

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

Amphenol
Advanced Sensors

Type MC65

Specifications

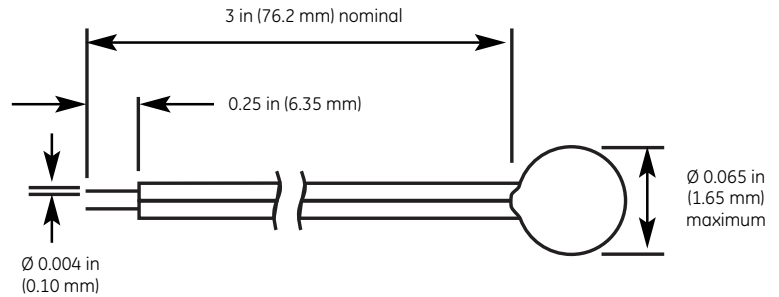
NTC Interchangeable Type MC65

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.

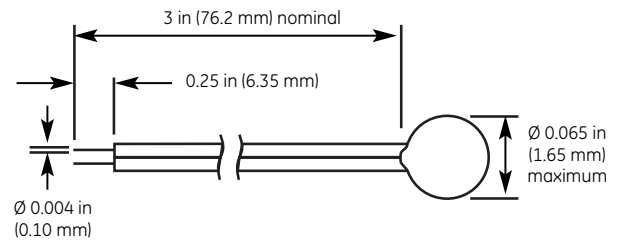
R _{25°C}	Material System	±0.05°C; 35°C to 39°C ±0.075°C; 39°C to 42°C ±0.10°C; 20°C to 45°C ±0.15°C; 0°C to 50°C	±0.1°C; 35°C to 39°C ±0.15°C; 20°C to 45°C ±0.2°C; 0°C to 50°C	±0.15°C; 35°C to 39°C ±0.2°C; 20°C to 45°C ±0.25°C; 0°C to 50°C
2252	F	MC65F232A	MC65F232B	MC65F232C
3000	F	MC65F302A	MC65F302B	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

Advanced Sensors

www.amphenol-sensors.com

© 2014 Amphenol Corporation. All Rights Reserved. Specifications are subject to change without notice. Other company names and product names used in this document are the registered trademarks or trademarks of their respective owners.

AAS-920-306C-03/2014