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.
2.1 Resistance	R25℃	1	2.2	3.3	4.7	6.8	10	22	47	68	100	470	KΩ	5%
2.2 B-value	B25/50	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 Dissipationonstant	δ	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	mW/℃	min

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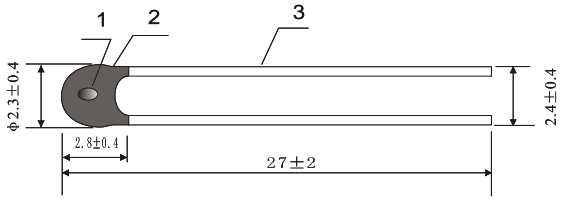
3.1 Operating temp. (Tw): −30~100℃

3.2 Maximum current (I max): 1.0mA

3.3 Maximum power (P max): 5mW

4、 Shape and dimension

Unit: mm



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℃×5min —25℃— +100℃×5min 500 cycles

△R/R≤2%

6.2 High temp. test

placed for 1000 hours,at 100℃(in air)

△R/R≤2%

6.3 Low temp. test

placed for 1000 hours,at -30℃(in air)

△R/R≤2%

6.4 High temp. humidity test

40℃-95% R.H., placed r 1000 hours.

△R/R≤2%

6.5 Transfer test

1.0mA×40 days.

△R/R≤2%

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Control the air temperature blowed the thermistor head to Max. 250℃ 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.