

Hybrid Conductive Polymer Type / Surface Mount Type

RoHS compliance

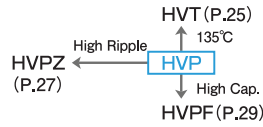
HVP Series

125°C Super Low ESR

High Voltage, High Reliability



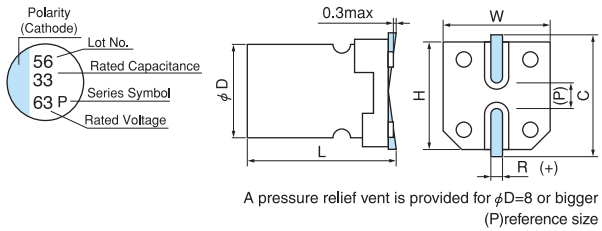
- 125°C, 2,000 to 3,000hours
- Solvent proof (within 2 minutes)



Specifications

Items	Condition	Specifications									
Rated voltage (V)	—	16	25	35	40	50	63	80	100	125	
Surge voltage (V)	Room temperature	20	32	44	50	63	79	100	125	157	
Category temperature range (°C)	—	-55 to +125									
Capacitance tolerance (%)	120Hz/20°C	M : ±20									
Dissipation Factor (tan δ)	tan δ (max) 120Hz/20°C	0.16									
Leakage current (LC)	μA/after 2minutes (max)	≤ 63V	The greater value of either 0.01CV or 3								
		80V ≤	The greater value of either 0.05CV or 100								
		Test 16V	φ6.3 : 2,000hours, D≥φ8 : 2,500hours								
		25V≤	φ6.3 : 2,000hours, D≥φ8 : 3,000hours								
		ΔC/C	Within ±30% of the initial value								
		tan δ	Less than 200% of the specified value								
Endurance	125°C rated voltage applied (With the rated ripple current)	ESR	Less than 200% of the specified value								
		LC	Less than the specified value								

Marking, Dimensions



D ^{+0.5max}	L ^{±0.3}	W ^{±0.2}	H ^{±0.2}	C ^{±0.2}	R	P
6.3	6.0	6.6	6.6	7.3	0.5 to 0.8	2.2
6.3	7.7	6.6	6.6	7.3	0.5 to 0.8	2.2
8	10.5	8.3	8.3	9.0	0.7 to 1.0	3.2
10	10.5	10.3	10.3	11.0	1.0 to 1.4	4.6
10	12.5	10.3	10.3	11.0	1.0 to 1.4	4.6

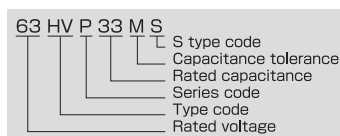
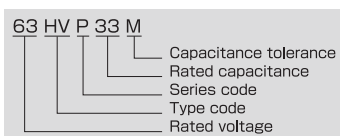
Size, ESR, Rated Ripple Current

μF \ V	16	25	35	40	50
10					6.3×6.0 ★, 120, 690
15					6.3×7.7, 80, 840
18				6.3×6.0, 110, 720	
27			6.3×6.0, 100, 760	6.3×7.7, 70, 870	
33					8×10.5, 35, 1170
47		6.3×6.0, 60, 890	6.3×7.7, 60, 910		
56				8×10.5, 32, 1220	10×10.5, 25, 1390
68		6.3×7.7, 45, 980			
82	6.3×6.0, 55, 970				10×12.5, 19, 1590
100			8×10.5, 30, 1260	10×10.5, 24, 1440	
120	6.3×7.7, 40, 1160			10×12.5, 18, 1650	
150		8×10.5, 27, 1330	10×10.5, 23, 1480		
220			10×12.5, 17, 1700		
270	8×10.5, 26, 1540	10×10.5, 22, 1520			
330		10×12.5, 16, 1740			
470	10×10.5, 21, 2010				
560	10×12.5, 15, 2320				

μF \ V	63	80	100	125
6.8	6.3×6.0, 150, 670			
10	6.3×7.7, 100, 740		10×10.5, 80, 870	10×10.5, 90, 750
12		10×10.5, 70, 900	10×10.5, 80, 870	
15		10×10.5, 70, 900	10×12.5, 60, 1000	
18		10×12.5, 50, 1100		
22	8×10.5, 40, 1090			
33	8×10.5★, 40, 1090			
47	10×10.5, 30, 1260			
56	10×12.5, 22, 1440			

Please refer to page 20 for ripple current frequency coefficients.
★ S type

Part number



Rated ripple current
mA Arms (100kHz, 125°C)

ESR(mΩ)
max at 100kHz, 20°C