



NTC THERMISTORS: TYPE MC65

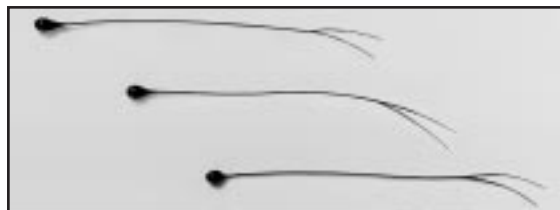
INSULATED LEAD INTERCHANGEABLE CHIP THERMISTOR

DESCRIPTION:

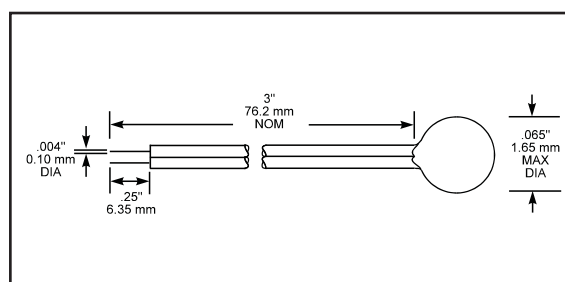
Epoxy Coated interchangeable chip thermistors with heavy isomid insulated Nickel lead-wires.

FEATURES:

- Precision, solid state temperature sensor
- Interchangeability down to $\pm 0.05^\circ\text{C}$
- Suitable for use over the range of -40°C to $+105^\circ\text{C}$
- High sensitivity greater than $-4\%/^\circ\text{C}$ at 25°C
- Suitable for temperature measurement, control and compensation
- High reliability and stability over interchangeable range
- Special tight tolerances in the clinical range for Medical applications
- Most popular R-vs-T curves are available
- Fully insulated
- Resin coated for good mechanical strength and resistance to solvents
- .004" (.1 mm) dia. heavy isomid insulated Bifilar Nickel lead-wires



DIMENSIONS:



Select appropriate part number below for resistance and temperature tolerance desired

R _{25°C}	MATERIAL SYSTEM	$\pm .05^\circ\text{C};$ $\pm .075^\circ\text{C};$ $\pm .10^\circ\text{C};$ $\pm .15^\circ\text{C};$	$35^\circ\text{C to } 39^\circ\text{C}$ $39^\circ\text{C to } 42^\circ\text{C}$ $20^\circ\text{C to } 45^\circ\text{C}$ $0^\circ\text{C to } 50^\circ\text{C}$	$\pm .1^\circ\text{C};$ $\pm .15^\circ\text{C};$ $\pm .2^\circ\text{C};$	$35^\circ\text{C to } 39^\circ\text{C}$ $20^\circ\text{C to } 45^\circ\text{C}$ $0^\circ\text{C to } 50^\circ\text{C}$	$\pm .15^\circ\text{C};$ $\pm .2^\circ\text{C};$ $\pm .25^\circ\text{C};$	$35^\circ\text{C to } 39^\circ\text{C}$ $20^\circ\text{C to } 45^\circ\text{C}$ $0^\circ\text{C to } 50^\circ\text{C}$
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	

OPTIONS:

Consult factory for availability of options:

- Other resistance values in the range of 100 Ω - 100k Ω
- Other tolerances or ranges
- Other lead wires or lengths
- Non standard R-vs-T curves
- Controlled dimensions

DATA:

THERMAL AND ELECTRICAL PROPERTIES:

Dissipation constant:.....(still air) .5 mW/ $^\circ\text{C}$
(stirred oil) 4 mW/ $^\circ\text{C}$

Thermal time constant:.....(still air) 8 sec.
(stirred oil) .5 sec.

Maximum power at 25°C25mW
(derated from 100% at 25°C to 0% at 100°C)