4400T - Thin Film Wide Body Gull Wing

**Features**
- RoHS compliant*
- Increased lead density
- Custom circuits available per factory

*This series is obsolete and not recommended for new designs.

**Product Characteristics**
- Resistance Range: 10 to 150K ohms
- Resistance Tolerance: ±0.1 %, ±0.5 %, ±1 %
- Temperature Coefficient: ±100 ppm/°C, ±50 ppm/°C, ±25 ppm/°C
- Temperature Range: -55 °C to +125 °C
- Insulation Resistance: 10,000 megohms minimum
- Maximum Operating Voltage: 50 V

**Environmental Characteristics**
- Environmental Tests: Per MIL-STD-202
- Thermal Shock
- Short Time Overload: 0.1 %
- Resistance to Soldering Heat: ±25 ppm/°C
- Moisture Resistance: 0.5 %
- Life: 0.5 %

**Physical Characteristics**
- Lead Frame Material: Copper, solder coated
- Body Material: Conforms to UL94V-0
- Body Material: Novolac Epoxy

**How To Order**
- Model: 4416 T - 2 - 2222 F A B L
  - (44 = SOL)
  - Wide Body
  - Gull Wing
  - Number of Pins
  - Physical Config.: T = Thin Film
  - Electrical Configuration: 1 = Isolated
  - Resistance Code: First 3 digits are significant, fourth digit represents the number of zeros to follow.
  - Absolute Tolerance Code: B = ±0.1 %, D = ±0.5 %
  - Temperature Coefficient Code: A = ±100 ppm/°C, C = ±25 ppm/°C
  - Ratio Tolerance (Optional): B = ±0.1 % to R1
  - Terminations: L = Tin-plated (RoHS compliant version)

Consult factory for other available options.

**Package Power Temp. Derating Curve**

**Package Power Rating at 70 °C**
- 4416T: 1.60 watts
- 4420T: 2.00 watts

**Typical Part Marking**
- Represents total content. Layout may vary.

**Isolated Resistors (1 Circuit)**
Available in 16 and 20 Pin

<table>
<thead>
<tr>
<th>Resistance</th>
<th>Power Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>0.15 watt</td>
</tr>
<tr>
<td>16</td>
<td>0.15 watt</td>
</tr>
</tbody>
</table>

These models incorporate 8 or 10 thin-film resistors of equal value, each connected between a separate pin.

**Bussed Resistors (2 Circuit)**
Available in 16 and 20 Pin

<table>
<thead>
<tr>
<th>Resistance</th>
<th>Power Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>0.10 watt</td>
</tr>
<tr>
<td>16</td>
<td>0.10 watt</td>
</tr>
</tbody>
</table>

These models incorporate 15 or 19 thin-film resistors of equal value, each connected by a common pin.

**Product Dimensions**

<table>
<thead>
<tr>
<th>AMOUNT</th>
<th>WATTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.15</td>
<td>1.60</td>
</tr>
<tr>
<td>0.10</td>
<td>2.00</td>
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</tbody>
</table>

**DERATING CURVE**

<table>
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**Warning**
- Cancer and Reproductive Harm
  - www.P65Warnings.ca.gov

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Users should verify actual device performance in their specific applications.

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