

PF1220 Series Precision Foil Power Resistors

- TO-220 Housing
- Rated Power 10 Watts
- Resistances from 0.5 to 150K Ohms
- High Stability Foil Resistance Elements
- Resistance Tolerance to ± 0.02%
- Operating Temperature -55°C to +155°C
- Low Inductance (<50nH) and Thermal EMF



Riedon's TO-220 precision foil resistors satisfy demanding applications for high accuracy and stable power resistors housed in the convenient TO-220 case. The PF1220's Nichrome foil resistance element makes a wide resistance range available. It is bonded to an Al_2O_3 substrate ensuring excellent power dissipation and stability. Careful choice of materials and rugged construction ensure a reliable component, and the very small tolerance and temperature coefficient provide high precision in difficult applications.

SPECIFICATIONS

Resistance Range - 0.5 to 150K Ohms

(100 Ohm Max. for 4-Terminal)

Free Air Power Rating - 1.5 Watts (Tambient=70°C)

Power Rating on Heatsink - 10 Watts (Theatsink=25°C)

Thermal Resistance - 10.8°C/W

Temperature Coefficient - ± 1ppm/°C (+20°C to +60°C)

 \pm 3ppm/°C (-55°C to +125°C)

± 5ppm/°C (-55°C to +155°C)

Stability - 0.01%

Thermal EMF - $< 1\mu V/^{\circ}C$

Proof Voltage - 1KVDC

Maximum Current - 25 A

Operating Temperature - -55°C to +155°C

Resistance Element - Nichrome Foil

Substrate - Al₂O₃

Housing - Epoxy or PPS

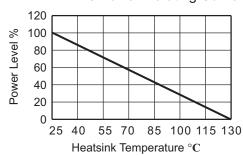
Leads - Cu, Tinned, 2 or 4 pin

Ordering information:

Part Number - Resistance - Tolerance - TCR Example: **PF1220 0.5 Ohm 0.1% 5ppm**

Resistance	Tolerances Available (±%)
0.5 to <10 Ω	0.1, 0.25, 0.5, 1
≥ 10 to <50 Ω	0.05, 0.1, 0.25, 0.5, 1
≥50Ω	0.02, 0.05, 0.1, 0.25, 0.5, 1



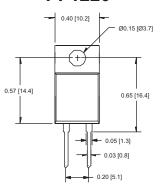




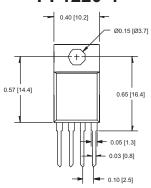
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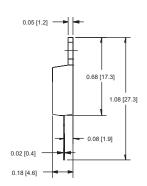
Dimensions



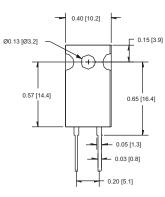


PF1220-4

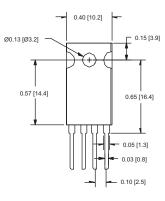


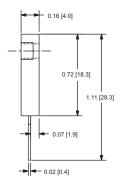


PF1221

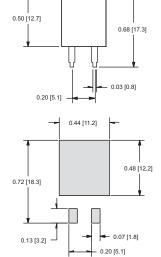


PF1221-4

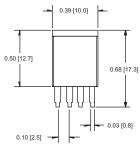


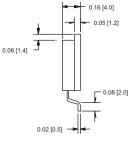


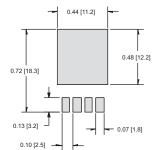
PF1220S



PF1220S-4







Solder Pad Layouts