

GE Sensing

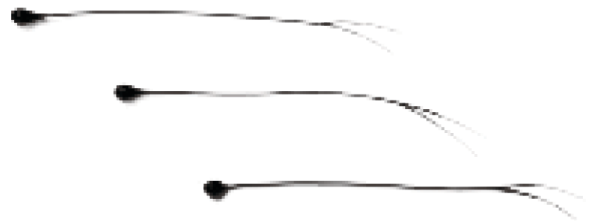
Features

- 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 302°F (-40°C to 150°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

NTC Interchangeable Type 65 Series

Thermometrics Thermistors

NTC Interchangeable Type 65 Series are Thermometrics products. Thermometrics has joined other GE high-technology sensing businesses under a new name—GE Industrial, Sensing.



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

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)



NTC Interchangeable Type MC65 dimensions

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 |

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 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/°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)



NTC Interchangeable Type MF65 dimensions

Ordering Information

Select appropriate part number below for resistance and temperature tolerance desired

| R _{25°C} | Material System | ±0.18°F (±0.1°C); 32°F to 158°F (0°C to 70°C) | ±0.36°F (±0.2°C); 32°F to 158°F (0°C to 70°C) |
|-------------------|-----------------|---|---|
| 2252 | F | MF65F232V | MF65F232W |
| 3000 | F | MF65F302V | MF65F302W |
| 5000 | F | MF65F502V | MF65F502W |
| 10000 | F | MF65F103V | MF65F103W |
| 10000 | Y | MF65Y103V | MF65Y103W |
| 30000 | H | MF65H303V | MF65H303W |
| 50000 | G | MF65G503V | MF65G503W |
| 100000 | Y | MF65Y104V | MF65Y104W |
| 100000 | G | MF65G104V | MF65G104W |

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