

FPF-L Thick-Film Power Type Chip Resistor

Features

- Rated power up to 2W.
- Low TCR.
- 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 (<1Ω)
FMF	Metal Strip	3mΩ~50mΩ
FBF	Metal Type	10mΩ~910mΩ
FCF-L	Normal	510mΩ ~ 910mΩ
FPF-L	High Power	200mΩ ~ 910mΩ

Part Number

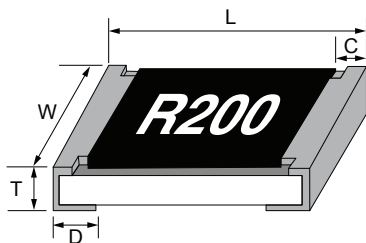
Type	Size	Tolerance	Packing	-	GM
FPF High Power	03: 0603 05: 0805 06: 1206 12: 1210 20: 2010 25: 2512	F: ±1% J: ±5%	T: Paper tape – 5 Kpcs V: Paper tape – 10 Kpcs W: Paper tape – 20 Kpcs P: Plastic tape – 4 Kpcs X: Plastic tape – 8 Kpcs Y: Plastic tape – 16Kpcs		R100

Rating

Type	Size	Power Rating at 70°C	Max. RCWV (mV)	Max. Overload Voltage (mV)	Resistance Tolerance (%)	Temperature Coefficient (TCR; ppm/°C)	Resistance Range (mΩ)		Standard Resistance Values
							Min.	Max.	
FPF03	0603	1/4W	477	1066	±1, ±5	±150*	510	910	E-24
FPF05	0805	1/3W	551	1232	±1, ±5	±100*	510	910	
FPF06	1206	1/2W	675	1508	±1, ±5	±100	510	910	
FPF12	1210	1/2W	675	1508	±1, ±5	±100	200	910	
FPF20	2010	1W	954	2133	±1, ±5	±100	200	910	
FPF25	2512	2W	1349	3017	±1, ±5	±100	200	910	

*Temperature 25~-55°C, 200ppm for 0603, 150ppm for 0805.

Dimension and Construction



unit: mm

Type	L	W	C	D	T
FPF03	1.60±0.10	0.80±0.10	0.30±0.20	0.30±0.20	0.45±0.10
FPF05	2.00±0.10	1.25±0.10	0.40±0.20	0.40±0.20	0.50±0.10
FPF06	3.10±0.10	1.60±0.10	0.50±0.25	0.50±0.25	0.55±0.10
FPF12	3.10±0.10	2.60±0.10	0.50±0.25	0.50±0.25	0.55±0.10
FPF20	5.00±0.20	2.50±0.20	0.65±0.25	0.60±0.25	0.60±0.10
FPF25	6.40±0.20	3.10±0.20	0.60±0.25	1.80±0.25	0.60±0.15

Power Derating Curve

