

This Approval Sheet indicates property, test condition, structure and demention of MF58 series NTC thermistors manufactured by Hefei sensing Electronic Co., LTD. It's sincerely for your company's confirmation.

Any doubt, please contact with us by 86551 65845356, or if there isn't any questions, please refer to confirm. Please inform us if you change your usage way of the thermistor.

Customer:

Customer confirmation	Confermer	
	Checker	
	Data	

1、 ELECTRICAL CHARACTERISTIC

Item	Symbol	Test Condition	Performance	Unit
1.1 Rated resistance	R25℃	+25±0.05℃	50±5%	kΩ
1.2 B value	B25/50	+25±0.05℃、+50±0.05℃	3960±2%	K
1.3 Time constant	τ	In still air	≤10	s
1.4 Dissipation factor	δ	In still air	≥2.4	mW/℃
1.5 Max. Power	Pmax	Ambient Temp. +25℃	Approx. 80	mW

2 Reliability test

2.1 Intensity

Lead pull test: Fix the thermistor probe pull the lead wire gradually with force 5N for 10±1sec,

No visible damage.

Lead bending test: Fix the thermistor probe apply to one terminal 2.5N, 90 bend, recovered to initial position, for twice, No visible damage.

2.2 Solderability

260±5℃ 2±0.5sec Cover the solder joint evenly with solder, $\Delta R_{25}/R_{25} \leq \pm 1\%$

2.3 Solder heat resist

260±5℃ 5±1sec Solder 6mm away from thermistor probe $\Delta R_{25}/R_{25} \leq \pm 2\%$

2.4 High temp. store (in air)

250±5℃ 1000h
 $\Delta R_{25}/R_{25} \leq \pm 3\%$

2.5 Low temp. Store (in air)

-40±3℃ 1000h
 $\Delta R_{25}/R_{25} \leq \pm 3\%$

2.6 Heat and Humidity Stability

40±2℃ 92%RH~98%RH 240h
 $\Delta R_{25}/R_{25} \leq \pm 3\%$

2.7 Temperature quick change

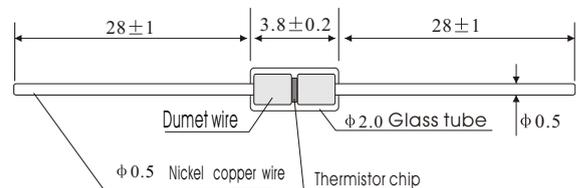
-40±3℃ × 30min $\xrightarrow[3 \pm 2 \text{ min}]{\text{Nor. Temp}}$ 200±5℃ × 30min 5 times
 $\Delta R_{25}/R_{25} \leq \pm 3\%$

3、 Operation Notice

- Application Temperature measure and control;
- Operating temperature range: -40℃ ~ +200℃;
- Min. Cutting length ≥ 6mm;
- The Thermistor was glass sealing under high temperature. To avoid damage to the glass, crooked point on the lead wire should be Min. 2mm away from the glass.
- Avoid measurement error caused by excessive current.
- Avoid welding flux residues.

4、 Resistance-Temperature table

5、 SIZE DRAWING: unit:mm



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