

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	

3.1 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)

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

6.4 High temp. humidity test

40°C-95% R.H., placed for 1000 hours.

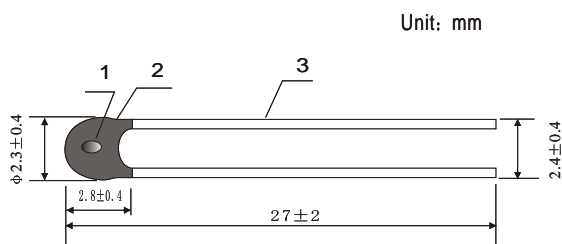
$\Delta R/R \leq 2\%$

6.5 Transfer test

1.0mA × 40 days.

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

4. Shape and dimension



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

6. Reliability characteristics test

6.1 temp. cycle (in air)

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

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

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.