

**MF58 玻封二极管式 NTC 热敏电阻系列**  
**MF58 glass-sealed diode type NTC thermistor series**

玻封二极管式热敏电阻采用玻璃密封，是一种高可靠性，高耐热性的轴向热敏电阻，可广泛用于各种应用。

**The glass-sealed diode thermistor is a glass-sealed, high-reliability, high-heat-resistance axial thermistor that can be used in a wide variety of applications.**



**■ 用途 Use**

空调设备，热水器，微波炉，冰箱，电磁炉等各种家用电器家居设备，太阳能系统，自动售货机，冷冻陈列柜等  
 Air conditioning equipment, water heaters, microwave ovens, refrigerators, induction cookers and other household appliances, solar energy systems, vending machines, frozen display cabinets, etc.

**■ 规格参数 Specifications**

| 型号<br>Model  | 零负载电阻 <sup>*1</sup><br>Zero load resistance |                   |   | 规格温度 <sup>°C</sup><br>Specification temperature | B 值参数 <sup>*2</sup><br>B value parameter      | 精度偏差<br>Precision deviation                   | 使用温度范围 <sup>°C</sup><br>Operating temperature range |   |   |         |                |   |         |      |
|--------------|---|-------------------|---|---|---|---|---|---|---|---------|----------------|---|---------|------|
|              | 规格温度<br>Rating temperature                  | 电阻值<br>Resistance | 精度偏差<br>Precision deviation                   |   |   |   |   |   |   |         |                |   |         |      |
| 5K3440       | 25 <sup>°C</sup>                            | 5K $\Omega$       | ±1%<br>±2%<br>±3%<br>±5%<br>±T% <sup>*3</sup> | B25/50  | 3440  | ±1%<br>±2%<br>±3%<br>±5%<br>±T% <sup>*3</sup> | -40~250   |   |   |         |                |   |         |      |
| 10K3380/3435 |   | 10K $\Omega$      |   | B25/50  | 3380  |   |   |   |   |         |                |   |         |      |
| 10K3470      |   |                   |   | B25/85  | 3435  |   |   |   |   |         |                |   |         |      |
| 10K3950      |   |                   |   | B25/50  | 3470  |   |   |   |   |         |                |   |         |      |
| 5.91K3820    | 85 <sup>°C</sup>                            |                   |   | 5.91K $\Omega$                                  | B25/85  |   |   | 3820  |   |         |                |   |         |      |
| 50K3820      | 25 <sup>°C</sup>                            | 50K $\Omega$      |   | ±1%<br>±2%<br>±3%<br>±5%<br>±T% <sup>*3</sup>   | B25/50  |   |   | 3950  | ±1%<br>±2%<br>±3%<br>±5%<br>±T% <sup>*3</sup> | -40~250 |                |   |         |      |
| 50K3950      |   | 100K $\Omega$     |   |   |   |   |   |   |   |         |                |   |         |      |
| 100K3950     |   | 100K $\Omega$     |   |   |   |   |   |   |   |         |                |   |         |      |
| 5.49K3950    |   | 106 <sup>°C</sup> |   |   |   |   |   |   |   |         | 5.49K $\Omega$ |   |         |      |
| 100K3990     | 25 <sup>°C</sup>                            | 100K $\Omega$     |   |   | ±1%<br>±2%<br>±3%<br>±5%<br>±T% <sup>*3</sup> |   |   | B25/50  |   |         | 3990           | ±1%<br>±2%<br>±3%<br>±5%<br>±T% <sup>*3</sup> | -40~250 |      |
| 100K4150     |   |                   |   |   |   |   |   |   |   |         |                |   |         | 4150 |
| 100K4200     |   |                   |   |   |   |   |   |   |   |         |                |   |         | 4200 |
| 260K4250     |   |                   | 260K $\Omega$                                 |   |   | 4250  |   |   |   |         |                |   |         |      |
| 1K4595       | 200 <sup>°C</sup>                           | 1K $\Omega$       | ±1%<br>±2%<br>±3%<br>±5%<br>±T% <sup>*3</sup> |   |   | B100/200                                      | 4025  | ±1%<br>±2%<br>±3%<br>±5%<br>±T% <sup>*3</sup> |   |         | -40~250        |   |         |      |
| 6.6K4025     | 100 <sup>°C</sup>                           | 6.6K $\Omega$     |   |   |   |   |   |   |   |         |                |   |         |      |
| 3.4513K4300  | 114 <sup>°C</sup>                           | 3.4513K $\Omega$  |   |   |   | B25/85  |   |   |   |         |                |   |         | 4300 |
| 200K4325     | 25 <sup>°C</sup>                            | 200 K $\Omega$    |   |   |   |   |   |   |   |         |                |   |         | 4325 |

★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.

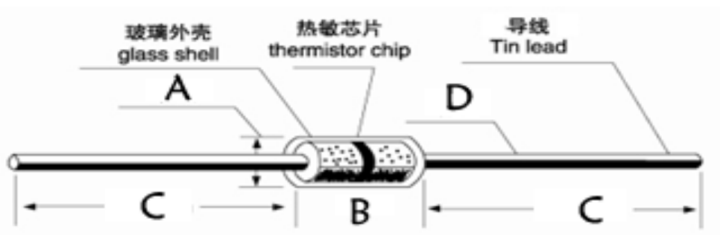
- 耗散系数 Dissipation coefficient:  $\approx 2.5\text{mW}/^{\circ}\text{C}$
- 热时间常数 Thermal time constant:  $\leq 8\text{s}$
- 额定功率 Rated power:  $\approx 7.5\text{mW}$  at 25<sup>°C</sup>
- 耐电压 Withstand voltage: AC300V/1mA/60s
- 绝缘阻抗 Insulation resistance: DC50V/50M $\Omega$ /60s

※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 (mm)



| A       | B       | C    | D        |
|---------|---------|------|----------|
| 1.8±0.2 | 3.8±0.5 | 28±2 | 0.5±0.05 |

## 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<br>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<br>The distance between the welding heat source and the resistance head B is ≥9MM, 280±20° C, time ≤2 seconds   | ΔR≤±3%<br>ΔB≤±1%                                 |
| 高温储存<br>High temperature storage | 空气中 200±5℃ 放置 1000 小时<br>200±5° C in the air for 1000 hours   | ΔR≤±3%<br>ΔB≤±2%                                 |
| 低温储存<br>Low temperature storage  | 空气中-10±5℃ 放置 1000 小时<br>1000 hours at -10 ± 5 ° C in the air  | ΔR≤±3%<br>ΔB≤±2%                                 |
| 冷热冲击 Thermal shock               | -10±5℃/3 分钟 ↔ 100±5℃/3 分钟 循环 300 次<br>-10±5° C/3 minutes ↔ 100±5° C/3 minutes Cycle 300 times   | ΔR≤±3%<br>ΔB≤±1%                                 |
| 稳态湿热<br>Steady state damp heat   | 湿度 85±5%, 85±5℃ 放置 1000 小时<br>Humidity 85±5%, 85±5° C, 1000 hours   | ΔR≤±3%<br>ΔB≤±2%                                 |
| 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<br>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<br>Fixed resistor body, the lead end level gradually applies 3N pulling force, 3 seconds  | ΔR≤±3%<br>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<br>The resistance pin is bent 90 degrees and returns to the initial position, repeated 3 times.  | ΔR≤±3%<br>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<br>温度: -10 至 35℃ 湿度: 45%至 75% 保存期: 1 年 (零负载)<br>(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%<br>ΔB≤±1%                                 |

## 注意事项 Precautions

■ 使用焊料连接引线时, 焊接距离玻璃封条末端 9 mm 或更远的距离。

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

■ 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.