

### **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:











### **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



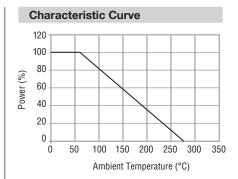
\*RoHS Directive 2015/863, Mar 31, 2015 and Annex. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

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### **Environmental Characteristics**

Tests per MIL-STD-202	∆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		

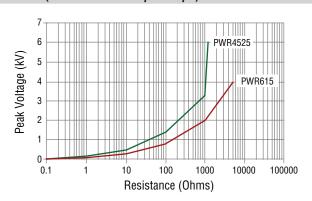
Moisture Sensitivity Level.....1 ESD Classification (HBM).....N/A



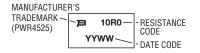
# **PWR2615/PWR4525 Surface Mount Wirewound Power Resistors**

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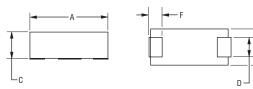
## Surge Performance (IEC 61000-4-5 1.2 $\mu$ s / 50 $\mu$ s)



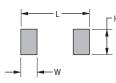
### **Typical Part Marking**



#### **Product Dimensions**



# **Recommended Pad Layout**



	Α	В	С	D	F	Lead Thickness	w	Н	L
	±0.4	±0.4	±0.4	±0.4	±0.4	±0.05	±0.4	±0.4	±0.4
Model	(±0.015)	(±0.015)	(±0.015)	(±0.015)	(±0.015)	(±0.002)	(±0.015)	(±0.015)	(±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)

DIMENSIONS:

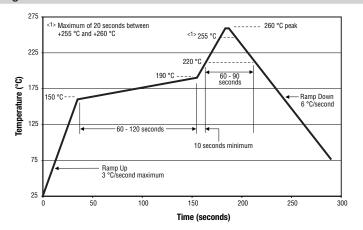
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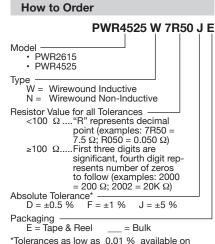
(INCHES)

### **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.

#### **Soldering Profile**





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

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