

## **Features**

- Surface mount wirewound resistor
- High power
- Low temperature coefficient
- RoHS compliant\*
- Non-inductive versions available



## **Applications**

- Power supplies
- Motor drives
- Electricity metering

# PWR1913/PWR6327 Surface Mount Wirewound Power Resistors

#### **General Information**

The PWR1913/PWR6327 Series are surface mount wirewound resistors offering 0.5, 1, 2 and 3 W power ratings as well as a wide resistance and operating temperature range.

### **Electrical Characteristics**

Parameter	PWR1913	PWR6327			
Resistance Range	0.01 to 400 ohms 0.01 to 25K ohms				
Resistance Range (Non-Inductive Version)	Not Available	0.01 to 12.5K ohms			
Power Rating @ 70 °C	0.5 W	3 W			
Maximum Working Voltage	33 V	273 V			
Absolute Tolerance Values	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				

<sup>\*\*</sup> Two standard series of test temperatures: First Series: 25 °C, 0 °C, -15 °C and -55 °C

Second Series: 25 °C, 50 °C, 75 °C, 125 °C and 150 °C

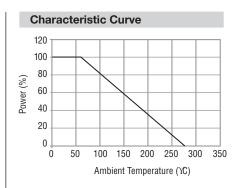
### **Environmental Characteristics**

Tests per MIL-STD-202	∆R Max.
Short Time Overload	$0.5~\%~\pm0.5~\text{m}\Omega$
Load Life	2.0 % ±0.5 mΩ
Moisture Resistance	1.0 % ±0.5 mΩ
Thermal Shock	1.0 % ±0.5 mΩ
Resistance to Solder Heat	0.5 % ±0.5 mΩ
Shock	0.5 % ±0.5 mΩ
Vibration	

### **Physical Characteristics**

Flammability ...... Conforms to UL94V-0 Lead Frame Material

......Copper, tin-plated Body Material ...... Epoxy resin



Specifications are subject to change without notice.

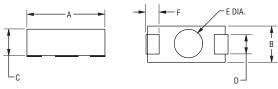
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

<sup>\*</sup>RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

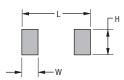
# PWR1913/PWR6327 Surface Mount Wirewound Power Resistors

# 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> ±0.4 (±0.015)	F ±0.4 (±0.015)	Lead Thickness ±0.05 (±0.002)	E ±0.4 (±0.015)	Height ±0.13 (±0.005)	<b>W</b> ±0.4 (±0.015)	H ±0.4 (±0.015)	L ±0.4 (±0.015)
PWR1913	4.8 (0.190)	3.3 (0.130)	2.8 (0.110)	1.5 (0.060)	1.0 (0.040)	0.15 (0.006)	2.5 (0.100)	0.13 (0.005)	1.6 (0.062)	2.5 (0.100)	6.4 (0.250)
PWR6327	15.9 (0.625)	6.9 (0.270)	6.4 (0.250)	3.0 (0.120)	3.4 (0.135)	0.15 (0.006)	2.8 (0.110)	0.13 (0.005)	5.1 (0.200)	3.8 (0.150)	17.8 (0.700)

DIMENSIONS:

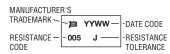
MM

(INCHES)

### **Packaging Specifications**

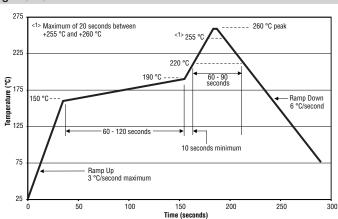
Model	Таре	Pieces per Reel	Bulk Pkg. Quantity
PWR1913	12 mm / Embossed Plastic	3000	250 pcs.
PWR6327	28 mm / Embossed Plastic	700	250 pcs.

## **Typical Part Marking**



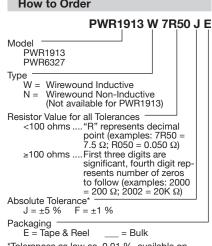
PWR1913 will contain only the Resistance Code on the top line and the Resistance Tolerance on the bottom

## **Soldering Profile**



### **How to Order**

Note:



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