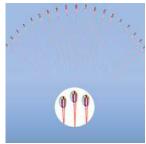
# MF58 MF51



PRECISION GLASS ENCAPSULATED NTC THERMISTORS (MF58 & MF51)





## **MF58**



#### **Glass Shell Precision NTC Thermistors**

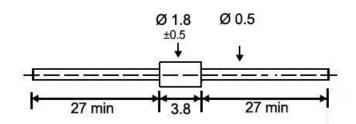
The MF58 is a NTC thermistor which is manufactured using a combination of ceramic and semiconductor techniques. It is equipped with tinned axial leads and then wrapped with purified glass.

#### Applications

Temperature compensation and detection for:

- Household appliances (air conditioners, micrwave 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.

#### Dimensions (mm)



#### 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

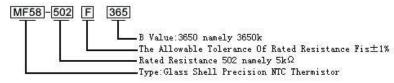
#### Main Techno-Parameter

- Zero power resistance range (R25): 0.1~1000KΩ
- Available tolerances of R25:

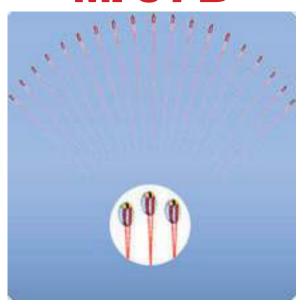
F=±1% G=±2% H=±3% J=±5% K=±10%

- 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

#### Specifications



### **MF51-B**



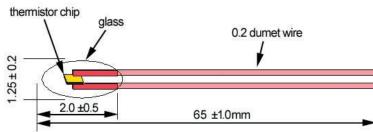
#### Precision Glass Encapsulated NTC Thermistor for Temperature Measurement

The MF51 NTC thermistor is a small chip thermistor encased in glass with bare radial copper leads. The chip is made from a new material using new techniques which provide benefits such as high precision, fast response, reliable stability, no aging effect and improved moisture resistance.

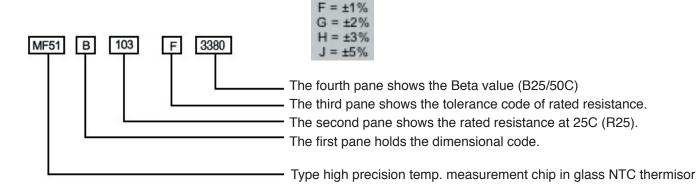
#### Applications

It can be used in applications such as refrigeration, HVAC, heating equipment, electronic thermostats, liquid level sensing, automotive electronics, electronic dashboards, etc.

# Dimensions (mm) stor chip



#### Specifications



Note: Specifications can change without notice.

MF51 Continued >



#### MF51-B Physical Characteristics

Model	Dissi. Coef (mW/°C)	Thermal Time Constant (S)	
	In still air	In still air	
MF51-B	≥ 1.0	≤ 12	

Model	Rated Resistance R25		B Value (25/50°C)		Operating Temp.
Model	ΚΩ	Tolerance	К	Tolerance	(°C)
MF51B3380	2 - 10	± 1% ± 2% ± 3% ± 5%	3380	* ± 2% ± 3%	-50°C-260°C
MF51B3950	10 - 50		3950		
MF51B3950	50 -100		3950		
MF51B4150	100 - 350		4150		

<sup>\*</sup> If the tolerance of R25 is  $\pm 1\%$ , the tolerance of B25/50 =  $\pm 1\%$ . If the tolerance of R25 is  $\pm 2\%$  or greater, the tolerance of B25/50 =  $\pm 2\%$ .



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