

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	±50 ±90	PPM/°C PPM/°C PPM/°C) PPM/°C			
Operating Temperature	-55 to +275 °C				
Insulation Resistance	>1000 megohms				
Dielectric Strength	1000 VAC				

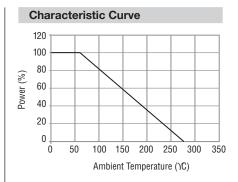
Environmental Characteristics

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

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

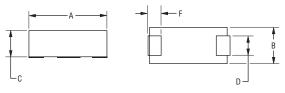


^{*}RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice.

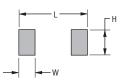
PWR2615/PWR4525 Surface Mount Wirewound Power Resistors

BOURNS

Product Dimensions



Recommended Pad Layout



Model	A ±0.4 (±0.015)	B ±0.4 (±0.015)	C ±0.4 (±0.015)	D	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	<u>6.6</u> (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 (0.100)	0.15 (0.006)	0.13 (0.005)	3.9 (0.155)	5.8 (0.230)	13.7 (0.540)

DIMENSIONS:

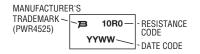
MM

(INCHES)

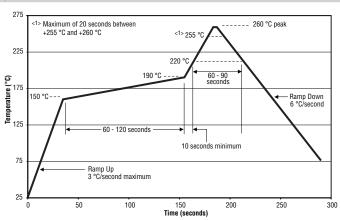
Packaging Specifications

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

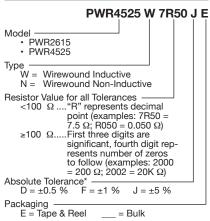
Typical Part Marking



Soldering Profile



How to Order



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