

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

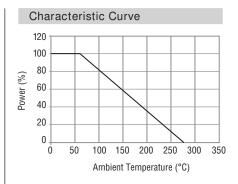
Tests per MIL-STD-202	ΔR Max.
Short Time Overload	0.5 % ±0.05 Ω
Load Life	1.0 % ±0.05 Ω
Moisture Resistance	1.0 % ±0.05 Ω
Thermal Shock	0.5 % ±0.05 Ω
Resistance to Solder Heat	0.25 % ±0.05 Ω
Shock	0.5 % ±0.05 Ω
Vibration	0.5 % ±0.05 Ω

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

Physical C	haracteristics
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Flammability Conforms to UL94V-0 Lead Frame Material

......Copper, tin-plated Body Material Epoxy resin



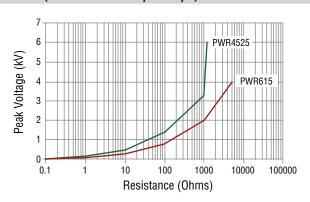


WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

PWR2615/PWR4525 Surface Mount Wirewound Power Resistors

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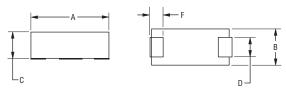
Surge Performance (IEC 61000-4-5 1.2 μ s / 50 μ s)



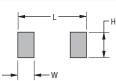
Typical Part Marking



Product Dimensions



Recommended Pad Layout



Model	A ±0.4 (±0.015)	B <u>±0.4</u> (±0.015)	C ±0.4 (±0.015)	D ±0.4 (±0.015)	F <u>±0.4</u> (±0.015)	Lead Thickness ±0.05 (±0.002)	W ±0.4 (±0.015)	H <u>±0.4</u> (±0.015)	L ±0.4 (±0.015)
PWR2615	6.6 (0.260)	3.9 (0.155)	3.2 (0.125)	1.8 (0.070)	1.8 (0.070)	0.15 (0.006)	2.4 (0.096)	2.8 (0.112)	8.6 (0.337)
PWR4525	11.4 (0.450)	<u>6.4</u> (0.250)	<u>4.6</u> (0.180)	3.0 (0.120)	2.5 (0.100)	<u>0.15</u> (0.006)	3.9 (0.155)	5.8 (0.230)	13.7 (0.540)

DIMENSIONS:

MM

(INCHES)

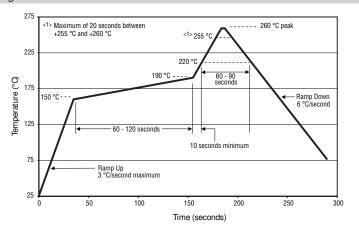
Packaging Specifications

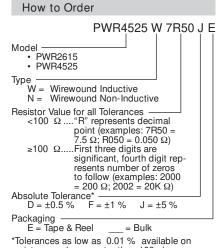
Model	Таре	Pieces per Reel	Bulk Pkg. Quantity
PWR2615	16 mm / Embossed Plastic	2000	250 pcs.
PWR4525	24 mm / Embossed Plastic	1000	250 pcs.

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Soldering Profile





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

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