

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.

Electrical Characteristics

Parameter	PWR2615	PWR4525	
Resistance Range 1 % Based on E24+E96 Series 5 % Based on E24 Series	0.01 to 5K ohms	0.01 to 15K ohms	
Resistance Range (Non-Inductive Versions) Based on E24 Series	0.005 to 2K ohms	0.005 to 6K ohms (For resistances >2K 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 \leq R \leq 10 ohms 0.1 ohm \leq R $<$ 1 ohm R<0.1 ohm	±50 ±90	PPM/°C PPM/°C PPM/°C) PPM/°C	
Operating Temperature	-55 to +275 °C		
Insulation Resistance	>1000 megohms		
Dielectric Strength	1000 VAC		

Environmental Characteristics

Tests per MIL-STD-202	∆R 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	

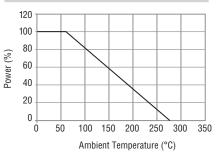
Moisture Sensitivity Level......1 ESD Classification (HBM).....N/A

Physical Characteristics

Flammability Conforms to UL94V-0 Lead Frame Material

.....Copper, tin-plated Body MaterialEpoxy resin

Characteristic Curve



WARNING Cancer and Reproductive Harm - <u>www.P65Warnings.ca.gov</u>

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

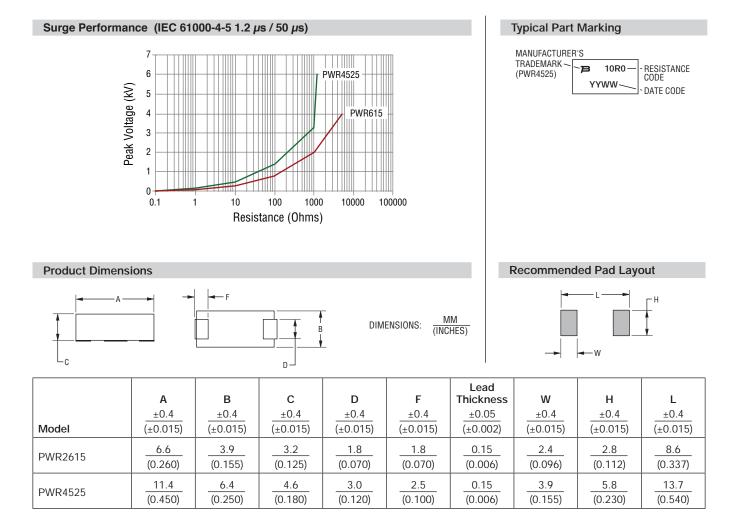
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Users should verify actual device performance in their specific applications.

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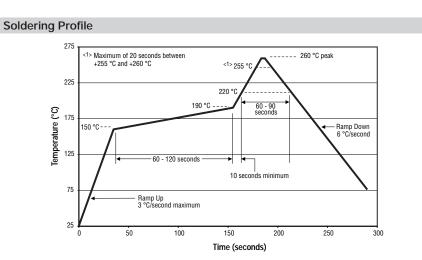


Packaging Specifications

Model	Таре	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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PWR2615/PWR4525 Surface Mount Wirewound Power Resistors



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	
$D = \pm 0.5 \%$ $F = \pm 1 \%$ $J = \pm 5 \%$	
Packaging — E = Tape & Reel = Bulk	_
*Tolerances as low as 0.01 % available on resistance values greater than 100 ohms. Consult factory.	

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Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com www.bourns.com

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