

MF5E Film-Sealed NTC Thermistor Series

FEATURES

- Sealed with insulating film, quick thermal reaction, high sensitivity
- Good stability, high reliability
- Good insulation
- High precision of resistance value
- Safe for use
- Small volume, light weight and convenient for installing in narrow environment

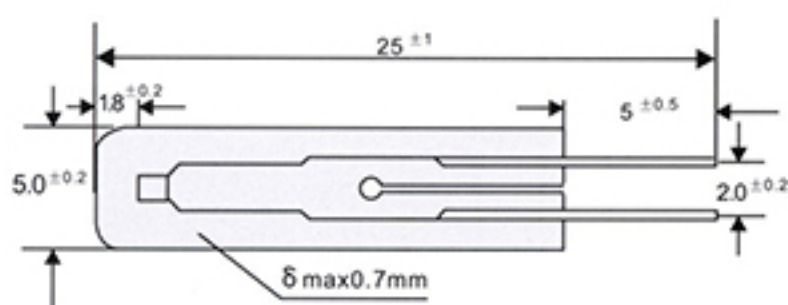
PURPOSE

- Temperature measurement
- Temperature control
- Temperature compensation

APPLICABLE SCOPE

- Temperature, printer, household appliances

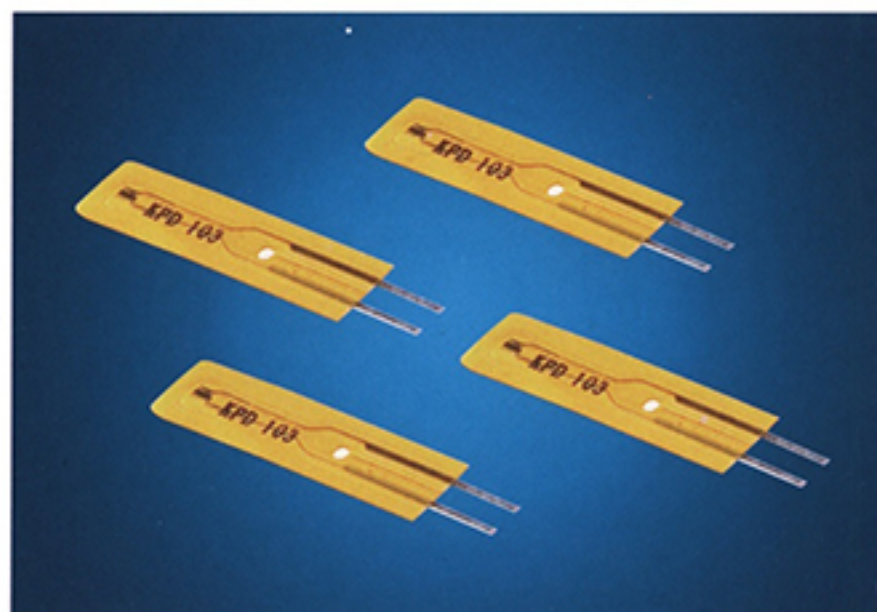
EXTERIOR STRUCTURE AND SIZE



Unit: mm

MAIN TECHNICAL SPECIFICATIONS

Specification Name	Scope	Detection Conditions
R_{25} (nominal resistance value)	10 K Ω ~100 K 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)	3300~4200K	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
f (dissipation coefficient)	\geq 0.7mw/ $^{\circ}$ C	Static in the air
T (thermal time constant)	\leq 5S	Static in the air
T_A (working temperature)	-30 $^{\circ}$ C ~ +120 $^{\circ}$ C	
P_N (rated power)	\leq 25 mw	Within working temperature



DESCRIPTION OF MODEL AND SPECIFICATIONS

K P D / M F 5 E - 1 0 3 F - 3 3 8 F
 ① ② ③ ④ ⑤ ⑥ ⑦

- (1) Acronym of Kepengda
- (2) Code of thermistors for negative temperature coefficient \times NTC)
- (3) Temperature-measurement film 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 $\pm 1\%$
- (6) Thermal-sensitivity index of the thermistor (material co-efficient) $B_{25/50}$ Value, e.g.338 expresses the material co-efficient $B_{25/50}$ of the thermistor is $338 \times 10(K)$
- (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