

## Riedon™ PF2270 Series Power Resistors by Bourns



### NEW PRODUCT BRIEF

#### INTRODUCTION

The Riedon™ PF2270 Series power resistors by Bourns are engineered to provide superior power dissipation. The series features thick film technology to provide up to 300 W of power dissipation (with heatsink) in a highly reliable and compact TO-227 package.

The PF2270 Series offers low inductance, a wide resistance value range from 100 mΩ to 100 KΩ, and resistance tolerance options of 1 % and 5 %. The non-inductance design and high-power dissipation ratings make these power resistors ideal solutions for industrial and other high-performance electronic designs.

#### FEATURES

- Advanced TO-227 packaging enabling operating temperatures up to +175 °C
- Excellent pulse handling capabilities with power ratings of up to 300 W
- Resistance value ranges from 100 mΩ to 100 KΩ
- Temperature coefficients of ±100 PPM/ °C
- Resistance tolerance options of ± 1 % and ±5 %
- RoHS compliant\*

#### MARKET TRENDS

Demands on next-generation systems call for higher power density and improved efficiency. These systems are moving to higher voltages and currents to help with system costs and efficiency. The integration of power resistors becomes even more critical in helping dissipate heat. In addition, as systems increase in power in continually space-constrained board designs, enhanced power density support is also asked of power resistors. The Riedon™ PF2270 Series by Bourns meets all these requirements giving designers a powerful, reliable, and compact power dissipation solution for demanding next-generation power electronics.

#### APPLICATIONS

Constructed using advanced thick film technology, the PF2270 Series delivers greater precision, compact size, wide temperature range, and robustness benefits in applications where high power capabilities and increased reliability are needed. The features in these new power resistors offer excellent current limiting, precise current measurement, and superior capacitor discharge capabilities that are required for industrial motor drives, power conversion, and battery energy storage systems.

#### BENEFITS

- Low inductance options
- Isolated back plate
- Compact design with high power dissipation

#### HOW TO ORDER

**PF2272 - 10R J 1**

Model \_\_\_\_\_

PF2272

PF2274

Resistance Code \_\_\_\_\_

For values <1K Ω, "R" represents decimal point  
(Example: 0R1 = 0.1 Ω)

For values 1K-10K Ω, "K" represents decimal point  
(Example 1K = 1K Ω, 1K5 = 1.5K Ω)

Tolerance \_\_\_\_\_

F = ±1 %\*

J = ±5 %

Internal Use \_\_\_\_\_

1 = standard version  
(other) = non-standard version

\*Contact Bourns for ±1 % tolerances

#### ELECTRICAL CHARACTERISTICS

Series	Photo	Power Rating (W)	Tolerance	Resistance Range (Ω)	Temperature Coefficient (TCR) (PPM/°C)	Temperature Range (°C)
PF2270		200 – 300	± 1 %, ±5 %	0.1 – 100 k	± 100	-55 to +155

For full characteristics, see data sheet

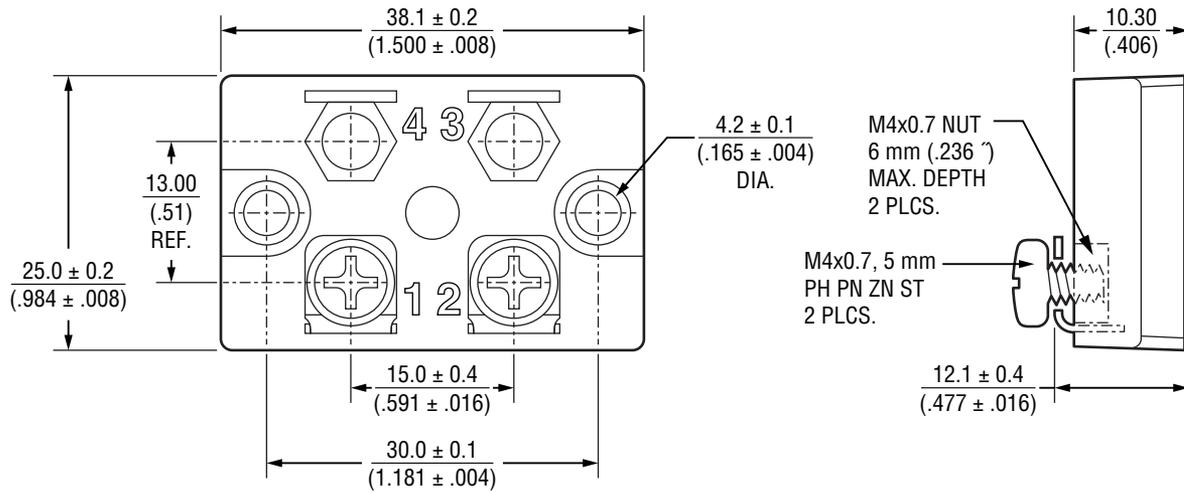
\*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

## Riedon™ PF2270 Series Power Resistors by Bourns



### NEW PRODUCT BRIEF

#### PRODUCT DIMENSIONS



DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

COPYRIGHT© 2025 • BOURNS, INC. • 06/25 • e/N2516

"Bourns" is a registered trademark of Bourns, Inc. in the U.S. and other countries.

In April 2023, BE Services Company, Inc., a subsidiary of Bourns, Inc., purchased certain assets of Riedon, Inc., including its logo and trademarks and the right to continue to manufacture former Riedon™ products.

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