

负温度系数(NTC)热敏电阻器

Negative Temperature Coefficient (NTC) Thermistor

MF52B测温型NTC热敏电阻器 (可定制)

MF52B Series Temperature-Measurement NTC Thermistor (Customizable)

通过AEC-Q200检测

Passed AEC-Q200 Testing

● 特点

- 引出线为漆包线，线材材质有铜、钢，可满足不同使用场景需求
- 采用多种尺寸NTC热敏芯片，测量功率有多种选择
- 体积小、测温精度高
- 引出线有高温漆包线，可在180°C高温下长期工作
- 可以提供高绝缘耐压产品
- 规模化批量生产，性价比高



● Features

- The lead wires are enamel-insulated, come in copper and steel, etc, ensuring compatibility with a wide range of applications.
- Using various sizes of NTC thermistor chips, offering multiple power measurement options.
- Compact size, High temperature measurement accuracy.
- The lead wires are high-temperature enameled wires, designed for long-term operation at temperatures up to 180°C.
- We provide products with high insulation and withstand voltage.
- Mass Production, High Cost-performance Ratio.

● 安规认证 Certifications



● 产品标志说明 Marking Instruction

MF52 B 103 F 3950 F A CP Z 0180 (T₁)

特殊高性能产品 (常规品: 省略) Special High-Performance Products (Standard products: omitted)

线材长度: 如180mm-0180 Wire Length: e.g., 0180 represents 180mm.

线材长度代码: Z-总长、L-线长 Wire Length Code: Z-Total Length, L-Wire Length

线芯材质: A-CP线 (铜包钢线)、B-铜线
Wire Core Material: A-CP Wire (Copper-clad Steel Wire), B-Copper wire

包封头尺寸代码: 见下表1/表2. Dimensions Code: Refer to Table 1/2 below

B值允许偏差代号(±1%时省略)
Allowable B Value Tolerance Code (Annotation omitted for ±1%)

B值: 3950K B Value: 3950K

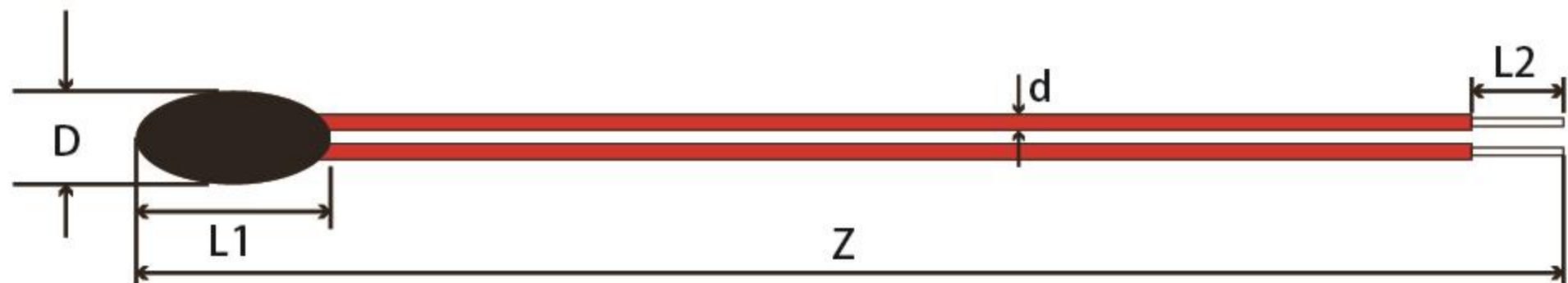
阻值允许偏差代号: F: ±1%, G: ±2%, H: ±3%, J: ±5%
Allowable Resistance Value Tolerance Code: F: ±1%, G: ±2%, H: ±3%, J: ±5%

额定零功率电阻值: 103为10KΩ
Rated Zero-Power Resistance Value: 103 represents 10KΩ

引线漆包线 Wires: Enameled Wires

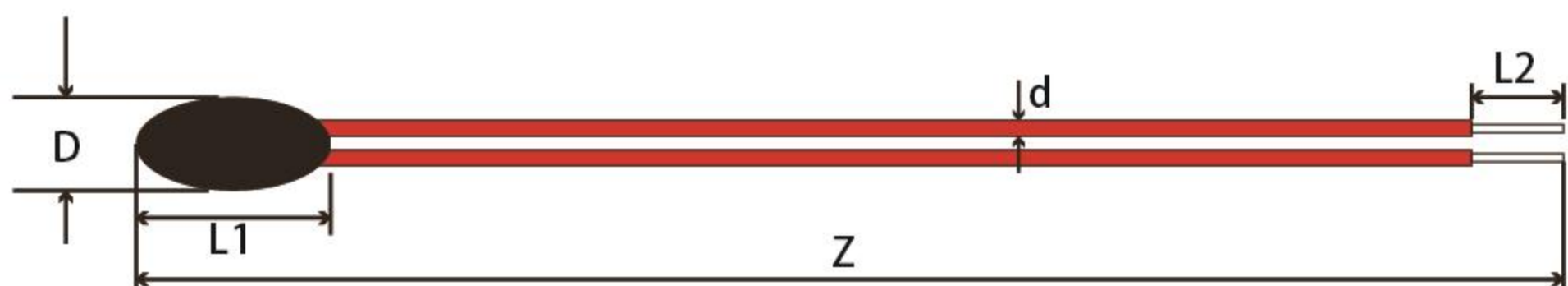
型号:MF52系列 Type:MF52 Series

● 表1：（普通品）外形尺寸代码表 Table 1: (Standard Product) Dimension Code Table (mm)



代码 Code	D(普通) Standard	L1	Z±2	L2±0.5	d	线材种类 Type of wire	25℃时最大额定功率 Max. Power Rating at 25℃	耗散系数约 Dissipation Constant Approx.	热时间常数约 Thermal Time Constant Approx.	工作温度 Operating Temperature
							Pmax (mW)	δ (mW/℃)	τ (s)	
A	1.0 (-0.2/+0)	≤4	35~105	3	0.17	Cp 漆包线 Cp Enameled Wires	3	0.6	2	-40~+125
B	1.0 (-0.05/±0.15)	≤4		2	0.18	Cp 漆包线 Cp Enameled Wires	3	0.6	2	
C	1.2(±0.15)	≤4		2	0.23	Cp/Cu 漆包线 Cp/Cu Enameled Wires	3	0.6	2	
D	1.25 (±0.15)	≤5		2	0.28	Cp/Cu 漆包线 Cp/Cu Enameled Wires	3	0.6	4	
E	1.4 (±0.2)	≤5		2	0.30	Cp/Cu 漆包线 Cp/Cu Enameled Wires	3	0.6	4	
F	1.6 (±0.3)	≤5		2	0.30	Cp/Cu 漆包线 Cp/Cu Enameled Wires	7.5	1.5	7	
G	1.8 (±0.3)	≤5		2	0.30	Cp/Cu 漆包线 Cp/Cu Enameled Wires	10	2.0	10	

● 表2：（特殊高性能产品）外形尺寸代码表 Table 2: (Special High Performance Product) Dimension Code Table (mm)



代码 Code	D(高能) High-Performance	L1	Z±2	L2±0.5	d	线材种类 Type of wire	25℃时最大额定功率 Max. Power Rating at 25℃	耗散系数约 Dissipation Constant Approx.	热时间常数约 Thermal Time Constant Approx.	工作温度 Operating Temperature
							Pmax (mW)	δ (mW/℃)	τ (s)	
H	1.5 (±0.3)	≤6	35~105	2	0.28	Cu 漆包线 Cu Enameled Wires	7.5	1.5	7	-40~+150
I	1.9 (±0.4)	≤6		2	0.30	Cu 漆包线耐高压 Cu Enameled Wires High-Voltage resistant	10	2.0	10	

●表3：高性能产品特殊可靠性指标一览表: Table of Special Reliability Indicators for High-Performance Products

产品代码 Part number	T1（高温/高湿） T1 High Temperature/High Humidity	T2（高温/高压） T2 High Temperature/High Voltage	T2（高温/高湿/高压） T2 High Temperature/High Humidity/High Voltage
	T2 High Temperature/High Humidity/High Voltage	T2 High Temperature/High Humidity/High Voltage	T2 High Temperature/High Humidity/High Voltage
可靠性指标 Reliability indicators	1500VAC 高低温冲击 100次循环 (ΔR/R≤±5%，ΔB/B≤±1%) High-Low Temperature Shock 100 cycles 85℃/85%RH 1000h (ΔR/R≤±5%，ΔB/B≤±1%) 水煮试验 500h (ΔR/R≤±5%，ΔB/B≤±1%) Boiling Test, 500 hours 年漂移率ΔR/R≤±0.1% Annual Drift RateΔR/R≤±0.1%	1500VAC 高低温冲击 100次循环 (ΔR/R≤±5%，ΔB/B≤±1%) High-Low Temperature Shock 100 cycles 85℃/85%RH 1000h (ΔR/R≤±5%，ΔB/B≤±1%) 水煮试验 500h (ΔR/R≤±5%，ΔB/B≤±1%) Boiling Test, 500 hours 年漂移率ΔR/R≤±0.5% Annual Drift RateΔR/R≤±0.5%	1500VAC 高低温冲击 100次循环 (ΔR/R≤±5%，ΔB/B≤±1%) High-Low Temperature Shock 100 cycles 85℃/85%RH 1000h (ΔR/R≤±5%，ΔB/B≤±1%) 水煮试验 500h (ΔR/R≤±5%，ΔB/B≤±1%) Boiling Test, 500 hours 年漂移率ΔR/R≤±0.1% Annual Drift RateΔR/R≤±0.1%
	工作温度范围：-40℃ ~ +150℃，短时间180℃ Operating Temperature Range: -40℃ to 150℃, short term up to 180℃		