NTC Interchangeable Thermistor Series Type SC

Features

• Precision, solid state temperature sensor
• Epoxy filled sleeve for controlled diameter
• Interchangeability down to ±0.18°F (±0.10°C)
• Suitable for use over the range of: -40°F to 221°F (−40°C to 105°C)
• High sensitivity greater than: −4%/°C at 77°F (25°C)
• Most popular Resistance (R) vs Temperature (T) curves are available
• Suitable for temperature measurement, control and compensation

• Ideal for medical applications
• Fully insulated
• Polyimide sleeved for good mechanical strength and resistance to solvents
• 0.008 in (0.2 mm) diameter heavy isomid insulated bifilar copper lead wires for SC50
• 0.004 in (0.1 mm) diameter heavy isomid insulated bifilar nickel lead wires for SC30
Type SC30
Specifications

NTC Interchangeable Type SC30
Polyimide sleeved, interchangeable chip thermistors with heavy isomid insulated nickel lead-wires.

Options

Consult Factory for Availability of Options
• Other resistance values in the range of 1000 Ω to 100 kΩ
• Other tolerances or ranges
• Alternative lead wires or lengths
• Non standard R vs T curves
• Controlled dimensions

Thermal and Electrical Properties

Dissipation Constant
Still air: 0.4 mW/°C
Stirred oil: 3 mW/°C

Thermal Time Constant
Still air: 5 seconds
Stirred oil: 0.3 seconds

Maximum Power at 77°F (25°C)
~30 mW

De-rated from 100% at 77°F (25°C) to 0% at 212°F (100°C)

Ordering Information

Select appropriate part number below for resistance and temperature tolerance desired.

<table>
<thead>
<tr>
<th>R25°C</th>
<th>Material System</th>
<th>±0.18°F (±0.1°C) 32°F to 158°F (0°C to 70°C)</th>
<th>±0.36°F (±0.2°C) 32°F to 158°F (0°C to 70°C)</th>
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<tr>
<td>2252</td>
<td>F</td>
<td>SC30F232V</td>
<td>SC30F232W</td>
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<tr>
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<td>F</td>
<td>SC30F302V</td>
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<td>F</td>
<td>SC30F502V</td>
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<tr>
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<td>SC30F103V</td>
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<td>SC30H303V</td>
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</tbody>
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Notes:

1. For RoHS compliant product, please add the suffix “N” to the part label. Example: SC30F103VN

2. For RoHS compliant product with applications below 0°C, please add the suffix “H” to the part label. Example: SC30F103VH
Type SC50 Specifications

NTC Interchangeable Type SC50

Polyimide sleeved, interchangeable chip thermistors with heavy Isomid insulated copper lead wires.

Options

Consult Factory for Availability of Options.
- Other resistance values in the range of 1000 Ω to 100 kΩ
- Other tolerances or ranges
- Alternative lead wires or lengths
- Non standard R vs T curves
- Controlled dimensions

Thermal and Electrical Properties

Dissipation Constant
Still air: 0.5 mW/°C
Stirred oil: 0.4 mW/°C

Thermal Time Constant
Still air: 8 seconds
Stirred oil: 0.5 seconds

Maximum Power at 77°F (25°C)
~50 mW

De-rated from 100% at 77°F (25°C) to 0% at 212°F (100°C)

Ordering Information

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<th>Material System</th>
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<tr>
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Notes:

1. For RoHS compliant product, please add the suffix "N" to the part label. Example: SC50F103VN

2. For RoHS compliant product with applications below 0°C, please add the suffix "H" to the part label. Example: SC50F103VH