

Thermistor



Pearl-Shaped Precision NTC Thermistor for Temperature Measurement

The MF52 series of Pearl-Shaped NTC Thermistors is ethoxyline resin coated. The small size is made possible by new materials and manufacturing methods which provide the benefit of close tolerances and fast response. MF52 thermistors are available with 5 lead styles in standard or custom lengths.

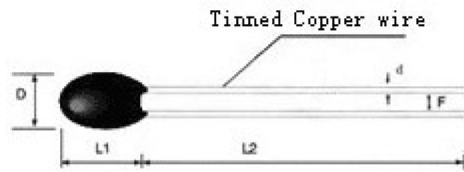
Application

- Heating, Ventilation & Air Conditioning
- Temperature Regulation and Measurement
- Electronic Thermometers
- Liquid Level Sensing
- Automotive Electronics
- Medical Equipment and Apparatus
- Battery Packs and Portable Electronics

Characteristics

- Small Size and fast response
- Available tolerances: $\pm 1\%$, $\pm 2\%$, $\pm 3\%$ and $\pm 5\%$
- Long-term Stability and Reliability
- Excellent Tolerance and Interchangeability
- Available in all popular resistance values
- Dissipation Constant $\geq 2.0 \text{ mW}/^\circ\text{C}$
- Time Constant of ≤ 7 seconds in still air
- Available in custom probes
- UL Listed E240991

Dimensions (mm)



Code	D max	L ₁ max	L ₂ min	d +/- 0.05	F +/- 0.05
A1	2	3	25	0.3	2.0
A2	3	4	25	0.45	2.5

A: Tin. Ag. nickel plated cu wire

Main Techno-Parameter

Part No.	Rated Resistance R ₂₅ (K Ω)	B Value (25/50 $f^\circ\text{C}$)(K)	Rated Power(mw)	Dissi. coef. (mW/ $f^\circ\text{C}$)	Thermal time Constant(S)	Operating Temp.($f^\circ\text{C}$)
MF52 4300	20-1000	4300	≤ 50	≥ 2.0 In Still Air	≤ 7 In Still Air	-55 $f^\circ\text{C}$ - +125 $f^\circ\text{C}$

Remark:

* B Value (25/50C) error is $\pm 1\%$ for components with rated resistance tolerance of $\pm 1\%$ and $\pm 2\%$ for all others.

Notice:

* The two ends of the lead wire cannot endure too big pull because of the small size and soldered spot in series of MF52.

* Solder at least 5mm from the bottom of wire.