

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≤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			

Environmental Characteristics

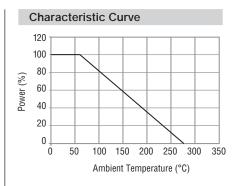
Tests per MIL-STD-202	ΔR Max.		
Short Time Overload	0.5 % ±0.05 Ω		
Load Life	1.0 % ±0.05 Ω		
Moisture Resistance	1.0 % ±0.05 Ω		
Thermal Shock	0.5 % ±0.05 Ω		
Resistance to Solder Heat	0.25 % ±0.05 Ω		
Shock	0.5 % ±0.05 Ω		
Vibration	0.5 % ±0.05 Ω		

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

Physical Characteristics

FlammabilityConforms to UL94V-0 Lead Frame MaterialCopper, tin-plated

Body Material Epoxy resin



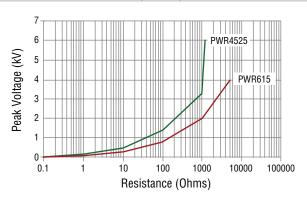


WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

PWR2615/PWR4525 Surface Mount Wirewound Power Resistors

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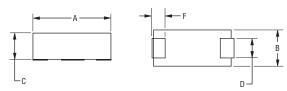
Surge Performance (IEC 61000-4-5 1.2 μ s / 50 μ s)



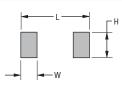
Typical Part Marking



Product Dimensions



Recommended Pad Layout



	А	В	С	D	F	Lead Thickness	W	Н	L
	_±0.4	_±0.4_	_±0.4_	_±0.4_	_±0.4_	±0.05	±0.4	_±0.4_	_±0.4_
Model	(±0.015)	(±0.015)	(±0.015)	(±0.015)	(±0.015)	(±0.002)	(±0.015)	(±0.015)	(±0.015)
PWR2615	<u>6.6</u> (0.260)	3.9 (0.155)	3.2 (0.125)	1.8 (0.070)	1.8 (0.070)	<u>0.15</u> (0.006)	(0.096)	<u>2.8</u> (0.112)	8.6 (0.337)
PWR4525	11.4 (0.450)	(0.250)	<u>4.6</u> (0.180)	3.0 (0.120)	<u>2.5</u> (0.100)	<u>0.15</u> (0.006)	3.9 (0.155)	<u>5.8</u> (0.230)	<u>13.7</u> (0.540)

DIMENSIONS:

MM

(INCHES)

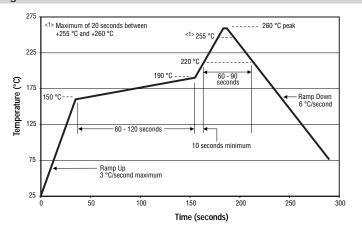
Packaging Specifications

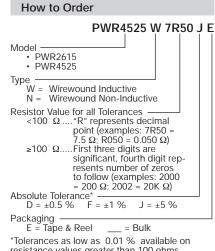
Model	Таре	Pieces per Reel	Bulk Pkg. Quantity
PWR2615	16 mm / Embossed Plastic	2000	250 pcs.
PWR4525	24 mm / Embossed Plastic	1000	250 pcs.

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Soldering Profile





*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

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

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

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