

FEATURES

- Resistances from 0.0010hm to 500hms
- Power Rating to 80Watt
- Resistance Tolerances to ±0.1%
- TCR to ±25ppm/K
- Load Stability to 0.1%



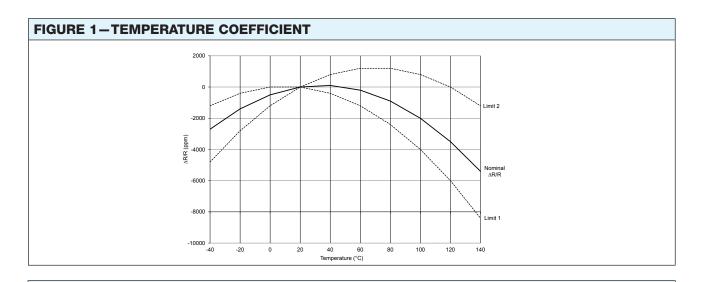


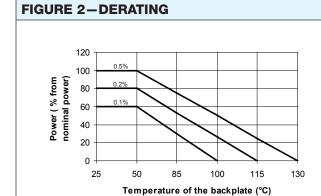


TABLE 1-SPECIFICATIONS				
TYPE		FPR 4-T227 FNR 4-T227		
Resistance Range		0.001 to 50 Ohms	0.001 to 50 Ohms	
Power Rating	With heatsink	60 W 80 W		
Tolerances from 0.001 from 0.020		1% / 2% / 5% 0.1% / 0.25% / 0.5% / 1% / 2% / 5% (others upon request)	0.1% / 0.25% / 0.5% / 1% / 2% / 5%	
Thermal Resistance		1.3 K/W 1.0 K/W		
Stability (1000h)		0.1% / 0.2% / 0.5% (depends on stress)		
Temperature Coefficient Standard (Q) Extended Temperature Range (R)		±25 ppm/K (20 to 60°C) ±50 ppm/K (-40 to 130°C) other specifications upon request	±50 ppm/K (-40 to 130°C)	
Voltage Proof		1.5 kV DC		
Maximum Current		50 A contact G 85 A contact I		
Thermal EMF		< 1 μV/K		
Operating Temperature Range		-40°C to 130°C		
Resistor Material		CuNiMn-Foil		
Substrate		Al ₂ O ₃ AlN		
Backplate		Copper / Nickel-plated		
Housing		Ероху		
Connector Material		Cu / tinned		
Terminals		4 (Standard contact G - bended)		
Max. Torque		backplate: 1.5Nm terminals: 1.3 Nm		

ORDERING INFORMATION		
Part Number - Resistance - Contact - Tolerance - TCR		
FPR 4-T227 0R010 I 1% Q		







Power Rating Notes -

The FPR/FNR Series Foil Resistors must be attached to a suitable heatsink. The maximum internal resistor temperature is 130°C for a 0.5% stability part.

To specify an appropriate heatsink use the following formula:

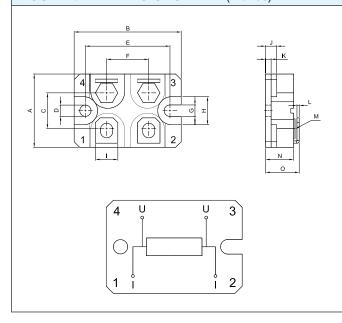
$$R_{\theta H} = \frac{T_{MAX} - (P \times R_{\theta R}) - T_{A}}{P}$$

Where: $R_{\theta H}$ = Thermal Resistance of Heatsink (K/W)

 $R_{\rm gR}$ = Thermal Resistance of Resistor (K/W) $T_{\rm MAX}$ = Maximum Temperature of Resistor $T_{\rm A}$ = Ambient Temperature of Heatsink (°C)

P = Power Through Resistor (W)

FIGURE 3-DIMENSIONS in mm (inches)



Dimension	mm
A ±0.5 (±0.020)	26 (1.02)
B ±0.5 (±0.020)	38 (1.50)
C ±0.2 (±0.008)	12.7 (0.50)
D ±0.2 (±0.008)	4 (0.16)
E ±0.2 (±0.008)	30 (1.18)
F ±0.2 (±0.008)	15 (0.59)
G ±0.2 (±0.008)	4.1 (0.16)
H ±0.2 (±0.008)	10 (0.39)
I ±0.2 (±0.008)	8 (0.31)
J ±0.2 (±0.008)	4 (0.16)
K ±0.2 (±0.008)	2 (0.08)
L ±0.1 (±0.004)	0.8 (0.03)
М	M4
N ±0.2 (±0.008)	10 (0.39)
O ±0.2 (±0.008)	11.9 (0.47)



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Document No.: 63999 Revision: 15-Jul-2014

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