



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



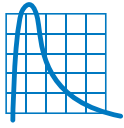
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T H E R M O M E T R I C S  
A C O M M I T M E N T T O E X C E L L E N C E

# 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  $-40^{\circ}\text{F}$  to  $221^{\circ}\text{F}$  ( $-40^{\circ}\text{C}$  to  $105^{\circ}\text{C}$ )
- High sensitivity greater than  $-4\%/^{\circ}\text{C}$  at  $77^{\circ}\text{F}$  ( $25^{\circ}\text{C}$ )
- 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

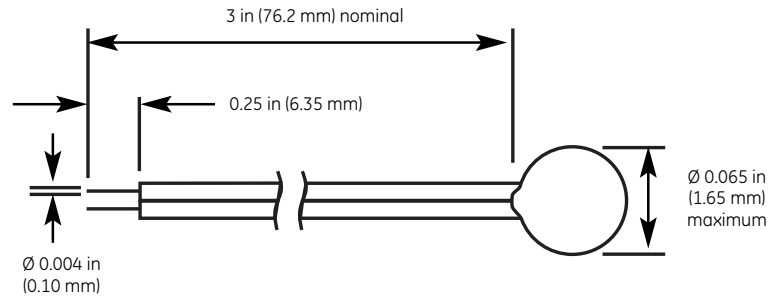
### NTC Interchangeable Type MC65

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  $\Omega$  to 100 k $\Omega$
- 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.

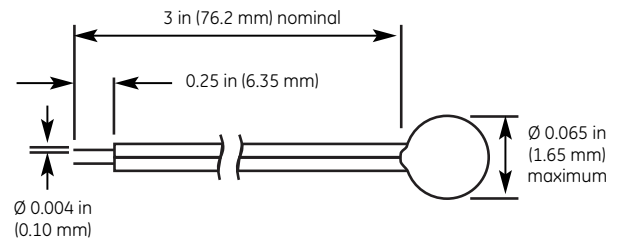
R <sub>25°C</sub>	Material System	±0.05°C; 35°C to 39°C ±0.075°C; 39°C to 42°C ±0.10°C; 20°C to 45°C ±0.15°C; 0°C to 50°C	±0.1°C; 35°C to 39°C ±0.15°C; 20°C to 45°C ±0.2°C; 0°C to 50°C	±0.15°C; 35°C to 39°C ±0.2°C; 20°C to 45°C ±0.25°C; 0°C to 50°C
2252	F	MC65F232A	MC65F232B	MC65F232C
3000	F	MC65F302A	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  $\Omega$  to 100 k $\Omega$
- 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

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