

NTC

NTC THERMISTOR SPECIFICATION

TYPE: MF5A-3

1. GENERAL

This specification defines characteristics, dimension and main condition of the NTC thermistor SJMF5A-3.

2. THERMISTOR CHARACTERISTICS

Item	Sign.	Char.												Unit	Tol.
		1	2.2	3.3	4.7	6.8	10	22	47	68	100	470			
2.1 Resistance	R _{25°C}	1	2.2	3.3	4.7	6.8	10	22	47	68	100	470	KΩ	5%	
2.2 B-value	B _{25/50}	3270	3400	3470	3470	3950	3950	3950	3990	3950	3950	4380	K	2%	
2.3 Thermal time constant	τ	10	10	10	10	10	10	10	10	10	10	10	sec	Max	
2.4 Dissipation constant	δ	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	mW/°C	min	

3. 3.1 Operating temp. (Tw): -30~100°C

3.2 Maximum current (I max): 1.0mA

3.3 Maximum power (P max): 5mW

6.2 High temp. test

placed for 1000 hours, at 100°C (in air)

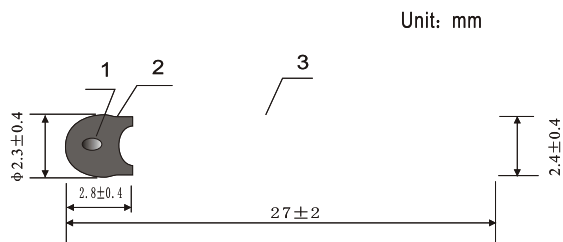
$\Delta R/R \leq 2\%$

6.3 Low temp. test

placed for 1000 hours, at -30°C (in air)

$\Delta R/R \leq 2\%$

4. Shape and dimension



6.4 High temp. humidity test

40°C-95% R.H., placed for 1000 hours.

$\Delta R/R \leq 2\%$

6.5 Transfer test

1.0mA × 40 days.

$\Delta R/R \leq 2\%$

NO.	Specification & material
1.	Chip thermistor
2.	Epoxy resin
3.	φ0.4 CP/Sn Wire

7. Control the air temperature blown the thermistor head to Max. 250°C when adding a heat shrink protecting tube. And the outlet of hot air blower should be of some distance to the thermistor lest excessively heated. Over heat shock will cause resistance value drift.

6. Reliability characteristics test

6.1 temp. cycle (in air)

-30°C × 5min $\xrightarrow{25^\circ\text{C}}$ +100°C × 5min 500 cycles

$\Delta R/R \leq 2\%$