4600M Series - Thick Film Conformal SIPs

Features
- RoHS compliant*
- Medium profile offers increased power handling
- Wide assortment of pin packages enhances design flexibility
- Ammo-pak packaging available

Environmental Characteristics
- TESTS PER MIL-STD-202.....ΔR MAX.
- Short Time Overload..............±0.25 %
- Moisture Resistance...............±0.50 %
- Resistance to Soldering Heat
- Terminal Strength ......................±0.25 %
- Load Life ....................................±2.00 %
- Resistance to Dielectric Tracking
- Dielectric Withstanding Voltage
- TCR Tracking.........................50 ppm/°C
- Maximum Operating Voltage .........100 V
- Temperature Coefficient of Resistance
- Insulation Resistance
- Voltage Rating
- Physical Characteristics
- Flammability ....... Conforms to UL94V-0
- Body Material ....................... Epoxy resin
- Standard Packaging ................. Bulk, Ammo-pak available

How To Order
- 46 M - 101 - 222 __ LF

Product Dimensions

Package Power Ratings (Watts)

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<tbody>
<tr>
<td>Pkg.</td>
<td>70 °C</td>
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<td>4610M</td>
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<td>4609M</td>
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Maximum package length is equal to 2.54 mm (100") times the number of pins, less 0.05 mm (0.002")

For Standard Values Used in Capacitors, Inductors, and Resistors, click here.

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

*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. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.
For information on specific applications, download Bourns’ application notes:
- DRAM Applications
- Dual Terminator Resistor Networks
- R/2R Ladder Networks
- SCSI Applications

### 4600M Series - Thick Film Conformal SIPs

**Isolated Resistors (102 Circuit)**
- Model 4600M-102-RC
  - 4, 6, 8, 10 Pin

**Bussed Resistors (101 Circuit)**
- Model 4600M-101-RC
  - 4 through 14 Pin

**Dual Terminator (104 Circuit)**
- Model 4600M-104-R1/R2
  - 4 through 14 Pin

#### Resistance Tolerance
- **Isolated Resistors (102 Circuit)**
  - 10 ohms to 49 ohms: ±1 ohm
  - 50 ohms to 5 megs: ±2 %
  - Above 5 megs: ±5 %

- **Bussed Resistors (101 Circuit)**
  - 10 ohms to 49 ohms: ±1 ohm
  - 50 ohms to 5 megs: ±2 %
  - Above 5 megs: ±5 %

- **Dual Terminator (104 Circuit)**
  - Below 100 ohms: ±2 ohms
  - 100 ohms to 5 megs: ±2 %
  - Above 5 megs: ±5 %

**Power Rating per Resistor**
- **Isolated Resistors (102 Circuit)**
  - At 70 °C: 0.40 watt

- **Bussed Resistors (101 Circuit)**
  - At 70 °C: 0.25 watt

- **Dual Terminator (104 Circuit)**
  - At 70 °C: 0.25 watt

#### Power Temperature Derating Curve

**Popular Resistance Values (101, 102 Circuits)**

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**Popular Resistance Values (104 Circuit)**

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<th>Code</th>
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<td>3,000</td>
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* ±1 % tolerance is available by adding suffix code “F” after the resistance code.
**Non-standard values available, within resistance range.
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