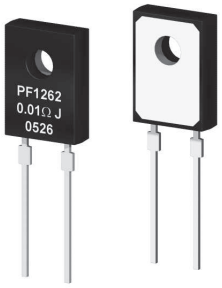
PF1262 Series

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

Type	Power Rating Heatsink[1]	Power Rating Free Air[2]	Thermal Resistance	Resistance Range[3] Min	Resistance Range[3] Max	Tolerances	Temperature Coefficients
PF1262	20W	1W	5.9K/W	0.01Ω	51KΩ	±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
[2] Power rating based on 25°C Ambient Temperature
[3] Consult Factory for Higher or Lower Values

Specification	Value	
Maximum Current	25A	
Temperature Range	-55°C to +155°C	
Inductance	8.2 nH	
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

Ordering Information

Part Description: Part Type - Resistance - Tolerance
Example: PF1262 0.5 Ohm 1%

Riedon Inc. 300 Cypress Avenue Alhambra CA 91801 (626) 284-9901 (626) 284-1704
www.riedon.com
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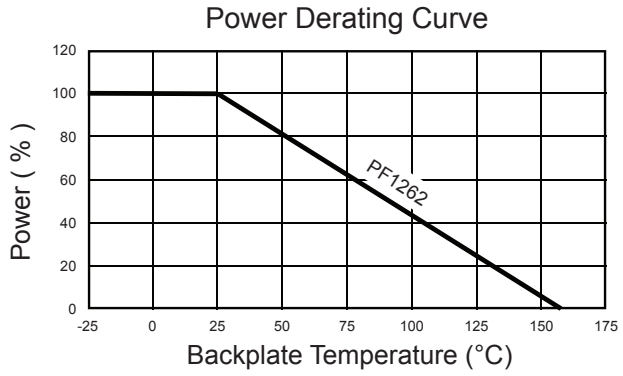
SPECIFICATIONS (continued)



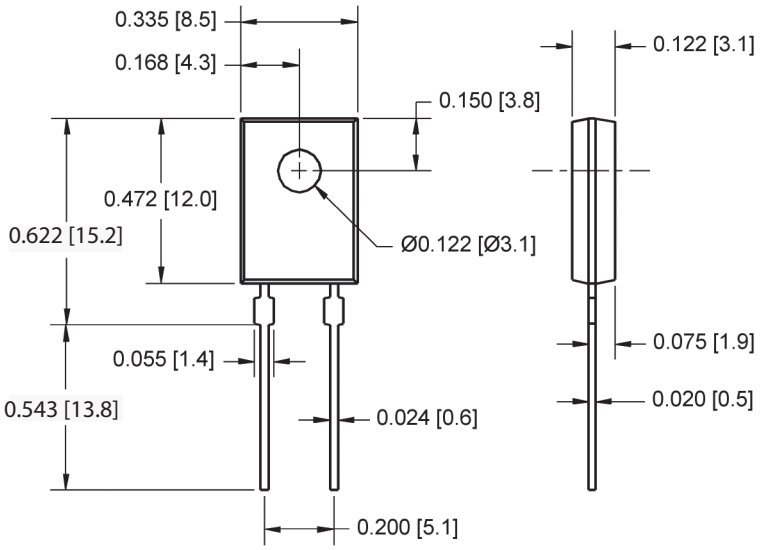
Power Rating Notes -

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