

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









### **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				

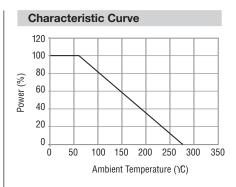
### **Environmental Characteristics**

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**

Flammability .......Conforms to UL94V-0
Lead Frame Material
......Copper, tin-plated
Body Material ......Epoxy resin

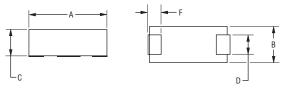


<sup>\*</sup>RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice.

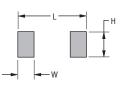
# PWR2615/PWR4525 Surface Mount Wirewound Power Resistors

# **BOURNS**

### **Product Dimensions**



### Recommended Pad Layout



Model	A ±0.4 (±0.015)	B ±0.4 (±0.015)	C ±0.4 (±0.015)	<b>D</b> <u>±0.4</u> (±0.015)	F ±0.4 (±0.015)	Lead Thickness ±0.05 (±0.002)	Height ±0.13 (±0.005)	<b>W</b> ±0.4 (±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:

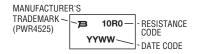
MM

(INCHES)

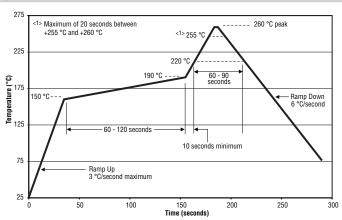
#### **Packaging Specifications**

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

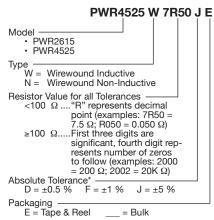
### **Typical Part Marking**



### **Soldering Profile**



### How to Order



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