

Features

- Power rating: 1 watt
- Large terminals and optimized body shape for power dissipation
- Excellent surge capabilities
- Low TCR
- Non-inductive versions available
- RoHS compliant*

Applications

- Telecommunications
- Audio equipment
- Medical equipment (low/medium risk)**
- Base stations
- Industrial equipment

PWR3014 - Surface Mount Wirewound Resistors

General Information

The PWR3014 Series surface mount wirewound resistors boast a high power density and excellent pulse power characteristics. They can be used in a wide range of applications where surge voltages or inrush currents are present.

Electrical Characteristics

Parameter	PWR3014
Power	1.0 W
Resistance Range 1 % Based on E24+E96 Series 5 % Based on E24 Series	0.05 Ω - 4.2K Ω
Resistance Range (Non-inductive Versions) Based on E24 Series	$0.05~\Omega$ - $500~\Omega$
Tolerance	0.5 % / 1 % / 5 %
Temperature Coefficient $<0.1~\Omega$ 0.1 - $0.99~\Omega$ 1.0 - $10~\Omega$	±200 PPM/°C ±90 PPM/°C ±50 PPM/°C ±20 PPM/°C
Operating Temperature	-55 ° to +155 °C
Maximum Voltage	√P*R

Additional Information

Click these links for more information:









INVENTORY S

AMPLES CO

CONTACT

Environmental Characteristics

Moisture Sensitivity Level	1
ESD Classification (HBM)N/	Α

Physical Characteristics

Environmental Characteristics

Test	Description	Specification
Thermal Shock	-55 +0 °C/-3 °C to 150 °C +3 °C/-0 °C, 5 cycles, with minimum 15 minutes at each cycle	ΔR ±(2.0 % +0.05 Ω)
Short Time Overload	Five times rated power for 5 seconds	ΔR ±(0.5 % +0.05 Ω)
Solderability	Immersion in solder 260 °C ±5 °C for 5 ±0.5 seconds	90 % of contact covered in solder
Resistance to Solder Heat	Immersion in solder 260 °C ±5 °C for 5 ±0.5 seconds	ΔR ±(0.5 % +0.05 Ω)
Dielectric Strength	Test voltage >500 Vrms for greater than one minute	Pass
Insulation Resistance	Test voltage greater than 500 Vrms for one minute	>1000 GΩ
High Temperature Exposure	Ambient temperature of 175 °C +5 °C/-0 °C for 250 ±8 hours	ΔR ±(2.0 % +0.05 Ω)
Low Temperature Exposure	Ambient Temperature of -65 °C ±2 °C for 24 hours ±4 hours	ΔR ±(2.0 % +0.05 Ω)
Load Life	Rated continuous voltage for 1000 hours (1 hour on and 0.5 hours off) at a test temperature of 70 °C ±2 °C	ΔR ±(2.0 % +0.05 Ω)



CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant. See www.P65Warnings.ca.gov

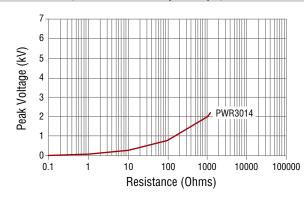
^{*}RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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PWR3014 - Surface Mount Wirewound Resistors

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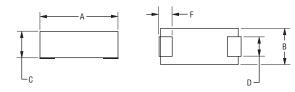
Surge Performance (IEC 61000-4-5 1.2 μ s / 50 μ s)



Typical Part Marking



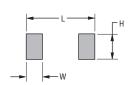
Product Dimensions



DIMENSIONS:

TOLERANCE:

Recommended Pad Layout



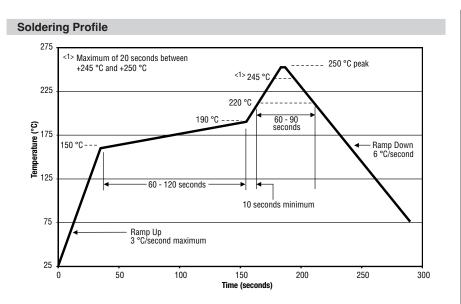
Model	Α	F	L	С	В	D	W	Н
PWR3014	7.5	1.75	8.9	4.64	3.50	2.405	2.45	2.95
	(0.29)	(0.069)	(0.35)	(0.183)	(0.138)	(0.095)	(0.096)	(0.116)

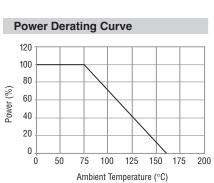
Packaging Specifications

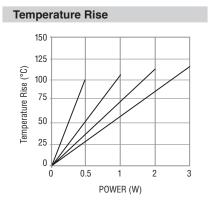
Model	Tape	Reel	Pieces	Bulk Pkg.
	Width	Diameter	per Reel	Quantity
PWR3014	<u>16.0</u> (0.629)	330 (13.0)	1500	200

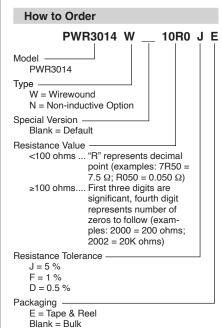
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