Features

- Low inductance
- High overload capability
- Wide operating temperature range
- High power
- RoHS compliant*

Applications

- Rectifiers
- Inverter drives
- Switching power supplies

PWR4413 Series Current Sense Resistors

General Information

The Bourns® PWR4413 Series is a through-hole current sense resistor with a high overload capability and a wide operating temperature range.

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 W, 3 W, 5 W
Resistance Range .....0.01 to 0.1 ohms
(See Standard Resistance Table)
Temperature Range .....-55 ° to +325 °C
Maximum Working Voltage.....√P*R
Short Time Overload
..... 5 x Rated Power for 5 seconds
Temperature Coefficient
.....±900 ppm/°C to ±60 ppm/°C**
Packaging.....250 pcs./bag

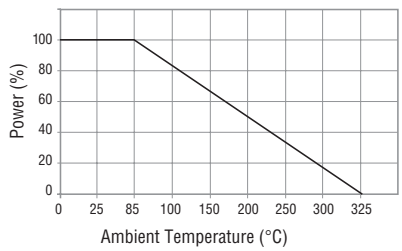
**Dependent on resistor value.

Standard Resistance Table

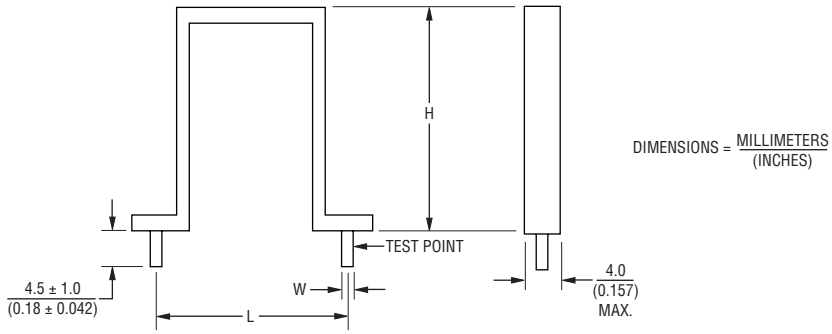
Resistance Code	Resistance Values		
	1 W	3 W	5 W
R010	0.01	0.01	0.01
R015	N/A	0.015	N/A
R020	0.02	0.02	0.02
R025	0.025	0.025	0.025
R030	0.03	0.03	0.03
R040	N/A	0.04	0.04
R050	0.05	0.05	0.05
R100		0.1	

Other resistance values available upon request.

Power Derating Curve



Product Dimensions



NOTES: Resistance measurement must be made using a 4-wire system and insulated clips attached at the Test Point. Terminal Pins are Tin-Plated Copper.

Power Rating (W)	Version	Dimension L	Dim. H (Max.)	Dimension W	Resistance Values (Ω)
1	B	11.43 +1.02/-0.51 (0.450 +0.04/-0.02)	13.5 (0.59)	0.8 ± 0.05 (0.03 ± 0.002)	0.01 - 0.05
3	C	15.24 +1.02/-0.51 (0.60 +0.04/-0.02)	16.0 (0.63)	1.0 ± 0.05 (0.04 ± 0.002)	0.01 - 0.1
5	D	20.32 +1.02/-0.51 (0.80 +0.04/-0.02)	26.0 (1.02)	1.0 ± 0.05 (0.04 ± 0.002)	0.01 - 0.05

How to Order

PWR4413 D R050 J

Model
Version
B = 1 W
C = 3 W
D = 5 W
Resistance Code
4 Digits - See Standard Resistance Table
Resistance Tolerance
J = 5 %
F = 1 %

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