



### 负温度系数(NTC)热敏电阻器

### Negative temperature coefficient (NTC) thermistor

#### MF59玻璃壳片式NTC热敏电阻系列

MF59 Glass Shell SMD NTC Thermistor Series



#### ● 特点 Characteristics

- 玻璃封装, 可在高温和高湿等恶劣环境下使用
- 测温精度高、稳定性好、阻值范围宽
- 体积小、反应速度快、灵敏度高
- 无引线, 便于SMT自动化安装
- Glass encapsulation, capability of operating in the bad environment of high temperature and high humidity because of the glass encapsulation framework.
- High precision of temperature testing, good stability and broad range of resistance.
- Small size, fast response, high sensitivity.
- Without leads, convenient for SMT automatic installation.

#### ● 应用范围 Applications

- 办公自动化设备(如笔记本电脑、复印机、打印机等)
- 数码设备(移动电话、PDA等)
- 可充电电池(锂电池、镍氢电池等)
- 仪表线圈、集成电路、石英晶体振荡器的温度补偿
- Automatic work facilities (such as lap-top, copycat, printer and so on)
- Digital equipment(such as mobile phone, PDA and etc.)
- Rechargeable battery (lithium battery, ni-mh battery)
- Temperature compensation of loops of instrument, integrated circuit, quartz crystal monofier and thermocouple.

#### ● 主要技术参数 Main techno-parameter

- 额定零功率电阻值范围( $R_{25}$ ): 0.1~1000K $\Omega$
- $R_{25}$ 允许偏差:  $\pm 1\%$ 、 $\pm 2\%$ 、 $\pm 3\%$ 、 $\pm 5\%$ 、 $\pm 10\%$
- B值允许偏差:  $\pm 0.5\%$ 、 $\pm 1\%$ 、 $\pm 2\%$
- 耗散系数:A型 $\geq 2\text{mW}/^\circ\text{C}$ (在静止空气中)、B型 $\geq 1\text{mW}/^\circ\text{C}$ (在静止空气中)
- 热时间常数: A型 $\leq 10\text{S}$ (在静止空气中)、B型 $\leq 5\text{S}$ (在静止空气中)
- 工作温度范围:  $-55\sim 220^\circ\text{C}$
- $25^\circ\text{C}$ 额定功率: A型 $\leq 10\text{mW}$ 、B型 $\leq 5\text{mW}$
- The range of resistance under the rated zero power( $R_{25}$ ): 0.1~1000K $\Omega$
- The allowable tolerance of  $R_{25}$ :  $\pm 1\%$ 、 $\pm 2\%$ 、 $\pm 3\%$ 、 $\pm 5\%$ 、 $\pm 10\%$
- The allowable tolerance of B value:  $\pm 0.5\%$ 、 $\pm 1\%$ 、 $\pm 2\%$
- Dissipation factor: model A $\geq 2\text{mW}/^\circ\text{C}$ (in still air), model B $\geq 1\text{mW}/^\circ\text{C}$ (in still air)
- Thermal time constant: model A $\leq 10\text{S}$ (in still air), model B $\leq 5\text{S}$ (in still air)
- operating temperature range:  $-55^\circ\text{C}\sim 220^\circ\text{C}$
- Rated power at  $25^\circ\text{C}$ : model A $\leq 10\text{mW}$ , model B $\leq 5\text{mW}$

#### ● 产品标志说明Specification



B值允许偏差代号 The allowable tolerance of B value E:  $\pm 0.5\%$ 、F:  $\pm 1\%$ 、G:  $\pm 2\%$

B值: 为3950K/ B value: Namely 3950K

阻值允许偏差代号: Allowable tolerance code: F:  $\pm 1\%$ 、G:  $\pm 2\%$ 、H:  $\pm 3\%$ 、J:  $\pm 5\%$ 、K:  $\pm 10\%$

标称电阻值: 103为10K $\Omega$ /rated resistance:103 is 10 K $\Omega$

外形尺寸代号: A型/configuration and code: Model A

型号: 为玻璃壳片式NTC热敏电阻器  
Type: chip glass shell NTC thermistor

型号type	长L (mm) length(mm)	直径D(mm) diameter(mm)
MF59A	3.6 $\pm$ 0.2	1.5 $\pm$ 0.2
MF59B	1.8 $\pm$ 0.2	1.1 $\pm$ 0.2

#### ● 外形尺寸(单位mm) Dimensions(unit: mm)

