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

Click these links for more information:

PRODUCT | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

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

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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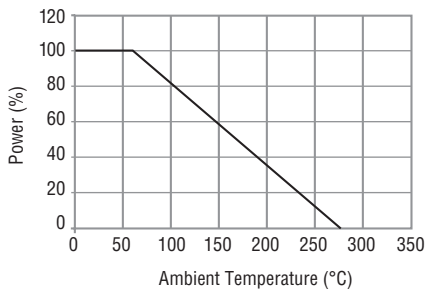
Environmental Characteristics

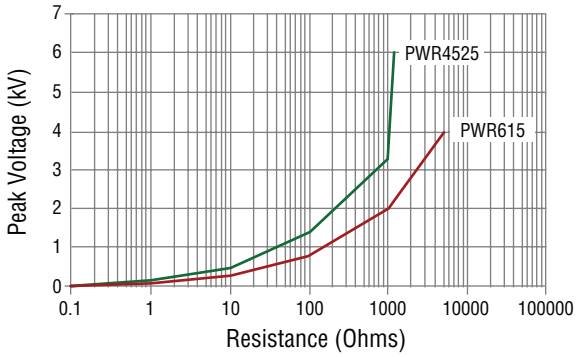
Tests per MIL-STD-202	ΔR Max.
Short Time Overload	0.5 % ±0.05 Ω
Load Life	1.0 % ±0.05 Ω
Moisture Resistance	1.0 % ±0.05 Ω
Thermal Shock	0.5 % ±0.05 Ω
Resistance to Solder Heat	0.25 % ±0.05 Ω
Shock	0.5 % ±0.05 Ω
Vibration	0.5 % ±0.05 Ω

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

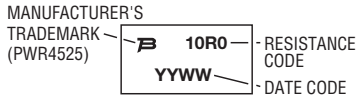
Characteristic Curve



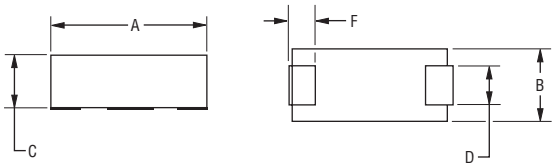
Surge Performance (IEC 61000-4-5 1.2 μs / 50 μs)



Typical Part Marking

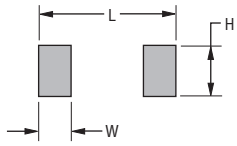


Product Dimensions



DIMENSIONS: MM (INCHES)

Recommended Pad Layout

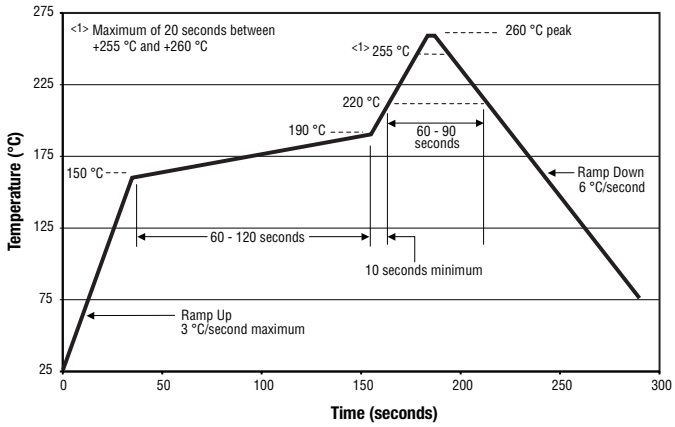


Model	A ±0.4 (±0.015)	B ±0.4 (±0.015)	C ±0.4 (±0.015)	D ±0.4 (±0.015)	F ±0.4 (±0.015)	Lead Thickness ±0.05 (±0.002)	W ±0.4 (±0.015)	H ±0.4 (±0.015)	L ±0.4 (±0.015)
PWR2615	6.6 (0.260)	3.9 (0.155)	3.2 (0.125)	1.8 (0.070)	1.8 (0.070)	0.15 (0.006)	2.4 to 2.7 (0.094 to 0.096)	2.8 (0.112)	7.6 to 8.6 (0.299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

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.

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