



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



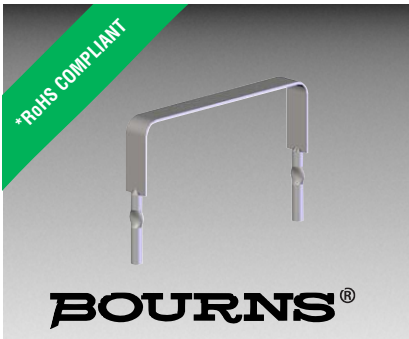
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Features

- High current capability
- Low inductance (less than 10 nH)
- 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.

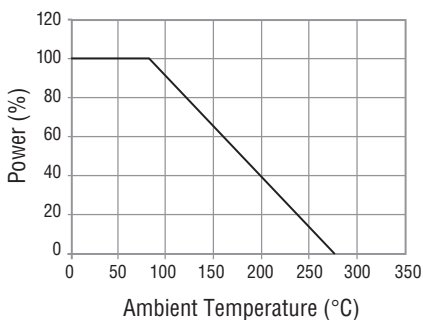
Performance

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

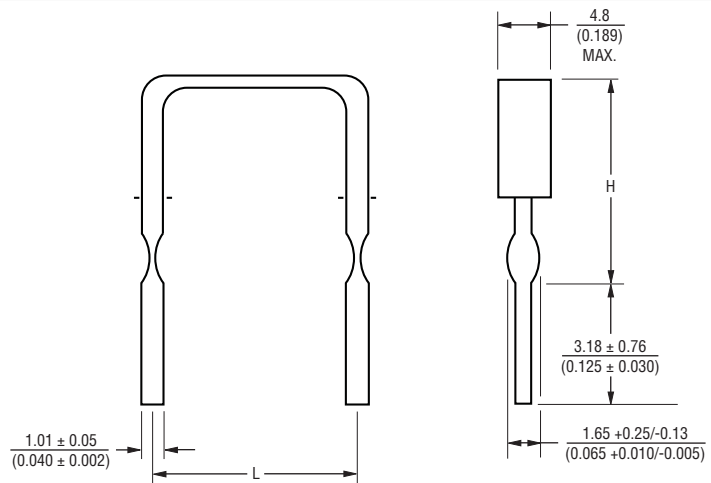
Electrical Specifications

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

PWR4412-2S B R0300 J

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REV. 02/14

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.