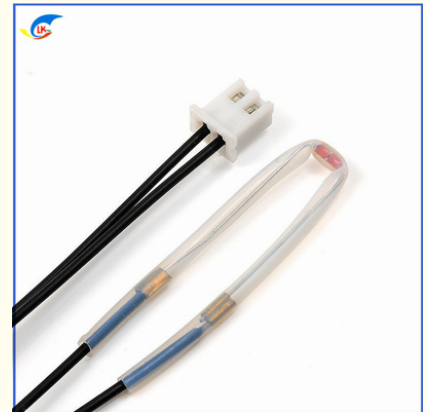




## MF58 Glass Processing Type NTC Thermistor Sensor 10K 50K 100K High Temperature Resistance Type Suitable For Induction Co

### Basic Information

- Place of Origin: Dongguan China
- Brand Name: linkun
- Certification: CE / ROHS / UL / TUV / SGS
- Model Number: Electric Temp Sensor
- Minimum Order Quantity: Negotiation
- Price: Negotiation
- Packaging Details: Export Package / Negotiation
- Delivery Time: Negotiation
- Payment Terms: T/T, L/C, Western Union
- Supply Ability: 24 million per year



### Product Specification

- Features: Easily Assemble, Stable
- Resistance Value: 1K, 5K, 10K, 50K, 100K, 15K
- Usage: Temperature Sensor
- Operating Temperature: -40~+200degC
- Customized: Available
- Resistance Tolerance: F:±1%, G:±2%, H:±3%, J:±5%, K:±10%
- Highlight: **ROHS Electric Temp Sensor,  
Durable Electric Temp Sensor,  
Moistureproof Electronic Temperature Sensor**



### More Images



## Product Description

### MF58 Glass Processing Type NTC Thermistor Sensor 10K 50K 100K High Temperature Resistance Type Suitable For Induction Co

product information

Product type: Glass package NTC temperature sensor

Product features: high temperature resistance, sensitive response, easy installation

Model usage: temperature measurement/temperature control/overheat protection

Operating temperature range: 0~+300°C

Thermal time constant: about 10S

Product withstand voltage: AC1800V\*60S

Waterproof level: Not waterproof

Product qualifications: Meet certification requirements

Product application scope:

Microwave ovens, electric ovens, food thermometers, aroma diffusers, etc.

Product customization instructions:

(1) Resistance value of the product (nominal resistance value at 25°C, or other)

(2) Product accuracy (1%~5%)

(3) B value coefficient of the product

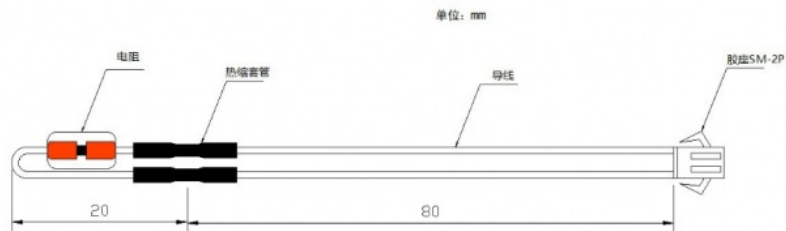
(4) Wire model and length (color, length, temperature resistance requirements)

(5) Wire tail specifications (tin dipped, socket plug-in, special specifications)

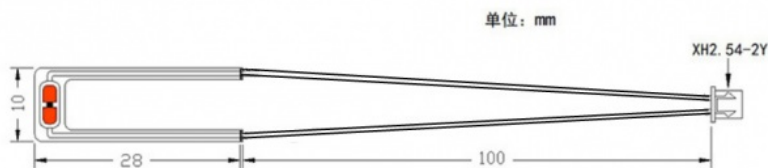
(6) Probe specifications and materials (nickel-plated copper, red copper, stainless steel, ABS plastic shell)

(7) Use temperature range

### Product Description



Product drawings are for reference; can be customized according to required parameters, specifications, and length (drawings and samples are provided)



Product drawings are for reference; can be customized according to required parameters, specifications, and length (drawings and samples are provided)

Type	NTC Temperature Sensor
Resistance	1K~5M $\Omega$ (1k 5k 4.7k 10k 20k 30k 50k 100k 150k 200k 300k) Customized
Beta Value	3380k 3435k 3500k 3950k 4050k 4150k 4250k 4450k Customized
Housing	Copper/Stainless/aluminum/Brass/Plastic/Nylon/Others Customized
Wire	20/22/24/26/28/30/32AWG PP/PVC/PTFE/PFA/TPE/FEP Customized
Connector	JST/SYP/MOLEX/DUPONT/TE Customized
Installation	Flanged/Surface/Threaded/Plastic/Straight/Film/LUG/SMD/THT Customized
Accuracy	0.1% 0.5% 1% 2% 3% 5% 10% Customized
Temperature range	-40~300 Customized
Wire Length	10mm~10000mm Customized



### Applications

Temperature measurement and control of household air-conditioner, refrigerator, icebox, water heater, drinking machine, radiator, dishwasher, disinfecter, washing machine, drying machine, middle-or-low-temperature drying box and constant temperature box.

### Conventional product electrical performance parameters

Part No.	R25°C (KΩ)	B(K) 25/50°C	Rated Power @25°C(mW)	Dissipation Factor(δ) (mW/°C)	Thermal time Constant (S)
TS502□3274A	5.0	3274	10-20	2-4	5-20
TS502□3435B	5.0	3435	10-20	2-4	5-20
TS502□3470A	5.0	3470	10-20	2-4	5-20
TS502□3950A	5.0	3950	10-20	2-4	5-20
TS103□3274A	10.0	3274	10-20	2-4	5-20
TS103□3435B	10.0	3435	10-20	2-4	5-20
TS103□3470A	10.0	3470	10-20	2-4	5-20
TS103□3950A	10.0	3950	10-20	2-4	5-20
TS103□4100A	10.0	4100	10-20	2-4	5-20
TS153□3950A	15.0	3950	10-20	2-4	5-20
TS153□4100A	15.0	4100	10-20	2-4	5-20
TS203□3950A	20.0	3950	10-20	2-4	5-20
TS203□4100A	20.0	4100	10-20	2-4	5-20
TS223□4200A	22.0	4200	10-20	2-4	5-20
TS403□3928A	40.0	3928	10-20	2-4	5-20
TS503□3950A	50.0	3950	10-20	2-4	5-20
TS503□4100A	50.0	4100	10-20	2-4	5-20
TS104□3950A	100.0	3950	10-20	2-4	5-20
TS104□4100A	100.0	4100	10-20	2-4	5-20
TS104□4400A	100.0	4400	10-20	2-4	5-20

## Materials:



Type: Diode type thermistor, Chip in glass type thermistor, Epoxy coated thermistor  
Accuracy:  $\pm 2\%$ ,  $\pm 1\%$  etc.  
The thermistor divided into R value and B value. R value is 2K, 5K, 10K, 50K etc.,  
B value is 3950K, 3470K, 3435K, 3977K etc.



ABS, stainless steel, Nickel-plated copper, Plastic head, can be waterproof effect.  
Support for customization.



White Flat protective cable, PVC protective cable, TPE, Flat cable, silicone etc.  
Support for customization.

### Working principle of temperature sensor

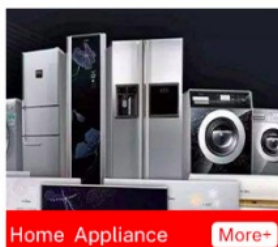
Using the NTC thermistor under a certain measurement power, the resistance value drops rapidly as the temperature rises. Utilizing this feature, the NTC thermistor can be used to determine the corresponding temperature by measuring its resistance value, so as to achieve the purpose of detecting and controlling the temperature.

### Reliability Test

Test Item	Test Standard	Test method	Performance requirements
Zero Power Resistance	IEC 60539-1	Immerse samples in the constant temperature bath at $25^{\circ}\text{C} \pm 0.005^{\circ}\text{C}$ , test steady resistance	Resistance tol $\pm 1\%$
B value	IEC60539-1	Immerse samples in the constant temperature bath at $25^{\circ}\text{C}$ , $50^{\circ}\text{C}$ (or $85^{\circ}\text{C}$ ), test steady resistance, and calculate B value	Resistance tol $\pm 1\%$
Free fall	IEC60068-2-32	Fall height: $1.5 \pm 0.1\text{m}$ , Surface: Cement, 1 time	No obvious damage, R25 $\Delta R/R \leq \pm 1\%$
Insulation	IEC60539-1	500V pressure on insulation shell test insulation resistance	$> 500\text{M}\Omega$
Withstand voltage	IEC60539-1	Withstand voltage: 1500V/AC, Leakage current: 2mA Lasting: 60sec	No obvious damage
Tension	IEC60068-2-21	Pull uniform speed at the end, $F > 4.0\text{KG}$ (requested by customer)	No obvious damage, R25 $\Delta R/R \leq \pm 1\%$
Vibration	Q/HB m 108-94	Test frequency: 10~500Hz, swing: 1.2mm acceleration: $30\text{m/s}^2$ Direction X, Y, Z Time: 8Hour/direction	No obvious damage, R25 $\Delta R/R \leq \pm 1\%$
Steady humidity and heat	IEC60068-2-78	Temp: $40 \pm 2^{\circ}\text{C}$ Humidity: 92-95%RH Time: $1000 \pm 24\text{Hour}$	No obvious damage, R25 $\Delta R/R \leq \pm 1\%$
Thermal time constant	IEC60539-1	Immerse in $25^{\circ}\text{C}$ water, after thermal balance, immerse in $85^{\circ}\text{C}$ , resistance arrives 63.2%, calculate total time	$< 10\text{ sec}$
High temperature storage	IEC60068-2-2	Temp: $125^{\circ}\text{C} \pm 5^{\circ}\text{C}$ Time: $1000 \pm 24\text{Hour}$	No obvious damage, R25 $\Delta R/R \leq \pm 1\%$

Cold and thermal shock	IEC60068-2-14	-40°C~+125°C T1:30min Cycle time:1000	No obvious damage, R25 $\Delta R/R \leq \pm 1\%$
Knock experiment	IEC60068-2-77	Acceleration:250m/s <sup>2</sup> Pulse lasting: 6ms Knock times: 1000 Recovery time: 2 Hour	No obvious damage, R25 $\Delta R/R \leq \pm 1\%$
Low temperature storage	IEC60068-2-1	Temp: 40±2°C Time: 1000±24Hour	No obvious damage, R25 $\Delta R/R \leq \pm 1\%$
Salt spray	IEC60068-2-11	Temp: 35±2°C Collection hour : 1.0mL~2.0mL Time: determine per as actual demand	No obvious damage, R25 $\Delta R/R \leq \pm 1\%$

## PRODUCT CATEGORIES



Home Appliance

More+



Kitchen

More+



Home Industry

More+



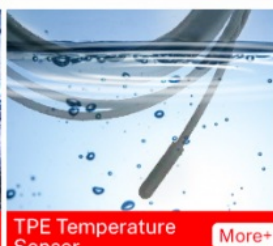
New Energy

More+



Car Industry

More+

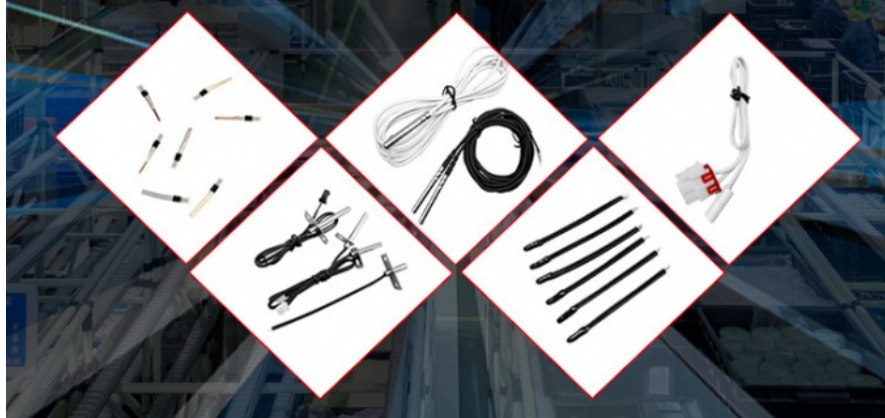


TPE Temperature Sensor

More+

## PROFESSIONAL MANUFACTURER

14 years of temperature sensor manufacturing experience





## CERTIFICATES



**Dongguan Linkun Electronic Technology Co., Ltd.**



13423305709



huangju@lk-ptc.com



lk-thermistor.com

Room 101, No. 21, Huayuanzai Road, Chongmei, Chashan Town, Dongguan City, Guangdong Province