

This Specification indicates the properties, test condition, structure and dimension of MFE series NTC temp. sensor manufactured by Hefei Sensing Electronic Co., LTD. It is sincerely for your company's confirmation.

Any doubt, Please contact with us by 86 551 5845356, or if there isn't any question, please return fax to confirm it.

No return fax will be deemed to be accepted.

Please inform us if you change your usage of the sensor.

Customer:

Customer

Confirmer

Confirmation

Checker

Approval

### 1、ELECTRICAL CHARACTERISTIC

Item	Symbol	Test Condition	Performance	Unit
1.1 Rated resistance	R <sub>25°C</sub>	+25±0.05°C	10±1%	kΩ
1.2 B value	B <sub>25/50</sub>	+25±0.05°C、+50±0.05°C	3470±1%	K
1.3 Time constant	τ	In well stirred water	≤5	sec
1.4 Dissipation factor	δ	In still air	≥2.5	mW/°C
1.5 Voltage withstanding	U	AC1500V (Peak value)	No destroy or spark	V
1.6 Insulation resistance	Ri	DC500V	≥100	MΩ
1.7 Max.power	Pmax	Ambient Temp.+25°C	≤0.1	mW

### 2、Reliability test

2.1 Intensity : Fix the probe ,Pull the lead by striped wire end with 10N force for 10±1sec.

No visible damage.

2.2 High Temp.Store (In air)

105±3°C 1000h

ΔR<sub>25/R25</sub>≤3%

2.3 Low Temp.Store (In air)

-30±3°C 1000h

ΔR<sub>25/R25</sub>≤3%

2.4 Heat and Humidity Stability

40±2°C 92%RH~98%RH 240h

ΔR<sub>25/R25</sub>≤3%

2.5 Temperature Shift

-30±3°C ×30min  $\xrightarrow[2\pm1\text{min}]{\text{normal temp.}}$  105±3°C ×30min 5 times

ΔR<sub>25/R25</sub>≤3%

### 3、Operation Notice

3.1 Application: Temperature measure and control;

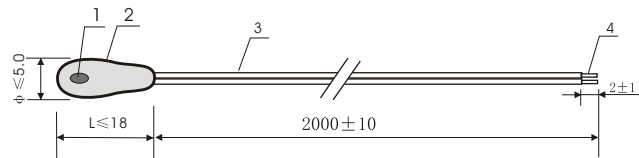
3.2 Operating Temp. Range: -30°C ~+105°C ;

3.3 Avoid measure error caused by self heat when over current pass through.

3. 4 Avoid excessive heat shock , The hot air blow should be at least 10mm to the probe in case heat shrink protection tube need to be attached .

### 4、RESISTANCE TEMPERATURE TABLE (see accessory P/N: J070608-7)

### 5、SIZE DRAWING: (unit:mm)



Item	Name	Material Spec.	Qty.	Remark
1	Component	NTC Thermistor (B)	1	
2	Epoxy Resin		1	Black
3	Cable	UL 2651 26AWG ZIP wire black	1	
4	Tin	2±1mm	2	

File Number	Version	Date	Compile	Audit
SJCG07-090217-2	A	2009.02.17	Zhanglixia	Liuli

**HEFEI SENSING ELECTRONIC CO., LTD.**

Tel : +86+551-5845356

Fax : +86+551-5315735

Email: market@sensing.com.cn

Add: NO.212 Xiangzhang Road, High&New Tech

Development Zone, Hefei, Anhui, P.R.C.

Http : www.sensing.cn