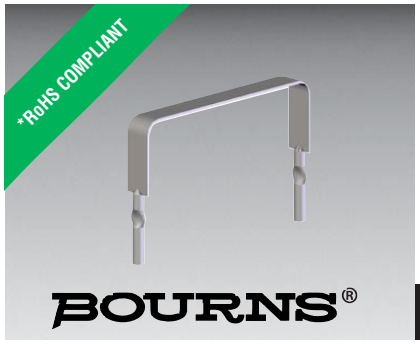


Features

- 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.

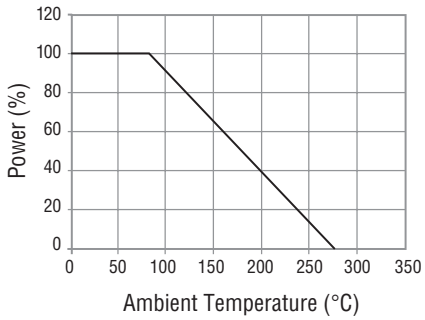
Performance

	ΔR
Load Life (1000 Hours @ 70 °C)	2.5 %
Moisture No Load 100 Hours	1 %
Temperature Cycling (-40 °C to +125 °C, 1000 Cycles)	1 %

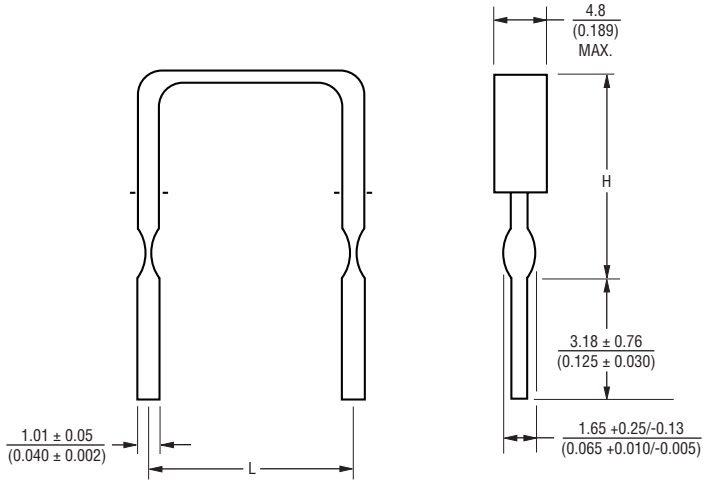
Electrical Specifications

Power Rating @ 85 °C .....1, 3, 5 W (see matrix)
Resistance Range .....0.005 to 0.1 ohms
Tolerances Available.....1 %, 5 %
Temperature Range .....-55 ° to +270 °C
Maximum Working Voltage.....√P*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	11.43 +1.02/-0.51 (0.450 +0.04/-0.02)	7.62 (0.30)	R0050, R0100, R0200, R0250, R0300, R0400, R0500, R1000
3	C	15.24 +1.02/-0.51 (0.60 +0.04/-0.02)	25.4 (1.0)	R0050, R0100, R0150, R0200, R0250, R0300, R0400, R0500, R1000
5	D	20.32 +1.02/-0.51 (0.80 +0.04/-0.02)	25.4 (1.0)	R0050, R0100, R0150, R0200, R0250, R0300, R0500, R1000

Note: Terminal pins are tin plated copper.

DIMENSIONS: MM (INCHES)

How to Order

PWR4412-2S B R0300 J

Model
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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Tel: +41-41 768 5555 • Fax: +41-41 768 5510

The Americas:
Tel: +1-951 781-5500 • Fax: +1-951 781-5700

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