



Features

- Surface mount wirewound resistor
- High power
- Low temperature coefficient
- RoHS compliant*
- Non-inductive versions available

Applications

- Power supplies
- Motor drives
- Electricity metering

PWR2615/PWR4525 Surface Mount Wirewound Power Resistors

General Information

The PWR2615/PWR4525 Series are surface mount wirewound resistors offering 1 and 2 W power ratings as well as a wide resistance and operating temperature range.

Additional Information

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Electrical Characteristics

Parameter	PWR2615	PWR4525
Resistance Range 1 % Based on E24+E96 Series 5 % Based on E24 Series	0.1 to 3K ohms	0.1 to 10K ohms
Resistance Range (Non-Inductive Versions) Based on E24 Series	0.05 to 400 ohms	0.05 to 1.5K ohms (For resistances >1.5K ohms, please consult factory for availability)
Power Rating @ 70 °C	1 W	2 W
Maximum Working Voltage	58 V	173 V
Absolute Tolerance Values	0.5 % / 1 % / 5 %	
Temperature Coefficient (TCR) R>10 ohms 1 ohm≤R≤10 ohms 0.1 ohm ≤R<1 ohm R<0.1 ohm	±20 PPM/°C ±50 PPM/°C ±90 PPM/°C ±150 PPM/°C	
Operating Temperature	-55 to +275 °C	
Insulation Resistance	>1000 megohms	
Dielectric Strength	1000 VAC	

Physical Characteristics

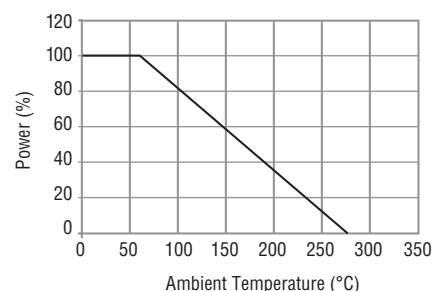
Flammability Conforms to UL94V-0
Lead Frame Material
..... Copper, tin-plated
Body Material Epoxy resin

Environmental Characteristics

Tests per MIL-STD-202	ΔR Max.
Short Time Overload	0.5 % ±0.05 Ω
Load Life	1.0 % ±0.05 Ω
Moisture Resistance	1.0 % ±0.05 Ω
Thermal Shock	0.5 % ±0.05 Ω
Resistance to Solder Heat	0.25 % ±0.05 Ω
Shock	0.5 % ±0.05 Ω
Vibration	0.5 % ±0.05 Ω

Moisture Sensitivity Level..... 1
ESD Classification (HBM)N/A

Characteristic Curve



WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

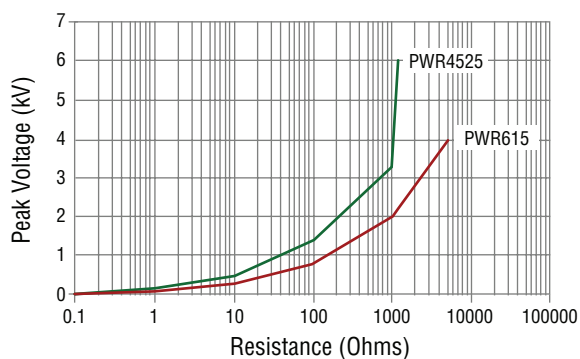
*RoHS Directive 2015/863, Mar 31, 2015 and Annex. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

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Surge Performance (IEC 61000-4-5 1.2 μ s / 50 μ s)



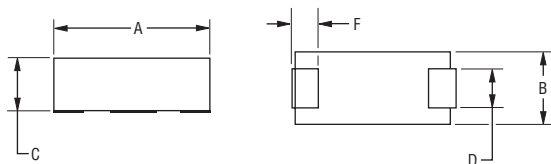
Typical Part Marking

MANUFACTURER'S
TRADEMARK
(PWR4525)

B 10R0
YYWW

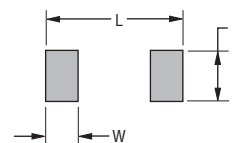
- RESISTANCE
CODE
- DATE CODE

Product Dimensions



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

Recommended Pad Layout



Model	A ± 0.4 (± 0.015)	B ± 0.4 (± 0.015)	C ± 0.4 (± 0.015)	D ± 0.4 (± 0.015)	F ± 0.4 (± 0.015)	Lead Thickness ± 0.05 (± 0.002)	W ± 0.4 (± 0.015)	H ± 0.4 (± 0.015)	L ± 0.4 (± 0.015)
PWR2615	$\frac{6.6}{(0.260)}$	$\frac{3.9}{(0.155)}$	$\frac{3.2}{(0.125)}$	$\frac{1.8}{(0.070)}$	$\frac{1.8}{(0.070)}$	$\frac{0.15}{(0.006)}$	$\frac{2.4 \text{ to } 2.7}{(0.094 \text{ to } 0.096)}$	$\frac{2.8}{(0.112)}$	$\frac{7.6 \text{ to } 8.6}{(0.299 \text{ to } 0.337)}$
PWR4525	$\frac{11.4}{(0.450)}$	$\frac{6.4}{(0.250)}$	$\frac{4.6}{(0.180)}$	$\frac{3.0}{(0.120)}$	$\frac{2.5}{(0.100)}$	$\frac{0.15}{(0.006)}$	$\frac{3.9}{(0.155)}$	$\frac{5.8}{(0.230)}$	$\frac{12.8 \text{ to } 13.7}{(0.504 \text{ to } 0.539)}$

Packaging Specifications

Model	Tape	Pieces per Reel	Bulk Pkg. Quantity
PWR2615	16 mm / Embossed Plastic	2000	250 pcs.
PWR4525	24 mm / Embossed Plastic	1000	250 pcs.

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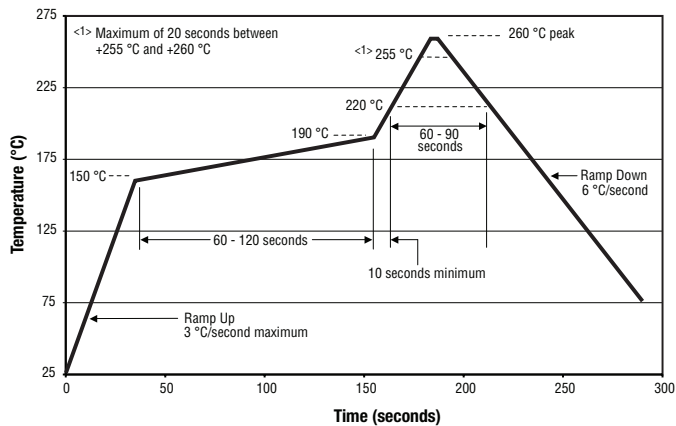
Users should verify actual device performance in their specific applications.

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Soldering Profile



How to Order

PWR4525 W 7R50 J E

Model _____

- PWR2615
- PWR4525

Type _____

W = Wirewound Inductive
N = Wirewound Non-Inductive

Resistor Value for all Tolerances _____

<100 Ω "R" represents decimal point (examples: 7R50 = 7.5 Ω; R050 = 0.050 Ω)
≥100 Ω First three digits are significant, fourth digit represents number of zeros to follow (examples: 2000 = 200 Ω; 2002 = 20K Ω)

Absolute Tolerance*

D = ±0.5 % F = ±1 % J = ±5 %

Packaging _____

E = Tape & Reel _____ = Bulk

*Tolerances as low as 0.01 % available on resistance values greater than 100 ohms. Consult factory.

BOURNS®

Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com

Europe: Tel: +36 88 885 877 • Email: eurocus@bourns.com

Mexico: Tel: +52 614 478 0400 • Email: mexicus@bourns.com

The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

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REV. 03/24

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