



**MF52E 环氧漆包线 NTC 热敏电阻系列**  
**MF52E epoxy enameled wire NTC thermistor series**

环氧漆包线 NTC 热敏电阻是一种树脂密封引线绝缘径向热敏电阻。尺寸小，反应速度快，可广泛用于各种应用。  
**The epoxy enameled wire NTC thermistor is a resin sealed lead insulated radial thermistor. Small size, fast response, wide range of applications.**

■ 用途 Use

空调设备，热水器等各种家用电器家居设备，医疗，防灾，电池，安全设备，OA 设备，安全装置，测量装置，其他温度检测  
 Air conditioners, water heaters, etc. Appliances for home use, medical care, fire protection, batteries, safety devices, OA devices, safety devices, measuring devices, other temperature devices

■ 规格参数 Specifications

型号 Model	零负载电阻 <sup>*1</sup> Zero load resistance			规格温度℃ Specification temperature	B 值参数 <sup>*2</sup> B value parameter	精度偏差 Precision deviation	使用温度范围℃ Operating temperature range
	规格温度 Rating temperature	电阻值 Resistance	精度偏差 Precision deviation				
5K3470	25℃	5KΩ	±1% ±2% ±3% ±5% ±T% <sup>*3</sup>	B25/50	3470	±1% ±2% ±3% ±5% ±T% <sup>*3</sup>	-40~125
10K3380/3435		10KΩ			3380		
10K3500					3435		
10K3950					3500		
10K4100					3950		
15K4150					4100		
2.252K3935		15KΩ			4150		
3K3950		2.252 KΩ			3935		
5K3950		3 KΩ			3950		
50K3950		5 KΩ					
100K3950		50 KΩ					
23K4200		100KΩ					
100K4200		23KΩ					
100K4150		100KΩ			4200		
100K4450					4150		
3.4513K3435	4450						
31.765K4550	50℃	3.4513 KΩ	B25/85	3435			
2.028K4330	50℃	31.765KΩ		4550			
5K3300	86℃	2.028 KΩ		4330			
	25℃	5K		3300			

★上述为部分常规型号，不代表全部参数，可联系咨询。The above is a part of the regular model, does not represent all parameters, can contact us.

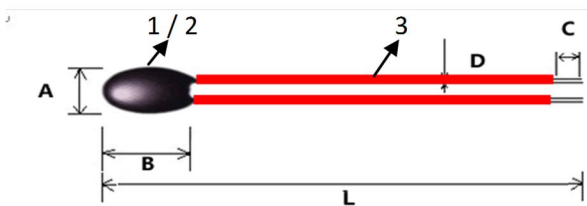
- 耗散系数 Dissipation coefficient: ≈0.9mW/℃
- 热时间常数 Thermal time constant: ≤10s
- 额定功率 Rated power: ≈2.7mW at 25℃
- 耐电压 Withstand voltage: AC300V/1mA/60s
- 绝缘阻抗 Insulation resistance: DC50V/50MΩ/60s

※1: 在指定温度下的零负载电阻 Zero load resistance at specified temperature.

※2: 根据指定温度下的零负载电阻计算 Calculated based on zero load resistance at the specified temperature.

※3: 定制特殊精度 Custom special precision.

## 尺寸参数 Size parameters



1	2	3
芯片 Chip	黑色树脂 Black Resin	红色 CP 漆包引线 Red CP enameled lead

A	B	C	D	L <sup>※4</sup>
Max 3	Max 5	3.0±1	0.33±0.05	40±5
Max 1.5	Max 8	3.0±1	0.33±0.05	40±5

※4: L 尺寸定制长短 L size custom length

## 性能 Performance

试验项目 Pilot projects	试验条件 Test conditions	标准 Standard
可焊性 Solderability	引线浸在 280±5℃ 的锡液里, 时间≥3 秒 The lead is immersed in a tin bath at 280 ± 5 ° C for ≥ 3 seconds	焊锡涂布面积在 80% 以上 Solder coating area is over 80%
耐焊性 Solder resistance	焊接热源距离电阻头 B 距离≥9MM, 280±20℃, 时间≤2 秒 The distance between the welding heat source and the resistance head B is ≥9MM, 280±20° C, time ≤2 seconds	ΔR≤±3% ΔB≤±1%
高温储存 High temperature storage	空气中 100±5℃ 放置 1000 小时 250±5° C in the air for 1000 hours	ΔR≤±3% ΔB≤±1%
低温储存 Low temperature storage	空气中 -10±5℃ 放置 1000 小时 1000 hours at -10 ± 5 ° C in the air	ΔR≤±3% ΔB≤±1%
冷热冲击 Thermal shock	-10±5℃/3 分钟 ↔ 100±5℃/3 分钟 循环 300 次 -10±5° C/3 minutes ↔ 100±5° C/3 minutes Cycle 300 times	ΔR≤±3% ΔB≤±1%
稳态湿热 Steady state damp heat	湿度 85±5%, 85±5℃ 放置 1000 小时 Humidity 85±5%, 85±5° C, 1000 hours	ΔR≤±3% ΔB≤±1%
跌落测试 Drop test	1 米高处自由跌落 3 次 Free fall 3 times at 1 meter height	无可见损伤 No visible damage ΔR≤±3% ΔB≤±1%
拉力测试 Pull test	固定电阻本体, 引线端水平逐渐施加 3N 的拉力, 3 秒 Fixed resistor body, the lead end level gradually applies 3N pulling force, 3 seconds	ΔR≤±3% ΔB≤±1%
弯曲测试 Bending test	电阻引脚弯曲 90 度, 恢复到初始位置, 反复 3 次 The resistance pin is bent 90 degrees and returns to the initial position, repeated 3 times.	ΔR≤±3% ΔB≤±1%
保存/期限 Save/term	(原包装状态) 避免阳光照射, 远离腐蚀、磁场环境 温度: -10 至 35℃ 湿度: 45% 至 75% 保存期: 1 年 (零负载) (Original packaging status) Avoid sunlight, away from corrosion, magnetic field environment, Temperature: -10 to 35 ° C Humidity: 45% to 75% Storage period: 1 year (zero load)	ΔR≤±1% ΔB≤±1%

## 注意事项 Precautions

■ 使用焊料连接引线时, 焊接距离封装末端 9 mm 或更远的距离。

When soldering the leads, solder the distance 9 mm or more from the end of the package.

■ 处理引线时, 将其固定在距离玻璃密封端 9 毫米或更远的位置。When handling the leads, fix them 9 mm or more from the glass seal end.

■ 不可直接使用在潮湿环境下。Cannot be used directly in wet conditions.

■ 参考资料, 以产品最新技术承认书为准。Reference materials, subject to the latest technical recognition of the product.

■ 中英文有分歧, 以中文为准。There are differences between Chinese and English, whichever is Chinese.