



CANTHERM

Supplying high-quality bimetal and thermal sensor products.

MF58 Glass Shell Precision NTC Thermistors

The MF58 is a NTC thermistor which is manufactured using a combination of ceramic and semiconductor techniques. It is equipped with tinned axial leads and then wrapped with purified glass.



Applications

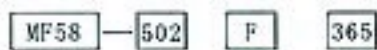
Temperature compensation and detection for:

- Household appliances (air conditioners, microwave ovens, electric fans, electric heaters etc.)
- Office equipment (copiers, printers etc.)
- Industrial, medical, environmental, weather and food processing equipment
- Liquid level detection and flow rate measurement
- Mobile phone battery
- Apparatus coils, integrated circuits, quartz crystal oscillators and thermocouples.

Features

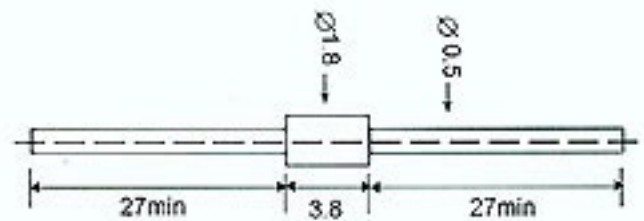
- Good stability and repeatability
- High reliability
- Wide range of resistance: 0.1~1000K Ω
- Tight tolerance on resistance and Beta values
- Usable in high-temperature and high-moisture environments
- Small, light, strong package,
- Suitable for automatic insertion on thru-hole PCBs
- Rapid response
- High sensitivity

Specifications



B Value: 3650 namely 3650k
 The Allowable Tolerance Of Rated Resistance F is $\pm 1\%$
 Rated Resistance 502 namely 5k Ω
 Type: Glass Shell Precision NTC Thermistor

Dimensions(mm)



Main Techno-Parameter

- Zero power resistance range (R25): 0.1~1000K Ω
- Available tolerances of R25:
 $F = \pm 1\%$ $G = \pm 2\%$ $H = \pm 3\%$ $J = \pm 5\%$ $K = \pm 10\%$
- B value (B25/50 $^{\circ}$ C) range: 3100~4500K
- Available tolerances of B value: $\pm 0.5\%$, $\pm 1\%$, $\pm 2\%$
- Dissipation factor: $\geq 2\text{mW}/^{\circ}\text{C}$ (In Still Air)
- Thermal time constant: $\leq 20\text{S}$ (In Still Air)
- Operating temperature range: $-55^{\circ}\text{C} \sim +200^{\circ}\text{C}$
- Rated Power: $\leq 50\text{mW}$



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