



Features

- Formerly a Riedon™ product
- Resistances from 0.05 to 5M Ω
- Resistance tolerances to $\pm 1\%$
- TCR to ± 50 PPM/ $^{\circ}\text{C}$
- Power rating to 200 watts
- TO-227 (TO-238) housing
- High reliability
- RoHS compliant*

Applications

- Power supplies
- Motor drives
- Test and measurement
- Capacitor discharging
- Snubber circuits
- Current limiting

PSD227x Series – Riedon™ Thick Film Power Resistors by Bourns

Electrical Characteristics

Bourns Model	Power Rating @ 70 °C with Heat Sink	Resistance Range (Ω)	TCR ¹ (PPM/°C)	Tolerance	Thermal Resistance	Dielectric Withstanding Voltage
PSD2272, PSD2274	100 W	0.05 to 0.09 Ω	±300	±2 % ±5 % ±10 %	0.7 K/W	1500 VDC
		0.1 to 5 MΩ	±100	±1 % ±2 % ±5 % ±10 %		
PSD2272H, PSD2274H	200 W	0.05 to 0.09 Ω	±300	±2 % ±5 % ±10 %	0.35 K/W	
		0.1 to 5 MΩ	±100	±1 % ±2 % ±5 % ±10 %		

1. ± 50 PPM/ $^{\circ}\text{C}$ available upon request

Environmental Characteristics

Specification	Value
Operating Temperature	-40 $^{\circ}\text{C}$ to +155 $^{\circ}\text{C}$
Inductivity	≤ 50 nH
Max. Torque Backplate Terminals	1.5 Nm 1.3 Nm
Storage Conditions Temperature Humidity	+5 $^{\circ}\text{C}$ to +35 $^{\circ}\text{C}$ 40 % to 75 %
Moisture Sensitivity Level	1

Additional Information

Click these links for more information:



Packaging Information

Bulk 50 pcs./box



CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant. See www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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"Riedon Logo" is a registered trademark of BE Services Company, Inc., in the United States.

"Riedon" is a trademark of BE Services Company, Inc.

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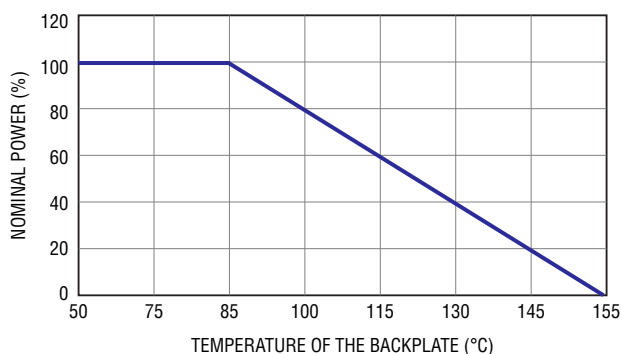
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PSD227x Series – Riedon™ Thick Film Power Resistors by Bourns

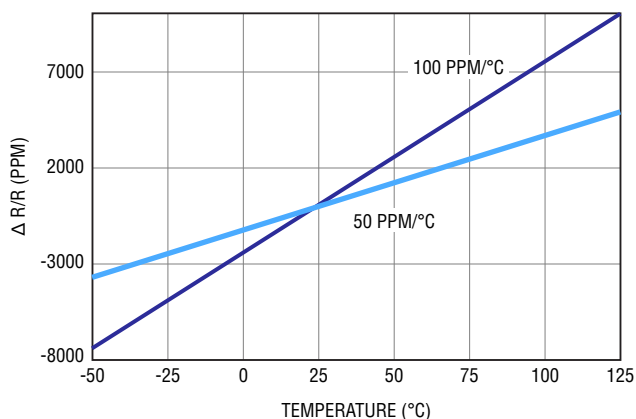
BOURNS®

Current Rating Thermal Derating Curve



These resistors must be attached to a suitable heat sink. The maximum internal resistor temperature is +175 °C.

Temperature Coefficient



How To Order

PSD227 2 H - F V - R005 B 1

Model _____
PSD227

Terminals _____
2
4

Power _____
(blank) = 100 W
H = 200 W

Resistance Tolerance _____
F = ±1 % J = ±5 %
G = ±2 % K = ±10 %

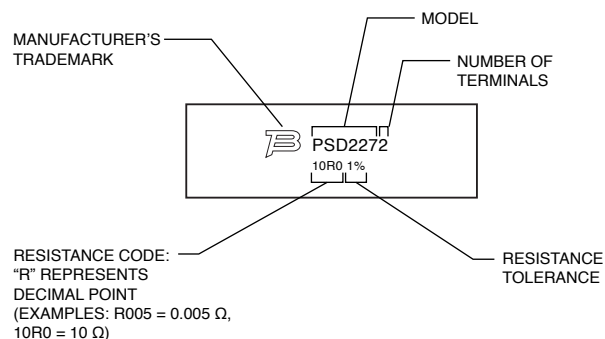
TCR (PPM/°C) _____
V = ±300
X = ±100
Z = ±50

Resistance Value Code _____
<100 Ω: "R" represents decimal point
(example: R005 = 0.005 Ω, 5R00 = 5.00 Ω)
≥100 Ω: First three digits are significant,
fourth digit represents number of zeros to follow
(example: 1000 = 100 Ω, 5001 = 5000 Ω)

Packaging _____
B = bulk

Pin Configuration (see Pin Configuration diagrams) _____
(blank) = standard configuration
1 = 1-3 configuration
2 = 2-4 configuration

Typical Part Marking

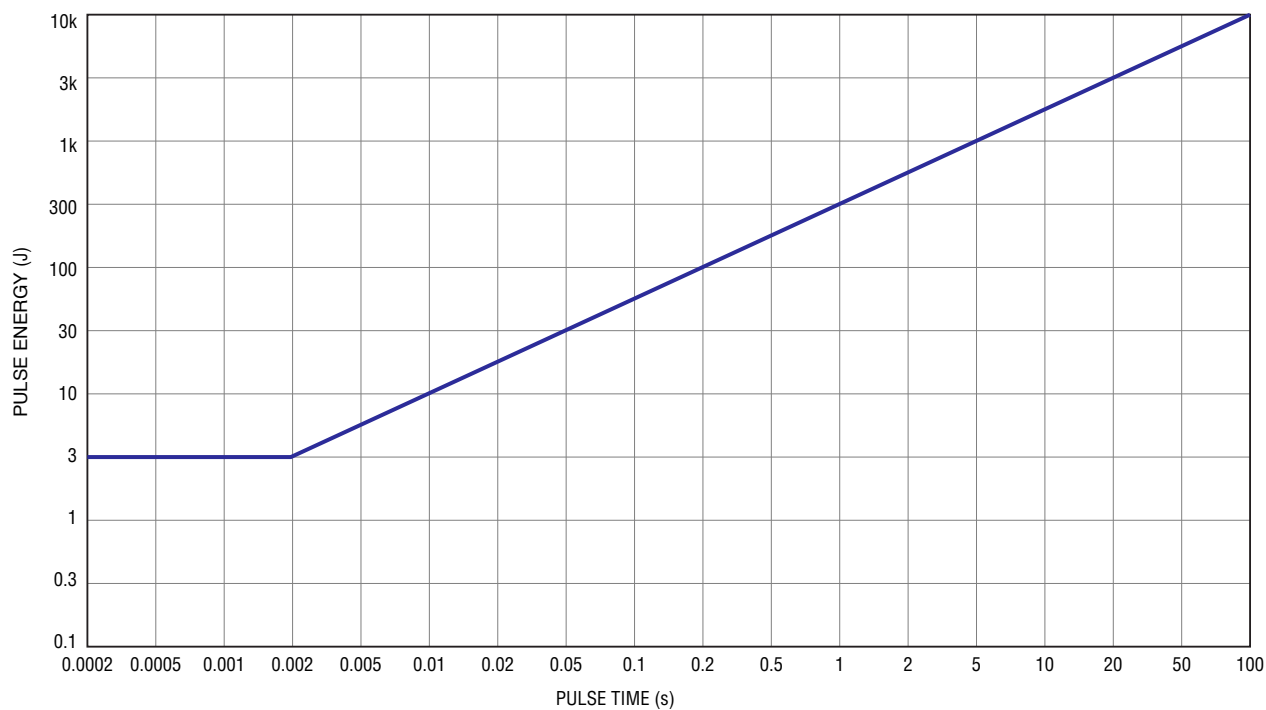


Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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Pulse Stability

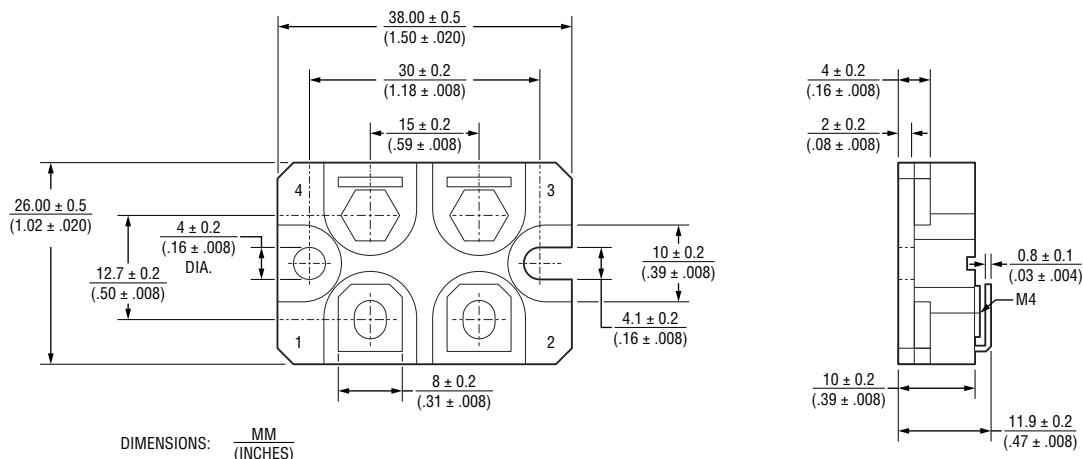


PSD227x Series – Riedon™ Thick Film Power Resistors by Bourns

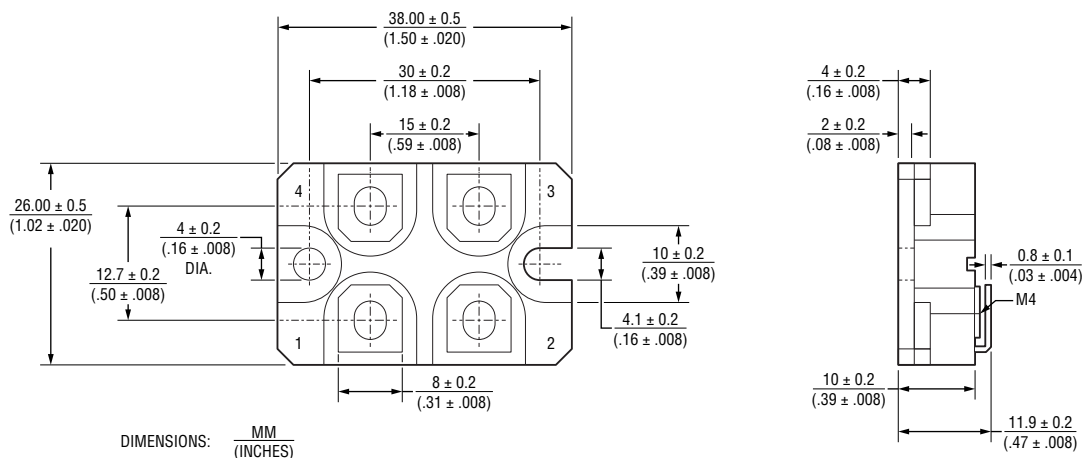
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Product Dimensions

PSD2272



PSD2274



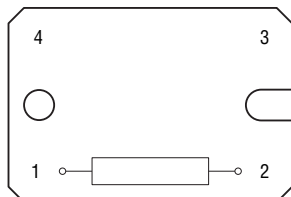
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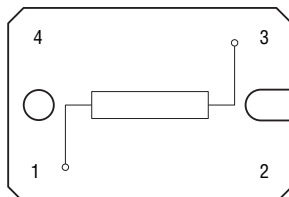
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Pin Configurations

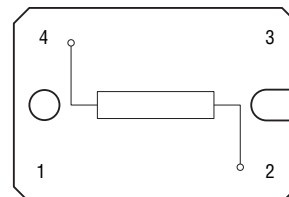
PSD2272



STANDARD CONFIGURATION

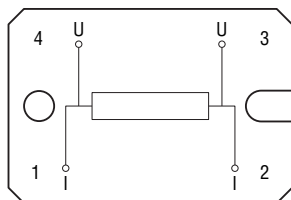


1: 1-3 CONFIGURATION



2: 2-4 CONFIGURATION

PSD2274



STANDARD CONFIGURATION

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