

## MF58 Glass-Sealed Diode NTC Thermistor Series

### FEATURES

- Glass-sealed, solid structure, well heatproof, applicable for bad environment
- High resistance value and B value, good reliability, stable operation
- Quick reaction, high sensitivity
- Good interchange and consistency, high ratio of performance and price, economical and practical
- Small volume, light mass, and applicable for installing automatic inserter and mass manufacture

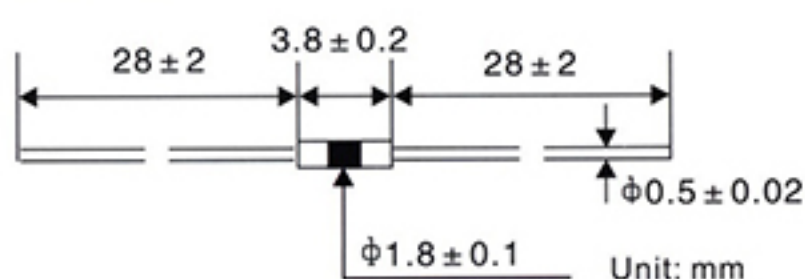
### PURPOSE

- Temperature measurement
- Temperature control
- Temperature compensation

### APPLICABLE SCOPE

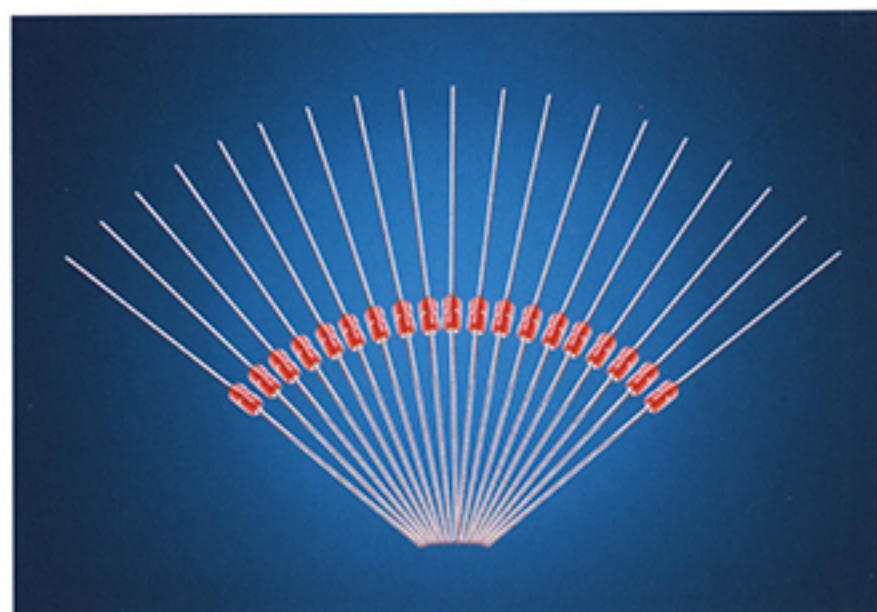
- Air-conditioner and relevant equipment
- Circuits such as big and small household appliances (such as air-conditioner, refrigerator, induction cooker, bread cooker, roaster, electronic oven, microwave oven electric water heater, electric cooker, disinfecting Cabinet, drinking machine, lightening electrical appliance), temperature measurement and control and heat protection
- Temperature measurement and control circuits of industrial/agricultural, medical, environment-friendly, meteorologic, food-processing equipment, etc.
- Automatic office equipment
- Meter coil, automobile circuit, IC module, transistor amplifier circuit, Temperature compensation circuits such as quartz crystal vibratility, thermal couple

### EXTERIOR STRUCTURE AND SIZE



### MAIN TECHNICAL SPECIFICATIONS

Specification Name	Scope	Detection Conditions
$R_{25}$ (nominal resistance value)	500Ω ~ 5 MΩ	Constant temperature 25°C ± 0.05°C
$R_{25}$ Permissible variance (%)	±1, ±2, ±3, ±5, ±10	Constant temperature 25°C ± 0.05°C
$B_{25/50}$ (material coefficient) (thermal-sensitivity index)	2500 ~ 5000K	Constant temperature 25°C ± 0.05°C    Constant temperature 50°C ± 0.05°C
$B_{25/50}$ value permissible variance (%)	±1, ±2	Constant temperature 25°C ± 0.05°C    Constant temperature 50°C ± 0.05°C
$\delta$ (dissipation coefficient)	≥ 0.8mw/°C	Static in the air
T (thermal time constant)	≤ 7S	Static in the air
$T_A$ (working temperature)	-40°C ~ +300°C	
$P_N$ (rated power)	50 mw	Within working temperature



### DESCRIPTION OF MODEL AND SPECIFICATIONS

K P D / M F 5 8 - 1 0 4 J - 3 9 9 F

①    ②    ③    ④    ⑤    ⑥    ⑦

- (1) Acronym of Kepengda
- (2) Code of thermistors for negative temperature coefficient (NTC)
- (3) Temperature-measurement glass-sealed thermistor
- (4) Nominal resistance value of thermistors, e.g. 104 expresses that the Nominal resistance value of the resistor is  $10 \times 10^4(\Omega)$
- (5) Error of the resistance value of the thermistor (precision), e.g. F expresses that error of the resistance value (precision) is ± 5%
- (6) Thermal-sensitivity index of the thermistor (material co-efficient)  $B_{25/50}$  Value, e.g. 399 expresses the material co-efficient  $B_{25/50}$  of the thermistor is  $399 \times 10(K)$
- (7) Error of the thermistor  $B_{25/50}$  value (precision), e.g. F expresses that error of  $B_{25/50}$  value (precision) of the resistor is ± 1%

Note: ①  $R_{25}$  precision: F(± 1%);G(± 2%);H(± 3%);J(± 5%);K(± 10%)  
 ②  $B_{25/50}$  value precision F(± 1%);G(± 2%);  
 ③ Specific parameters can be customized