

负温度系数(NTC)热敏电阻器

Negative Temperature Coefficient (NTC) Thermistor

MF11补偿型NTC热敏电阻器系列

MF11 Series Compensation Type NTC Thermistor

● 应用范围

用于一般精度的温度测量和在计量设备、电子电路中的温度补偿

● Applications

Used for general accuracy temperature measurements and temperature compensation in measuring devices and electronic circuits.

● 特点

- 体积小，自动化生产，一致性、互换性好
- 作为补偿元件可工作在较大电流、较大电压的应用场景
- 作为测温元件具有较大的测量功率和额定功率
- 产品可靠性高、稳定性好

● Features

- Compact size, automated production, good consistency, and interchange ability
- Can operate in high current and high voltage applications as a compensation component.
- As a temperature sensing element, it has high measurement power and rated power.
- High product reliability and good stability.

● 安规认证 Certifications



UL1434 认证  
UL1434 Certification  
(File# E240991)

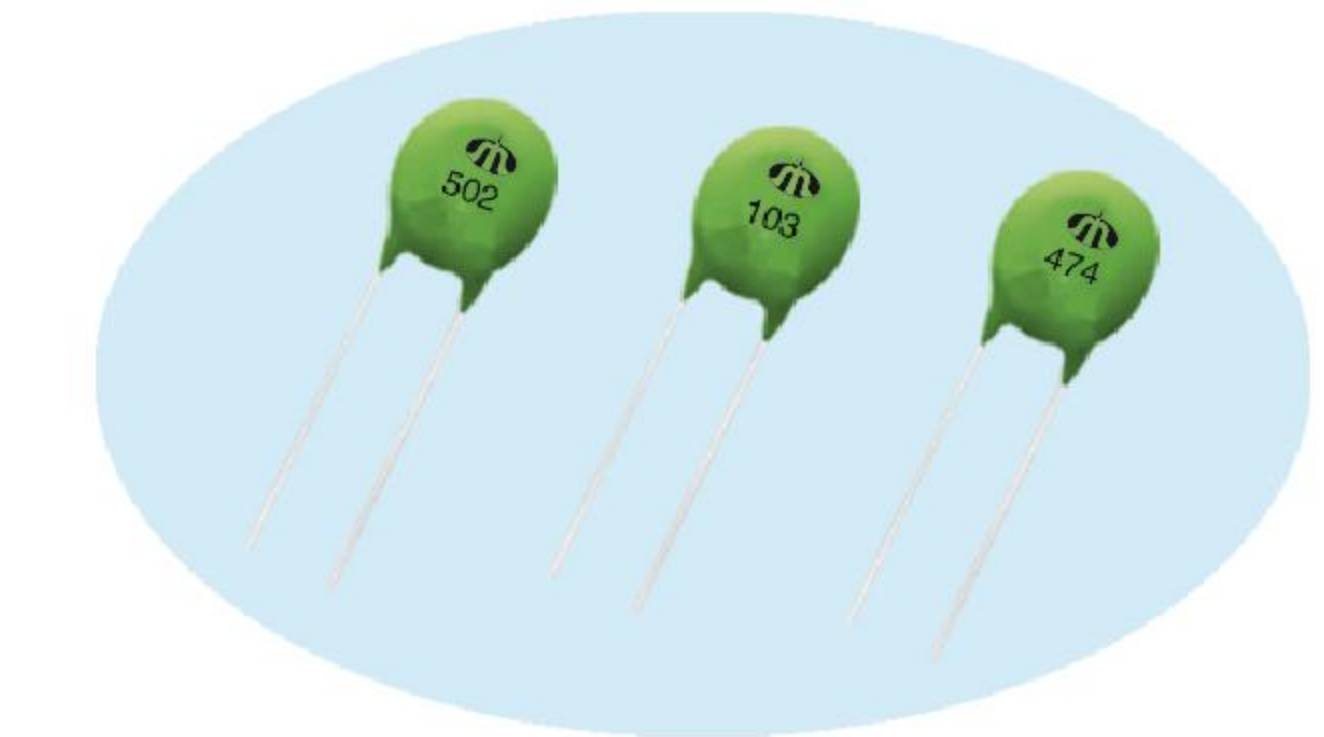


CQC认证  
CQC Certification  
(File# 13001089724)

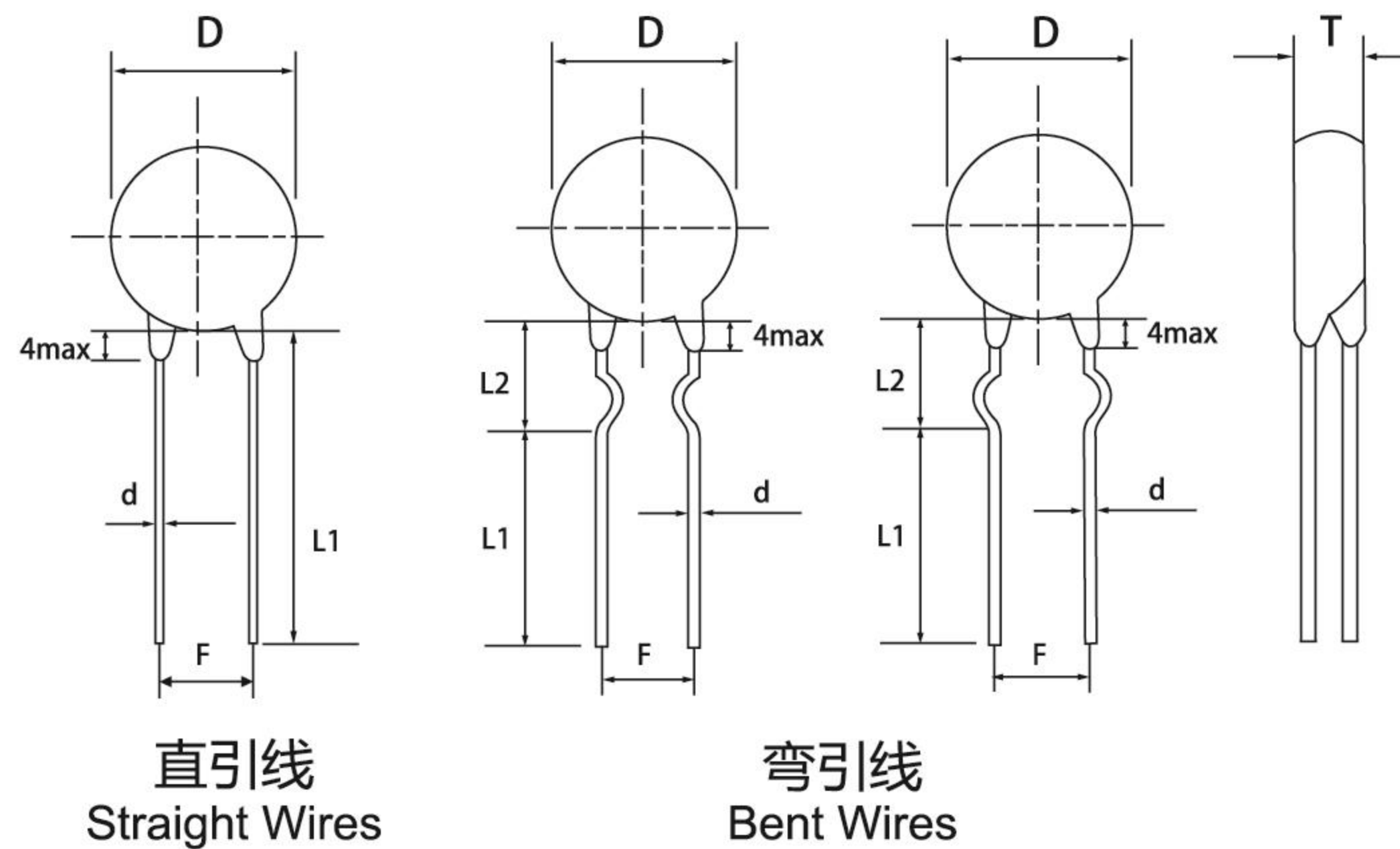


TUV认证  
TUV Certification  
(File# R50245892)

● 产品标志说明 Marking Instruction





**MF11补偿型NTC热敏电阻器系列**
**MF11 Series Compensation Type NTC Thermistor**
**● 外形尺寸 Dimensions (mm)**


| 尺寸<br>Dim. (mm) | 代号<br>Code      | D Max | L1 Min | L2±2 | F±0.5 | T Max | d±0.05 |
|-----------------|-----------------|-------|--------|------|-------|-------|--------|
| 引线 Leads        |                 |       |        |      |       |       |        |
|                 | 直线 Straight     | 6     | 25     | /    | 2.5   | 4     | 0.45   |
|                 | 内弯 Inward Bent  | 6     | 20     | 3.5  | 5     | 4     | 0.6    |
|                 | 外弯 Outward Bent | 6     | 20     | 5    | 2.5   | 4     | 0.45   |

**● 主要技术参数 Main Technical Specifications**

- ◎ 标称阻值及允差：见下表
- ◎ B值及允差：见下表
- ◎ 时间常数约：20秒
- ◎ 耗散系数约：4.5mW/°C
- ◎ 额定功率：450mW
- ◎ 使用温度范围：-30°C~+125°C
- ◎ Nominal Resistance Value and Allowable Tolerance: Refer to the Chart below.
- ◎ B Value and Allowable Tolerance: Refer to the Chart below.
- ◎ Time Constant: Approx. 20s.
- ◎ Dissipation Constant: Approx. 4.5 mW/°C
- ◎ Rated Power: 450mW
- ◎ Operating Temperature Range: -30°C~+125°C.

**● 阻值、B值一览表 Resistance Value and B-Value Chart**

| 型号<br>Part No. | 25°C的零功率电阻值<br>Zero-Power Resistance at 25°C R <sub>25</sub> |                                 | B值 (25/50°C)<br>B Value |                                 |      |
|----------------|--|---------------------------------|-------------------------|---------------------------------|------|
|                | 阻值范围<br>Range (Ω)  | 允许偏差<br>Allowable Tolerance (%) | 标称值<br>Rated Value (K)  | 允许偏差<br>Allowable Tolerance (%) |      |
| MF11           | 1.5~4.9  | ±5                              | 2500                    | ±10                             |      |
|                | 5~7  |                                 | 2600                    |                                 |      |
|                | 8~24   |                                 | 2800                    |                                 |      |
|                | 25~119   |                                 | 3000                    |                                 |      |
|                | 120~359  |                                 | 3200                    |                                 |      |
|                | 360~1400   |                                 | 3600                    |                                 |      |
|                | 1.5K~5.9K  |                                 | ±10                     |                                 | 3950 |
|                | 6K~12K   |                                 | ±15                     |                                 | 4050 |
|                | 13K~17K  |                                 | ±20                     |                                 | 4150 |
|                | 18K~44K  |                                 |                         |                                 | 4250 |
|                | 45K~79K  |                                 |                         |                                 | 4300 |
|                | 80K~144K   |                                 |                         |                                 | 4400 |
|                | 145K~199K  |                                 |                         |                                 | 4500 |
|                | 200K~299K  |                                 |                         |                                 | 4600 |
|                | 300K~500K  |                                 |                         |                                 | 4750 |