

MF5A Epoxy-Sealed NTC Thermistor Series

FEATURES

- Epoxy-sealed, small volume, quick reaction, high sensitivity
- Stable operation, high reliability, and high precision
- Good consistency, easy for interchange

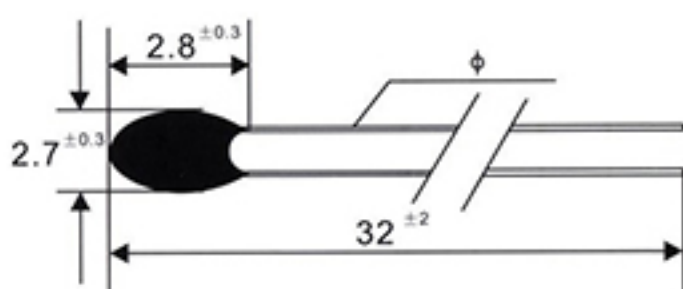
PURPOSE

- Precise temperature measurement
- Temperature compensation for electronic wire
- Circuit of temperature measurement and control

APPLICABLE SCOPE

- Electronic thermometer, electronic calendar, electronic clock temperature display, electronic present
- Cooling and heating equipment, heating of constant-temperature electrical appliances
- Electronic temperature measurement and control circuit of automobile
- Temperature sensor, temperature meter
- Medical electronic equipment, electronic washing equipment
- Mobile phone battery and charging electric appliance
- Bread furnace and other small appliances

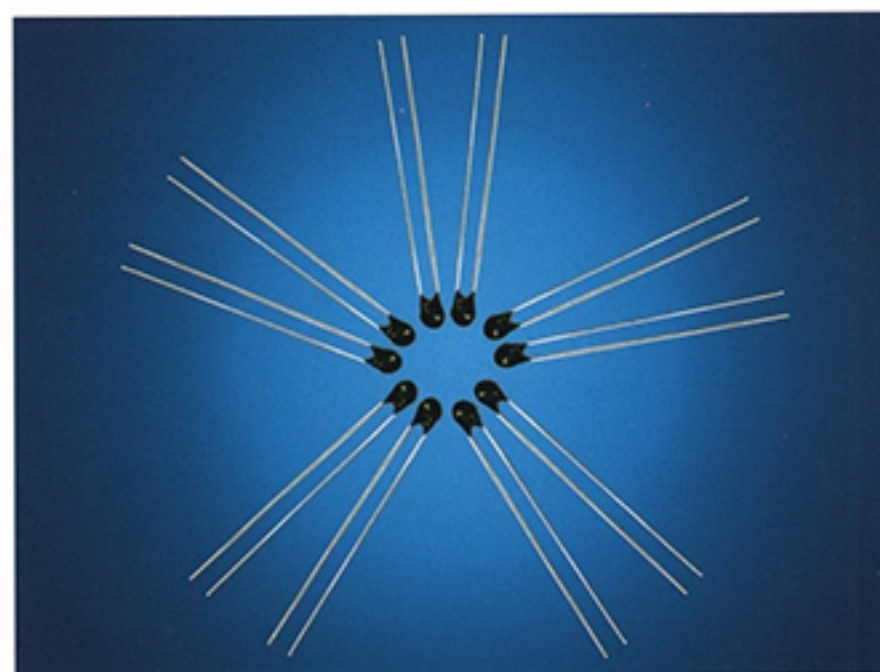
EXTERIOR STRUCTURE AND SIZE



Unit: mm ϕ : 0.4 ± 0.02 mm

MAIN TECHNICAL SPECIFICATIONS

Specification Name	Scope	Detection Conditions
R_{25} (nominal resistance value)	500 Ω ~ 1 M Ω	Constant temperature 25 $^{\circ}$ C \pm 0.05 $^{\circ}$ C
R_{25} Permissible variance (%)	\pm 1, \pm 2, \pm 3, \pm 5	Constant temperature 25 $^{\circ}$ C \pm 0.05 $^{\circ}$ C
$B_{25/50}$ (material coefficient) (thermal-sensitivity index)	3000~5000K	Constant temperature 25 $^{\circ}$ C \pm 0.05 $^{\circ}$ C Constant temperature 50 $^{\circ}$ C \pm 0.05 $^{\circ}$ C
$B_{25/50}$ value permissible variance (%)	\pm 1, \pm 2	Constant temperature 25 $^{\circ}$ C \pm 0.05 $^{\circ}$ C Constant temperature 50 $^{\circ}$ C \pm 0.05 $^{\circ}$ C
δ (dissipation coefficient)	\geq 1.5 mw/ $^{\circ}$ C	Static in the air
T(thermal time constant)	\leq 5S	Static in the air
T_A (working temperature)	-40 $^{\circ}$ C ~ +120 $^{\circ}$ C	
P_N (rated power)	50 mw	Within working temperature



DESCRIPTION OF MODEL AND SPECIFICATIONS

K P D / M F 5 A - 1 0 3 G - 3 9 5 F
 ① ② ③ ④ ⑤ ⑥ ⑦

- (1) Acronym of Kepengda
- (2) Code of thermistors for negative temperature coefficient (NTC)
- (3) Temperature-measurement epoxy-sealed thermistor
- (4) Nominal resistance value of thermistors, e.g. 103 expresses that the Nominal resistance value of the resistor is $10 \times 10^3(\Omega)$
- (5) Error of the resistance value of the thermistor (precision), e.g. F expresses that error of the resistance value (precision) is $\pm 2\%$
- (6) Thermal-sensitivity index of the thermistor (material co-efficient) $B_{25/50}$ Value, e.g.395 expresses the material co-efficient $B_{25/50}$ of the thermistor is $395 \times 10(K)$
- (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 $\pm 1\%$

Note: ① R_{25} precision: F ($\pm 1\%$);G ($\pm 2\%$);H ($\pm 3\%$);J ($\pm 5\%$);K ($\pm 10\%$)

② $B_{25/50}$ value precision F ($\pm 1\%$);G ($\pm 2\%$);

③ Specific parameters can be customized