

FEATURES

- Resistances from 200hms to 500hms
- Power Rating to 15Watt
- Resistance Tolerances to $\pm 0.5\%$
- TCR to ±50ppm/K
- Load Stability to 0.1%
- TO-218 (TO-247) Housing





TABLE 1-SPECIFICATIONS		
	TYPE	FPR 2-T218E
Resistance Range		20 to 50 Ohms
Power Rating	Free air 70°C	2W
Power naung	With heatsink	15W
Tolerances		0.5% / 1% / 2% / 5%
Thermal Resistance		2.5 K/W
Stability (1000h)		0.1% / 0.2% / 0.5% (depends on stress)
Temperature Coefficient		±50ppm/K (20 to 60°C) other specifications upon request
Voltage Proof		300 VDC
Thermal EMF		<0.1 µV/K
Operating Temperature Range		-40°C to 130°C
Resistor Material		CuNiMn-Foil
Substrate		Anodized aluminium
Housing		PPS
Connector Material		Cu / tinned
Terminals		2
Max. Torque		1 Nm

ORDERING INFORMATION		
	Part Number - Resistance - Contact - Tolerance	
	FPR 2-T218E 40R0 C 1%	



FIGURE 1-TEMPERATURE COEFFICIENT

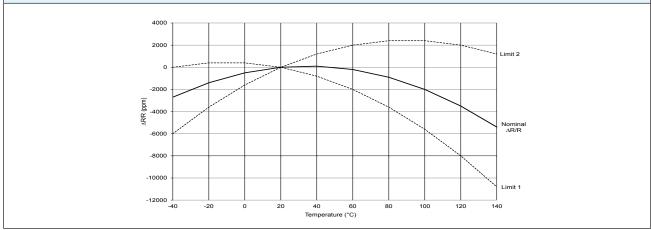
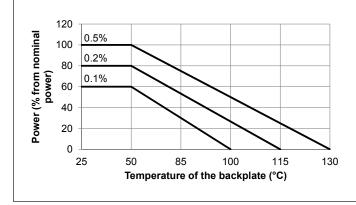


FIGURE 2-DERATING



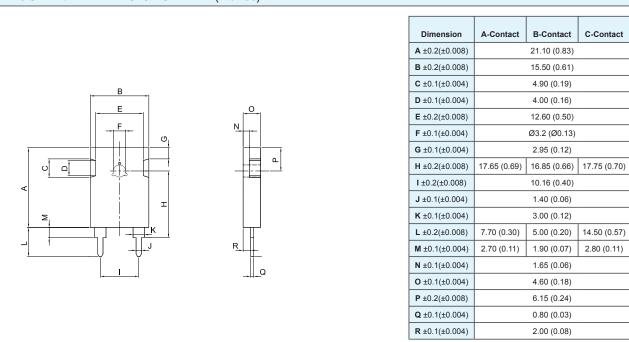
Power Rating Notes -

The FPR 2 Resistor must be attached to a suitable heatsink. The maximum internal resistor temperature is 130°C. To specify an appropriate heatsink use the following formula :

$$R_{\theta H} = \frac{T_{MAX} - (P \times R_{\theta R}) - T_{A}}{P}$$

Where: $R_{_{ ext{e}H}}$ = Thermal Resistance of Heatsink (K/W) $R_{_{ ext{e}R}}$ = Thermal Resistance of Resistor (K/W) $T_{_{ ext{MAX}}}$ = Maximum Temperature of Resistor $T_{_{A}}$ = Ambient Temperature of Heatsink (°C) P = Power Through Resistor (W)

FIGURE 3-DIMENSIONS in mm (inches)





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