4600H Series - Thick Film Conformal SIPs

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

**Product Characteristics**

**Resistance Range**
- 10 ohms to 10 megohms
- Maximum Operating Voltage: 100 V
- Temperature Coefficient of Resistance: 
  - 50 Ω to 2.2 megohms: ±100 ppm/°C
  - 50 Ω: ±250 ppm/°C
  - above 2.2 megohms: ±250 ppm/°C

**TCR Tracking**
- ±50 ppm/°C above 2.2 megohms
- ±250 ppm/°C below 50 Ω

**Resistance Code**
- Blank = ±2% (see “Resistance Tolerance” on next page for resistance range)
- F = ±1% (100 ohms - 5 megohms)

**Resistance Tolerance**
- Total content. Layout may vary.

**Product Dimensions**

**Environmental Characteristics**
- TESTS PER MIL-STD-202: ±0.25%
- Terminal Strength: ±0.25%
- Moisture Resistance: ±0.5%
- Resistance to Soldering Heat: ±1%
- Load Life: ±1%
- Short Time Overload: ±0.25%

**Typical Part Marking**

*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.*

[Click here for additional information.]
Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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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**4600H Series - Thick Film Conformal SIPs**

**Isolated Resistors (102 Circuit)**
Model 4600H-102
4, 6, 8, 10, 12 or 14 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: 0.50 watt

**Power Temperature Derating Curve**

**Bussed Resistors (101 Circuit)**
Model 4600H-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: 0.30 watt

**Power Temperature Derating Curve**

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

The 4608H-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: 0.30 watt

**Power Temperature Derating Curve**

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

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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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**Popular Resistance Values (104 Circuit)**

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<th>Resistance</th>
<th>Ohms</th>
<th>Code</th>
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<tr>
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