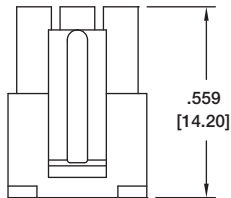
Contact factory for detail



## DMT CRIMP HOUSING



**DMT-14**



**DIMENSIONS**

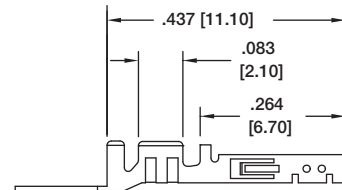
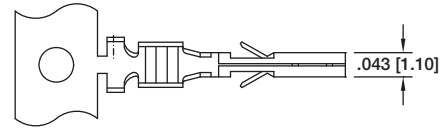
A = .118 [3.00] X No. of Positions /2 - 1

B = .118 [3.00] X No. of Positions /2 + .151 [3.85]

## DMT CRIMP CONTACT

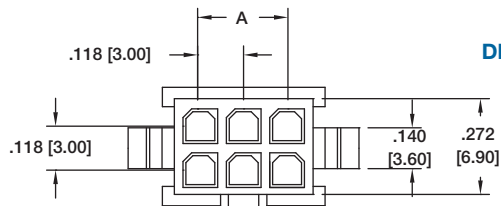


**DMT-A-C-F-T-R**

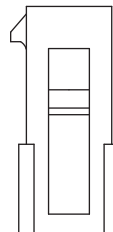
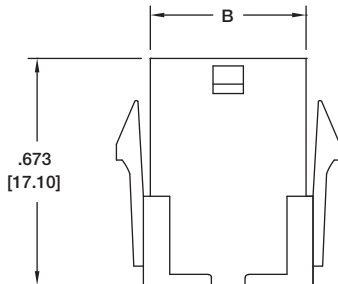


PART #	WIRE AWG
DMT-A-C-F-T-R	26 - 30
DMT-B-C-F-T-R	20 - 24

## DMU CRIMP HOUSING



**DMU-12**

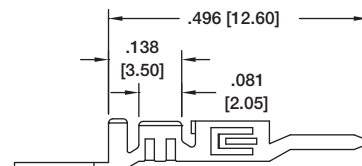
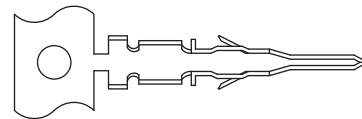


**DIMENSIONS**

A = .118 [3.00] X No. of Positions /2 - 1

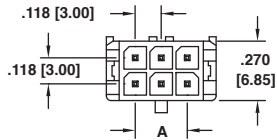
B = .118 [3.00] X No. of Positions /2 + .151 [3.85]

## DMU CRIMP CONTACT

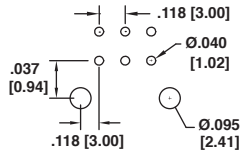


PART #	WIRE AWG
DMU-A-C-M-T-R	26 - 30
DMU-B-C-M-T-R	20 - 24

## DML-XX-A-V-T-A VERTICAL THRU HOLE MOUNT



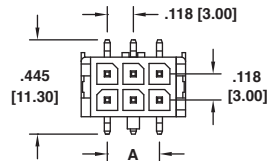
DML-10-A-V-T-A



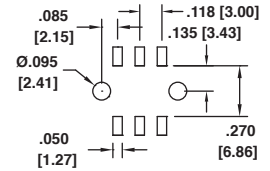
Recommended PCB Layout

Replace (XX) with no. of positions  
 A = .118 [3.00] X No. of Positions / 2 - 1  
 B = .118 [3.00] X No. of Positions / 2 + .143 [3.65]

## DML-XX-A-V-T-SMT-BL VERTICAL SMT W/BOARDLOCKS



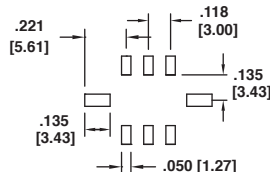
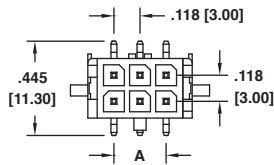
DML-10-A-V-T-SMT-BL



Recommended PCB Layout

Replace (XX) with no. of positions  
 A = .118 [3.00] X No. of Positions / 2 - 1  
 B = .118 [3.00] X No. of Positions / 2 + .145 [3.70]

## DML-XX-A-V-T-TSMT VERTICAL TRUE SMT

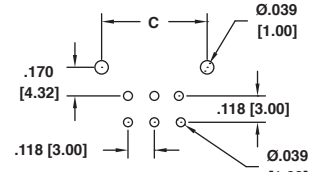
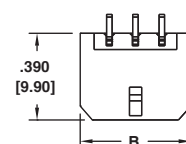


Recommended PCB Layout

Replace (XX) with no. of positions  
 A = .118 [3.00] X No. of Positions / 2 - 1  
 B = .118 [3.00] X No. of Positions / 2 + .145 [3.70]

DML-12-A-V-T-TSMT

## DML-XX-A-H-T-BL RIGHT ANGLE THRU HOLE



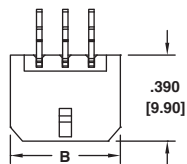
Recommended PCB Layout

Replace (XX) with no. of positions  
 A = .118 [3.00] X No. of Positions / 2 - 1  
 B = .118 [3.00] X No. of Positions / 2 + .145 [3.70]

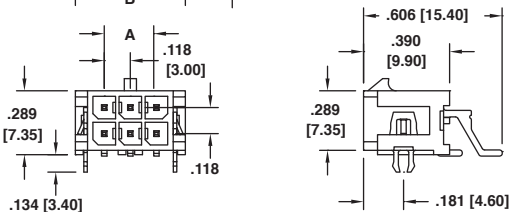


DML-12-A-H-T-BL

## DML-XX-A-H-T-SMT-BL RIGHT ANGLE SMT W/BOARDLOCKS

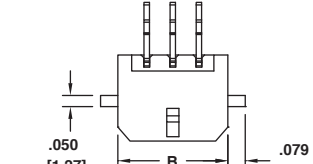


DML-10-A-H-T-SMT-BL

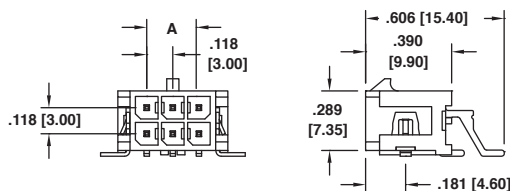


Replace (XX) with no. of positions  
 A = .118 [3.00] X No. of Positions / 2 - 1  
 B = .118 [3.00] X No. of Positions / 2 + .145 [3.70]

## DML-XX-A-H-T-TSMT RIGHT ANGLE TRUE SMT

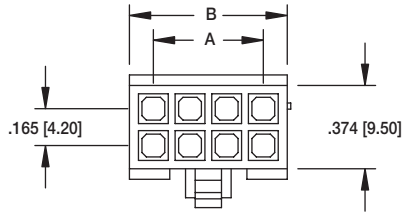


DML-08-A-H-T-TSMT

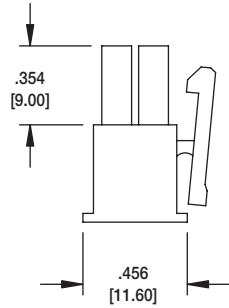
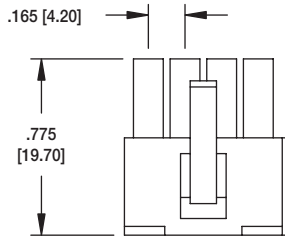


Replace (XX) with no. of positions  
 A = .118 [3.00] X No. of Positions / 2 - 1  
 B = .118 [3.00] X No. of Positions / 2 + .145 [3.70]

### DMH CRIMP HOUSING



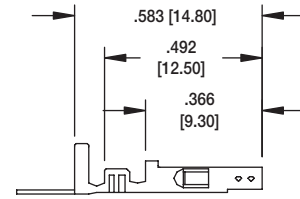
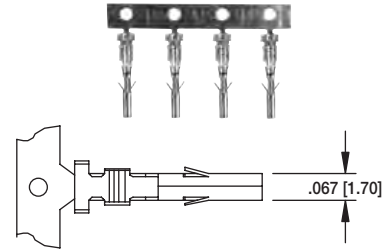
DMH-12



**DIMENSIONS:**

A = .165 [4.20] X No. of Position / 2 - 1

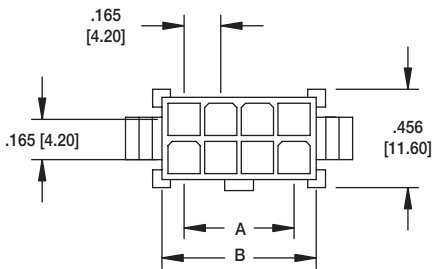
B = .165 [4.20] X No. of Positions / 2 + .055 [1.40]



### DMH CRIMP CONTACT

PART #	WIRE AWG
DMH-A-C-F-R	22 ~ 24
DMH-B-C-F-R	18 ~ 22
DMH-C-C-F-R	16 ~ 18

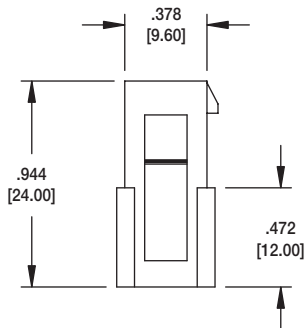
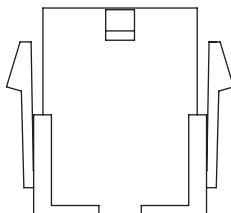
### DMF CRIMP HOUSING



DMF-06-W



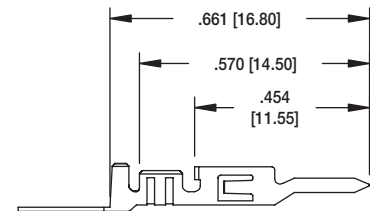
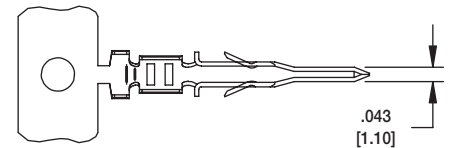
DMF-12-W



**DIMENSIONS:**

A = .165 [4.20] X No. of Position / 2 - 1

B = .165 [4.20] X No. of Positions / 2 + .055 [1.40]

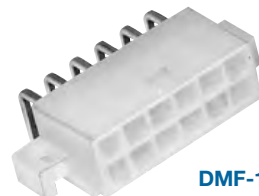


### DMF CRIMP CONTACT

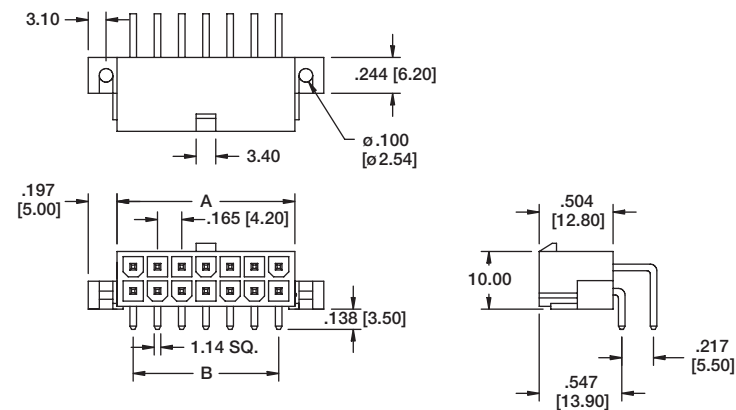
PART #	WIRE AWG
DMF-A-C-M-R	22 ~ 24
DMF-B-C-M-R	18 ~ 22



**DMF  
RIGHT ANGLE  
WITH FLANGE**

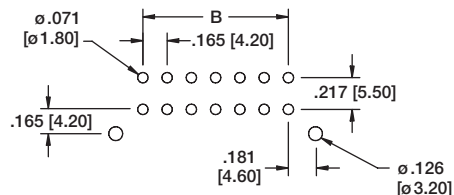


**DMF-12-R-F**

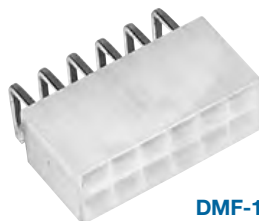


A = .165 [4.20] x No. of Positions + .213 [5.40]  
 B = .165 [4.20] x No. of Spaces

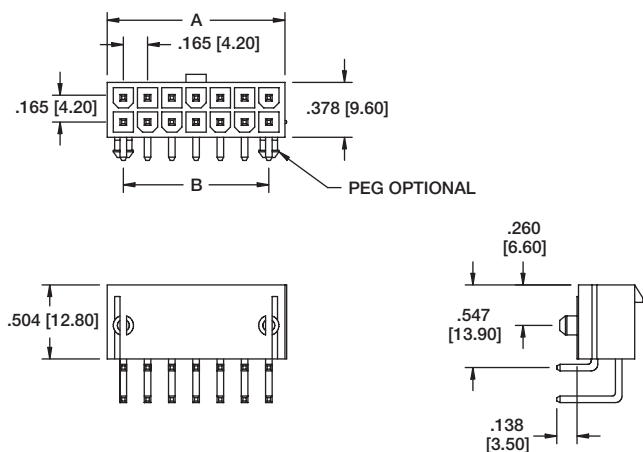
**Recommended PCB Layout**



**DMF  
RIGHT ANGLE  
WITHOUT FLANGE**

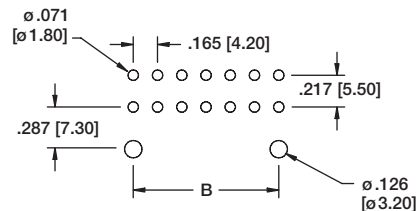


**DMF-12-R-N**



A = .165 [4.20] x No. of Positions + .213 [5.40]  
 B = .165 [4.20] x No. of Spaces

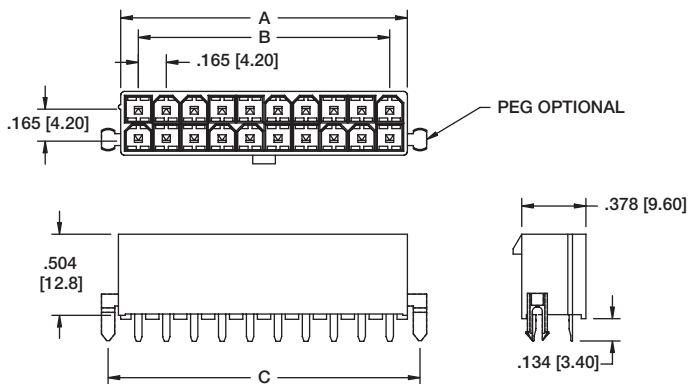
**Recommended PCB Layout**



**DMF  
STRAIGHT MOUNT  
WITH PEG**

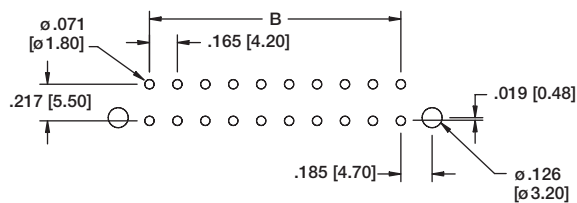


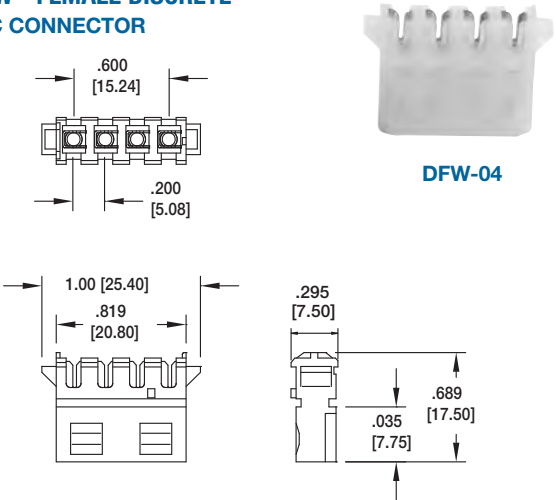
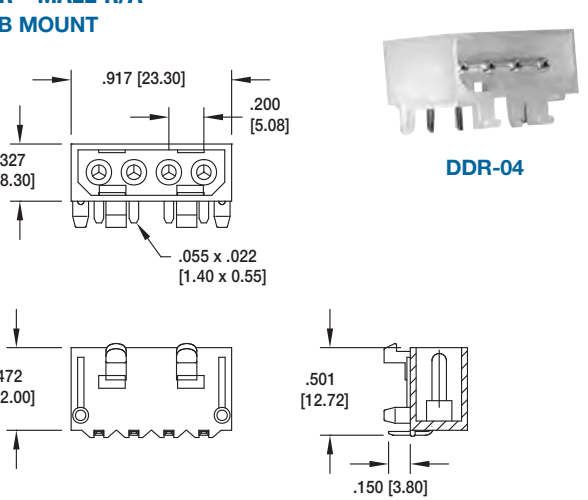
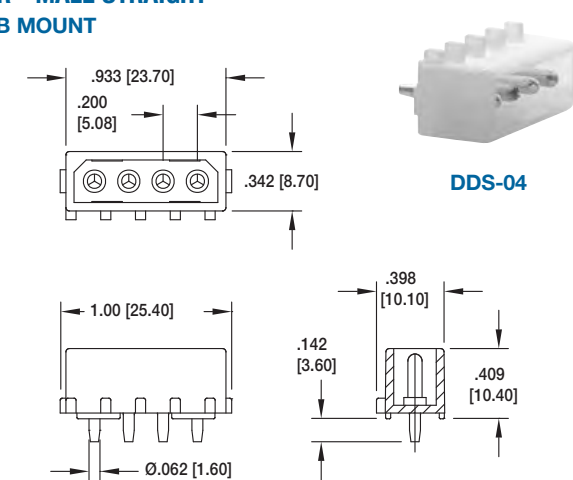
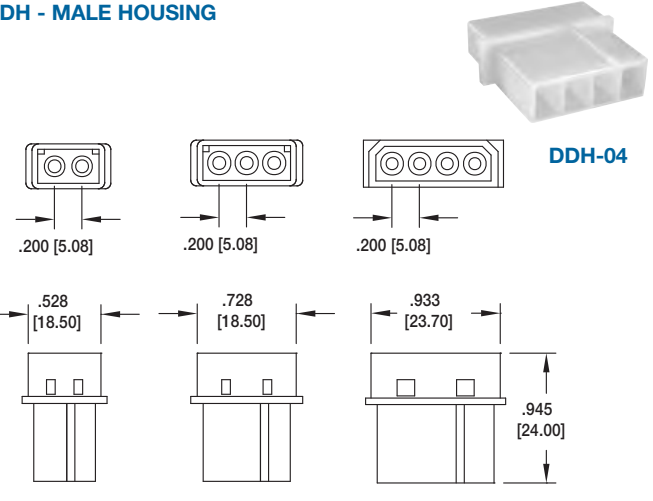
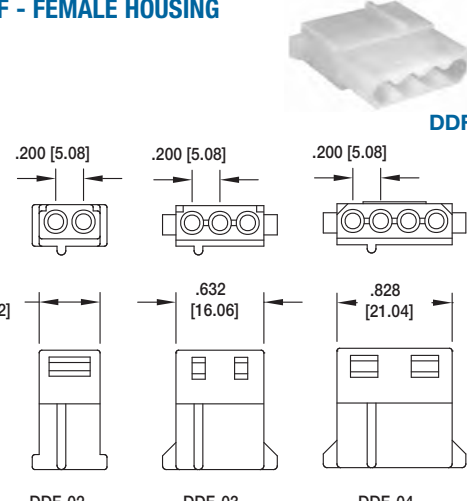
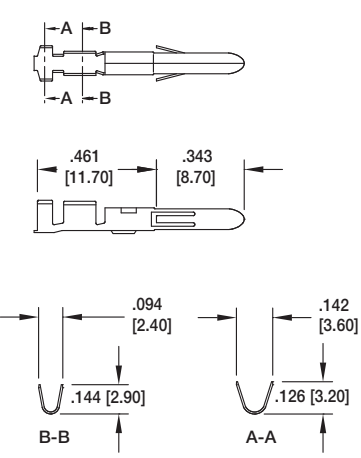
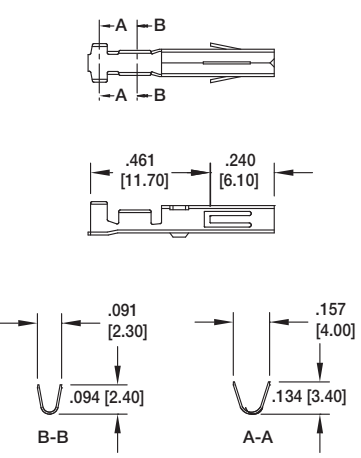
**DMF-12-S-P**



A = .165 [4.20] x No. of Positions + .213 [5.40]  
 B = .165 [4.20] x No. of Spaces

**Recommended PCB Layout**



<p><b>DFW - FEMALE DISCRETE IDC CONNECTOR</b></p>  <p><b>DFW-04</b></p> <p>Dimensions: .600 [15.24], .200 [5.08], 1.00 [25.40], .819 [20.80], .295 [7.50], .689 [17.50], .035 [7.75]</p>	<p><b>DDR - MALE R/A PCB MOUNT</b></p>  <p><b>DDR-04</b></p> <p>Dimensions: .917 [23.30], .200 [5.08], .327 [8.30], .055 x .022 [1.40 x 0.55], .472 [12.00], .501 [12.72], .150 [3.80]</p>	
<p><b>DDR - MALE STRAIGHT PCB MOUNT</b></p>  <p><b>DDS-04</b></p> <p>Dimensions: .933 [23.70], .200 [5.08], .342 [8.70], 1.00 [25.40], .142 [3.60], .398 [10.10], .409 [10.40], Ø.062 [1.60]</p>	<p><b>DDH - MALE HOUSING</b></p>  <p><b>DDH-04</b></p> <p>Dimensions: .200 [5.08], .200 [5.08], .200 [5.08], .528 [18.50], .728 [18.50], .933 [23.70], .945 [24.00]</p> <p>DDH-02, DDH-03, DDH-04</p>	
<p><b>DDF - FEMALE HOUSING</b></p>  <p><b>DDF-04</b></p> <p>Dimensions: .200 [5.08], .200 [5.08], .200 [5.08], .441 [11.12], .632 [16.06], .828 [21.04]</p> <p>DDF-02, DDF-03, DDF-04</p>	<p><b>DMC - MALE CRIMP CONTACT</b></p>  <p>Dimensions: .461 [11.70], .343 [8.70], .094 [2.40], .142 [3.60], .144 [2.90], .126 [3.20]</p> <p>B-B, A-A</p>	<p><b>DFC - FEMALE CRIMP CONTACT</b></p>  <p>Dimensions: .461 [11.70], .240 [6.10], .091 [2.30], .157 [4.00], .094 [2.40], .134 [3.40]</p> <p>B-B, A-A</p>

### INTRODUCTION:

Adam Tech EB Series Euro Blocks are a broad range of PCB mounted blocks in various sizes and profiles with pitches ranging from 15.00mm down to 3.50mm. Included are types that have wire entry from Top, Side or Side Angle. Two piece 'pluggable' versions and 'Lever Actuated' styles are also available. Each contains our unique wire guard design and is precision manufactured for smooth operation and ease of use.

### SPECIFICATIONS:

#### Material:

Insulator: PBT or Nylon, glass reinforced, rated UL94V-0  
 Insulator Color: Green, Black (Blue and Gray optional)  
 Metal cage: Brass, tin plated  
 Screw: Steel, Galvanized or Chromatized  
 Wire Guard: Stainless Steel, Tin plated

#### Electrical:

Operating voltage: 250V AC max.  
 Current rating: 7 to 15 Amp max  
 Contact resistance: 20 mΩ max. initial  
 Insulation resistance: 5000 MΩ min.  
 Dielectric withstanding voltage: 1500V AC for 1 minute

#### Mechanical:

Recommended wire size:  
 EBC & EBF Series: 16 to 26 Awg  
 EBA, EBB, EBD, EBE, & EBJ Series: 14 to 22 Awg  
 EBH & EBP Series: 12 to 24 Awg  
 EB108 Series: 18 to 24 Awg  
 EB109 Series: 10 to 24 Awg  
 Mating durability: 500 Cycles min.

#### Temperature Rating:

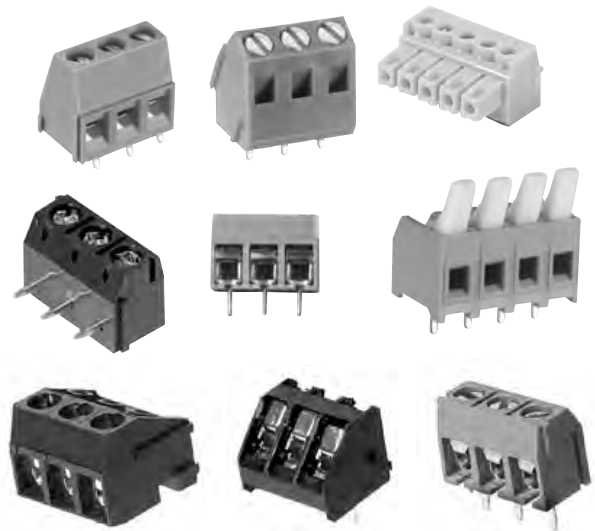
Operating temperature: -55°C to +105°C

#### PACKAGING:

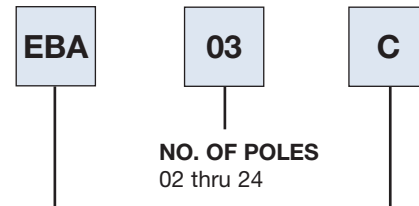
Anti-ESD plastic trays

#### SAFETY AGENCY APPROVALS:

UL Recognized & CSA Certified, File no. E333935



### ORDERING INFORMATION



#### SERIES INDICATOR

- EBA** = .492" Straight
- EBB** = .394" Straight
- EBC** = .327" Straight
- EBD** = .354" Right Angle
- EBE** = .295" Right Angle
- EBF** = .275" Right Angle
- EBG** = .472" Angled
- EBH** = .590" Pluggable
- EBJ** = .433" Pluggable
- EBK** = .440" Pluggable
- EBP** = Pin Header, Straight
- EBQ** = Header, Right Angle
- EBR** = Pin Header, Straight
- EBS** = Header, Right Angle
- EBT** = Pin Header, Straight
- EBV** = Pin Header, Straight
- EBW** = .335" Straight
- EBV2** = Stacked Euro Blocks
- EB108** = .342" Straight
- EB109** = .850" Straight

#### CENTERLINE SPACING

- A** = .138" [3.50mm]
- B** = .150" [3.81mm]
- C** = .197" [5.00mm]
- D** = .200" [5.08mm]
- E** = .276" [7.00mm]
- G** = .300" [7.62mm]
- H** = .394" [10.00mm]
- J** = .400" [10.16mm]
- K** = .591" [15.00mm]
- S** = .374" [9.50mm]

#### STANDARD BODY COLORS:


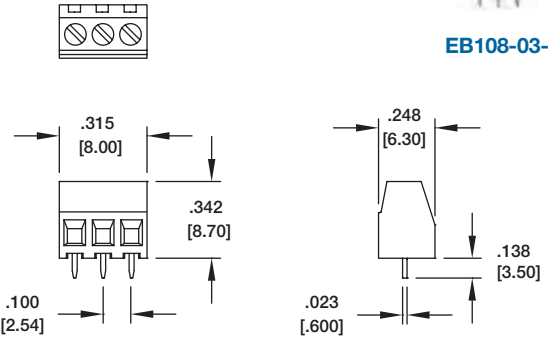

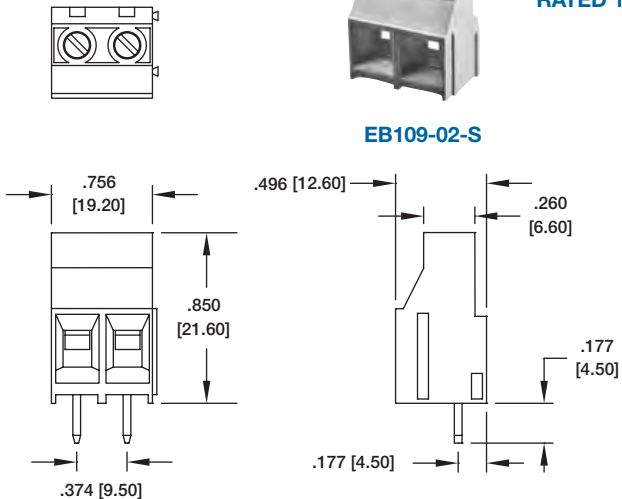

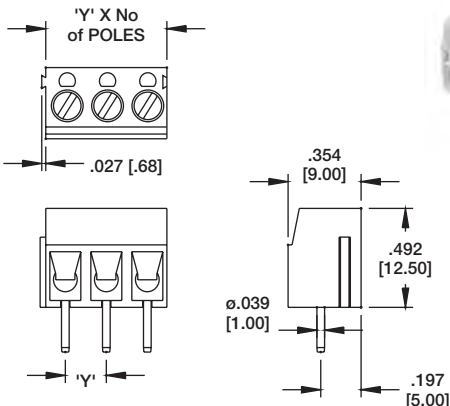

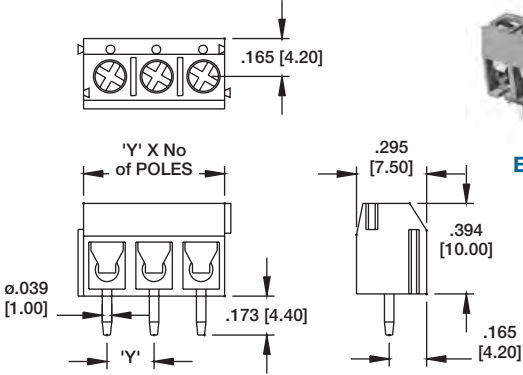

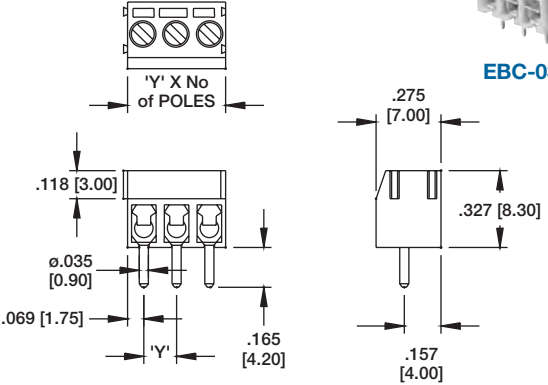

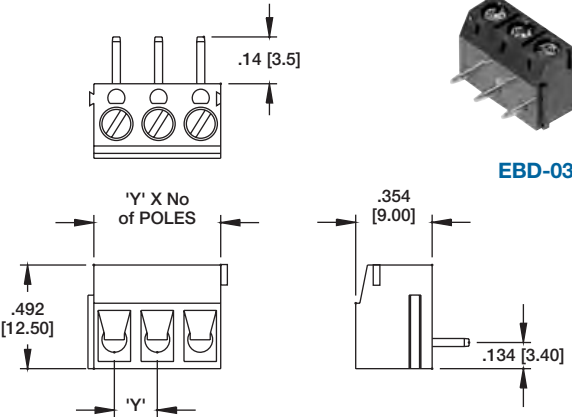
**BLACK:** Series EBA, EBB, EBC, EBD, EBE, EBF, EBG, EBJ, EBT  
**GREEN:** Series EBH, EBP, EBQ, EBK, EBR, EBS, EBV, EBM, EBN, EBW, TSE, EB108, EB109

*Consult factory for additional colors*

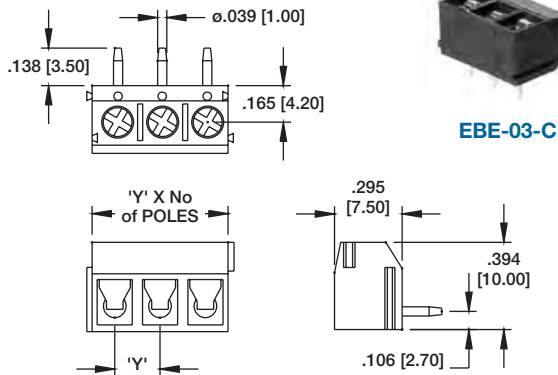
#### OPTIONS:

Add designator(s) to end of part number  
**C** = Closed sides, body styles EBP & EBQ  
**E** = Mounting ears, body styles EBH & EBK



<p style="text-align: right;"><b>EB108</b></p>  <p style="text-align: center;"><b>EB108-03-L</b></p>  <p>Dimensions: .315 [8.00], .342 [8.70], .100 [2.54], .248 [6.30], .138 [3.50], .023 [.600]</p>	<p style="text-align: right;"><b>EB109</b> RATED 15A</p>  <p style="text-align: center;"><b>EB109-02-S</b></p>  <p>Dimensions: .756 [19.20], .496 [12.60], .260 [6.60], .177 [4.50], .850 [21.60], .374 [9.50], .177 [4.50]</p>
<p style="text-align: right;"><b>EBA</b></p>  <p style="text-align: center;"><b>EBA-03-C</b></p>  <p>Dimensions: 'Y' X No of POLES, .027 [.68], .354 [9.00], .492 [12.50], <math>\phi</math>.039 [1.00], .197 [5.00]</p> <p>Available centerline spacings: C = .197 [5.00] H = .394 [10.00] K = .591 [15.00]</p>	<p style="text-align: right;"><b>EBB</b></p>  <p style="text-align: center;"><b>EBB-03-D</b></p>  <p>Dimensions: .165 [4.20], 'Y' X No of POLES, .295 [7.50], .394 [10.00], <math>\phi</math>.039 [1.00], .173 [4.40], .165 [4.20]</p> <p>Available centerline spacings: C = .197 [5.00] D = .200 [5.08] H = .394 [10.00] J = .400 [10.16]</p>
<p style="text-align: right;"><b>EBC</b></p>  <p style="text-align: center;"><b>EBC-03-A</b></p>  <p>Dimensions: 'Y' X No of POLES, .118 [3.00], <math>\phi</math>.035 [0.90], .069 [1.75], .165 [4.20], .275 [7.00], .327 [8.30], .157 [4.00]</p> <p>Available centerline spacings: A = .138 [3.50] E = .276 [7.00]</p>	<p style="text-align: right;"><b>EBD</b></p>  <p style="text-align: center;"><b>EBD-03-C</b></p>  <p>Dimensions: .14 [3.5], 'Y' X No of POLES, .492 [12.50], .354 [9.00], .134 [3.40]</p> <p>Available centerline spacings: C = .197 [5.00] H = .394 [10.00]</p>

**EBE**

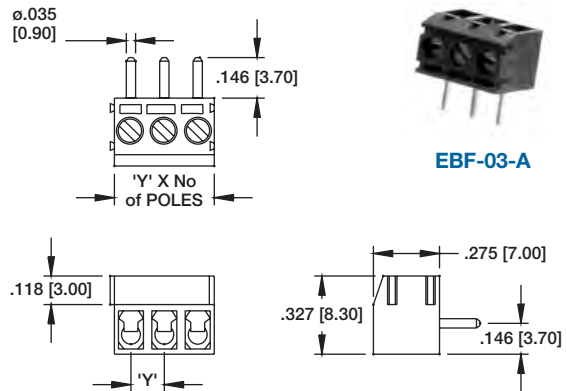


**EBE-03-C**

REPLACE 'Y' WITH PITCH

C = .197 [5.00] D = .200 [5.08] H = .394 [10.00] J = .400 [10.16]

**EBF**

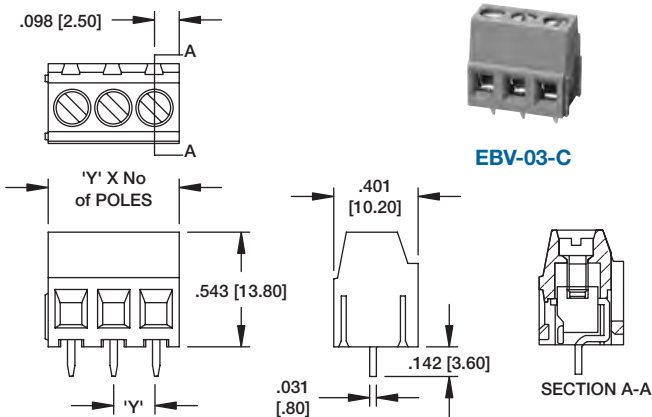


**EBF-03-A**

REPLACE 'Y' WITH PITCH

A = .138 [3.50] E = .276 [7.00]

**EBV**

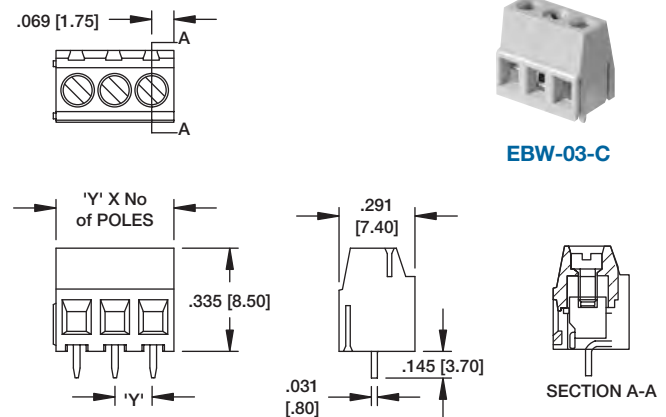


**EBV-03-C**

REPLACE 'Y' WITH PITCH

C = .197 [5.00] D = .200 [5.08] H = .394 [10.00] J = .400 [10.16]

**EBW**

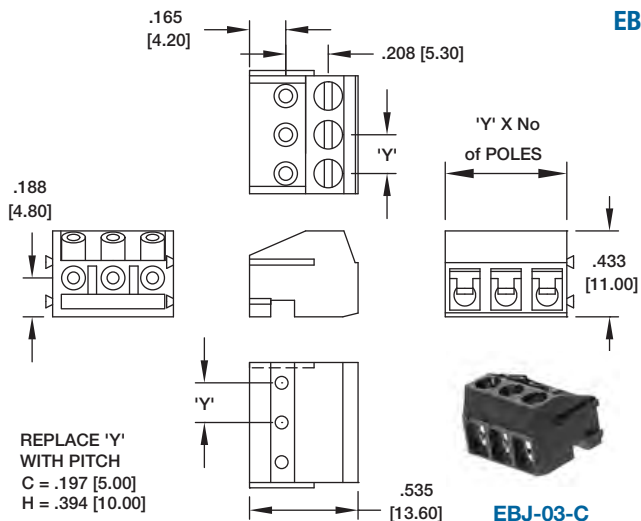


**EBW-03-C**

REPLACE 'Y' WITH PITCH

A = .138 [3.50] E = .276 [7.00]

**EBJ**

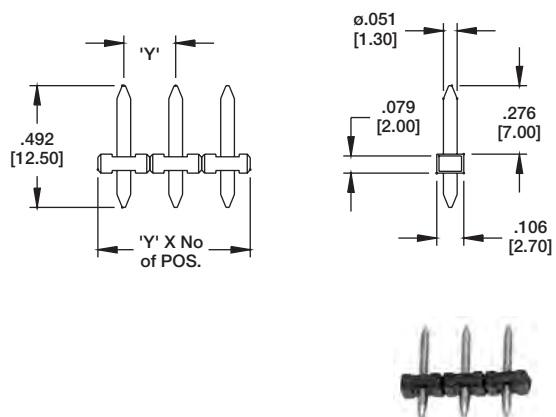


**EBJ-03-C**

REPLACE 'Y' WITH PITCH

C = .197 [5.00]  
H = .394 [10.00]

**EBT**



**EBT-03-C**

REPLACE 'Y' WITH PITCH

C = .197 [5.00] H = .394 [10.00]

**PLUGABLE BLOCK WITH STRAIGHT OR RIGHT ANGLE HEADER** **EBH**

**EBH-03-C**

**PLUGABLE BLOCK WITH STRAIGHT OR RIGHT ANGLE HEADER** **EBK**

**EBK-07-B**

**STRAIGHT HEADER** **EBP**

**EBP-04-C**

**STRAIGHT HEADER** **EBR**

**EBR-07-B**

**RIGHT ANGLE HEADER** **EBQ**

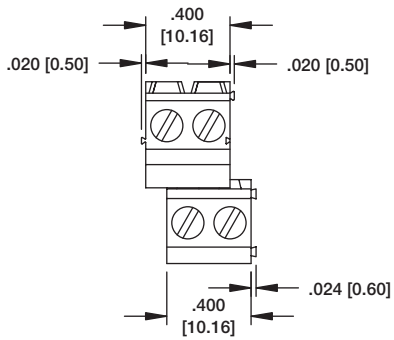
**EBQ-04-C**

REPLACE 'Y' WITH PITCH  
 C = .197 [5.00] D = .200 [5.08]  
 H = .394 [10.00] J = .400 [10.16]

**RIGHT ANGLE HEADER** **EBS**

**EBS-07-B**

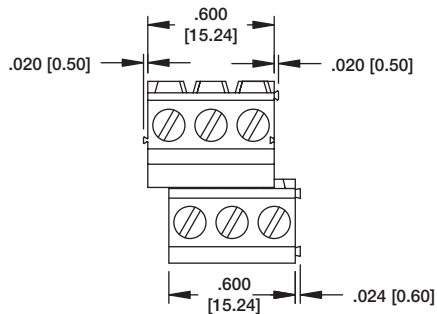
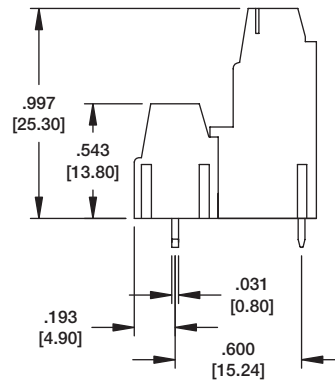
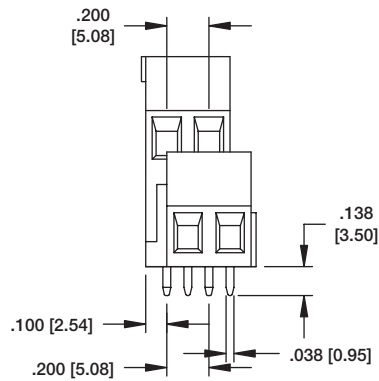
REPLACE 'Y' WITH PITCH  
 A = .138 [3.50] B = .150 [3.81]  
 E = .276 [7.00] G = .300 [7.62]



**EBV2-02-D**  
**2 POSITION STACKED BLOCK**  
**SLIDE TOGETHER SIDE STACKABLE**



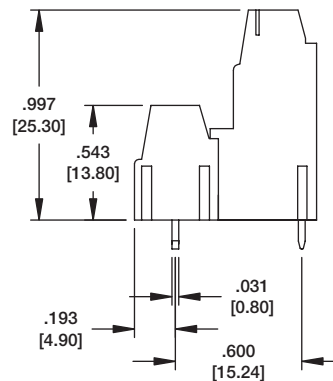
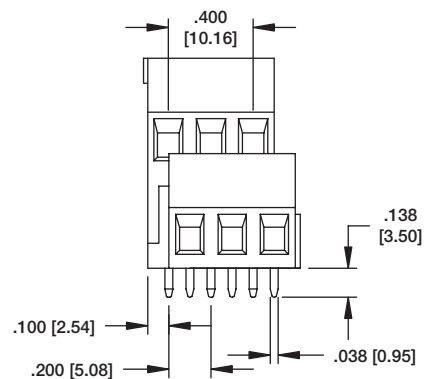
**EBV2-02-D**



**EBV2-03-D**  
**3 POSITION STACKED BLOCK**  
**SLIDE TOGETHER SIDE STACKABLE**



**EBV2-03-D**





### INTRODUCTION:

Adam Tech TB & TD series Terminal Blocks are a full range of Blocks which are most commonly used to terminate wires and eliminate splicing. They are offered in five different centerlines with open or closed back option. Each is available for bulkhead or PCB mounting with choice of Straight or Right Angle PCB terminals, Cliptite and or Turret Terminals. Our TB series is manufactured from flexible thermoplastic and resists cracking and breaking. Our TD series is manufactured from Hi-Temp Phenolic and has current carrying capability up to 30 Amps.

### FEATURES:

Wide range of sizes and profiles  
 Choice of open or closed back design  
 Choice of multiple terminations  
 Flexible Break resistant Thermoplastic.

### SPECIFICATIONS:

#### Material:

Insulator:  
 TB Series: PBT, rated UL94V-0  
 TD Series: Phenolic, glass reinforced, rated UL94V-0  
 Insulator Color: Black  
 Contacts: Brass, tin plated  
 Screws: Steel, nickel plated  
 Hardware: Brass, tin plated

#### Electrical:

Operation voltage: 300V AC max.  
 Current rating:  
 TBA / TBB / TDA series: 10 Amps max.  
 TBC / TBD / TBE / TBF / TBG / TBH series: 15 Amps max.  
 TDB series: 20 Amps max  
 TDC series: 30 Amps max  
 TDD series: 35 Amps max  
 TDG series: 6 Amps max  
 TDH series: 15 Amps max  
 TDJ series: 50 Amps max  
 Contact resistance: 20MΩ max  
 Insulation resistance: 500 MΩ min.  
 Dielectric withstanding voltage: 2000V AC for 1 minute

#### Mechanical:

Wire Range:  
 TBA / TBB Series: 22 – 16 Awg  
 TBC / TBE Series: 22 – 14 Awg  
 TBD Series: 22 – 14 Awg  
 TBF / TBG Series: 22 – 14 Awg  
 TDA / TDB / TDC Series: 18 - 12 Awg  
 TDD/TDH Series: 22 – 10 Awg  
 TDG Series: 22 – 12 Awg  
 TDJ Series: 16 – 8 Awg

#### Temperature Rating:

Operating temperature: -40°C to +105°C

#### PACKAGING:

Anti-ESD plastic bags

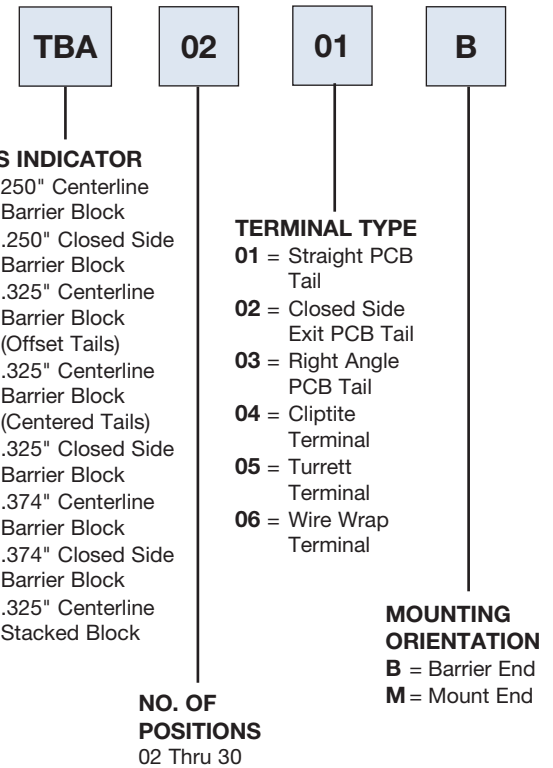
#### SAFETY AGENCY APPROVALS:

UL Recognized & CSA Certified,  
 File no. E333935



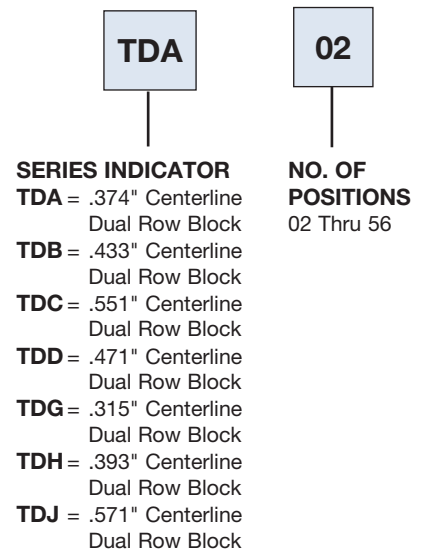
### ORDERING INFORMATION

#### TB SERIES TERMINAL BLOCKS

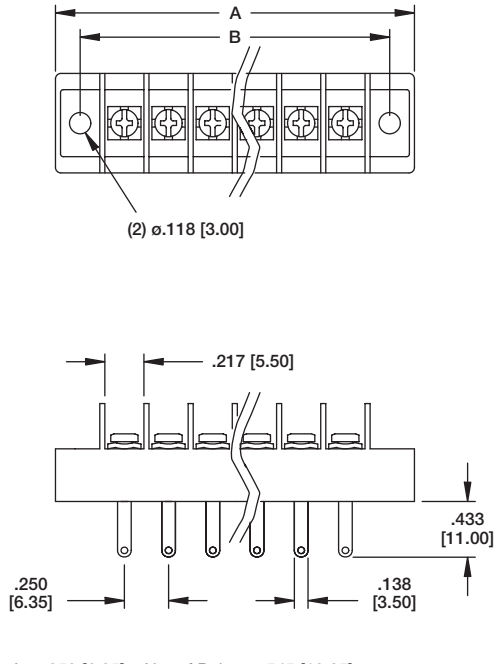


### ORDERING INFORMATION

#### TD SERIES DUAL ROW BLOCKS

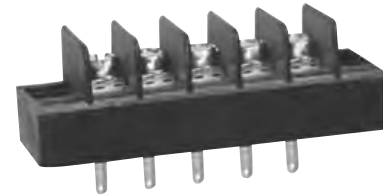


TBA



$$A = .250 [6.35] \times \text{No. of Poles} + .545 [13.85]$$

$$B = .250 [6.35] \times (\text{No. of Poles} + .250 [6.35])$$

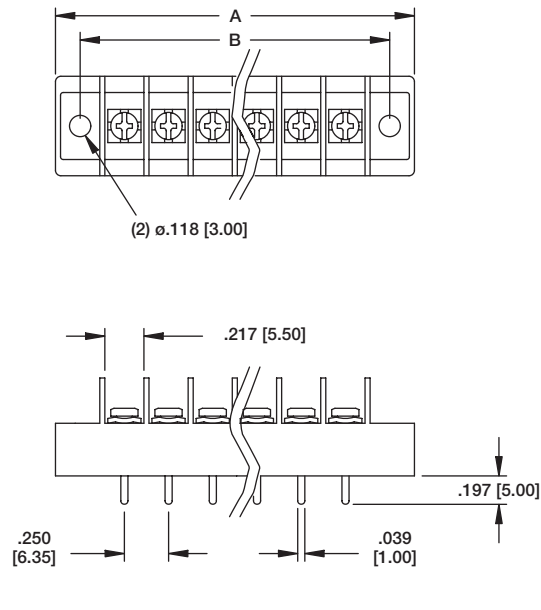


TBA-05-04-M



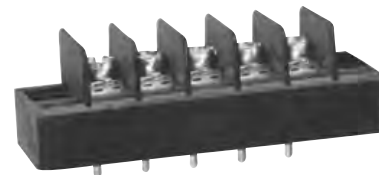
TBA-05-04-B

TBA



$$A = .250 [6.35] \times \text{No. of Poles} + .545 [13.85]$$

$$B = .250 [6.35] \times (\text{No. of Poles} + .250 [6.35])$$

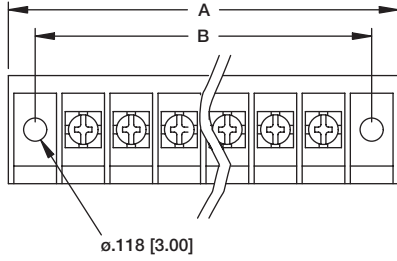


TBA-05-01-M



TBA-05-01-B

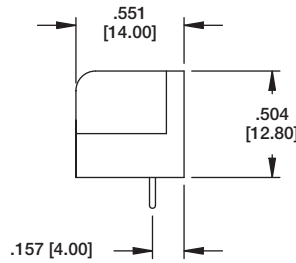
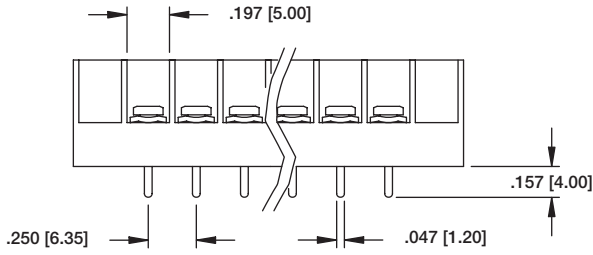
TBB



TBB-05-01-B

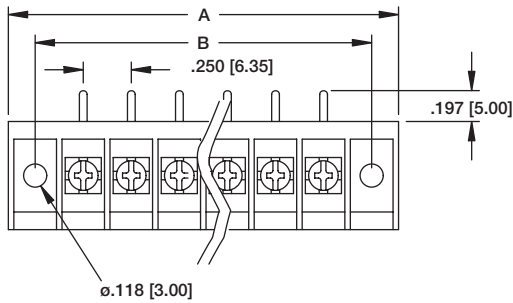


TBB-03-01-M



$A = .250 [6.35] \times \text{No. of Poles} + .557 [14.15]$   
 $B = .250 [6.35] \times (\text{No. of Poles} + .250 [6.35])$

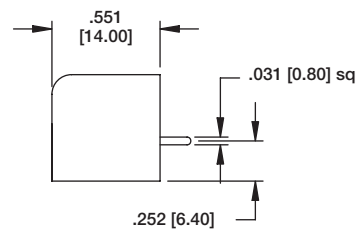
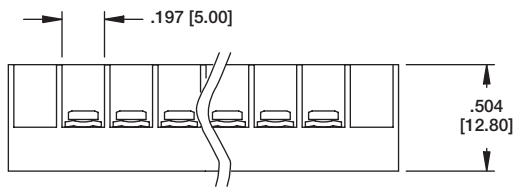
TBB



TBB-05-02-B

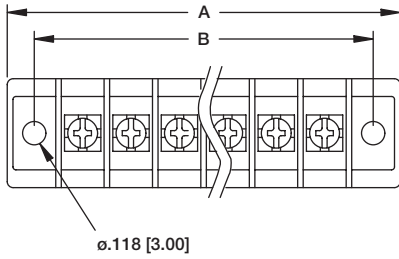


TBB-03-02-M

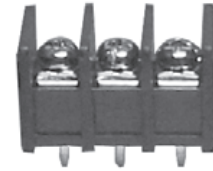
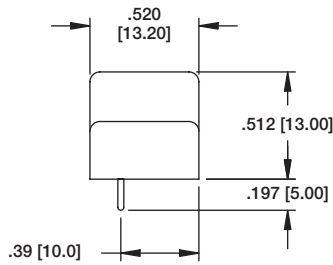
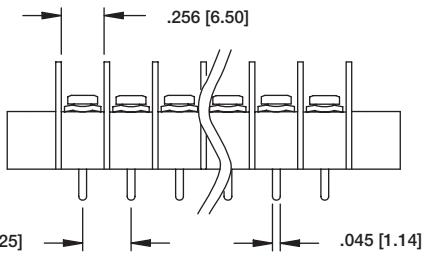


$A = .250 [6.35] \times \text{No. of Poles} + .557 [14.15]$   
 $B = .250 [6.35] \times (\text{No. of Poles} + .250 [6.35])$

TBC



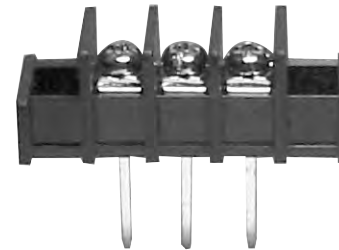
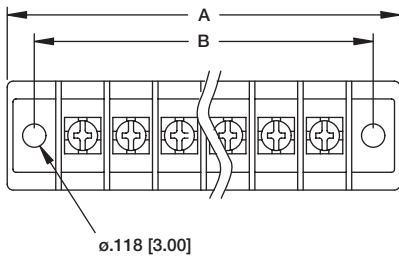
TBC-03-01-M



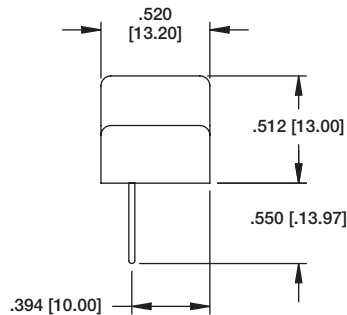
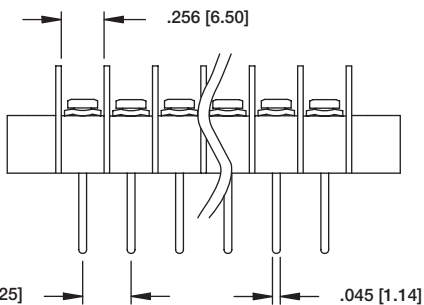
TBC-03-01-B

A =  $.325 [8.25] \times \text{No. of Poles} + .728 [18.5]$   
 B =  $.325 [8.25] \times (\text{No. of Poles} + 1)$

TBC



TBC-03-06-M



TBC-03-06-B

A =  $.325 [8.25] \times \text{No. of Poles} + .728 [18.5]$   
 B =  $.325 [8.25] \times (\text{No. of Poles} + 1)$

**TBD-03-04-M**

**TBD-03-04-B**

A = .325 [8.25] x No. of Poles + .728 [18.5]  
 B = .325 [8.25] x (No. of Poles + 1)

**TBD-03-01-M**

**TBD-03-01-B**

A = .325 [8.25] x No. of Poles + .728 [18.5]  
 B = .325 [8.25] x (No. of Poles + 1)

**TBD-03-03-M**

**TBD-03-03-B**

A = .325 [8.25] x No. of Poles + .728 [18.5]  
 B = .325 [8.25] x (No. of Poles + 1)

**TBE**

**TBE-05-03-B**

**TBE-03-03-M**

A = .325 [8.25] x No. of Poles + .728 [18.5]  
 B = .325 [8.25] x (No. of Poles + .325 [8.25])

**TBE**

**TBE-05-02-B**

**TBE-03-02-M**

A = .325 [8.25] x No. of Poles + .728 [18.5]  
 B = .325 [8.25] x (No. of Poles + .325 [8.25])

**TBE**

**TBE-05-01-B**

**TBE-03-01-M**

A = .325 [8.25] x No. of Poles + .728 [18.5]  
 B = .325 [8.25] x (No. of Poles + .325 [8.25])

**TBE**

**TBE-05-02-B**

**TBE-03-02-M**

A = .325 [8.25] x No. of Poles + .728 [18.5]  
 B = .325 [8.25] x (No. of Poles + .325 [8.25])

**TBE**

**TBE-05-01-B**

**TBE-03-01-M**

A = .325 [8.25] x No. of Poles + .728 [18.5]  
 B = .325 [8.25] x (No. of Poles + .325 [8.25])

**TBE**

**TBE-05-01-B**

**TBE-03-01-M**

A = .325 [8.25] x No. of Poles + .728 [18.5]  
 B = .325 [8.25] x (No. of Poles + .325 [8.25])

<p>Technical drawing of TBF-05-03-M terminal block showing top and side views with dimensions: A, B, <math>\phi .126 [3.20]</math>, <math>.315 [8.00]</math>, <math>.740 [18.80]</math>, <math>.374 [9.50]</math>, <math>.118 [3.00]</math>, <math>.325 [8.25]</math>.</p>	<p><b>TBF-05-03-M</b></p> <p><b>TBF-05-03-B</b></p> <p>A = <math>.374 [9.50] \times \text{No. of Poles} + .803 [20.40]</math>            B = <math>.374 [9.50] \times (\text{No. of Poles} + .374 [9.50])</math></p>	<p><b>TBF</b></p>
<p>Technical drawing of TBF-05-05-M terminal block showing top and side views with dimensions: A, B, <math>\phi .126 [3.20]</math>, <math>.315 [8.00]</math>, <math>.740 [18.80]</math>, <math>.374 [9.50]</math>, <math>.118 [3.00]</math>, <math>.325 [8.25]</math>.</p>	<p><b>TBF-05-05-M</b></p> <p><b>TBF-05-05-B</b></p> <p>A = <math>.374 [9.50] \times \text{No. of Poles} + .803 [20.40]</math>            B = <math>.374 [9.50] \times (\text{No. of Poles} + .374 [9.50])</math></p>	<p><b>TBF</b></p>
<p>Technical drawing of TBF-05-01-M terminal block showing top and side views with dimensions: A, B, <math>\phi .126 [3.20]</math>, <math>.315 [8.00]</math>, <math>.740 [18.80]</math>, <math>.374 [9.50]</math>, <math>.045 [1.14]</math>, <math>.325 [8.25]</math>.</p>	<p><b>TBF-05-01-M</b></p> <p><b>TBF-05-01-B</b></p> <p>A = <math>.374 [9.50] \times \text{No. of Poles} + .803 [20.40]</math>            B = <math>.374 [9.50] \times (\text{No. of Poles} + .374 [9.50])</math></p>	<p><b>TBF</b></p>



**TBG**

**TBG-05-02-B**

**TBG-03-02-M**

CLOSED SIDE ENTRY PCB TERMINAL

A = .374 [9.50] x No. of Poles + .807 [20.50]  
 B = .374 [9.50] x (No. of Poles + .374 [9.50])

**TBG**

**TBG-05-01-B**

**TBG-03-01-M**

CLOSED SIDE ENTRY PCB TERMINAL

A = .374 [9.50] x No. of Poles + .807 [20.50]  
 B = .374 [9.50] x (No. of Poles + .374 [9.50])

**TBG**


**TBG-05-03-B**

**TBG-03-03-M**

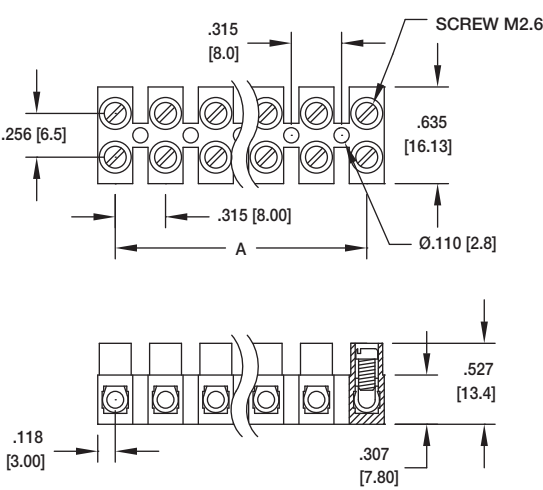
CLOSED SIDE ENTRY PCB TERMINAL

A = .374 [9.50] x No. of Poles + .807 [20.50]  
 B = .374 [9.50] x (No. of Poles + .374 [9.50])

**TDG**  
8.0mm PITCH




**TDG-10**

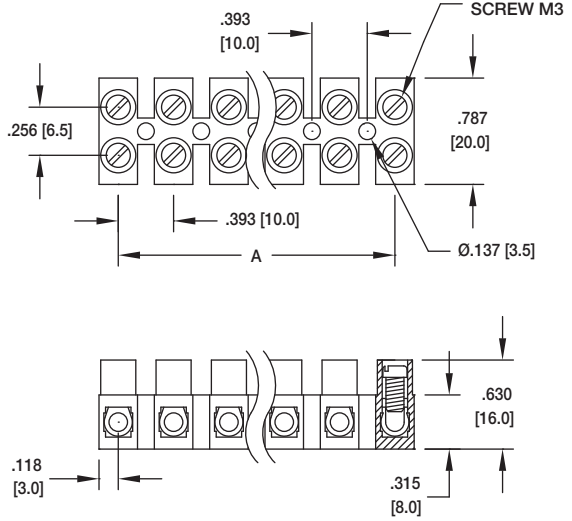


Positions 2 thru 12  
A = .315 [8.00] x No. of Poles -1

**TDH**  
10.0mm PITCH




**TDH-10**

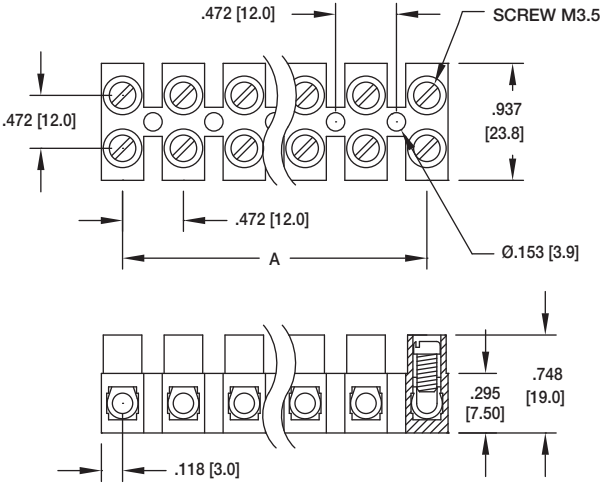


Positions 2 thru 12  
A = .393 [10.00] x No. of Poles -1

**TDD**  
12.0mm PITCH

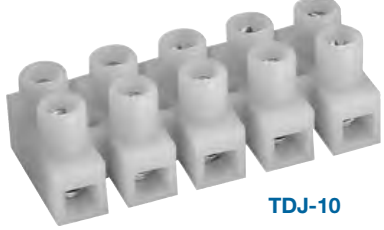


**TDD-10**

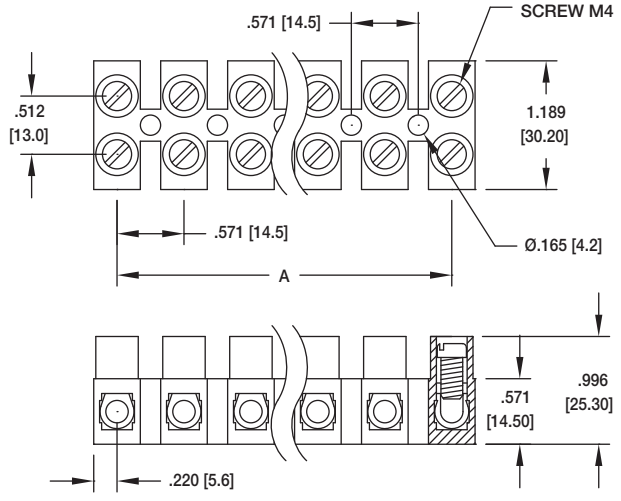


Positions 2 thru 12  
A = .472 [12.00] x No. of Poles -1

**TDJ**  
14.5mm PITCH

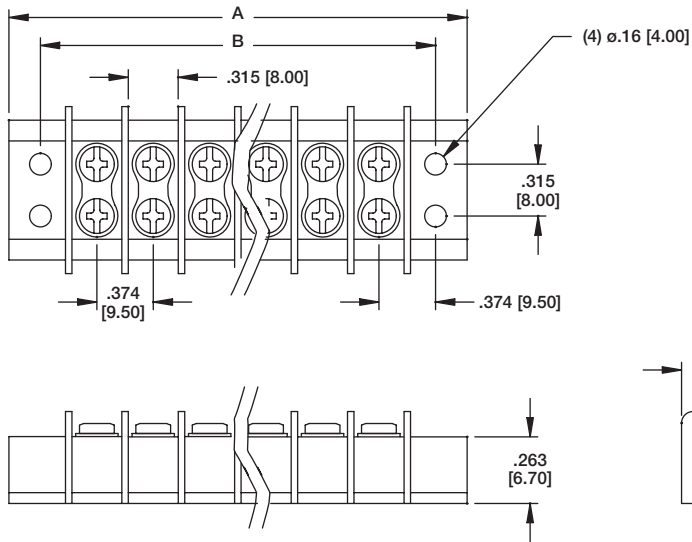


**TDJ-10**

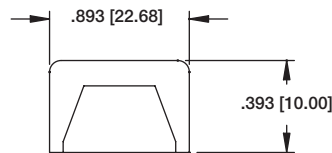


Positions 2 thru 12  
A = .571 [14.50] x No. of Poles -1

**TDA**

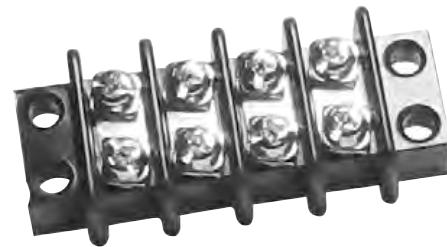
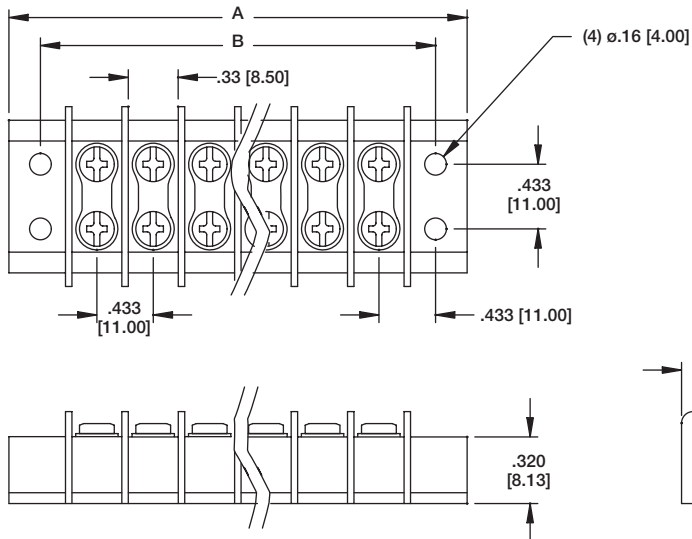


**TDA-03**

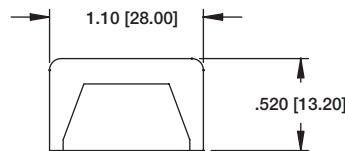


$A = .374 [9.50] \times \text{No. of Poles} + .670 [17.00]$   
 $B = .374 [9.50] \times \text{No. of Poles} + .374 [9.50]$

**TDB**

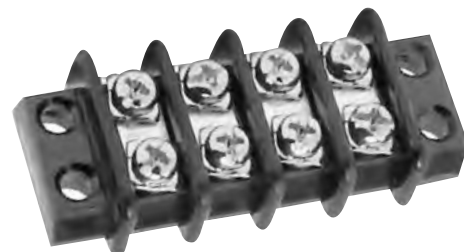
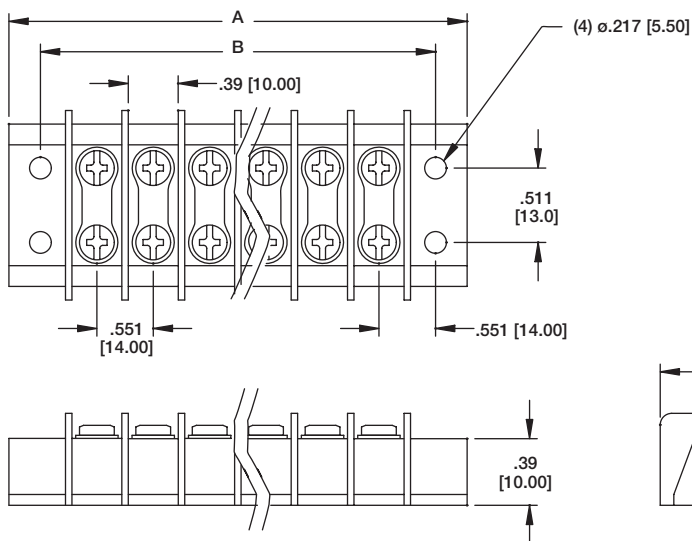


**TDB-04**

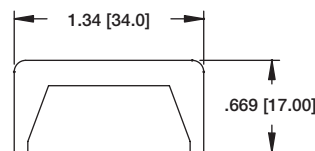


$A = .433 [11.00] \times \text{No. of Poles} + .815 [20.70]$   
 $B = .433 [11.00] \times \text{No. of Poles} + .433 [11.00]$

**TDC**



**TDC-04**



$A = .551 [14.00] \times \text{No. of Poles} + .104 [26.40]$   
 $B = .551 [14.00] \times \text{No. of Poles} + .551 [14.00]$

**INTRODUCTION:**

Adam Tech BH and BS series Battery Holders, Mobile Battery Connectors and Battery Snaps are designed to contain batteries in electronic equipment. This series includes battery holders and coin cell holders for AAA, AA, C, D, 9V and lithium coin cells. Adam Tech produces this series in a variety of terminations such as thru-hole PCB leads, SMT leads, wire leads and solder lugs. Custom lead lengths on wired configurations are also available. Our superior retention holders are molded of UL94-VO or UL94-HB material with spring steel contacts and perform extremely well under normal or adverse environment conditions.

**BATTERY HOLDER SPECIFICATIONS:**

**Material:**

Insulator: Impact resistant Polypropylene, rated UL94-HB  
 9V Holder, ABS, Glass filled rated UL94-HB  
 Insulator Color: Black  
 Spring: Spring Steel, Nickel plated  
 Contacts: Spring steel, Nickel plated  
 Snap terminals: Brass, Nickel plated  
 Wire: 26 Awg, PVC  
 Electrical:  
 Operating voltage: 1.5V to 9V DC max.  
 Temperature Rating:  
 Operating temperature: -55°C to +85°C

**BATTERY SNAPS SPECIFICATIONS:**

**Material:**  
 Soft PVC or rigid PP or PE  
 Snap terminals: Brass, nickel plated  
 Wire: 26 Awg stranded, UL1007, PVC insulation

**Electrical:**

Operating voltage: 9V max.

**Temperature Rating:**

Operating temperature: -55°C to +85°C

**COIN CELL HOLDER & MOBILE BATTERY CONNECTOR SPECIFICATIONS:**

**Material:**

Thru-hole: PBT Thermoplastic rated UL-94-VO  
 SMT: Hi-Temp Thermoplastic rated UL-94-VO

**Electrical:**

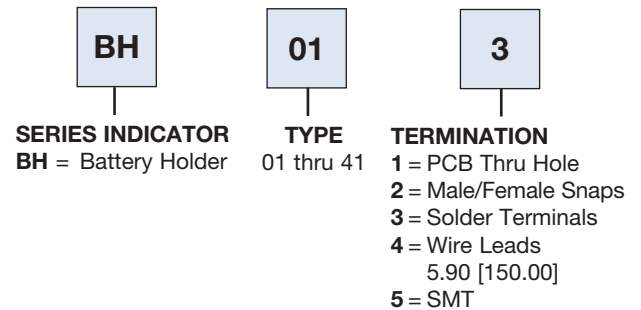
Operating voltage: 9V max.  
 Temperature Rating:  
 Operating temperature: -55°C to +85°C

**SAFETY AGENCY APPROVALS:**

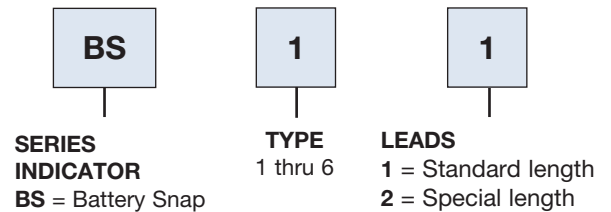
Manufactured with UL Recognized Materials



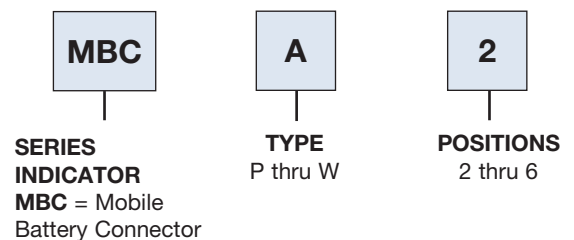
**ORDERING INFORMATION BATTERY HOLDER**

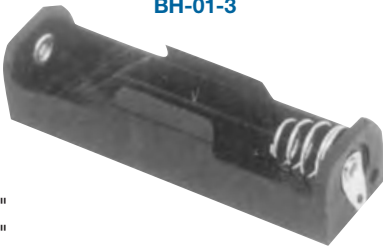


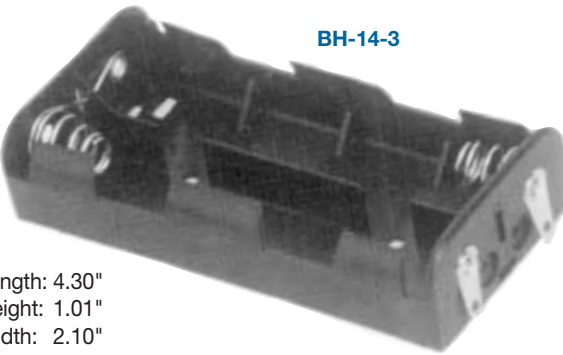


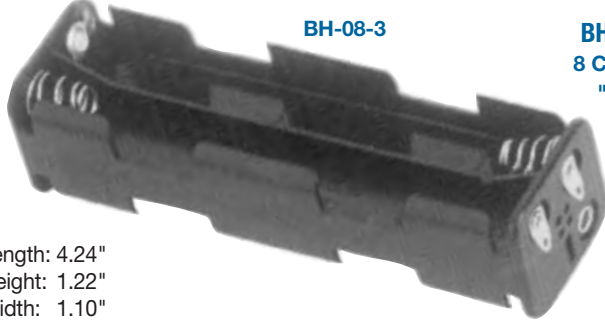
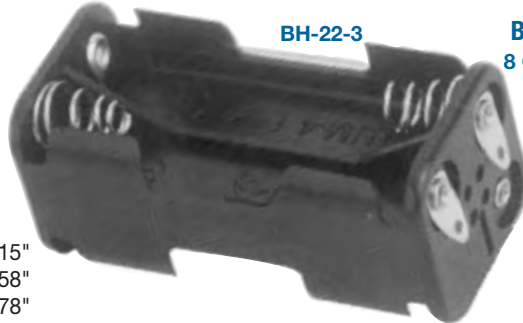
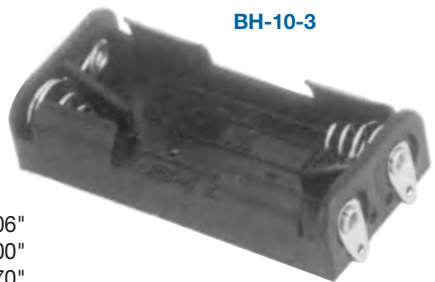



**BATTERY SNAPS**




**MOBILE BATTERY CONNECTOR**

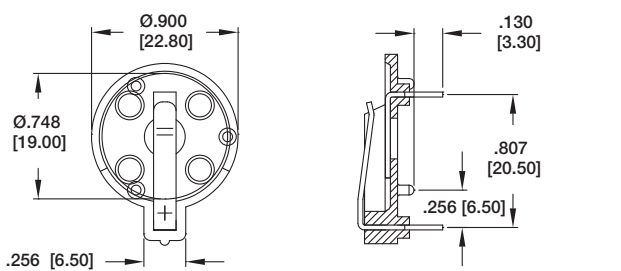


<p style="text-align: center;"><b>BH-01-3</b></p>  <p style="text-align: right;"><b>BH-01</b> 1 CELL "AA"</p> <p>Length: 2.25" Height: .580" Width: .650"</p>	<p style="text-align: center;"><b>BH-13-3</b></p>  <p style="text-align: right;"><b>BH-13</b> 2 CELL "C"</p> <p>Length: 2.41" Width: .900" Height: 2.21"</p>
<p style="text-align: center;"><b>BH-03-3</b></p>  <p style="text-align: right;"><b>BH-03</b> 2 CELL "AA"</p> <p>Length: 2.26" Height: .590" Width: 1.23"</p>	<p style="text-align: center;"><b>BH-14-3</b></p>  <p style="text-align: right;"><b>BH-14</b> 4 CELL "C"</p> <p>Length: 4.30" Height: 1.01" Width: 2.10"</p>
<p style="text-align: center;"><b>BH-05-3</b></p>  <p style="text-align: right;"><b>BH-05</b> 4 CELL "AA"</p> <p>Length: 2.28" Height: 1.10" Width: 1.22"</p>	<p style="text-align: center;"><b>BH-21-3</b></p>  <p style="text-align: right;"><b>BH-21</b> 6 CELL "D"</p> <p>Length: 2.68" Height: 1.13" Width: 2.85"</p>
<p style="text-align: center;"><b>BH-08-3</b></p>  <p style="text-align: right;"><b>BH-08</b> 8 CELL "AA"</p> <p>Length: 4.24" Height: 1.22" Width: 1.10"</p>	<p style="text-align: center;"><b>BH-22-3</b></p>  <p style="text-align: right;"><b>BH-22</b> 8 CELL "D"</p> <p>Length: 5.15" Height: 2.58" Width: 2.78"</p>
<p style="text-align: center;"><b>BH-10-3</b></p>  <p style="text-align: right;"><b>BH-10</b> 2 CELL "AAA"</p> <p>Length: 2.06" Height: .500" Width: .970"</p>	<p style="text-align: center;"><b>BH-24-3</b></p>  <p style="text-align: right;"><b>BH-24</b> "9 VOLT"</p> <p>Length: 2.13" Height: .820" Width: 1.19"</p>

**BH-25-1**  
COIN CELL BATTERY HOLDER




**BH-25-1**



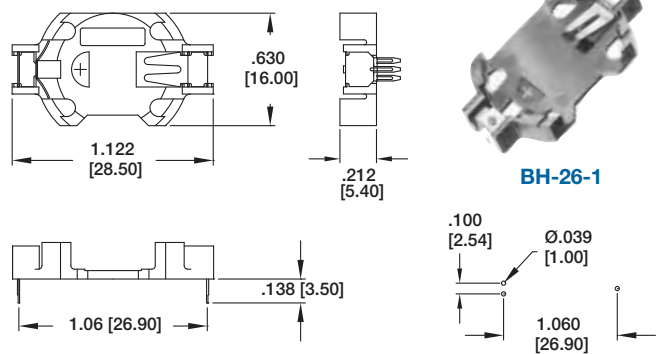
Recommended PCB Layout

Dimensions:  $\text{Ø}.900$  [22.80],  $\text{Ø}.748$  [19.00],  $.256$  [6.50],  $.807$  [20.50],  $\text{Ø}.040$  [1.02],  $.130$  [3.30],  $.256$  [6.50],  $.807$  [20.50]

**BH-26-1**  
COIN CELL BATTERY HOLDER



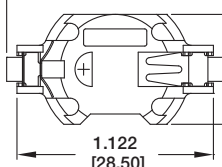
**BH-26-1**



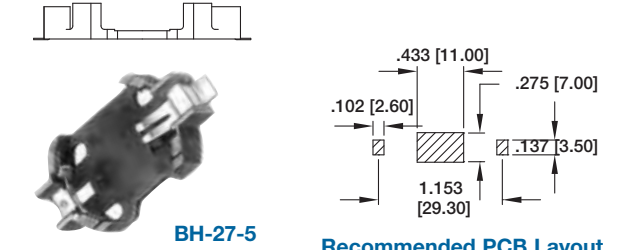
Recommended PCB Layout

Dimensions:  $1.122$  [28.50],  $.630$  [16.00],  $.212$  [5.40],  $1.06$  [26.90],  $.138$  [3.50],  $.100$  [2.54],  $\text{Ø}.039$  [1.00],  $1.060$  [26.90]

**BH-27-5**  
COIN CELL BATTERY HOLDER




**BH-27-5**



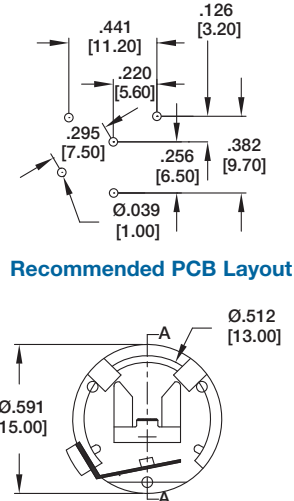
Recommended PCB Layout

Dimensions:  $1.260$  [32.00],  $.630$  [16.00],  $1.122$  [28.50],  $.212$  [5.40],  $.433$  [11.00],  $.275$  [7.00],  $.102$  [2.60],  $.137$  [3.50],  $1.153$  [29.30]

**BH-41A-1**  
COIN CELL BATTERY HOLDER




**BH-41A-1**



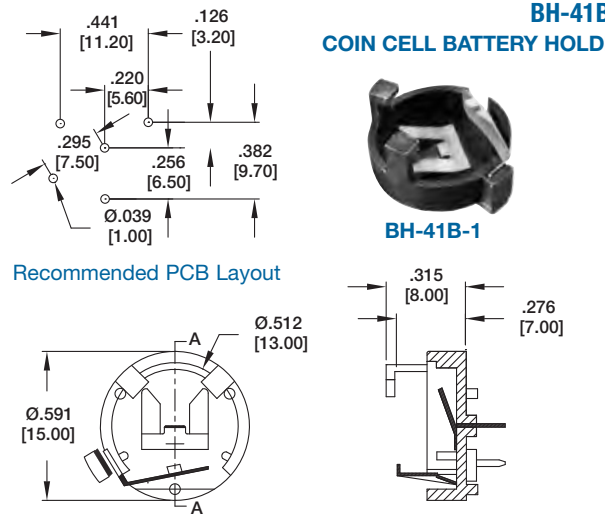
Recommended PCB Layout

Dimensions:  $.441$  [11.20],  $.126$  [3.20],  $.220$  [5.60],  $.295$  [7.50],  $.256$  [6.50],  $.382$  [9.70],  $\text{Ø}.039$  [1.00],  $\text{Ø}.512$  [13.00],  $\text{Ø}.591$  [15.00],  $.213$  [5.40],  $.173$  [4.40]

**BH-41B-1**  
COIN CELL BATTERY HOLDER




**BH-41B-1**



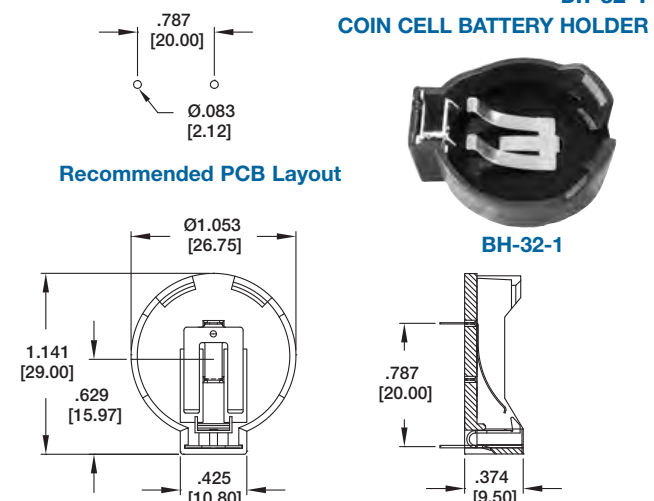
Recommended PCB Layout

Dimensions:  $.441$  [11.20],  $.126$  [3.20],  $.220$  [5.60],  $.295$  [7.50],  $.256$  [6.50],  $.382$  [9.70],  $\text{Ø}.039$  [1.00],  $\text{Ø}.512$  [13.00],  $\text{Ø}.591$  [15.00],  $.315$  [8.00],  $.276$  [7.00]

**BH-32-1**  
COIN CELL BATTERY HOLDER



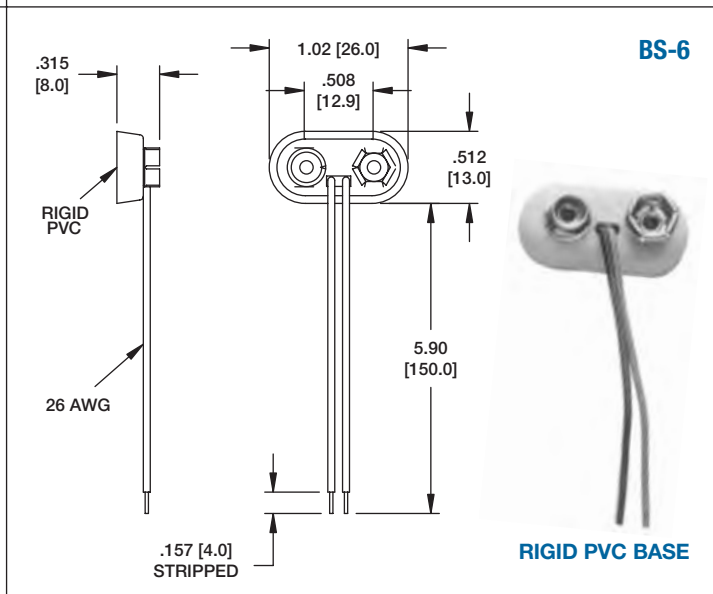
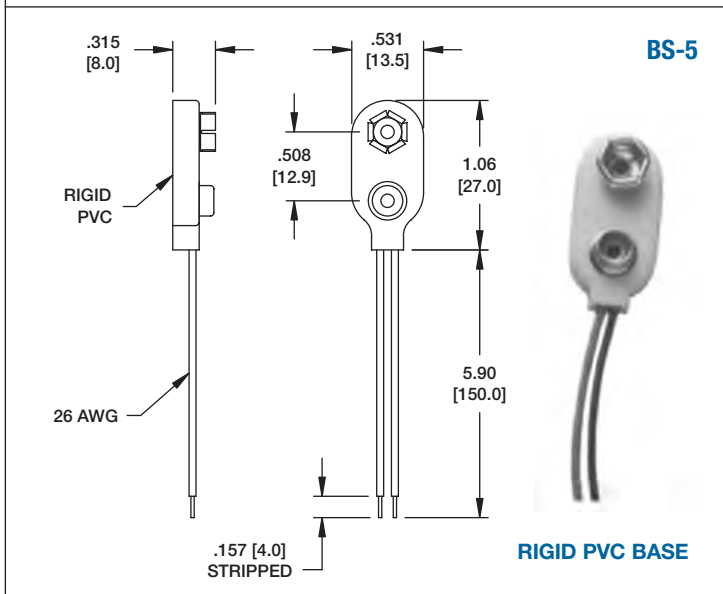
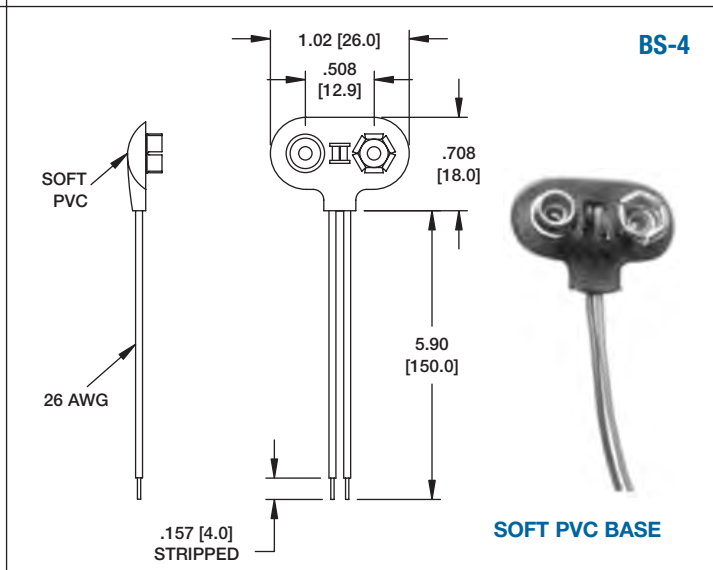
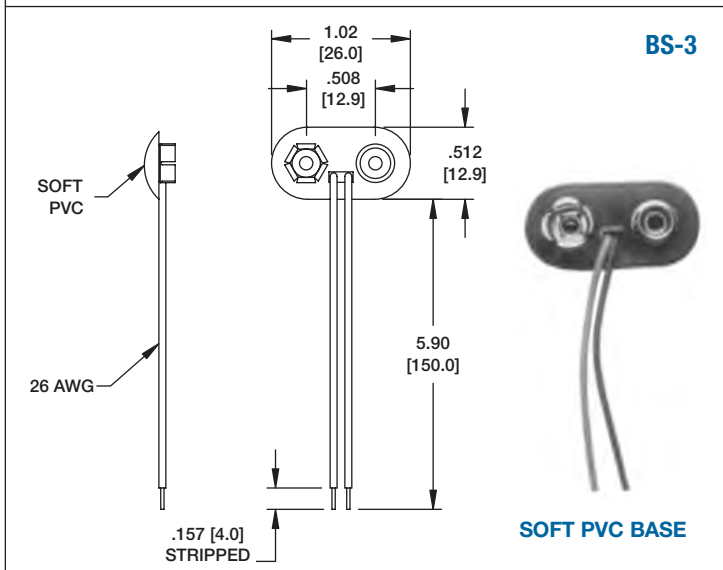
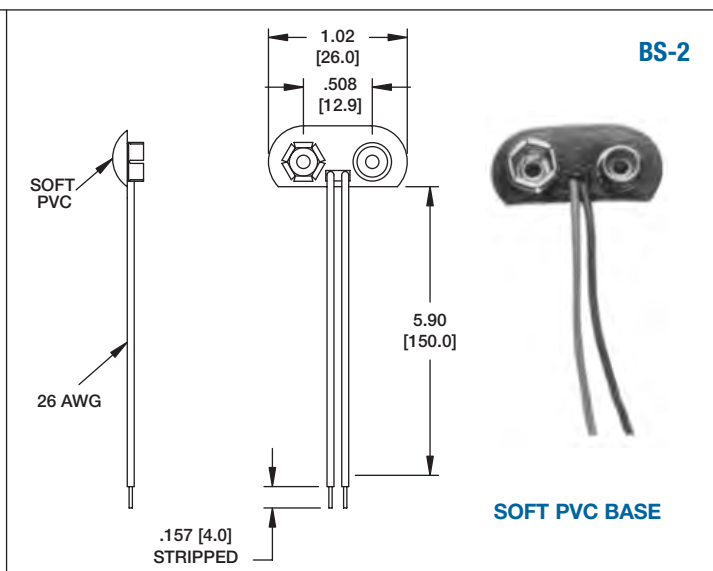
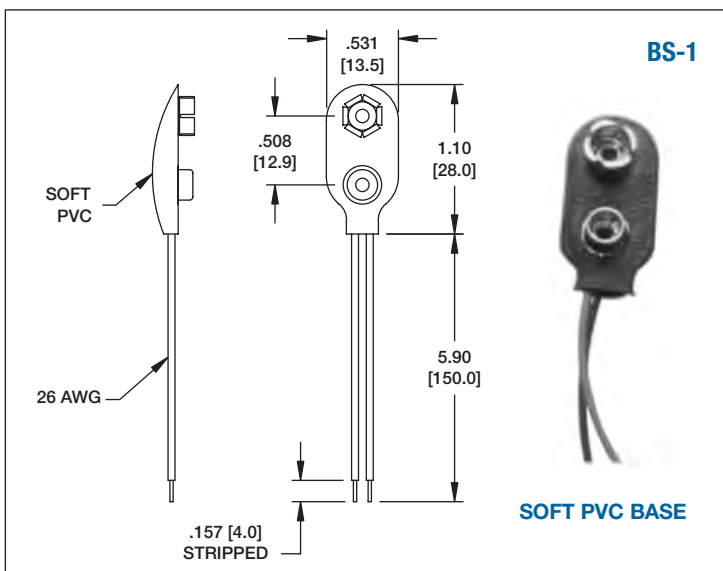
**BH-32-1**



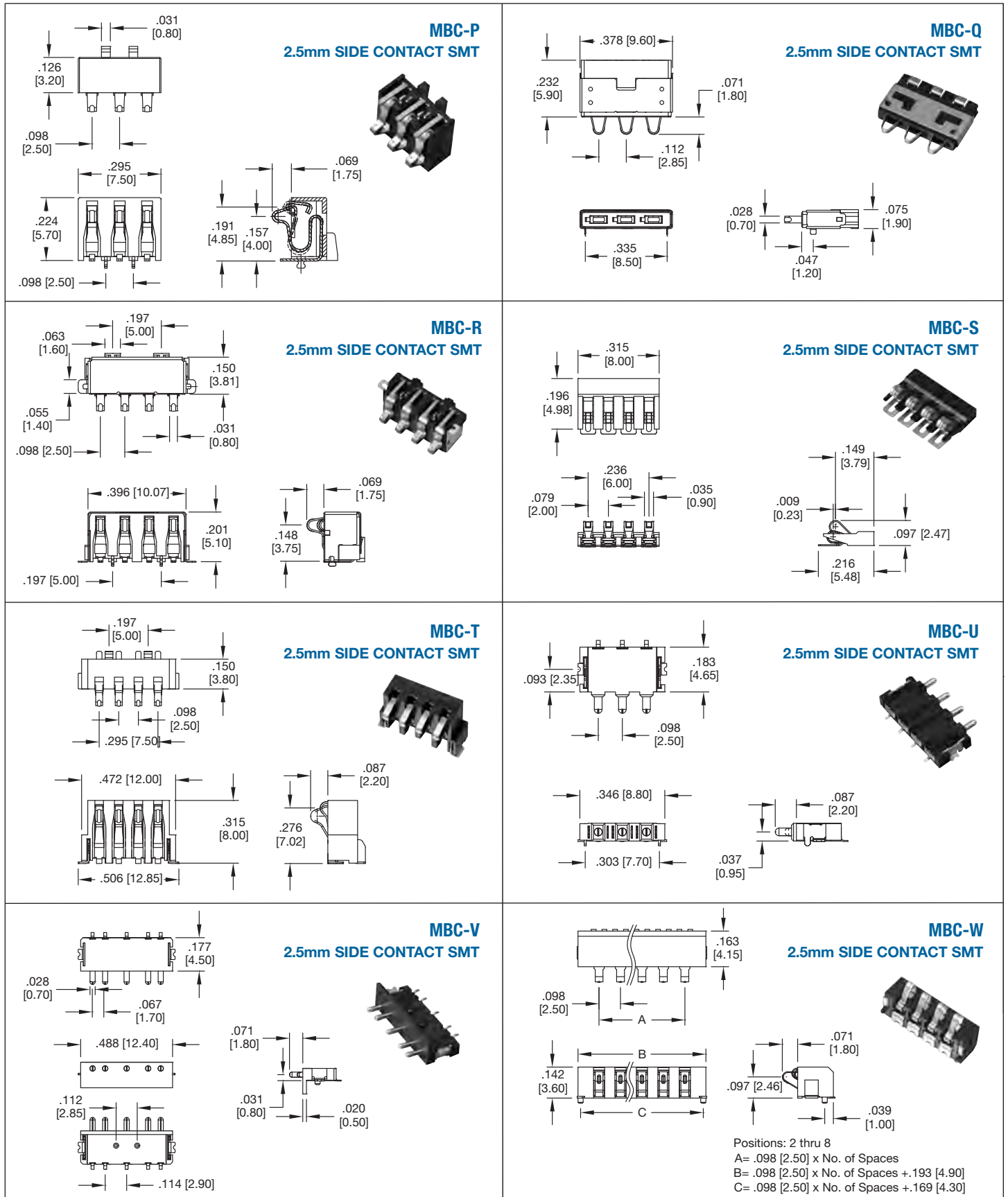
Recommended PCB Layout

Dimensions:  $.787$  [20.00],  $\text{Ø}.083$  [2.12],  $\text{Ø}1.053$  [26.75],  $1.141$  [29.00],  $.629$  [15.97],  $.425$  [10.80],  $.787$  [20.00],  $.374$  [9.50]









### INTRODUCTION:

Adam Tech PC Series International Power Cordset series offers a wide range of cordsets with numerous international approvals for worldwide applications. Each is approved for use by one or all of the major safety organizations such as UL, CSA & VDE. This series is available in a wide range of cord types with choice of wire gauge and various shielding options. We offer numerous standard Power Cords designed to comply with specific world market requirements and an unlimited variety of custom cords manufactured to our customers specifications.

### FEATURES:

- Sturdy, high reliability designs
- Worldwide Safety agency approvals
- Standard and Custom Power Cords
- Choice of cord types and shielding options

### MATING CONNECTORS:

Adam Tech IEC series & power line filters, all international IEC 60320 power connectors.

### SPECIFICATIONS:

#### Material:

Outer Jacket Color: Black, other colors optional

#### Temperature Rating:

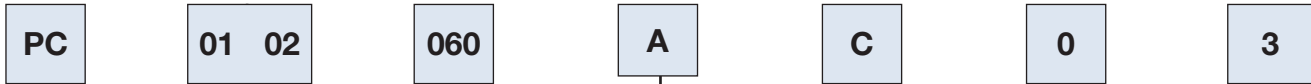
Outer Jacket Temperature: 60°C  
(75°C and 105°C optional)

#### Safety Agency Approvals:

UL Recognized  
File no. E303525 & E256360  
Consult factory for additional international safety agency approvals



## ORDERING INFORMATION



**PC**

**SERIES INDICATOR**  
PC = Power Cord

**01 02**

### PLUG & SOCKET OPTIONS

- |   |   |
|---|---|
| <b>01</b> = American, NEMA 5-15P Straight               | <b>12</b> = Italian, CEI 23-16 Grounded   |
| <b>01H</b> = North American Hospital Grade NEMA 5-15    | <b>13</b> = Australian, AS 3112 Grounded  |
| <b>01HB</b> = Color Black                               | <b>15</b> = Jacket and Conductor Stripped, Jacket 2.0" / Conductors 0.37" (Consult factory for custom jacket and conductor strip lengths) |
| <b>01HC</b> = Color Clear                               | <b>16</b> = Blunt Cut   |
| <b>01HG</b> = Color Gray                                | <b>17</b> = International Female, IEC C7  |
| <b>02</b> = International Female, IEC C13 straight      | <b>25</b> = American, NEMA 5-15P R/A  |
| <b>03</b> = International Female, IEC C13 R/A           | <b>28</b> = European, CEE 7/16 Straight   |
| <b>04</b> = International Male, IEC C14                 | <b>29</b> = Italian, CEI 23-16  |
| <b>06</b> = European, CEE 7/7 Straight                  | <b>30</b> = International Female, IEC C5  |
| <b>07</b> = European, CEE 7/7 R/A                       | <b>31</b> = Danish, SRAF  |
| <b>08</b> = United Kingdom Fused, BS 1363               | <b>32</b> = South African, BS-546   |
| <b>10</b> = American, NEMA 1-15P Straight Non Polarized | <b>33</b> = South African, BS-546 R/A   |
| <b>11</b> = Swiss, SEV 1011 Straight                    | <b>34</b> = Israel, SI-32 R/A   |
|   | <b>35</b> = Australian, AS 3112   |
|   | <b>38</b> = European, CEE 7/17 Straight   |

**060**

**LENGTH**  
(Specified in ft/in)  
**060** = 6 FT 0 IN  
**076** = 7 FT 6 IN  
State length as required

**A**

**CORD TYPE**  
A = SVT, 60°C  
B = SJT, 60°C  
C = SJTW  
D = SJTW-A  
E = SPT-1  
F = SPT-2  
G = SPT-3  
H = H03VV-F 3X0.75mm  
I = H05VV-F 3X0.75mm  
J = H05VV-F 3X1.00mm  
K = H03VV-H 2X0.75mm  
L = H05VV-F 3X1.50mm  
M = SPT-1 NON-I INTEGRAL  
N = SPT-2 NON-INTEGRAL  
R = SJT, CEE  
S = SVT, CEE  
Q = SJT, 105°C  
V = SVT, 105°C  
W = SJTO  
X = H05VV-F 2X1.00mm  
Y = H05RN-F 3x1.00mm  
Z = SJO  
A1 = STW  
A3 = ST  
A4 = STO  
A5 = SJT, CEE, 75°C  
A6 = SVT, CEE, 75°C  
A7 = SPT-2, 105°C  
A8 = SJTO, 105°C  
A9 = SJTOW, 105°C  
B1 = SJTW, 105°C  
B2 = SVT, CEE, 105°C

**C**

**WIRE AWG**  
J = 12 AWG  
A = 14 AWG  
B = 16 AWG  
C = 18 AWG  
G = H03 & H05

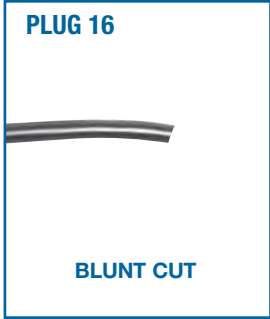
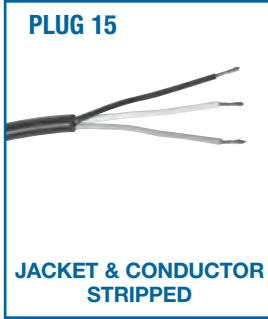
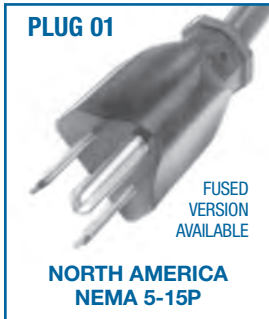
**0**

**SHIELDING**  
0 = Non Shielded  
F = Foil Shield  
S = Copper Braid and Foil Shield

**3**

**JACKET COLOR**  
3 = Black  
4 = Gray  
5 = Beige  
6 = White  
8 = Brown  
11 = Putty

## PLUG & SOCKET OPTIONS



Adam Tech manufactures a wide selection of low cost, custom cable assemblies to exact customer specifications using our UL approved connectors, wire and cable. Our production lines utilize the most updated equipment and processes to provide our customers with the highest level of quality and reliability. Many application specific assembly types are shown below. Please provide us with your application details to receive our competitive quotation.

- 100% Tested & Guaranteed
- Many Custom Variations of Industry Standard Assemblies are Available
- "Zero Defect" QA Program

### Custom Cable Assemblies

- HDMI
- DisplayPort
- USB
- Firewire
- Network assemblies
- Flat Ribbon cable assemblies
- Discrete Wire cable assemblies
- Power Cord cable assemblies
- Patch Cord cable assemblies, Cat 5, 5e, 6
- RF Co-Axial: MHF, W.FL, MCX, MMCX
- DVI & SVGA
- Serial ATA
- D-Sub
- OBD II cables

				
D-SUB MULTI CABLE	LED TWISTED WIRE	POWER TRANSFER ASSY.	S TERMINAL / RCA ASSY.	2.36MM HOUSING ASSY
				
IDC SOCKET TO DIP PLUG	EMI USB-A TO USB-B	EMI USB TO EMI MINI-USB	MINI IEEE 1394 ASSY.	S-VIDEO SPLITTER ASSY.
				
IEEE 1394 6P TO 6P ASSY.	RG174/U SMA CABLE	RG174/U MMCX & RG16 SMB	CAB-SS-232MT/LFH26-DB25	SCSI MD50 TO DB25X2
				
SCSI MD50 TO V.35-F	USB DC CONVERTER	USB-A TO MINI USB-A	D-SUB 25 TO CENTRONIC 50P	IPAQ 3600 DATA CABLE





08CH .....	218-219	D***-PQ.....	62-64	HDT**SD .....	88-89	MSD .....	246
08SH .....	218-219	D***-PT.....	82-83	HDT**SR.....	94-95	MSDPR.....	246
125CH .....	218-223	D***-SA.....	80-81	HDT**ST.....	90-91	MSE .....	281-282
125CTA.....	218-220	D***-SD.....	76-77	HDBG.....	92-93	MTA.....	234-235
125SH .....	218-223	D***-SE.....	82-84	HDW .....	97	MTB .....	237-238
15CH .....	218-225	D***-SF.....	74-75	HFCS .....	305-306	MTC .....	237-239
15SH .....	218-225	D***-SH.....	72-73	HFDP .....	305-307	MTD .....	318-319
1CH .....	218-219	D***-SL.....	59-61	HFH .....	253	MTE.....	231
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1SMC .....	165-169	D***-ST.....	82-83	HMHR.....	256-259	MTJG.....	34-39, 42-43
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25SH .....	218-230	D***-SS.....	70-71	HPH2.....	250-252	MTJP.....	46-48
2BHR.....	268-269	DCP .....	78-79	HRS .....	260-263	MTP.....	50-51
2CH.....	218-228	DCS.....	78-79	HSH.....	253	MTPR .....	50-51
2CH2 .....	218-219	DHPH.....	250-252	HSMC.....	166-169	MTS .....	234-236
2CTA.....	218	DIMM .....	170-171	ICM .....	166-169	MUSB.....	106-112
2FCS .....	308-309	DIN.....	210-217	ICS .....	163-164	NEMA.....	138
2FTR .....	308-309	DJ .....	199-200	IEC .....	129-141	PC***.....	348-349
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2MHR.....	270-271	DJP .....	199-201	JS.....	97	PCB.....	173-175
2PH*.....	264-267	DMF .....	323-324	LHA.....	234-235	PCD.....	302-304
2RS*.....	272-275	DMH.....	323-324	LHB.....	237-238	PCE.....	302-303
2SH.....	218-231	D2PH.....	264-267	LHD.....	237-240	PCIE .....	151-152
2SMC .....	166-169	DP .....	170-171	LHC.....	237-239	PH .....	276-279
ADC.....	179-183	DPC.....	115-117	LHS.....	234	PLCC .....	164-168
ADC-H.....	179	DPD.....	85-87	MBC.....	343-347	PLF.....	142-150
ADP.....	183	DPH.....	280	MCR .....	106-113	RCA.....	194-198
ASJ.....	184-190	DPH1.....	280	MCT .....	167-168	RF .....	53
ASP.....	190	DPH2.....	280	MDE.....	202-203	RS1 .....	290-301
BB4.....	185-186	DS .....	208-209	MDJ .....	202-205	RS .....	290-301
BB5.....	187-188	DVI .....	99-100	MDJD.....	202-204	RS2.....	290-301
BB635.....	189	EB*.....	328-332	MDP .....	208-209	RSB.....	290-301
BB8.....	190-191	EBV2.....	328-332	MDPC.....	115-116	RSE1.....	301
BB10.....	192	EMI.....	98	MDS.....	208-209	RSE2.....	301
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Battery Snaps .....	346	IDC DIP Plugs .....	307, 320-321	Receptacle Strips for Pin Headers	
BNC .....	53-58	IDC D-Subs .....	74-75	.031" [0.80] .....	248-249
Board-to-Board .....	191-193	IDC Headers .....	314-316	.039" [1.00] .....	248-249
Box Headers		IDC Sockets .....	305-316	.050" [1.27] .....	260-263
.050" [1.27] .....	254-259	IDC Transition Plugs .....	320-321	.079" [2.00] .....	272-275
.079" [2.00] .....	268-271	IEC 320 .....	129-141	.100" [2.54] .....	290-301
.100" [2.54] .....	283-289	IEEE 1394 .....	114	.156" [3.96] .....	237-240
Cable Assemblies .....	350	Inlets, IEC-320 .....	129-141	Receptacles with Hooks .....	302-304
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Centronic .....	101-105	Jacks, Mini DIN .....	202-205	RJ-14 .....	9-49
Champ .....	101-105	Jacks, Phono .....	184-190	RJ-45 .....	9-49
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Earphone Jacks .....	184-190	Memory Sockets .....	245-247	.050" [1.27] .....	305-306
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Female Pin Headers		Mini Display Port .....	115-117	.031" [0.80] .....	248-249
.031" [0.80] .....	248-249	Mini Firewire .....	114	.039" [1.00] .....	248-249
.039" [1.00] .....	248-249	Mini Flex .....	241-244	.050" [1.27] .....	260-263
.050" [1.27] .....	260-263	Mini HDMI .....	118-122	.079" [2.00] .....	272-275
.079" [2.00] .....	272-275	Mini IEC .....	139-141	.100" [2.54] .....	290-301
.100" [2.54] .....	290-301	Mini IEEE 1394 .....	114	.156" [3.96] .....	237-240
.156" [3.96] .....	237-240	Mini PCI .....	151-153	Sockets, Shrink DIP .....	163-165
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.031" [0.80] .....	248-249	Pico Flex .....	241-244	Terminal Strips, Pin Headers .....	248-301
.039" [1.00] .....	248-249	Pin Headers		Transition Plugs, IDC .....	330, 331, 342-343
.050" [1.27] .....	250-252	.031" [0.80] .....	248-249	Universal Serial Bus .....	106-113
.079" [2.00] .....	264-267	.039" [1.00] .....	248-249	USB .....	106-113
.100" [2.54] .....	276-280	.050" [1.27] .....	250-252	VESA .....	156-157
.156" [3.96] .....	237-240	.079" [2.00] .....	264-267	Wire Lead Jacks .....	46-48
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Headphone Jacks .....	184-190	.156" [3.96] .....	237-240	ZIF, Flex Circuit Connectors .....	176-178
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HDMI .....	118-122	Power Cords .....	348-349		
High Density D-Subs .....	88-95	Power Jacks, DC Power .....	179-183		







# ADAM TECH®

## ADVANCED INTERCONNECT PRODUCTS AND SYSTEMS



### CUSTOM SOLUTIONS

- Providing service from concept through design to production
- Improvements to quality or function
- Solving capacity or lead time issues
- Solution for single sourced components
- Cost reduction specialist



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