### Features

- RoHS compliant* versions available (see How to Order “Termination” option)
- Compatible with automatic insertion equipment
- Superior package integrity
- Now available with improved tolerance to ±0.5 %

For information on specific applications, download Bourns’ application notes:
- DRAM Applications
- Dual Terminator Resistor Networks
- R/2R Ladder Networks
- SCSI Applications

### 4100R Series - Thick Film Molded DIPs

#### Product Characteristics

**Resistance Characteristics**

- Resistance Range: 10 ohms to 10 megohms
- Maximum Operating Voltage: 100 V
- Temperature Coefficient of Resistance: 50 Ω ± 25 ppm/°C
- TCR Tracking: ±50 ppm/°C
- Resistance Range: 10,000 megohms minimum
- Dielectric Withstanding Voltage: 500 Vrms
- Insulation Resistance: 10,000 megohms minimum
- Moisture Resistance: ±0.5%
- Load Life: ±1.00%
- Short Time Overload: ±0.25%

**Environmental Characteristics**

- Short Time Overload: ±1.00 %
- Moisture Resistance: ±0.50 %
- Lead Solderability: Meets requirements of MIL-STD-202 Method 208
- Dielectric Withstanding Voltage: 500 Vrms
- Lead Solderability: Meets requirements of MIL-STD-202 Method 208

**Physical Characteristics**

- Flammability: Conforms to UL94V-0
- Lead Frame Material: Copper, solder coated
- Body Material: Novolac epoxy

**How To Order**

<table>
<thead>
<tr>
<th>Model</th>
<th>Part Number</th>
</tr>
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<tbody>
<tr>
<td>4114R</td>
<td>1 - 152</td>
</tr>
</tbody>
</table>

**Package Power Rating at 70 °C**

- 4108R: 1.69 watts
- 4114R: 2.00 watts
- 4116R: 2.25 watts
- 4118R: 2.50 watts
- 4120R: 2.80 watts

**Package Power Temp. Derating Curve**

- AMBIENT TEMPERATURE (°C)

**Typical Part Marking**

- PART NUMBER
- MANUFACTURER’S TRADEMARK
- COUNTRY OF MANUFACTURE (C = COSTA RICA)
- DATE CODE
- CIRCUIT RESISTANCE CODE
- RESISTANCE TOLERANCE

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

**WARNING** Cancer and Reproductive Harm

www.P65Warnings.ca.gov

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4100R Series - Thick Film Molded DIPs

**Isolated Resistors (1 Circuit)**
- Model 4108R-1-RC (4 Isolated Resistors)
- Model 4114R-1-RC (7 Isolated Resistors)
- Model 4116R-1-RC (8 Isolated Resistors)
- Model 4118R-1-RC (9 Isolated Resistors)
- Model 4120R-1-RC (10 Isolated Resistors)

**Bussed Resistors (2 Circuit)**
- Model 4108R-2-RC (7 Resistors, Pin 8 Common)
- Model 4114R-2-RC (13 Resistors, Pin 14 Common)
- Model 4116R-2-RC (15 Resistors, Pin 16 Common)
- Model 4118R-2-RC (17 Resistors, Pin 18 Common)
- Model 4120R-2-RC (19 Resistors, Pin 20 Common)

**Dual Resistors (3 Circuit)**
- Model 4108R-3-R1/R2
- Model 4114R-3-R1/R2
- Model 4116R-3-R1/R2 (shown)
- Model 4118R-3-R1/R2
- Model 4120R-3-R1/R2

**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: 0.250 watt

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

**Power Rating per Resistor**
- At 70 °C: 0.125 watt

**Popular Resistance Values (1, 2 Circuits)**

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<td>100</td>
<td>100 180</td>
<td>181</td>
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<td>153</td>
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<td>220 221</td>
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<td>1,500 152</td>
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<td>105</td>
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</table>

* Add “F” after resistance code for ±1 % tolerance available from 100 Ω through 1M Ω, or add “D” after resistance code for ±0.5 % tolerance available from 100 Ω through 1M Ω.

**Non-standard values available, within resistance range.**

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