PF1262 Series

TO-126 Power Thin Film Resistors







- TO-126 Housing
- Resistances from 0.01 to 51K Ohms
- Rated Power to 20 Watts
- Resistance Tolerances to ±1%
- TCR to ±50ppm/°C
- Low Inductance (<50nH)
- Isolated Back Plate

SPECIFICATIONS

Туре	Power Heatsink ¹	Rating Free Air ²	Thermal Resistance	Resistand Min	ce Range ³ Max	Tolerances	Temperature Coefficients
PF1262	20W	1W	5.9K/W	0.01Ω	51ΚΩ	±1% (R≥0.1Ω) ±5%	±50ppm/°C (R≥10Ω) ±100ppm/°C (0.1Ω ≤ R < 10Ω) ±250ppm/°C (R < 0.1Ω)

¹ Power rating based on 25°C Flange Temperature

³ Consult Factory for Higher or Lower Values

Specification	Value				
Maximum Current	25A				
Temperature Range	-55°C to +155°C : PF1262				
Dielectric Strength	2000 VAC				
Max. Operating Voltage	500 V				
Insulation Resistance	>1000 Meg-Ohm				
Environmental Performance	ΔR	Test Conditions			
Load Life	±1% + 0.05Ω	25°C / 90 min ON / 30 min OFF / 1000 hr			
Humidity Resistance	±1% + 0.05Ω	40°C / 90-95% RH / DC 0.1W / 1000 hr			
Temperature Cycle	±0.25% + 0.05Ω	-55°C for 30 min / +155°C for 30 min / 1000 hr			
Solder Heat	±0.1% + 0.05Ω	+350°C / 3s			
Vibration	±0.25% + 0.05Ω	IEC60068-2-6			

Ordering Information

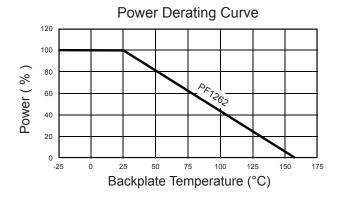
Part Description: Part Type - Resistance - Tolerance

Example: PF1262 0.5 Ohm 1%

² Power rating based on 25°C Ambient Temperature



SPECIFICATIONS (continued)



Power Rating Notes -

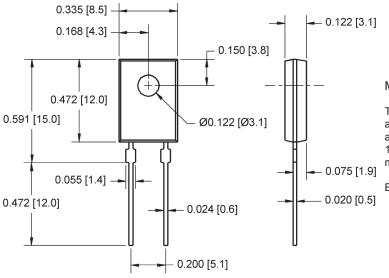
The PF1260 Series Thin Film Resistors must be attached to a suitable heatsink. The maximum internal resistor temperature is 155°C.

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_{eH} = Thermal Resistance of Heatsink (K/W) R_{eR} = Thermal Resistance of Resistor (K/W) T_{MAX} = Maximum Temperature of Resistor T_{A} = Ambient Temperature of Heatsink (°C)

P = Power Through Resistor (W)



Mounting Notes -

The PF1260 Series Thin Film Resistors must be attached to a suitable heatsink. Mount resistor using thermal grease to a clean / flat surface. Use a compression washer to provide 150 to 300 pounds (665 to 1330N) of mounting force. Torque mounting screw to 8 in-lbs (0.9 Nm).

Back plate is isolated from both pins.