High Temperature Resistant Resistance MF58 Glass Processing Type 10K 50K 100K Suitable For Hair Straightener NTC Thermis

Our Product Introduction

Basic Information

- Place of Origin: Dongguan China
- Brand Name: linkun
- Certification: CE / ROHS / UL / TUV / SGS
- Model Number: Vehicle Temperature 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: Proven Stability And Reliability
- Application: New Energy Vehicles
- Type: Thermistor
- Working Temperature Range(°C): -10 To +105c
- Resistance Value: 5K,10K,20K,50K,100K
- Dissipation Factor(mw/°C): 1-2 (in Still Air)
- Highlight: **U Shaped NTC For Temperature Sensor**, **Practical NTC For Temperature Sensor**, **Multipurpose Probe Type Thermistor**

More Images

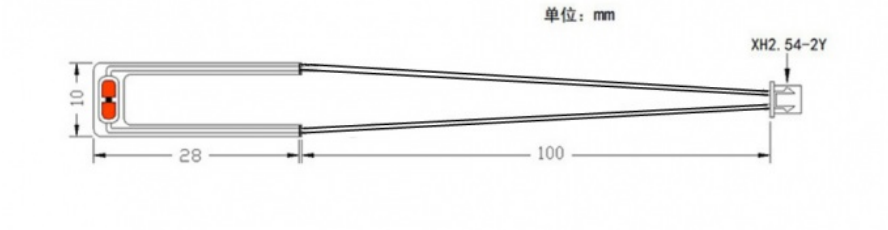
Our Product Introduction

for more products please visit us on lk-thermistor.com

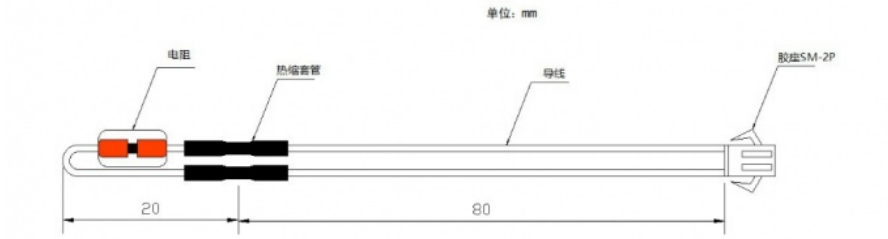
Product Description

High Temperature Resistant Resistance MF58 Glass Processing Type 10K 50K 100K Suitable For Hair Straightener NTC Thermis

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 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(thermistor) Temperature Sensor
Temperature range	-50°C ~ +300°C Customized
Accurancy	1% 5% 10%
RT(25°C)	1K 2K 2.2k 2.7k 3K 5K 7K 8K 12K 15K 20K 25K 30K 40K 47K 50K 60K 70K 100K 200K 230K 250K 470K 500K 1000K Customized
B value	3274 3435 3470 3928 3950 3977 4100 4200 4400 Customized
Probe Material	Stainless steel SS304 aluminum copper plastic epoxy glass
Installation	Flanged Surface Threaded Plastic Straight Film Customized
Wire Material	Heat shrinkable tube PVC tube glass fiber tube tube
Connector	Molex JST DuPont CWB CJT U type Customized
Waterproof	IP67 IP68

Material, type and size:

Thermistors are bulk semiconductor devices and as such can be manufactured in a variety of forms. More common ones include discs, beads and rods. Sizes do vary from 1mm beads to discs a few centimeters in diameter and thickness. There are different types of thermistors, most of which respond differently to changes in temperature. Thermistors are not linear and their response curves vary from type to type. Some thermistors have a nearly linear temperature-resistance relationship, others have a sharp change in slope (sensitivity) at a specific characteristic temperature.

Main Technology Parameters

Part number	Rated resistance R25		B value (25/50)		Dissipattion Coeffient.	Thermal time constant	Operating temperature
	Range KOhm	Tolerance %	(K)	Tolerance %	Mw/℃	sec	℃
CWF□□□ 3100	0.1~20	±1 ±2 ±3 ±5	3100	±1	≥2.2	≤70	-55~+125
CWF□□□ 3270	0.2~20		3270				
CWF□□□ 3380	0.5~50		3380				
CWF□□□ 3470	0.5~50		3470				
CWF□□□ 3600	1~100		3600				
CWF□□□ 3950	5~100		3950				
CWF□□□ 4000	5~100		4000				
CWF□□□ 4050	5~200		4050				
CWF□□□ 4150	10~250		4150				
CWF□□□ 4300	20~1000		4300				
CWF□□□ 4500	20~1000		4500				

NCT temperature sensor application range

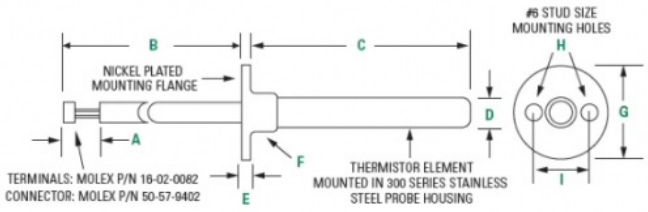
◆Heating and heating air conditioners and related equipment
◆Household appliances of various sizes: air conditioners, refrigerators, battery stoves, bread ovens, baking ovens, electric ovens, microwave ovens, electric fans, soybean milk machines, electric water heaters, electric rice cookers, disinfection cabinets, water dispensers, heaters, electric irons, disinfection Cabinets, drinking fountains, lighting appliances, etc.
◆Temperature measurement and control circuits for agricultural, medical, environmental protection, meteorological, food processing and other equipment
◆Instrument coils, automotive circuits, integrated circuit modules, transistor amplifier circuits, temperature compensation circuits such as quartz crystal oscillators and thermocouples

Flanged ntc temp sensor　Surface ntc temp sensor　Threaded ntc temp sensor

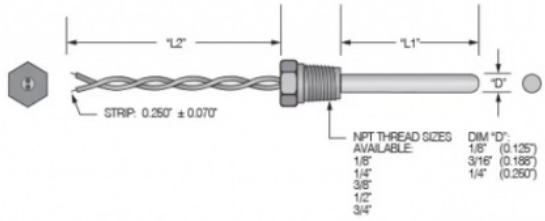
Working principle of temperature sensor

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.

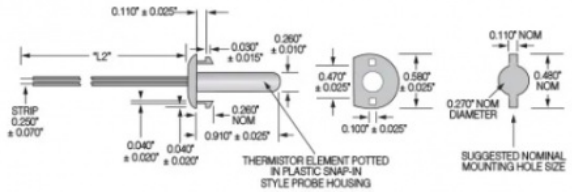
Flanged Probes



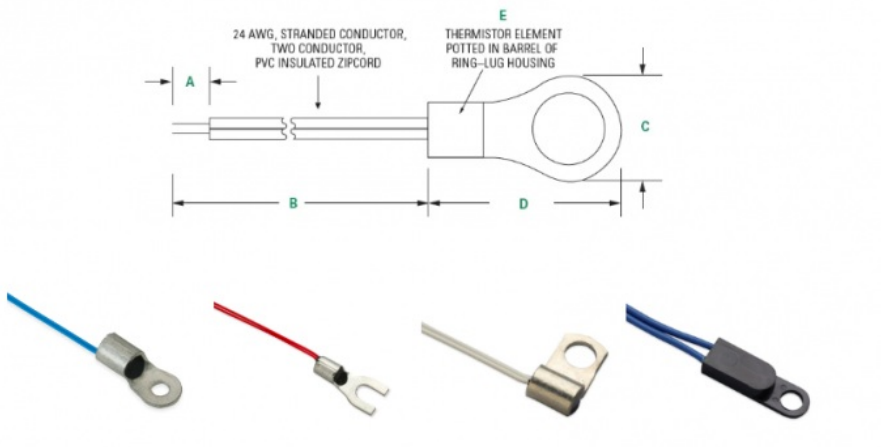
Threaded Probes



Special Probes: Customized according to purpose

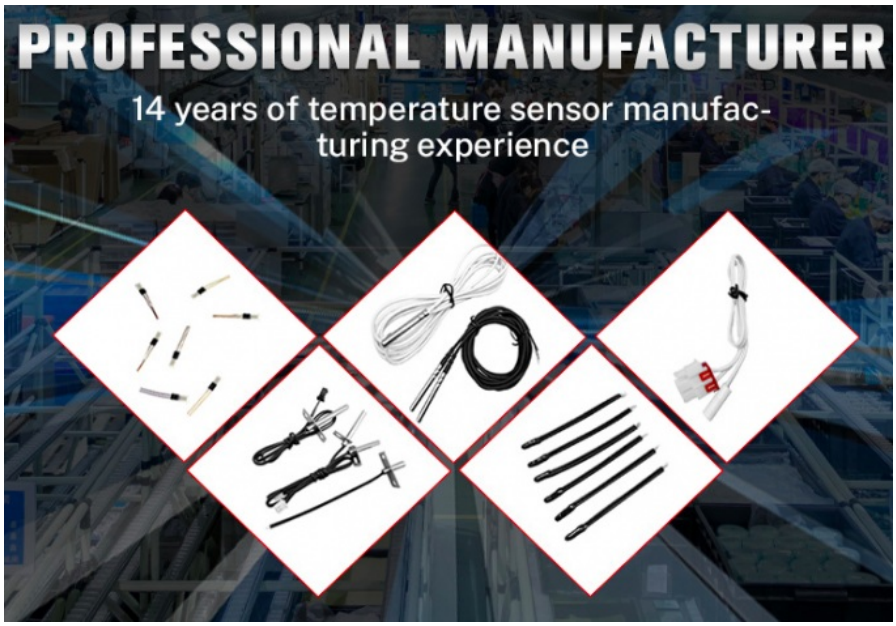


Surface Probes

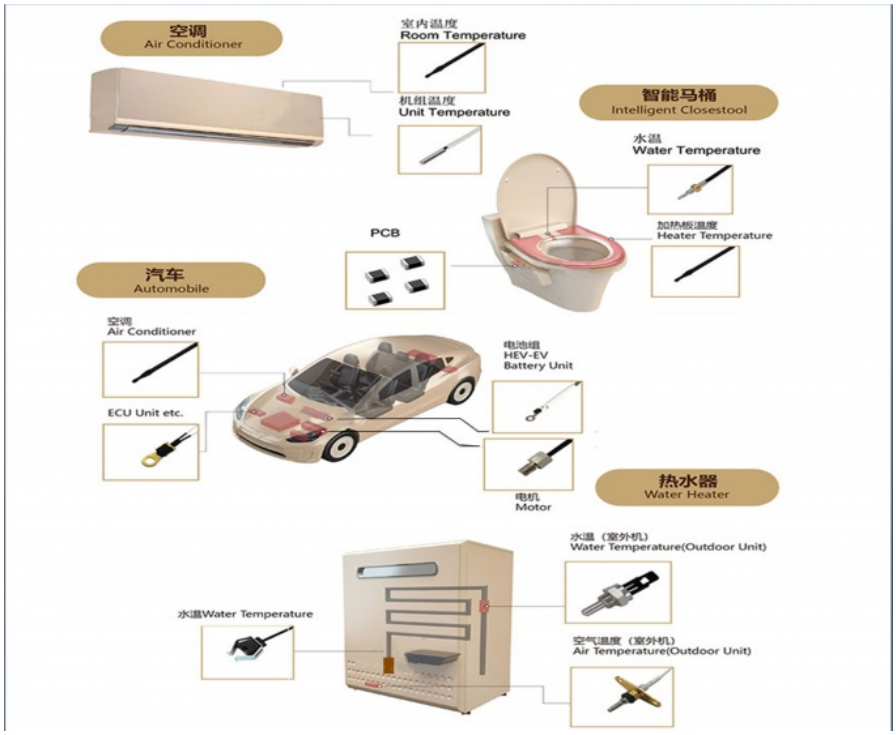


Reliability Test

Test Item	Test Standard	Test method	Performance requirements
Zero Power Resistance	IEC 60539-1	Immerse samples in the constant temperature bath at 25℃±0.005℃,test steady resistance	Resistance tol ±1%
B value	IEC60539-1	Immerse samples in the constant temperature bath at 25℃,50℃(or 85℃), test steady resistance,and calculate B value	Resistance tol ±1%
Free fall	IEC60068-2-32	Fall height: 1.5±0.1m,Surface: Cement , 1 time	No obvious damage, R25 △R/R≤±1%
Insulation	IEC60539-1	500V pressure on insulation shell test insulation resistance	>500MOhm
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>4.0KG(requested by customer)	No obvious damage, R25 △R/R≤±1%
Vibration	Q/HBm 108-94	Test frequency: 10~500Hz,swing: 1.2mm acceleration: 30m/s2 Direction X,Y,Z Time:8Hour/direction	No obvious damage, R25 △R/R≤±1%
Steady humidity and heat	IEC60068-2-78	Temp:40±2℃ Humidity:92-95%RH Time:1000±24Hour	No obvious damage, R25 △R/R≤±1%
Thermal time constant	EC60539-1	Immerse in 25℃ water,after thermal balance,immerse in 85℃,resistance arrives 63.2%,calculate total time	<10 sec
High temperature storage	IEC60068-2-2	Temp:125℃±5℃ Time: 1000±24Hour	No obvious damage, R25 △R/R≤±1%
Cold and thermal shock	IEC60068-2-14	-40℃~+125℃ T1:30min Cycle time:1000	No obvious damage, R25 △R/R≤±1%
Knock experiment	IEC60068-2-77	Acceleration:250m/s2 Pulse lasting: 6ms Knock times: 1000 Recovery time: 2 Hour	No obvious damage, R25 △R/R≤±1%
Low temperature storage	IEC60068-2-1	Temp: 40±2℃ Time: 1000±24Hour	No obvious damage, R25 △R/R≤±1%
Salt spray	IEC60068-2-11	Temp: 35±2℃ Collection hour : 1.0mL~2.0mL Time: determine per as actual demand	No obvious damage, R25 △R/R≤±1%



Application



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