

R25( $\Omega$ ): 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;

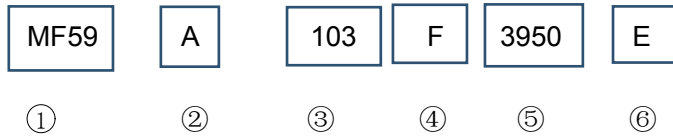
### 2. Application

- 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

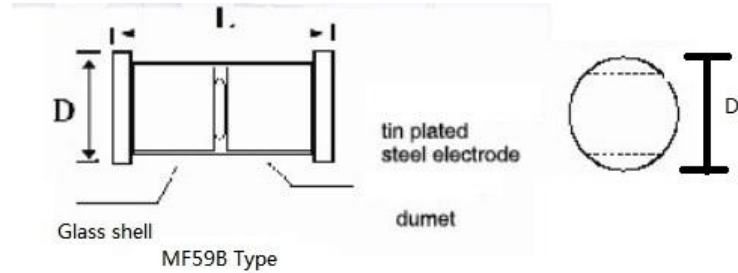
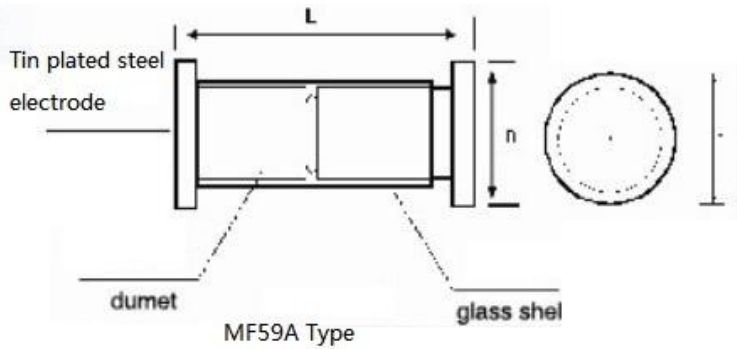
- ❖ R25 Resistance range : 0.1~1000 KOhm
- ❖ Allowable tolerance of R25 :  $\pm 1\%$ ,  $\pm 2\%$ ,  $\pm 3\%$ ,  $\pm 5\%$ ,  $\pm 10\%$
- ❖ Allowable tolerance of B value :  $\pm 0.5\%$ ,  $\pm 1\%$
- ❖ Dissipation factor : Model A  $\geq 2\text{mW}/^\circ\text{C}$  (in still air), Model B  $\geq 1\text{mW}/^\circ\text{C}$  (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  $25^\circ\text{C}$  : Model A  $\leq 10\text{mW}$ , Model B  $\leq 5\text{mW}$

**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