MF58

CANTHERM
Supplying high-quality bimetal and thermal sensor products.

PRECISION GLASS ENCAPSULATED NTC THERMISTORS (MF58)
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: 0.1~1000KΩ
- 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**

<table>
<thead>
<tr>
<th>Model</th>
<th>502</th>
<th>F</th>
<th>365</th>
</tr>
</thead>
<tbody>
<tr>
<td>B Value (Ω)</td>
<td>3850 Nerly 3850Ω</td>
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<tr>
<td>The Allowable Tolerance Of Rated Resistance Fis±1%</td>
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<tr>
<td>Rated Resistance 502 Nerly 5Ω</td>
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<tr>
<td>Type: Glass Shell Precision NTC Thermistor</td>
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**Main Techno-Parameter**

- Zero power resistance range (R25): 0.1~1000KΩ
- Available tolerances of R25:
  - F=±1%  G=±2%  H=±3%  J=±5%  K=±10%
- B value (B25/50°C) range: 3100~4500K
- Available tolerances of B value: ±0.5%, ±1%, ±2%
- Dissipation factor: ±2mW/°C (In Still Air)
- Thermal time constant: ≤20S (In Still Air)
- Operating temperature range: -55°C ~ +200°C
- Rated Power: ≤50mW

**Dimensions (mm)**

- Ø 1.8 ±0.5
- Ø 0.5
- 27 min
- 3.8
- 27 min