

T H E R M O M E T R I C S
A C O M M I T M E N T T O E X C E L L E N C E

NTC

Interchangeable

Type 65 Series

Thermometrics

Thermistors



Features

- Precision, solid state temperature sensor
- For MC65: Interchangeability down to $\pm 0.09^{\circ}\text{F}$ ($\pm 0.05^{\circ}\text{C}$)
- For MF65: Interchangeability down to $\pm 0.18^{\circ}\text{F}$ ($\pm 0.10^{\circ}\text{C}$)
- Suitable for use over range of -40°F to 221°F (-40°C to 105°C)
- High sensitivity greater than $-4\%/^{\circ}\text{C}$ 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

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Type MC65

Specifications

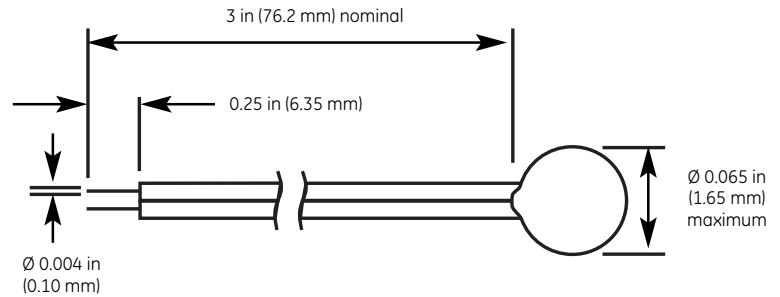
NTC Interchangeable Type MC65

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 k Ω
- Other tolerances or ranges
- Other lead wires or lengths
- Non standard R vs T curves
- Controlled dimensions



NTC Interchangeable Type MC65 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.

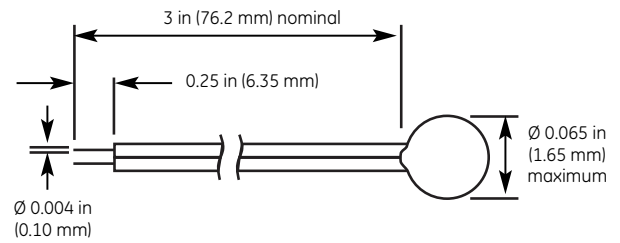
| R _{25°C} | Material System | ±0.05°C; 35°C to 39°C ±0.075°C; 39°C to 42°C ±0.10°C; 20°C to 45°C ±0.15°C; 0°C to 50°C | ±0.1°C; 35°C to 39°C ±0.15°C; 20°C to 45°C ±0.2°C; 0°C to 50°C | ±0.15°C; 35°C to 39°C ±0.2°C; 20°C to 45°C ±0.25°C; 0°C to 50°C |
|-------------------|-----------------|--|--|---|
| 2252 | F | MC65F232A | MC65F232B | MC65F232C |
| 3000 | F | MC65F302A | MC65F302B | MC65F302C |
| 5000 | F | MC65F502A | MC65F502B | MC65F502C |
| 10000 | F | MC65F103A | MC65F103B | MC65F103C |
| 10000 | Y | MC65Y103A | MC65Y103B | MC65Y103C |
| 30000 | H | MC65H303A | MC65H303B | MC65H303C |
| 50000 | G | MC65G503A | MC65G503B | MC65G503C |
| 100000 | Y | MC65Y104A | MC65Y104B | MC65Y104C |
| 100000 | G | MC65G104A | MC65G104B | MC65G104C |

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.



NTC Interchangeable Type MF65 Dimensions

Options

Consult Factory for Availability of Options

- Other resistance values in the range of 1000 Ω to 100 k Ω
- 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/ $^{\circ}$ C
Stirred oil: 4m W/ $^{\circ}$ 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.

| $R_{25^{\circ}\text{C}}$ | Material System | $\pm 0.18^{\circ}\text{F}$ ($\pm 0.1^{\circ}\text{C}$); 32°F to 158°F (0°C to 70°C) |
|--------------------------|-----------------|---|
| 3000 | F | MF65F302V |

Note: For RoHS compliant product, please add the suffix "N" to the part label. Example: MF65F302VN

Amphenol

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[B57620C472K962](#) [B57620C5103J062](#) [B57621C5102J062](#) [A1004SG22P0](#) [192-103LPR-A01](#) [199-303KAF-A02](#) [30054-4](#) [B57471V2474H062](#)
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