

GE Sensing

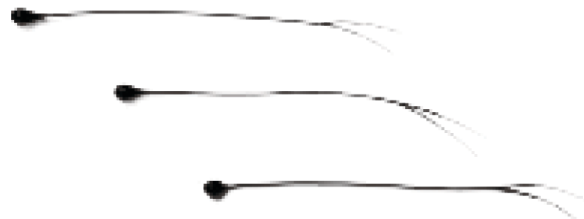
Features

- 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

GE
Sensing

www.DataSheet4U.com



©2006 GE. All rights reserved.
920-306A

All specifications are subject to change for product improvement without notice.
GE® is a registered trademark of General Electric Co. Other company or product names mentioned in this document may be trademarks or registered trademarks of their respective companies, which are not affiliated with GE.

www.gesensing.com

www.DataSheet4U.com