NTC Interchangeable Type 65 Series
Thermometrics Thermistors

Features

- Precision, solid state temperature sensor
- For MC65: Interchangeability down to ±0.09°F (±0.05°C)
- For MF65: Interchangeability down to ±0.18°F (±0.10°C)
- Suitable for use over range of -40°F to 221°F (-40°C to 105°C)
- High sensitivity greater than -4%/°C at 77°F (25°C)
- Suitable for temperature measurement, control and compensation
- High reliability and stability over interchangeable range
- Most popular Resistance (R) vs Temperature (T) curves are available
- Special tight tolerances in the clinical range for medical applications for MC65
- For MC65: Resin coated for good mechanical strength and resistance to solvents
- 0.004 in (0.1 mm) diameter heavy isomid insulated bifilar nickel lead wires
- For MF65: Fluidized bed epoxy-coated for good mechanical strength and resistance to solvents
Type MC65
Specifications

**NTC Interchangeable Type MC65**
Epoxy-coated 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
- Other 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: 4 mW/°C

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

**Maximum Power at 77°F (25°C)**
25 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>( R_{25^\circ C} )</th>
<th>Material System</th>
<th>±0.05°C, 35°C to 39°C</th>
<th>±0.075°C, 39°C to 42°C</th>
<th>±0.10°C, 20°C to 45°C</th>
<th>±0.125°C, 0°C to 50°C</th>
<th>±0.15°C, 35°C to 39°C</th>
<th>±0.2°C, 20°C to 45°C</th>
<th>±0.25°C, 0°C to 50°C</th>
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Note: For RoHS compliant product, please add the suffix “N” to the part label. Example: MC65F103AN
Type MF65
Specifications

NTC Interchangeable Type MF65
Epoxy-coated 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
- Other 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: 4m W/°C

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

Maximum Power at 77°F (25°C)
25mW
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>$R_{25°C}$</th>
<th>Material System</th>
<th>±0.1°F (±0.1°C); 32°F to 158°F (0°C to 70°C)</th>
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Note: For RoHS compliant product, please add the suffix “N” to the part label. Example: MF65F302VN