

负温度系数(NTC)热敏电阻器

Negative Temperature Coefficient (NTC) Thermistor

MF51E测温型 (电子体温计专用) NTC热敏电阻器系列

MF51E Series Temperature-Measurement NTC Thermistor (Designed for Electronic Thermometers)

● 应用范围

- 电子体温计
- 医疗设备

● Applications

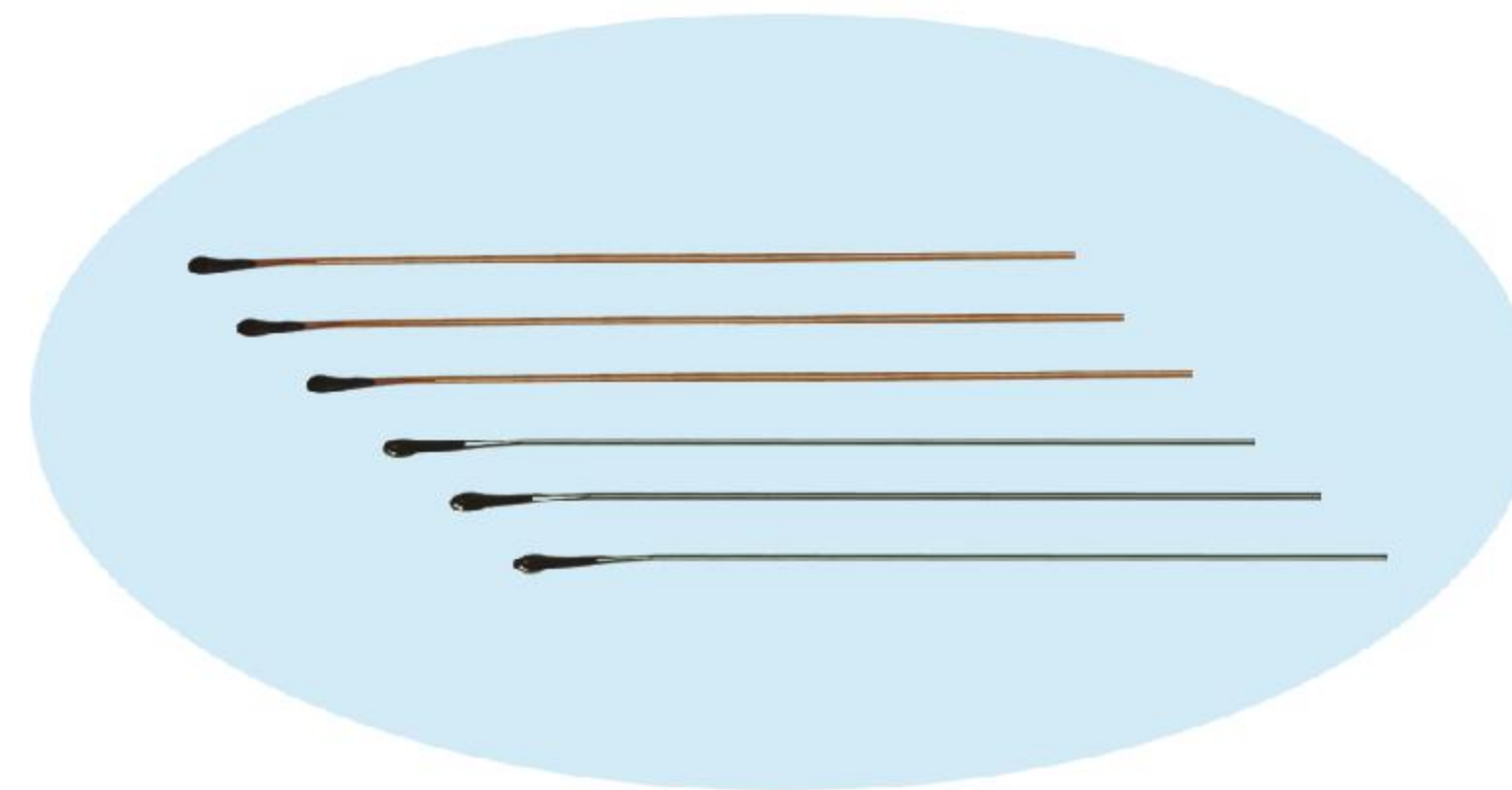
- Electronic Thermometers
- Medical Devices

● 特点

- 体积小、重量轻
- 热感应快、灵敏度高
- 结构稳定、可靠性高
- 阻值精度高、一致性好

● Features

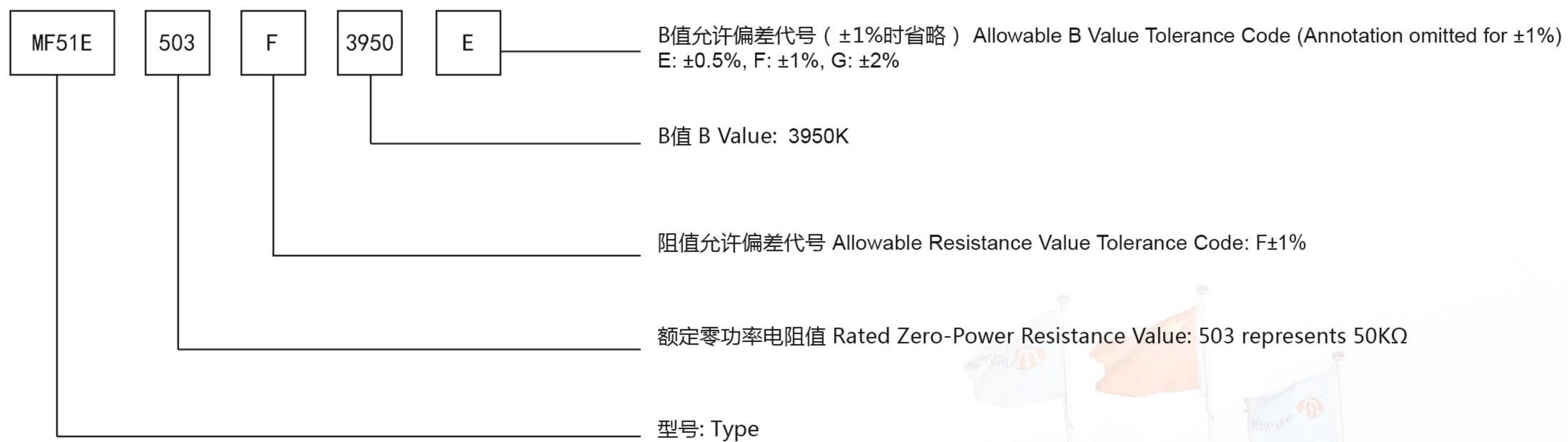
- Compact Size, Lightweight.
- Fast Thermal Response, High Sensitivity.
- Stable Structure, High Reliability.
- High Resistance Accuracy, Good Consistency.



国家创新基金立项产品  
National Innovation Fund Project Product

江苏省高新技术产品  
High-Tech Product in Jiangsu Province

● 产品标志说明 Marking Instruction



● 外形尺寸 Dimensions (mm)



外形尺寸 Dimension	D max	L1 max	L±3	L2±1	d±0.01
常规尺寸 Standard Dimensions	0.7	2.0	100	3	0.1
	1.1	4.0	87/100	3	0.18
特殊尺寸 Custom Dimensions	用户确定 To be determined by the user				

头部水滴形，径向引出线，表面涂覆(或包封)绝缘结构  
Droplet-shaped head with radially extended leads, surface covered (or encapsulated) in insulating material.

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**● 主要技术参数 Main Technical Specifications**

工作温度 Operating Temperature (°C): -40 ~ +100°C

型号 Part No.	25°C的零功率电阻值 Zero-Power Resistance at 25°C R25		B值(25/50°C) B Value (25/50°C)		耗散系数约 Dissipation Constant Approx.	热时间常数约 Thermal Time Constant Approx.	25°C时最大额定功耗 Max. Power Rating at 25°C
	阻值范围 Range (KΩ)	允许偏差 Allowable Tolerance (%)	阻值范围 Range (KΩ)	允许偏差 Allowable Tolerance (%)	δ (mW/°C)	τ(s)	Pmax (mW)
MF51E□□3270	0.2 ~ 20	E: ±0.5 F: ±1 G: ±2 H: ±3 J: ±5	3270	E: ±0.5 F: ±1	约0.5mW/°C (头部 ≤ 0.7mm 在油中) About 0.5mW/°C (Head ≤ 0.7mm in oil)	约0.6s (头部 ≤ 0.7mm 在油中) About 0.6 (Head ≤ 0.7mm in oil)	3.5
MF51E□□3380	0.5 ~ 50		3380				
MF51E□□3470	0.5 ~ 50		3470				
MF51E□□3600	1 ~ 100		3600				
MF51E□□3950	5 ~ 100		3950				
MF51E□□4000	5 ~ 100		4000				
MF51E□□4050	5 ~ 200		4050				
MF51E□□4150	10 ~ 250		4150				
MF51E□□4300	20 ~ 1000		4300				
MF51E□□4500	20 ~ 1000		4500				

**● 对于MF51E 503F3950, 详细参数如下 For MF51E 503F3950, detailed parameters are as follows**

MF51E 503F3950 37°C±0.01°C 电阻分档表 Resistance Calibration Table at 37°C±0.01°C

档 位 Calibration	阻值 Resistance (KΩ)			档 位 Calibration	阻值 Resistance (KΩ)			档 位 Calibration	阻值 Resistance (KΩ)		
	最小值min	中间值mid	最大值max		最小值min	中间值mid	最大值max		最小值min	中间值mid	最大值max
A	29.614	29.629	29.644	L	29.955	29.970	29.985	W	30.296	30.311	30.326
B	29.645	29.660	29.675	M	29.986	30.001	30.016	X	30.327	30.342	30.357
C	29.676	29.691	29.706	N	30.017	30.032	30.047	Y	30.358	30.373	30.388
D	29.707	29.722	29.737	O	30.048	30.063	30.078	Z	30.389	30.404	30.419
E	29.738	29.753	29.768	P	30.079	30.094	30.109	AI	30.420	30.435	30.450
F	29.769	29.784	29.799	Q	30.110	30.125	30.140	A2	30.451	30.466	30.481
G	29.800	29.815	29.830	R	30.141	30.156	30.171	A3	30.482	30.497	30.512
H	29.831	29.846	29.861	S	30.172	30.187	30.202	C1	29.521	29.536	29.551
I	29.862	29.877	29.892	T	30.203	30.218	30.233	C2	29.552	29.567	29.582
J	29.893	29.908	29.923	U	30.234	30.249	30.264	C3	29.583	29.598	29.613
K	29.924	29.939	29.954	V	30.265	30.280	30.295				