

FEATURES

- Resistances from 0.0020hm to 200hms
- Power Rating to 30Watt
- Resistance Tolerances to ±0.25%
- TCR to ±50ppm/K
- Load Stability to 0.1%
- TO-218 (TO-247) Housing

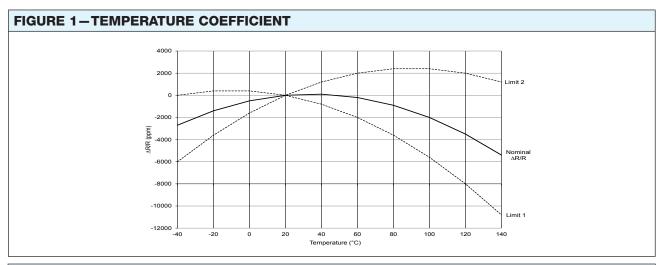




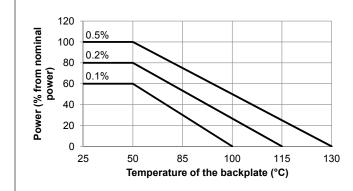
TABLE 1—SPECIFICATIONS								
TYPE			FPR 2-T218					
Resistance Range			0.002 to 20 Ohms					
Power Rating	Free air 70°C	2W	2W					
	With heatsink	30W	30W					
Tolerances from 0.002 Ohms from 0.01 Ohms from 0.02 Ohms		0.5% / 1% /	1% / 2% / 5% 0.5% / 1% / 2% / 5% 0.25% / 0.5% / 1% / 2% / 5%					
Thermal Resistance		2.5 K/W	2.5 K/W					
Stability (1000h)		0.1% / 0.2% / 0.5% (depends on stress)						
Temperature Coefficient (ppm/K)		R ≤ 0R005	R ≤ 0R010	R ≤ 0R050	R ≤ 0R500	R > 0R500		
(20 to 60°C)		±200	±150	±100	±50	±30		
Voltage Proof		300 VDC	300 VDC					
Thermal EMF		<0.1 µV/K	<0.1 μV/K					
Operating Temperature Range		-40°C to 130	-40°C to 130°C					
Resistor Material		CuNiMn-Foi	CuNiMn-Foil					
Substrate		Anodized alu	Anodized aluminium					
Housing		PPS	PPS					
Connector Material		Cu / tinned	Cu / tinned					
Terminals		2	2					
Max. Torque		1 Nm	1 Nm					

ORDERING INFORMATION Part Number - Resistance - Contact - Tolerance FPR 2-T218 0R010 C 0.5%









Power Rating Notes -

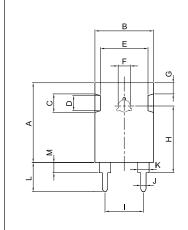
The FPR Series Resistors must be attached to a suitable heatsink. The maximum internal resistor temperature is 130°C. To specify an appropriate heatsink use the following formula:

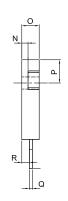
$$R_{\theta H} = \frac{T_{MAX} - (P \times R_{\theta R}) - T_{A}}{P}$$

Where:

 $\begin{array}{l} R_{_{OH}} = Thermal\ Resistance\ of\ Heatsink\ (\ K/W\) \\ R_{_{OR}} = Thermal\ Resistance\ of\ Resistor\ (\ K/W\) \\ T_{_{MAX}} = Maximum\ Temperature\ of\ Resistor \\ T_{_{A}} = Ambient\ Temperature\ of\ Heatsink\ (\ ^{\circ}C\) \\ P = Power\ Through\ Resistor\ (\ W\) \end{array}$

FIGURE 3-DIMENSIONS in mm (inches)





Dimension	A-Contact	B-Contact	C-Contact			
A ±0.2(±0.008)	21.10 (0.83)					
B ±0.2(±0.008)	15.50 (0.61)					
C ±0.1(±0.004)	4.90 (0.19)					
D ±0.1(±0.004)	4.00 (0.16)					
E ±0.2(±0.008)	12.60 (0.50)					
F ±0.1(±0.004)	Ø3.2 (Ø0.13)					
G ±0.1(±0.004)		2.95 (0.12)				
H ±0.2(±0.008)	17.65 (0.69)	16.85 (0.66)	17.75 (0.70)			
I ±0.2(±0.008)		10.16 (0.40)				
J ±0.1(±0.004)	1.40 (0.06)					
K ±0.1(±0.004)	3.00 (0.12)					
L ±0.2(±0.008)	7.70 (0.30)	5.00 (0.20)	14.50 (0.57)			
M ±0.1(±0.004)	2.70 (0.11)	1.90 (0.07)	2.80 (0.11)			
N ±0.1(±0.004)	1.65 (0.06)					
O ±0.1(±0.004)	4.60 (0.18)					
P ±0.2(±0.008)	6.15 (0.24)					
Q ±0.1(±0.004)	0.80 (0.03)					
R ±0.1(±0.004)	2.00 (0.08)					



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