# MF52 100K 1% 3950 NTC Type Thermistor Temperature Detection For Thermometer And Thermostat

Our Product Introduction

## Basic Information

- Place of Origin: China Dong Guan
- Brand Name: lin kun
- Certification: ROHS,UL
- Model Number: MF52 100K 1% 3950
- Minimum Order Quantity: 5000 PCS
- Price: 0.045 USD/ PCS
- Packaging Details: Bulk,500pcs per polybag
- Delivery Time: 7 workdays
- Payment Terms: T/T
- Supply Ability: 20,000,000PCS per week

## Product Specification

- Resistance Value: 100KΩ
- Accuracy: ±1%
- B-Value 25/50: 3950±1%
- Thermal Dissipation Constant: ≥2
- Tolerance: ±1%, ±2%, ±3%, ±5%
- Insulation Resistance: ≥100
- Product Name: NTC Type Thermistor
- Operating Temperature: -55°C To +125°C
- Application: Thermostat, Thermometer, Instrumentation, New Energy
- Dissipation Factor: ≥2 MW/°C
- Insulation Resistance: >100MΩ

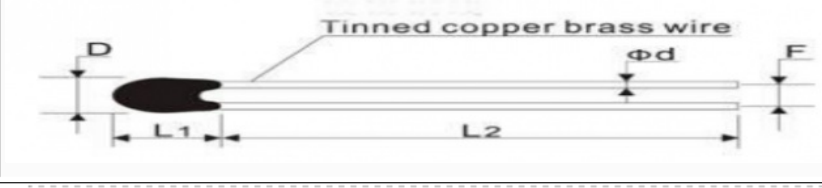
## More Images

## Product Description

MF52 100K 1% 3950 NTC Thermistor Temperature Detection Type Thermistor For Thermometer And Thermostat
Main technical parameters of temperature-measuring thermoelectric resistance

| specifications and models | MF52A1 104F3950 |
|---|---|
| Product standard | Q/320115SHD03-2008 |

1. Overall dimensions




| Dmax | L1max | L2 ± 3 | F d ± 0.05 | F ± 0.5 |
|---|---|---|---|---|
| 2.6 | 4.5 | 30 | 0.35 | 2.0 |

2. Materials

| Encapsulating material | colour | Lead material |
|---|---|---|
| modified resin | black | Tinned steel wire |

3. Model description

| MF52 | A1 | 104 | | | F | 3950 |
|---|---|---|---|---|---|---|
| Bead temperature measuring NTC thermistor | Lead tinned steel wire | Resistance value | | | Resistance tolerance | B value (25/50) |
| | | | 100 K | Ω | ±1% | 3950K |

4. Electrical performance

| | project | symbol | test condition | unit | performance requirement |
|---|---|---|---|---|---|
| 4.1 | Zero power resistance at 25℃ | R25 | Ta=25±0.05℃<br>Test power ≤0.1mW in flowing liquid. | KΩ | 100±1% |
| 4.2 | B value | 25/50 | B=[(T a ´Tb )/(Tb -T a )]× ln( Ra ⁄ Rb )<br>*Tb = 50 ℃±0.1℃* | K | 3950±1% |
| 4.3 | dissipation factor | d | In still air | mW/℃ | ≥2 |
| 4.4 | characteristic time | t | In still air | sec | ≤7 |
| 4.5 | insulance | / | 100V/DC1min | MΩ | ≥100 |
| 4.6 | operating temperature range | / | / | ℃ | -40~120 |
| 4.7 | Resistance-temperature characteristic | / | / | / | |
| 4.8 | Resistance error | / | / | / | |

5. Reliability performance test

| | project | Test conditions and methods | technical requirement |
|---|---|---|---|

| | | | |
|---|---|---|---|
| 5.1 | soldering resistance | **Immerse the lead in the tin solution at 235+/-5°C, with the tin surface 6mm away from the lower end of the body for 2-3 seconds.** | **The solder is evenly and smoothly coated on the surface of the immersed part of the lead, and the area is over 95%.** |
| 5.2 | Welding heat resistance | Immerse the lead in tin liquid at 265℃ 5, with the liquid level 6mm away from the resistor, and the time is 5 1 second. | No visible damage,<br>*R25* D R/R≤±2% |
| 5.3 | Lead-out strength | Tension: 5N, time: 10s- | No visible damage,<br>*R25* D R/R≤±2% |
| 5.4 | Rapid temperature change | 55℃30min→25℃min→125℃30min→<br>25℃min, repeated 5 times, and recovered for 4 hours. | No visible damage,<br>*R25* D R/R≤±2% |
| 5.5 | high-temperature | Temperature: 125℃, time: 16 hours. | No visible damage,<br>*R25* D R/R≤±2% |
| 5.6 | cold | Temperature: -55℃, time: 2 hours. | No visible damage,<br>*R25* D R/R≤±2% |
| 5.7 | low pressure | Air pressure: 40 0.1kpa for 4 hours. | No visible damage,<br>*R25* D R/R≤±2% |
| 5.8 | Steady state warming | Temperature: 40℃, humidity: 93%, time: 500 12 hours. | No visible damage,<br>*R25* D R/R≤±2%,<br>Withstand voltage ≥700V/AC1min<br>insulation resistance ≥ 100 kω. |
| 5.9 | Alternating damp heat | Temperature: 25~40℃, humidity: 90%, time: 24 hours. | No visible damage,<br>*R25* D R/R≤±2%,<br>Withstand voltage ≥700V/AC1min<br>insulation resistance ≥ 100 kω. |
| 5.10 | Endurance of zero power consumption at upper limit temperature Persistence | Temperature: 125℃ 2℃ Time: 1000 24 hours. | No visible damage,<br>*R25* D R/R≤±2% |
| 5.11 | vibrate | Frequency range: 10~500HZ, amplitude: 0.75mm or 98m/S 2 time 2 hours, | No visible damage,<br>*R25* D R/R≤±2% |
| 5.12 | collide | Acceleration: 250m／S 2, pulse duration: 6Ms, 4000 collisions. | No visible damage,<br>*R25* D R/R≤±2% |

6, welding conditions

When welding, the welding place should be 6mm away from the root of the resistor, the welding temperature should be lower than 350℃, and the welding time should be as short as possible.

7. Storage conditions

7.1 Storage temperature:-10℃ ~ 40℃;

7.2 Storage humidity: ≤75%RH;

7.3 Avoid storage in an environment with corrosive gas and light;

7.4 After the package is opened, it needs to be re-sealed and preserved;

| Parameter | |
|---|---|
| Specific drawings, dimensions, specifications and parameters can be customized; feel free to contact us | |
| Rated resistance（25℃） | 0.5K,1K,5K,8K,10K,15,20K,30K,50K,100K,200K,500K |
| B value（25/50、25/85） | 3380K,3435K,3450K,3360K,3950K,4050K,4100K,4200K,4300K |
| Operating temperature | -20~+200℃ |
| Withstand voltage | 1500V/3mA/5S |
| Rated power | 10 MW |
| Response time | 30-20S |

## Product Description:

NTC Type Thermistor

The NTC type thermistor is a precision temperature sensing device with a MF58 glass sealed thermistor, MF5 single-ended glass sealed thermistor, and MF5 single-ended glass sealed thermistor. This thermistor can operate in temperatures ranging from -55°C to +125°C with a tolerance of +/-1%. It has a response time ranging from 1s to 10s and offers an insulation resistance of greater than 100MΩ. This thermistor is ideal for applications requiring accurate temperature measurement and

control.

### Features:

Product Name: NTC Type Thermistor
Accuracy: ±1%
Insulation Resistance: >100MΩ
B-Value 25/50: 3950±1%
Response Time: 1s To 10s
MF58 glass sealed thermistor
MF5 single-ended glass sealed thermistor
MF52 temperature measuring thermistor

### Technical Parameters:

| Product Name | Technical Parameters |
|---|---|
| NTC Type Thermistor | Tolerance: +/-1%<br>B-Value 25/50: 3950±1%<br>Size: 2mm To 3mm<br>Thermal time constant: ≤7<br>Accuracy: ±1%<br>Resistance Range: 1Ω To 100KΩ<br>Response Time: 1s To 10s<br>Insulation Resistance: >100MΩ<br>MF55 film thermistor<br>MF55 film thermistor<br>MF52 temperature measuring thermistor<br>MF52 temperature measuring thermistor |

### Applications:

**MF58/MF52/MF11 NTC Type Thermistor**

Brand Name: lin kun
Model Number: MF52 10K 1% 3950
Place of Origin: China Dong Guan
Certification: ROHS,UL
Minimum Order Quantity: 5000 PCS
Price: 0.045 USD/ PCS
Packaging Details: Bulk,500pcs per polybag
Delivery Time: 7 workdays
Payment Terms: T/T
Supply Ability: 20,000,000PCS per week
Size: 2mm To 3mm
Insulation Resistance: >100MΩ
Thermal time constant: ≤7
Operating Temperature: -55°C To +125°C
Lin Kun MF58 glass sealed thermistor, MF52 temperature measuring thermistor, and MF11 temperature compensated thermistor are high-precision NTC type thermistors, designed for temperature sensing and control applications. This thermistor is sealed in a glass encapsulation to prevent any moisture or dust from entering the thermistor. The MF58, MF52, and MF11 thermistors are highly reliable and accurate, and they are rated for use in low temperature environments.
The MF58, MF52, and MF11 thermistors are available in a wide range of resistance values, from 10K to 1MΩ, and they are available in 1%, 2%, and 5% tolerance. The operating temperature ranges from -55°C to +125°C, and the insulation resistance is rated at >100MΩ. The thermal time constant is ≤7 seconds, and the size is 2mm to 3mm.
These thermistors are certified to the ROHS and UL standards, and the minimum order quantity is 5000 PCS. The Lin Kun MF58/MF52/MF11 NTC type thermistors are available at 0.045 USD/ PCS, and they are delivered in 7 workdays. Lin Kun has a supply ability of 20,000,000PCS per week.

### Customization:

NTC Type Thermistor Customization Service
Brand Name: lin kun
Model Number: MF52 10K 1% 3950

Place of Origin: China Dong Guan
Certification: ROHS,UL
Minimum Order Quantity: 5000 PCS
Price: 0.045 USD/ PCS
Packaging Details: Bulk,500pcs per polybag
Delivery Time: 7 workdays
Payment Terms: T/T
Supply Ability: 20,000,000PCS per week
Accuracy: ±1%
Resistance Range: 1Ω To 100KΩ
Insulation resistance: ≥100
Thermal dissipation constant: ≥2
B-Value: 25/50: 3950±1%
Features: MF55 film thermistor, MF55 film thermistor, MF5 Single-ended glass sealed thermistor

## Support and Services:

At NTC Type Thermistor, we strive to provide the best possible technical support and service to our customers. We are committed to providing you with the most comprehensive and up-to-date technical information on our products, as well as prompt and reliable technical support. We have a dedicated team of technical support specialists who are available to answer your questions and provide assistance with any technical inquiries you may have. Our technical support team is available by email, phone, or live chat to provide you with the best possible assistance. We also provide online resources, such as FAQs, tutorials, and product documentation, to help you get the most out of your NTC Type Thermistor product.

## Packing and Shipping:

NTC Type Thermistor Packaging and Shipping:
NTC Type Thermistor is shipped in a durable cardboard container, with foam inserts to keep the product safe during transit. The box is labeled with the product name, part number, and other relevant information. The container is designed to protect the product from impact, moisture, and other hazards during shipping.

## FAQ:

Q1:What is the brand name of NTC Type Thermistor?
A1:The brand name of NTC Type Thermistor is lin kun.
Q2:What is the model number of NTC Type Thermistor?
A2:The model number of NTC Type Thermistor is MF52 10K 1% 3950.
Q3:Where is the place of origin of NTC Type Thermistor?
A3:The place of origin of NTC Type Thermistor is China Dong Guan.
Q4:What is the certification of NTC Type Thermistor?
A4:The certification of NTC Type Thermistor is ROHS,UL.
Q5:What is the minimum order quantity of NTC Type Thermistor?
A5:The minimum order quantity of NTC Type Thermistor is 5000 PCS.

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

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