



MF59 MELF Glass Shell SMD NTC Thermistor

R25(Ω): 0.1K~1KK

Use: Automatic work facilities ,
Digital equipment ,Rechargeable battery

1. Characteristics

- Glass encapsulation, capability of operating in the bad environment of high temperature and high humidity because of the glass encapsulation framework ;
- High precision of temperature testing ,good stability and broad range of resistance ;
- Small size, fast response, high sensitivity;



2. Application

- Automatic work facilities (such as lap-top, copycat, printer and so on)
- Digital equipment (such as mobile phone, PDA and etc.)
- Rechargeable battery (lithium battery, ni-mh battery)
- Temperature compensation of loops of instrument, integrated circuit, quartz crystal monofier and thermocouple.

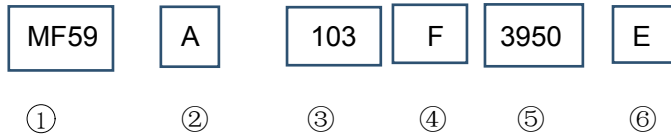
3. Main Parameters

- ❖ R25 Resistance range : 0.1~1000 KOhm
- ❖ Allowable tolerance of R25 : $\pm 1\%$, $\pm 2\%$, $\pm 3\%$, $\pm 5\%$, $\pm 10\%$
- ❖ Allowable tolerance of B value : $\pm 0.5\%$, $\pm 1\%$
- ❖ Dissipation factor : Model A $\geq 2\text{mW}/^\circ\text{C}$ (in still air), Model B $\geq 1\text{mW}/^\circ\text{C}$ (in still air)
- ❖ Thermal time constant : Model A $\leq 10\text{sec}$ (in still air), Model B $\leq 5\text{sec}$ (in still air)
- ❖ Operating temperature range: $-55\sim+220^\circ\text{C}$
- ❖ Rated power at 25°C : Model A $\leq 10\text{mW}$, Model B $\leq 5\text{mW}$



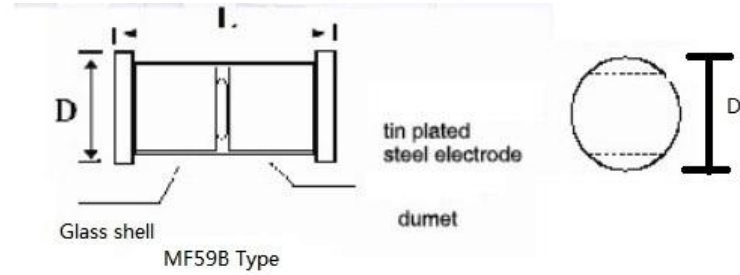
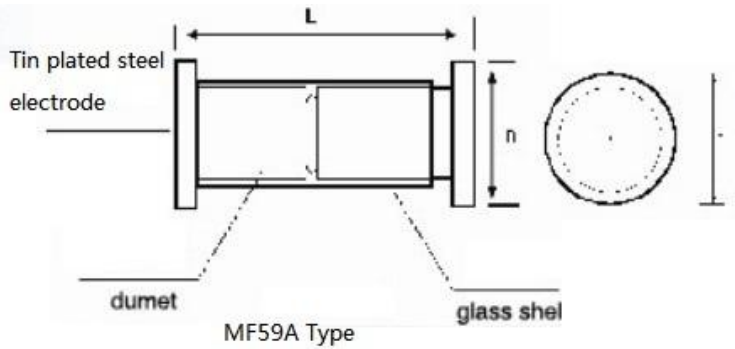
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4. Part numbering



- ① Type : MF59 MELF Glass Shell SMD NTC Thermistor
- ② Configuration and code : Model A
- ③ Rated zero power resistance: 103-10K Ohm
- ④ Resistance tolerance : F - $\pm 1\%$, G - $\pm 2\%$, H - $\pm 3\%$, J - $\pm 5\%$, K - $\pm 10\%$
- ⑤ B value : namely 3950K
- ⑥ B value tolerance : E: $\pm 0.5\%$, F : $\pm 1\%$

5. Dimensional Drawing Unit :mm



Type	Length L (mm)	Diameter D (mm)
MF59A	3.6 \pm 0.2	1.5 \pm 0.2
MF59B	1.8 \pm 0.2	1.1 \pm 0.2