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

Recommended for rosin flux and solvent clean or no clean flux processes
- Marking on contrasting background for permanent identification

4600M Series - Thick Film Conformal SIPs

Product Characteristics
- Resistance Range
- Maximum Operating Voltage
- Temperature Coefficient of Resistance
- Flammability
- Physical Characteristics
- Flammability
- Electrical Characteristics
- Environmental Characteristics
- Insulation Resistance
- Resistance Tolerance
- TCR Tracking
- Maximum Operating Voltage
- Resistance Range

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

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.
### 4600M Series - Thick Film Conformal SIPs

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

These models incorporate 2 to 7 isolated thick-film resistors of equal value, each connected between two pins.

#### Resistance Tolerance
- 10 ohms to 49 ohms: ±1 ohm
- 50 ohms to 5 megohms: ±2 %*
- Above 5 megohms: ±5 %

#### Power Rating per Resistor
- At 70 °C: 0.40 watt

#### Power Temperature Derating Curve

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

These models incorporate 3 to 13 thick-film resistors of equal value, each connected between a common bus (pin 1) and a separate pin.

#### Resistance Tolerance
- 10 ohms to 49 ohms: ±1 ohm
- 50 ohms to 5 megohms: ±2 %*
- Above 5 megohms: ±5 %

#### Power Rating per Resistor
- At 70 °C: 0.25 watt

#### Power Temperature Derating Curve

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

The 4608M-104 (shown above) is an 8-pin configuration and terminates 6 lines. Pins 1 and 8 are common for ground and power, respectively. Twelve thick-film resistors are paired in series between the common lines (pins 1 and 8).

#### Resistance Tolerance
- Below 100 ohms: ±2 ohms
- 100 ohms to 5 megohms: ±2 %*
- Above 5 megohms: ±5 %

#### Power Rating per Resistor
- At 70 °C: 0.25 watt

#### Power Temperature Derating Curve

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

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<thead>
<tr>
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* ±1 % tolerance is available by adding suffix code “F” after the resistance code.
** Non-standard values available, within resistance range.

### Popular Resistance Values (104 Circuit)**

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<th>Resistance</th>
<th>Ohms</th>
<th>Code</th>
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<tr>
<td>R2</td>
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For information on specific applications, download Bourns’ application notes:
- DRAM Applications
- Dual Terminator Resistor Networks
- R/2R Ladder Networks
- SCSI Applications

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