

SURGiNG

紹 鑫 實 業



Thermistor

热敏电阻

MF58D Series

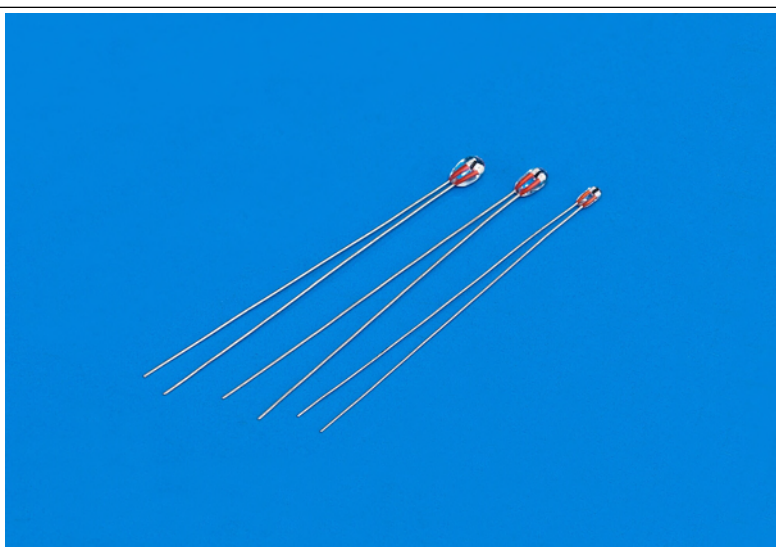
MF58D 系列玻壳精密型

NTC 热敏电阻器

- 用于温度测量及控制

MF58D series glass bulb precise NTC thermistor

- applied for temperature measuring and controlling



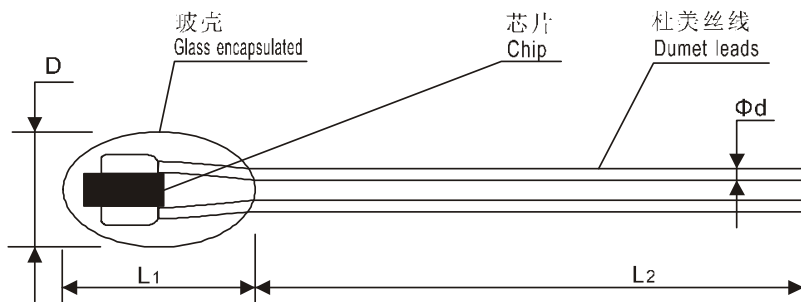
产品特点 PRODUCT FEATURES

1. MF58D 系列产品为径向引线单端玻璃封装型 radial lead wire single ended glass encapsulation
2. 稳定性好、可靠性高 excellent stability and reliability
3. 阻值范围宽: 2~5000 K Ω resistance range 2~5000 K Ω
4. 阻值及 B 值精度高 accurate B value
5. 玻璃封装, 可在高温和高湿等恶劣环境下使用 glass encapsulation, working at high temperature and moisture environment is available
6. 体积小、结构坚固、便于自动化安装 small size, sturdy construction, easy for automatic installation
7. 使用温度范围-40~+300 $^{\circ}\text{C}$ temperature range:-40~+300 $^{\circ}\text{C}$
8. 额定功率: $\leq 25\text{mW}$ rated power: $\leq 25\text{mW}$
9. 热感应快、灵敏度高 fast thermoinduction, excellent sensitivity

应用范围 APPLICATION

1. 电磁炉、电压力锅、电饭锅、电烤箱、消毒柜、微波炉、电暖炉等家用电器的温度控制及温度检测 temperature measuring and controlling of house appliance such as induction cooker, electric pressure cooker and so on
2. 数显温度计: 如烧烤叉、温控器 digital thermometer such as barbecue fork, temperature controller
3. 工业、医疗、环保、气象、食品加工设备的温度控制与检测 industry, medical ,environmental equipment temperature measuring and controlling

产品外形结构图 OVERALL STRUCTURE



| | D | L1 | L2 ± 5 | d ± 0.05 |
|--------|-----------|-----------|--------|----------|
| A Type | 1.3 ± 0.2 | 2.8Max | 65 | 0.2 |
| B Type | 1.8 ± 0.2 | 3.4 ± 0.5 | 65 | 0.25 |
| D Type | 1.6 ± 0.2 | 3.4 ± 0.5 | 65 | 0.20 |

Unit: mm

产品型号说明 MARKING OF PART NUMBER

MF58 D - 231.5K □ 4537 □ C (R200= 1K ± □) □

Glass encapsulated NTC
 玻壳精密型 NTC 热敏电阻器

Category: D-Radial glass encapsulated
 类型: D- 单端玻封型

R25 resistance : 103-10K Ω 104-100 K Ω 231.5-231.5 K Ω
 标称阻值 R25: 103-10K Ω 104-100 K Ω 231.5-231.5 K Ω

Tolerance: F-±1% G-±2% H-±3% J-±5%
 X- R25tolerance, for reference only
 允差范围: F-±1% G-±2% H-±3% J-±5% X- R25 允差仅供参考

B Value: 3435-3435K 3950-3950K 4300-4300K 4537-4537K
 B 值 : 3435-3435K 3950-3950K 4300-4300K 4537-4537K

The head size of encapsulation :
 A-1.3mm B-1.8mm
 封装头部尺寸:
 A-1.3mm B-1.8mm

Specific temperature and tolerance
 R200=1K ± 2%: means R=1K ± 2%
 at temperature 200°C
 No Specific resistance requirement
 if there is no

特定温度标称阻值及允差范围:
 R200=1K ± 2%: 表示特定温度点 200°C 时,
 电阻为 1K ± 2%
 无标注: 表示除 R25 外无特定温度点阻值要求

B Value Category: A-25/50 B-25/85 C-100/200
 B 值类型: A-25/50 B-25/85 C-100/200

B Value Tolerance: F-±1% G-±2% H-±3%
 B 值允差: F-±1% G-±2% H-±3%

规格表 SPEC.Table

| Part Number 型号 | Resistance @25 额定电阻值 (R25) | | B Value B 值 | | Specific parameters 特定参数 (K Ω) | Operating Temperature 工作温度 (°C) | Dissipation Factor 耗散系数 (mW/°C) | Thermal Time Constant 热时间常数 (S) |
|--|-------------------------------|---------------------------|-----------------------|---------------------------|--------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| | Resistance 电阻值 (K Ω) | Tolerance 允许偏差 (±%) | B Value 标称值 (K) | Tolerance 允许偏差 (±%) | | | | |
| MF58D-2.186K □ 3420 □ B (R0=6K ± □) □ | 2.186 | 1、2、3、5 | 3420 | 1、2、3 | R0= 6.0 | -40°C ~ +300 | ≥ 2.0 静止空气中 | ≤ 6.5 静止空气中 |
| MF58D-8.53K □ 3450 □ D | 8.53 | | 3450 | | R50=3.485 | | | |

| | | | | | | | |
|---|-------|--|------|--|-------------------------|--|--|
| (R50=3.485K±□) □ | | | | | | | |
| MF58D-103□3950□A□ | 10 | | 3950 | | | | |
| MF58D-103□3435□B□ | 10 | | 3435 | | | | |
| MF58D-49.12K□3970□D (R100=3.3K±□) □ | 49.12 | | 3970 | | R ₁₀₀ =3.3 | | |
| MF58D-503□3950□A□ | 50 | | 3950 | | | | |
| MF58D-503□4036□D□ | 50 | | 4036 | | | | |
| MF58D-98.63K□4300□C (R200=0.55K±□) □ | 98.63 | | 4300 | | R ₂₀₀ =0.55 | | |
| MF58D-104□3950□A□ | 100 | | 3950 | | | | |
| MF58D-104□4200□A□ | 4200 | | 4200 | | | | |
| MF58D-204□3899□A (R175=2.109K±□) □ | 200 | | 4230 | | R ₁₇₅ =2.109 | | |
| MF58D-231.5K□4537□C (R200=1K±□) □ | 231.5 | | 4537 | | R ₂₀₀ =1.0 | | |

注 1: 当有除 R₂₅ 以外特定温度点阻值要求时, 第一方框填写标称阻值的精度代号, 第二方框填写 B 值的精度代号, 第三个方框填写关键温度阻值允差范围, 第四个方框填写封装头部尺寸大小代号。

Note1: when specific temperature point resistance excepting R₂₅ is required, filling accuracy code in 1st box, B value in 2nd box and temperature resistance tolerance in 3rd box.

注 2: 当无特定温度点阻值要求时, 第一方框填写标称阻值的精度代号, 第二方框填写 B 值的精度代号, 第三个方框填写封装头部尺寸大小代号。

Note2: when non specific requirement, filling accuracy code in 1st box, B value in 2nd box and encapsulation head size in 3rd.