

Features

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

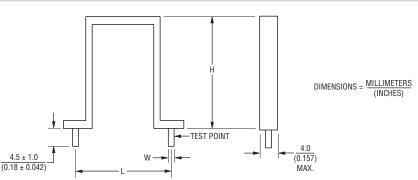
This series is currently available, but not recommended for new designs. See Product Obsolescence Memo for details.

Applications

- Rectifiers
- Inverter drives
- Switching power supplies

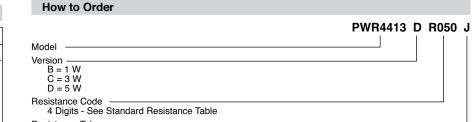
PWR4413 Series Current Sense Resistors

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	В	11.43 +1.02/-0.51 (0.450 +0.04/-0.02)	13.5 (0.59)	$\frac{0.8 \pm 0.05}{(0.03 \pm 0.002)}$	0.01 - 0.05
3	С	15.24 +1.02/-0.51 (0.60 +0.04/-0.02)	$\frac{16.0}{(0.63)}$	$\frac{1.0 \pm 0.05}{(0.04 \pm 0.002)}$	0.01 - 0.1
5	D	20.32 +1.02/-0.51 (0.80 +0.04/-0.02)	<u>26.0</u> (1.02)	$\frac{1.0 \pm 0.05}{(0.04 \pm 0.002)}$	0.01 - 0.05



Resistance Tolerance

J = 5 % F = 1 %

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

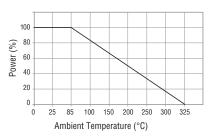
**Dependent on resistor value.

Standard Resistance Table

Resistance	Resistance Values				
Code	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



REV. 12/15

*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.

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<u>SR10-0.015-1%</u> <u>SR20-0.008-1%</u> <u>SBL4R005J</u> <u>SR10-0.25-1%</u> <u>T125-12-3</u> <u>T120-10-4</u> <u>HPCR0402F12K0K9</u> <u>HPCR0402F130RK9</u>								
HPCR0402F13K0K9 HPCR0402F17K4K9 HPCR0402	2F180KK9 HPCR0402F180RK9	HPCR0402F1K10K9	HPCR0402F220KK9					
HPCR0402F220RK9 HPCR0402F24K0K9 HPCR0402	2F27K0K9 HPCR0402F2K00K9	HPCR0402F33K0K9	HPCR0402F430KK9					
HPCR0402F4K30K9 HPCR0402F4K70K9 HPCR0402	2F680KK9 HPCR0402F680RK9	HPCR0402F390KK9	HPCR0402F39K0K9					
HPCR0402F8K20K9 HPCR0402F560RK9 HPCR0402	2F2K70K9 HPCR0402F360KK9	HPCR0402F36K0K9	HPCR0402F3K00K9					
HPCR0402F3K90K9 HPCR0402F430RK9 HPCR0402	2F43K0K9 HPCR0402F475KK9	HPCR0402F47K0K9	HPCR0402F51K0K9					
HPCR0402F560KK9 HPCR0402F56K0K9 HPCR0402	2F5K10K9 HPCR0402F5K60K9	HPCR0402F620KK9	HPCR0402F620RK9					
HPCR0402F68K0K9 HPCR0402F6K20K9 HPCR0402	2F6K80K9 HPCR0402F750KK9	HPCR0402F750RK9	HPCR0402F7K50K9					