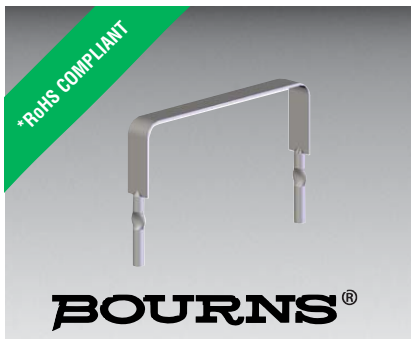




Features

- High current capability
- Low inductance
- Radial leads
- Low ohmic

Applications

- Power supplies
- UPS
- Motor drives

PWR4412-2S Series Bare Metal Element Resistor

General Information

The Bourns® PWR4412-2S Series is a through-hole resistor designed for current shunt and current sensing applications such as power supplies of different kinds, motor drives and many other applications. The resistor is quite rugged, consisting of a special metal alloy welded to tinned copper leads.

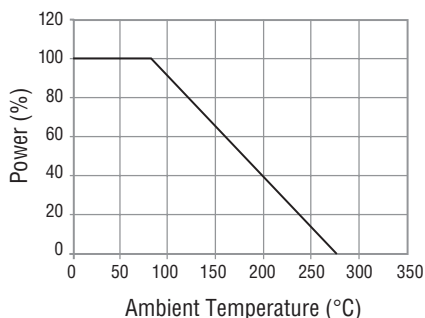
Performance

Load Life (1000 Hours @ 70 °C) ... $\frac{\Delta R}{R}$ 2.5 %
 Moisture No Load 100 Hours 1 %
 Temperature Cycling
 (-40 °C to +125 °C, 1000 Cycles)...1 %

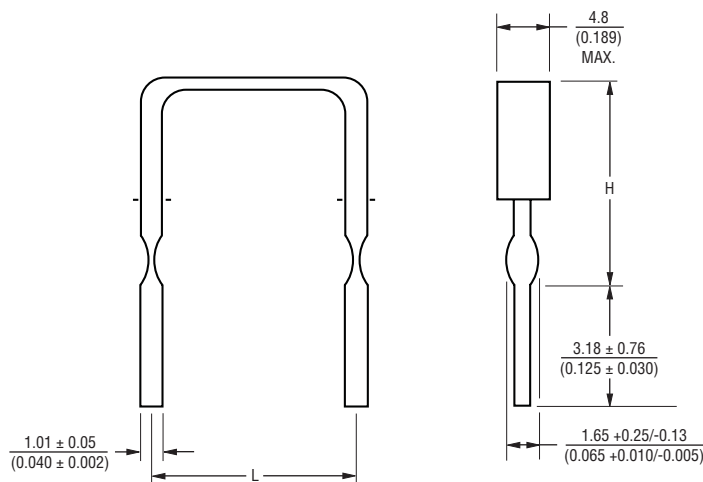
Electrical Specifications

Power Rating @ 85 °C1, 3, 5 W
 (see matrix)
 Resistance Range0.005 to 0.1 ohms
 Tolerances Available.....1 %, 5 %
 Temperature Range-55 ° to +270 °C
 Maximum Working Voltage..... $\sqrt{P \cdot R}$
 Short Time Overload
 5 x Rated Power for 5 seconds
 Temperature Coefficient of Resistance
 Wire ± 20 ppm/°C
 Packaging.....250 pcs./bag

Power Derating Curve



Product Dimensions



Power Rating (W)	Version	Dimension L	Dimension H Max.	Resistance Values
1	B	$\frac{11.43 + 1.02/-0.51}{(0.450 + 0.04/-0.02)}$	$\frac{7.62}{(0.30)}$	R0050, R0100, R0200, R0250, R0300, R0400, R0500, R1000
3	C	$\frac{15.24 + 1.02/-0.51}{(0.60 + 0.04/-0.02)}$	$\frac{25.4}{(1.0)}$	R0050, R0100, R0150, R0200, R0250, R0300, R0400, R0500, R1000
5	D	$\frac{20.32 + 1.02/-0.51}{(0.80 + 0.04/-0.02)}$	$\frac{25.4}{(1.0)}$	R0050, R0100, R0150, R0200, R0250, R0300, R0500, R1000

Note: Terminal pins are tin plated copper.

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

How to Order

Model _____ PWR4412-2S B R0300 J
 Version _____
 Resistance Value for All Tolerances _____
 "R" represents decimal point (examples: R0050 = 5 milliohms; R1000 = 100 milliohms)
 Absolute Tolerance _____
 J = 5 %
 F = 1 %



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www.bourns.com

REV. 03/09

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.

Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Bourns:

[PWR4412-2SBR0300F](#) [PWR4412-2SBR0030F](#)