

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			

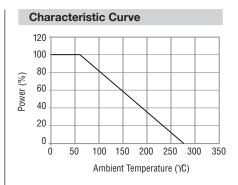
Environmental Characteristics

Tests per MIL-STD-202	∆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

FlammabilityConforms to UL94V-0
Lead Frame MaterialCopper, tin-plated
Body MaterialEpoxy resin





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

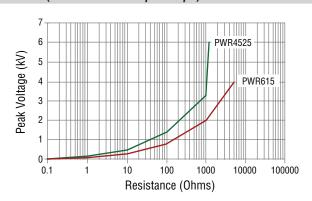
 * RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

PWR2615/PWR4525 Surface Mount Wirewound Power Resistors

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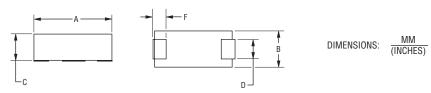
Surge Performance (IEC 61000-4-5 1.2 μ s / 50 μ s)



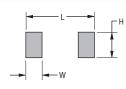
Typical Part Marking



Product Dimensions



Recommended Pad Layout

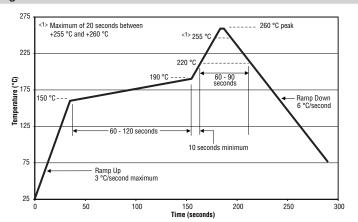


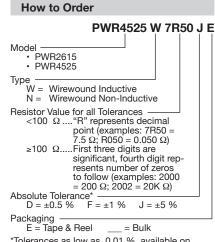
Model	A ±0.4 (±0.015)	B ±0.4 (±0.015)	C ±0.4 (±0.015)	D ±0.4 (±0.015)	F ±0.4 (±0.015)	Lead Thickness ±0.05 (±0.002)	Height ±0.13 (±0.005)	W <u>±0.4</u> (±0.015)	H ±0.4 (±0.015)	L ±0.4 (±0.015)
PWR2615	6.6 (0.260)	3.9 (0.155)	3.2 (0.125)	1.8 (0.070)	1.8 (0.070)	0.15 (0.006)	0.13 (0.005)	2.4 (0.096)	2.8 (0.112)	8.6 (0.337)
PWR4525	11.4 (0.450)	6.4 (0.250)	4.6 (0.180)	3.0 (0.120)	2.5	0.15 (0.006)	0.13	3.9 (0.155)	5.8 (0.230)	13.7

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.

Soldering Profile





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

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