

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.

| 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 \leq R \leq 10 ohms 0.1 ohm \leq 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 | |

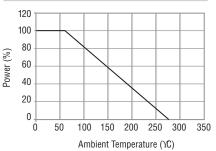
Moisture Sensitivity Level......1 ESD Classification (HBM).....N/A

Physical Characteristics

Flammability Conforms to UL94V-0 Lead Frame Material

.....Copper, tin-plated Body MaterialEpoxy resin

Characteristic Curve



WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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

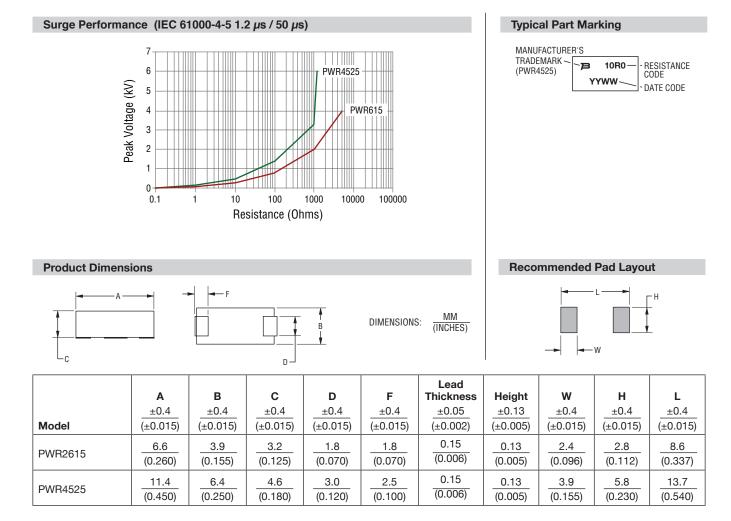
Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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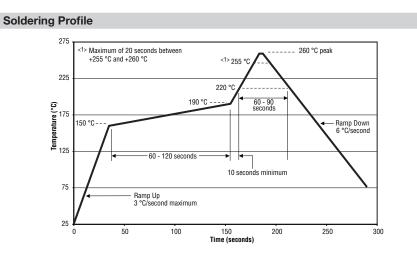
Packaging Specifications

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

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| How to Order | |
|---|---|
| PWR4525 W 7R50 J | Ē |
| Model • PWR2615 • PWR4525 | |
| Type W = Wirewound Inductive N = Wirewound Non-Inductive | |
| Resistor Value for all Tolerances <100 Ω"R" represents decimal | |
| $D = \pm 0.5 \%$ $F = \pm 1 \%$ $J = \pm 5 \%$ | |
| Packaging — E = Tape & Reel = Bulk | |
| *Tolerances as low as 0.01 % available on resistance values greater than 100 ohms. Consult factory. | |



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