



NTC Thermistor MF58 5K 3470 Thermistor Glass Sealed For Electric Vehicle Power Supply Temperature Measurement Control

Our Product Introduction

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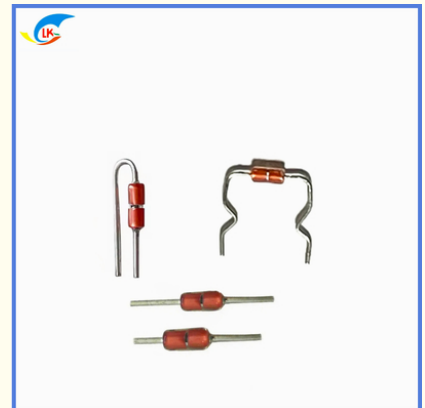
Basic Information

- Place of Origin: China Dong Guan
- Brand Name: lin kun
- Certification: ROHS,UL
- Model Number: MF58 5K3470
- Minimum Order Quantity: 5000 PCS
- Price: US 0.02-0.045 PCS
- Packaging Details: Bulk,500pcs per polybag
- Delivery Time: 3-7 workdays
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 20,000,000PCS per week

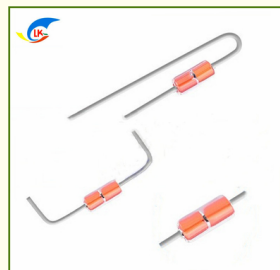
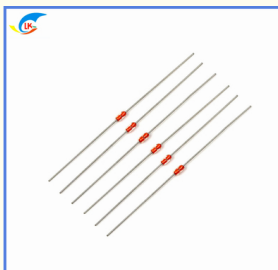


Product Specification

- Model Number: MF58 502F 3470
- Resistance Value: 1K, 2K, 2.89K, 5K, 10K, 15K, 20K, 30K, 50K, 100K, 200K, 500K
- B Value At 25/50°C Or 25/85°C: 3380/3950/3470/4000/4150/4500 K
- Shape: Axial Leaded
- Operating Temperature: -55°C To +250°C
- Resistance Tolerance: F:±1%, G:±2%, H:±3%, J:±5%, K:±10%
- Tolerance: 2mw/°C
- Package / Case: Glass Sealed
- Highlight: Glass Sealed NTC Thermistor, Electric Vehicle Power Supplies NTC Thermistor, MF58 5K NTC Thermistor



More Images



Product Description

Product Description:

Product Description:

[MF58D single-ended glass-sealed NTC thermistor.pdf...](#)

MF58 series NTC thermistor is made of semiconductor ceramic technology, and the NTC chip is encapsulated in glass (DO-35 diode encapsulation method). It is a high-precision thermal device element with the same appearance as the 4148 diode.

(1) Product features

- Good stability and high reliability; ·The NTC chip is encapsulated in glass and can be used safely in any harsh environment.
- Wide resistance range and high precision; the resistance precision is up to 0.3°C, and the B value precision is up to 0.5%.
- Can be used in harsh environments such as high temperature and high humidity; to ensure excellent heat resistance, the product is encapsulated in glass and can work stably and reliably at a high temperature of 300°C.
- Small size, light weight, and sturdy structure;
- Easy to install automatically; due to its small size and light weight, it can be easily and automatically mounted on the printed circuit board, suitable for automatic plug-in installation and large-scale production. After pulling open the glass sealing tape, the pins can be cut on the equipment.
- Thermal sensitivity should be fast and high. ·The packaging method and results of its products determine its fast response speed and high sensitivity. The resistance value decreases as the temperature increases, also known as linear negative temperature coefficient thermistor.
- Since the production line is fully mechanized, you will get satisfactory prices, materials and delivery time.

(2) Application scope

- Temperature control and detection of household appliances (such as refrigerators, air conditioners, smart toilets, microwave ovens, induction cookers, toasters, electric fans, electric heaters, soybean milk machines, electric water heaters, rice cookers, health pots, egg cookers, water dispensers, etc.);
- Temperature detection or compensation of office automation equipment (such as copiers, printers, etc.);
- LED lighting, mobile phone battery and battery pack temperature protection. ;
- Temperature compensation of instrument coils, integrated circuits, quartz crystal oscillators, and thermocouples.
- Temperature measurement and control circuits of medical, industrial and agricultural, environmental protection, food processing and other equipment.
- Temperature compensation circuits such as micromotor CNC, quartz crystal oscillators and thermocouples.

(3) Specifications

example:

LK --- MF58— 100K — 3950— 1

① ② ③ ④ ⑤

Among them, ① represents Linkun Electronic Technology Co., Ltd.

② Indicates glass-encapsulated diode NTC thermistor.

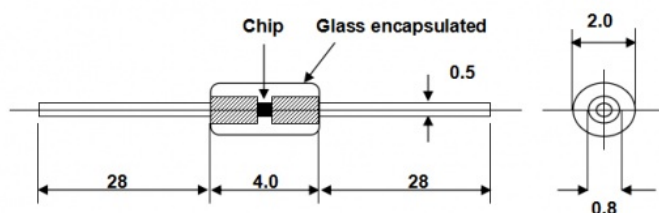
③ The standard resistance value at 25°C (R25°C), for example: 104, that is, R25°C is 100KΩ.

④ B value (B25/50°C) For example: 4200 means B25/50°C is 4200K.

⑤ R25°C resistance value accuracy: 1 (±1%), 2 (±2%), 3 (±3%), 5 (±5%), 10 (±10%).

(4) Structure and size

Shape and dimension(Unit:mm)



4.1 Specifications

LK-500K-4050-1%

NTC Thermistor	Resistance value		B value		
	500KΩ	±5%	4050	±1%	B25/50

4. Electrical characteristics

	Item	Symbol	Test Condition	Min.	Nor.	Max.	Unit
a	Resistance at 25°C	R25	25±0.05°C	47500	500	52500	kΩ
b	Bvalue	B25/50	B=	/	4050	/	k
c	Insulation resistance	/	500VDC	100	/	/	MΩ
d	Thermal time constant	τ	in still air	/	/	20	sec
e	Thermal dissipation constant	δ	in still air	2.0	/	/	mw/°C
f	Operating temperature range	/	/	-30	/	260	°C

5. Reliability

	Item	Specification	Method of Examination
5.1	high Temp. storage		After storeage at 250°C for 1000hrs
5.2	Low Temp. storage	*ΔR25/ R25≤±2%	After storeage at -40°C for 1000hrs
5.3	High temperature and humidity		After storeage at 60°C 95%RH for 1000hrs
5.4	Thermal shock	*ΔR25/ R25≤±2%	100 cycles of following sequence -40°C 10min.---5min. room temp. ---200°C 10min.---5 min. room temp.
5.5	Vibration	* no visible damage *ΔR25/ R25≤±2%	After vibrate test , Frequence 10-500Hz 15min.max amplitude 1.5mm ,in X and Y directions
5.6	Pulling	* no visible damage *ΔR25/ R25≤±2%	After applling a force of 9.8N in the axial direction of thermistor, and maintain the force for 60sec.
5.7	Fall down	* no visible damage *ΔR25/ R25≤±2%	After dropped freely onto wood floor from 1 meter height for 10 times

6. Outgoing Inspection

The product shall be inspected at every delivery lot inspection items, sampling quantities and sampling acceptable standard are as follows.

Inspection Item	Sampling acceptable Standard	Remarks
Resistance value	N=20,Ac=0,Re=1	4(a)
B value	N=10,Ac=0,Re=1	4(b)
Insulation Resistance	N=5,Ac=0,Re=1	4(c)
Shape & dimensions	N=5,Ac=0,Re=1	3
Appearance	N=5,Ac=0,Re=1	3

6.2 Inspection data Inspection data will be issued for pay upon request.

7.Packing

Packing shall be done not to cause damage or soil during delivery

P/N	Resistance		Beta value			Operating temperature
	R25 (KΩ)	Tol.	(25/50°C)(K)	Custom B value	Tol	(°C)
MF58□102□2700	1.00	±1 ±2 ±3 ±5	2700		±1 ±2	-40 350
MF58□102□3270	1.00		3270			
MF58□152□3920	1.50		3920			
MF58□202□3470	2.00		3470			
MF58□202□3839 X	2.00			B5/25=3839		
MF58□2.89□3470	2.89		3470			
MF58□2.89□3520	2.89		3520			
MF58□302□3520	3		3520			
MF58□472□3230	4.7		3230			
MF58□472□3510	4.7		3510			
MF58□502□3240	5		3240			
MF58□502□3270	5		3270			
MF58□502□3380	5		3380			
MF58□502□3470	5		3470			
MF58□502□3500	5		3500			
MF58□502□3900	5		3900			
MF58□502□3950	5		3950			
MF58□5.369□3480	5.369		3480			
MF58□103□3360	10		3360			
MF58□103□3380	10		3380			
MF58□103□3435	10		3435			
MF58□103□3470	10		3470			
MF58□103□3600	10		3600			
MF58□103□3700	10		3700			
MF58□103□3900	10		3900			
MF58□103□3950	10		3950			
MF58□103□4100	10		4100			
MF58□153□3950	15		3950			
MF58□203□3950	20		3950			
MF58□203□4200	20		4200			
MF58□223□3950	22		3950			
MF58□303□3950	30		3950			

MF58□403□3950	40.27		3950		
MF58□473□3950	47		3950		
MF58□503□3900	50		3900		
MF58□503□3950	50		3950		
MF58□503□3990	50		3990		
MF58□533□4050	53		4050		
MF58□104□3420	100		3420		
MF58□104□3900	100		3900		
MF58□104□3925	100		3925		
MF58□104□3950	100		3950		
MF58□104□3975	100		3975		
MF58□104□3990	100		3990		
MF58□104□4100	100		4100		
MF58□104□4200	100		4200		
MF58□104□4360	100		4360		
MF58□154□3950	150		3950		
MF58□204□3500	200		3500		
MF58□204□3899	200		3899		
MF58□204□3950	200		3950		
MF58□204□4200	200		4200		
MF58□204□4260	200		4260		
MF58□234□4160	230		4160		
MF58□234□4260	230		4537(100/20 0°C)		
MF58□254□3950	250		3950		
MF58□504□4050	500		4050		
MF58□504□4260	500		4260		
MF58□504□4300	500		4300		
MF58□105□4200	1000		4200		
MF58□105□4400	1000		4400		
MF58□135□4400	1300		4400		
MF58□1.388M□4 400	1388		4400		
MF58□1.388M□4 600	1388		4600		

Product display:

Details display

1

High-qualityMaterials

Made of high-quality materials, durable,
Quality is excellent, just to make you feel at ease when buying!



2

Product advantages

Wide resistance range
Strong surge resistance
Fast response time

3

Reliable performance

Quick response to overload current

Stable and reliable performance

Strong impact resistance
Long service life



4

Stable quality

Our company has good design and development capabilities,
Excellent team integrating design, research and development and production







Sensing element-NTC thermistor used



Dongguan Linkun Electronic Technology Co., Ltd.

High-quality, high-performance temperature measuring NTC thermistor is the heart and core of NTC temperature sensor

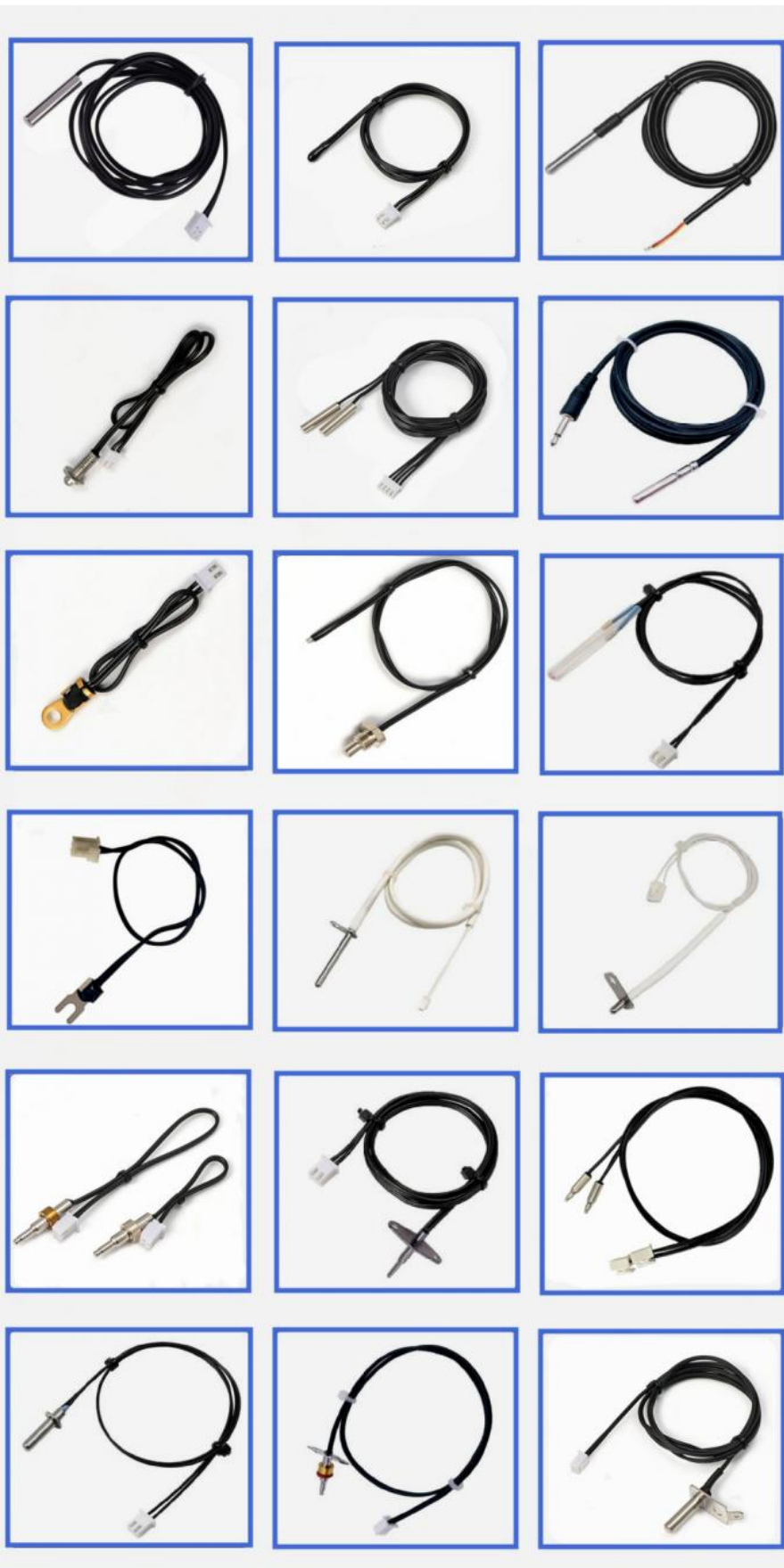


			
NTC MF72 series	NTC MF73 series	NTC MF51 series	NTC MF55 series
			
NTC MF11 series	PTC heating chip series	NTC MF58 series	NTC MF59 series
			
Intelligent composite PTC series	PTC thermistor	NTC-MF5A series	NTC-MF52 series
			
SMD paste NTC series	Sensor series	NTC-MF5Q series	NTC-MF5P series

The MF58 series products are the first in China to pass the 100,000-time durability test in the UL standard.

NTC/PTC Temperature sensor Type

		
Round tube package thermistor	Injection molded encapsulated temperature sensor	Flange tube encapsulated temperature sensor
		
Lug package temperature sensor	Bullet encapsulated temperature sensor	Threaded head package temperature sensor



Dongguan Linkun Electronic Technology Co., Ltd. provides custom design services for temperature sensors.

Dimensions & Specifications & Parameters can all be custom-made; feel free to contact us!

Resistance @25°C	0.5k, 1k, 2k, 3k, 5k, 8k, 10k, 15k, 20k, 30k, 50k, 100k, 200k etc.
Beta Value (25/50°C, 25/85°C, 0/50°C, 0/100°C, 5/25°C, 25/100°C etc.)	3380k, 3435k, 3470k, 3450k, 3550k, 3984k, 3950k, 3977k, 4050k, 4100k, 4250k, etc.

Operating Temperature Range	~30°C to +250°C , Special Design also available.
Metal Housing Design Options	Cylindrical, Bullet Types, Screw Threaded Types, Ring Lug Types, Flange Types, Pipe Clamp Types etc.
Cable Options	PVC, XLPE, TPE, PTFE, Silicone Wire, Fibre-Glass Braided Wire etc.
Connector Options	JST, MOLEX, TE, Waterproof connectors etc.

(8 Precautions

1. The MF58 series thermistor is sealed with glass. Please do not subject it to severe shock or squeezing to prevent the glass tube from breaking.
2. Welding method: Use the method of direct welding between the metal body and the body. Do not use soldering to avoid welding, and the welding time should be controlled within 3.5 seconds.
3. Do not test the MF58 thermistor in the air. The temperature difference in the air is large and the measurement is very inaccurate. There will often be a deviation of more than 1-2°C. A high-precision constant-temperature oil tank must be used for measurement. The measured NTC discharge After entering the constant-temperature oil tank, the temperature of the constant-temperature tank must be stable before measurement.
4. The voltage should be as low as possible during measurement to reduce the measurement error caused by NTC self-heating.
5. When measuring high temperature, a thermometer needs to be used to correct and check the temperature of the thermostatic bath.



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