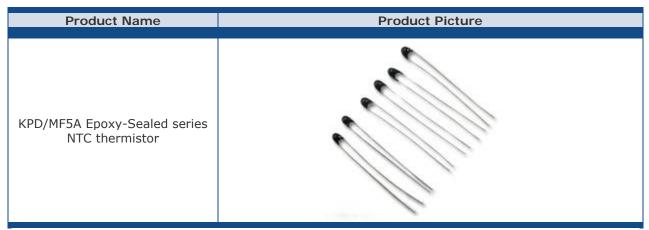
NTC Thermistor

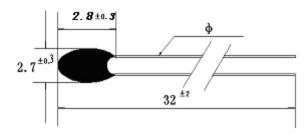
Application

- Electric thermo meter, electric calendar, electric clock temperature presentation and electric gifts.
- Cooling and heating equipment, electric heating constant appliances.
- Automobile electric temperature measurement and control circuit.
- Temperature sensor and temperature instrument.
- Medical electrical equipment and electric toilet facilities.



Detail

(1) Appearance and Dimensions



Unit:mm

 Φ :0.2 \sim 0.6, specific dimensions may be made as required by customers.

(2) Features

- Epoxy enclosed, small in volume, with quick response time and high sensitivity.
- Stable in working, high in reliability and precision.
- Consistent and easy to interchange.

(3) Purpose

- Precision temperature measurement.
- Temperature compensation for electric circuits.
- Temperature measurement and control circuit.

(4) Application

- Electric thermo meter, electric calendar, electric clock temperature presentation and electric gifts.
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- Medical electrical equipment and electric toilet facilities.
- (5) Description of Product Types and Specifications

$$\frac{\text{K P D}}{1} / \frac{\text{MF5A}}{2} - \frac{1 \ 0 \ 3}{3} \frac{G}{4} - \frac{395}{5} \frac{F}{6}$$

- 1. KPD —— Abbreviations for KePengDa.
- 2. MF -— Indicates negative temperature (NTC) coefficient thermistor.
- 3. 5A Temperature measurement type epoxy enclosed thermistor.
- 4. 103 Nominal resistance of thermistor, e.g. 103 indicates that the nominal resistance of the thermistor is 10 * 10^3 (Ω).
- 5. G Resistance error (precision), e.g. G indicates the error (precision) of the thermistors is \pm 2%.
- 6. 360 Material factor $B_{25/50}$ value of thermistor, e.g.360 indicates the material factor $B_{25/50}$ value of the thermistor is 360*10K.
- 7. F —— $B_{25/50}$ error (precision), e.g. F indicates the $B_{25/50}$ error (precision) of the thermistor is $\pm 1\%$.

Note : R_{25} precision :F (±1%) ,G (±2%) ,H (±3%) ,J (±5%) ,K (±10%) .

 $B_{25/50}$ precision :F (±1%) ,G (±2%) ,H (±3%) .

(6) Main Technical Parameters

Parameters	Parameter range	Test conditions
R ₂₅ (nominal resistance)	500 Ω~ 200K Ω	Constant temperature 25 °C± 0.05 °C
Allowed R ₂₅ deviation (%)	± 1 、± 2 、± 3 、 ± 5 、± 10	Constant temperature 25 °C± 0.05 °C
B _{25/50} (material coefficient) (thermal sensitive index)	3000 \sim 5000К	Constant temperature 25 °C± 0.05 °C Constant temperature 50 °C± 0.05 °C
Allowed B _{25/50} deviation(%)	± 1 、± 2 、± 3	Constant temperature 25, °C \pm 0.05 °C Constant temperature 50 °C \pm 0.05 °C
δ (dissipation factor)	≥ 0.7mw/ °C	In still air

т(thermal time constant)	≤ 3.4S	In still air
T _A (working temperature)	−40 °C ~ +125 °C	
P _N (rated power)	50 mw	In maximum working temperature