FPR 4-T220 T221

Powertron

FEATURES

- · Resistances from 0.0020hm to 100hms
- Power Rating to 15Watt
- Resistance Tolerances to $\pm 0.1\%$
- TCR to ±25ppm/K
- Load Stability to 0.1%
- TO-220 Housing
- Convenient SMD D2Pak Available



0.8 Nm



TABLE 1-SPI	ECIFICATIONS			
ТҮРЕ		FPR 4-T220	FPR 4-T221	
Resistance Range		0.002 to 10 Ohms		
Power Rating	Free air 70°C	1.5 W		
	With heatsink	15 W		
Tolerances from 0.002 Ohms from 0.01 Ohms		1% / 2% / 5% 0.1% / 0.25% / 0.5% / 1% / 2% / 5%		
Thermal Resistance		4.8 K/W		
Stability (1000h)		0.1% / 0.2% / 0.5% (depends on stress)		
Temperature Coefficient Standard (Q)		±25 ppm/K (20 to 60°C) other specifications upon request		
Voltage Proof		300 VDC		
Maximum Current		50 A		
Thermal EMF		< 1µV/K		
Operating Temperature Range		-40 to 130°C		
Resistor Material		CuNiMn-Foil	CuNiMn-Foil	
Substrate		Anodized aluminium / Copper		
Housing		PPS		
Connector Material		Cu / tinned	Cu / tinned	

4

1 Nm

ORDERING INFORMATION

Part Number - Resistance - Contact - Tolerance - TCR

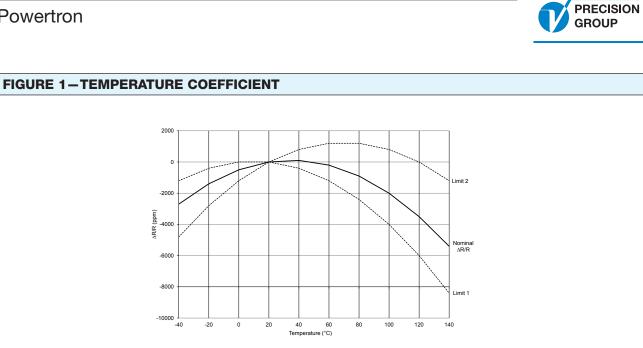
FPR 4-T220 0R010 C 0.1% Q

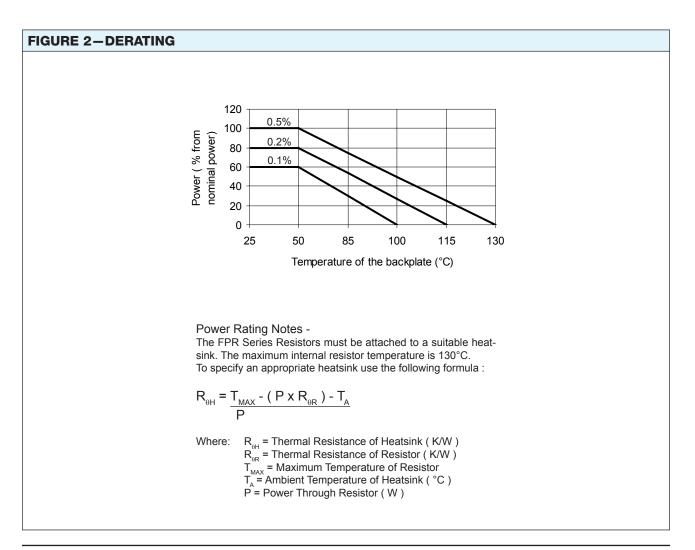
Terminals

Max. Torque



Powertron





VISHAY

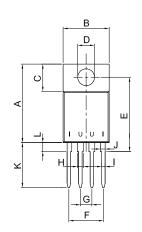


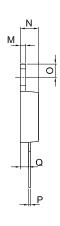


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FIGURE 3-DIMENSIONS in mm (inches)

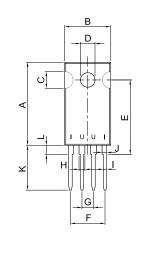
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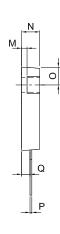




	1		
Dimension	S-contact	C-contact	
A ±0.2 (±0.008)	17.30 (0.68)		
B ±0.2 (±0.008)	10.16	10.16 (0.40)	
C ±0.1 (±0.004)	6.00 (0.24)		
D ±0.1 (±0.004)	Ø3.7 (Ø0.146)		
E ±0.2 (±0.008)	16.40 (0.65)		
F ±0.2 (±0.008)	7.62 (0.30)		
G ±0.1 (±0.004)	2.54 (0.10)		
H ±0.1 (±0.004)	1.30 (0.05)		
I ±0.1 (±0.004)	0.76	0.76 (0.03)	
J ±0.1 (±0.004)	1.03 (0.04)		
K ±0.2 (±0.008)	10.00 (0.39)	13.80 (0.54)	
L ±0.1 (±0.004)	2.00 (0.08)		
M ±0.1 (±0.004)	1.20 (0.05)		
N ±0.1 (±0.004)	4.00 (0.16)		
O ±0.1 (±0.004)	2.90 (0.11)		
P ±0.1 (±0.004)	0.40 (0.02)		
Q ±0.1 (±0.004)	1.85 (0.07)		

FPR 4-T221





Dimension	S-contact	C-contact
A ±0.2 (±0.008)	18.30 (0.72)	
B ±0.2 (±0.008)	10.16 (0.40)	
C ±0.1 (±0.004)	3.70 (0.15)	
D ±0.1 (±0.004)	Ø3.2 (Ø0.126)	
E ±0.2 (±0.008)	16.40 (0.65)	
F ±0.2 (±0.008)	7.62 (0.30)	
G ±0.1 (±0.004)	2.54 (0.10)	
H ±0.1 (±0.004)	1.30 (0.05)	
I ±0.1 (±0.004)	0.76 (0.03)	
J ±0.1 (±0.004)	1.03 (0.04)	
K ±0.2 (±0.008)	10.00 (0.39)	13.80 (0.54)
L ±0.1 (±0.004)	2.00 (0.08)	
M ±0.1 (±0.004)	1.20 (0.05)	
N ±0.1 (±0.004)	4.00 (0.16)	
O ±0.1 (±0.004)	3.90 (0.15)	
P ±0.1 (±0.004)	0.40 (0.02)	
Q ±0.1 (±0.004)	1.85 (0.07)	

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