

Features

- Low resistance and high precision (1%).
- Excellent reliability and suitable cost.
- Suitable for lead free soldering.
- RoHS compliant & Halogen Free.

Applications

- Switching model power supply.
- Battery pack.
- Notebook, personal computer.
- Test Instrument.
- Power Amplifier.

Guide of Current Sensing Resistors

Series	Product Type	Resistance Range (<math><1\Omega</math>)
FMF	Metal Strip	3m Ω ~50m Ω
FBF	Metal Type	10m Ω ~910m Ω
FCF-L	Normal	510m Ω ~ 910m Ω
PPF-L	High Power	200m Ω ~ 910m Ω

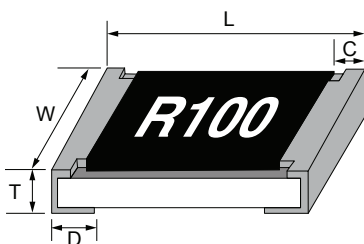
Part Number

Type	Size	Tolerance	Packing	-	GM
FCF Standard	03: 0603 05: 0805 06: 1206 12: 1210 20: 2010 25: 2512	F: $\pm 1\%$ J: $\pm 5\%$	T: Paper tape – 5 Kpcs V: Paper tape – 10 Kpcs W: Paper tape – 20 Kpcs P: Plastic tape – 4 Kpcs X: Plastic tape – 8 Kpcs Y: Plastic tape – 16Kpcs		R680

Rating

Standard		Power Rating at 70°C	Max. RCWV (mV)	Max. Overload Voltage (mV)	Resistance Tolerance (%)	Temperature Coefficient (TCR; ppm/°C)	Resistance Range (m Ω)		Standard Resistance Values
Type	Size						Min.	Max.	
FCF03	0603	1/10W	302	754	$\pm 1, \pm 5$	± 300	510	910	E-24
FCF05	0805	1/8W	337	843	$\pm 1, \pm 5$	± 300	510	910	
FCF06	1206	1/4W	477	1192	$\pm 1, \pm 5$	± 200	510	910	
FCF12	1210	1/3W	551	1377	$\pm 1, \pm 5$	± 200	510	910	
FCF20	2010	3/4W	826	2065	$\pm 1, \pm 5$	± 200	510	910	
FCF25	2512	1W	954	2385	$\pm 1, \pm 5$	± 200	510	910	

Dimension and Construction



unit: mm

Type	L	W	C	D	T
FCF03	1.60 \pm 0.10	0.80 \pm 0.10	0.30 \pm 0.20	0.30 \pm 0.20	0.45 \pm 0.10
FCF05	2.00 \pm 0.10	1.25 \pm 0.10	0.40 \pm 0.20	0.40 \pm 0.20	0.50 \pm 0.10
FCF06	3.10 \pm 0.10	1.60 \pm 0.10	0.50 \pm 0.20	0.50 \pm 0.25	0.55 \pm 0.10
FCF12	3.10 \pm 0.10	2.60 \pm 0.15	0.50 \pm 0.25	0.50 \pm 0.25	0.55 \pm 0.10
FCF20	5.00 \pm 0.20	2.50 \pm 0.20	0.60 \pm 0.25	0.60 \pm 0.25	0.60 \pm 0.10
FCF25	6.40 \pm 0.20	3.10 \pm 0.20	0.60 \pm 0.25	0.90 \pm 0.25	0.60 \pm 0.15

Power Derating Curve

