



SPECIFICATIONS

產 品 規 格 書

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SPECIFICATION

1. Scope

This specification deals with shape,dimensions,characteristics,inspection standard etc.

2. Specifications

2.1 Item: Thermistor,No.: [MEB-303F3950](#)

2.2 Characteristics

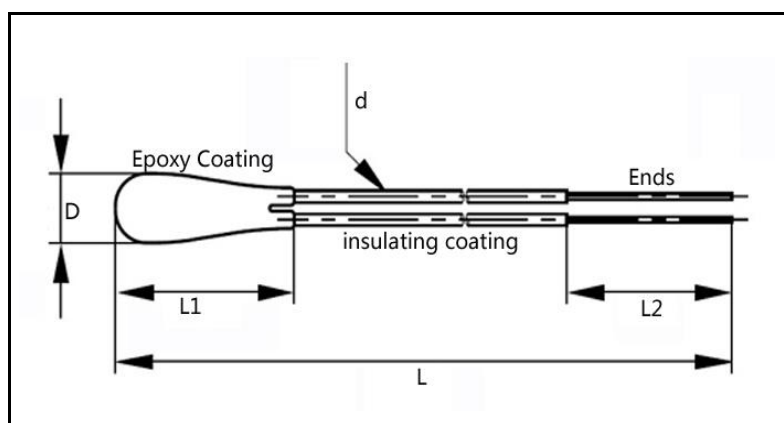
Item	Test Condition	Min.	Mid.	Max.	Unit
Resistance at 25℃	25℃±0.005℃	29.7	30	30.3	KΩ
B value	B25/50	3910	3950	3989	K
Insulation resistance	DC100v	100	/	/	MΩ
Thermal time constant	In still air	/	/	3	S
Thermal dissipation constant	In still air	0.7	/	/	mW/℃
Maximum power rating	25℃	/	/	50	mW/℃
Operating temperature range	/	-30	/	110	℃

2.3、Material of parts

Head: Epoxy resin encapsulated

Leads : enameled wire

Dimensions-mm		
D ±0.1	0.8 ~ 1.6	mm
L 1 ±0.1	2 ~ 4	mm
L ±1	25 ~ 120	mm
L 2 ±1	3	mm
d±0.01	0.1 ~ 0.3	mm



3. Reliability

	Item	Specification	Method of Examination
1	High temp. storage	*ΔR25/R25 < ±1%	1000Hours under 100℃
2	Low temp. storage		1000Hours under -30℃
3	Temperature & humidity		1000hours under 60℃95%RH
4	Thermal shock	*ΔR25/R25 < ±1%	100 times cycling test: -30℃ 10mins - Room Temperature(RT) 5 mins-100℃ 10mins-RT 5mins
5	Vibration	No visible damage	With 1.5mm amplitude from 50Hz to 500Hz The thermistor is vibrated at X and Y with 6 mins respectively
6	Pulling		With 2.0N pulling along the leads, holding for 60s
7	Fall down		Falling down from 1M onto wooden board for 10 times

RESISTANCE-TEMPERATURE CHARACTERISTICS

R₂₅ : 30.0000 Kohms**B_{25/50} : 3950**

T(°C)	Rmax	Rnor	Rmin	T(°C)	Rmax	Rnor	Rmin
-66	---	---	---	-30	---	---	---
-65	---	---	---	-29	---	---	---
-64	---	---	---	-28	---	---	---
-63	---	---	---	-27	---	---	---
-62	---	---	---	-26	---	---	---
-61	---	---	---	-25	---	---	---
-60	---	---	---	-24	---	---	---
-59	---	---	---	-23	---	---	---
-58	---	---	---	-22	---	---	---
-57	---	---	---	-21	---	---	---
-56	---	---	---	-20	---	289.7470	---
-55	---	---	---	-19	---	273.4670	---
-54	---	---	---	-18	---	258.2030	---
-53	---	---	---	-17	---	243.8860	---
-52	---	---	---	-16	---	230.4510	---
-51	---	---	---	-15	---	217.8380	---
-50	---	---	---	-14	---	205.9930	---
-49	---	---	---	-13	---	194.8650	---
-48	---	---	---	-12	---	184.4050	---
-47	---	---	---	-11	---	174.5700	---
-46	---	---	---	-10	---	165.3190	---
-45	---	---	---	-9	---	156.6140	---
-44	---	---	---	-8	---	148.4190	---
-43	---	---	---	-7	---	140.7020	---
-42	---	---	---	-6	---	133.4320	---
-41	---	---	---	-5	---	126.5810	---
-40	---	---	---	-4	---	120.1210	---
-39	---	---	---	-3	---	114.0300	---
-38	---	---	---	-2	---	108.2820	---
-37	---	---	---	-1	---	102.8580	---
-36	---	---	---	0	---	97.7379	---
-35	---	---	---	1	---	92.9016	---
-34	---	---	---	2	---	88.3325	---
-33	---	---	---	3	---	84.0143	---
-32	---	---	---	4	---	79.9310	---
-31	---	---	---	5	---	76.0710	---

RESISTANCE-TEMPERATURE CHARACTERISTICS

R₂₅ : 30.0000 Kohms**B_{25/50} : 3950**

T(°C)	Rmax	Rnor	Rmin	T(°C)	Rmax	Rnor	Rmin
6	---	72.4186	---	42	---	14.7220	---
7	---	68.9622	---	43	---	14.1470	---
8	---	65.6900	---	44	---	13.5973	---
9	---	62.5919	---	45	---	13.0714	---
10	---	59.6570	---	46	---	12.5684	---
11	---	56.8760	---	47	---	12.0872	---
12	---	54.2400	---	48	---	11.6269	---
13	---	51.7410	---	49	---	11.1863	---
14	---	49.3700	---	50	---	10.7645	---
15	---	47.1222	---	51	---	10.3607	---
16	---	44.9883	---	52	---	9.9740	---
17	---	42.9626	---	53	---	9.6037	---
18	---	41.0392	---	54	---	9.2489	---
19	---	39.2130	---	55	---	8.9088	---
20	---	37.4770	---	56	---	8.5829	---
21	---	35.8280	---	57	---	8.2704	---
22	---	34.2600	---	58	---	7.9708	---
23	---	32.7680	---	59	---	7.6835	---
24	---	31.3500	---	60	---	7.4079	---
25	---	30.0000	---	61	---	7.1435	---
26	---	28.7160	---	62	---	6.8898	---
27	---	27.4940	---	63	---	6.6462	---
28	---	26.3300	---	64	---	6.4125	---
29	---	25.2210	---	65	---	6.1880	---
30	---	24.1650	---	66	---	5.9724	---
31	---	23.1590	---	67	---	5.7653	---
32	---	22.1990	---	68	---	5.5664	---
33	---	21.2840	---	69	---	5.3753	---
34	---	20.4120	---	70	---	5.1915	---
35	---	19.5800	---	71	---	5.0149	---
36	---	18.7859	---	72	---	4.8451	---
37	---	18.0283	---	73	---	4.6819	---
38	---	17.3050	---	74	---	4.5248	---
39	---	16.6144	---	75	---	4.3739	---
40	---	15.9540	---	76	---	4.2286	---
41	---	15.3248	---	77	---	4.0888	---

RESISTANCE-TEMPERATURE CHARACTERISTICS

R₂₅ : 30.0000 Kohms**B_{25/50} : 3950**

T(°C)	Rmax	Rnor	Rmin	T(°C)	Rmax	Rnor	Rmin
78	---	3.9542	---	114	---	1.3043	---
79	---	3.8246	---	115	---	1.2678	---
80	---	3.6998	---	116	---	1.2325	---
81	---	3.5797	---	117	---	1.1983	---
82	---	3.4640	---	118	---	1.1652	---
83	---	3.3526	---	119	---	1.1331	---
84	---	3.2450	---	120	---	1.1020	---
85	---	3.1417	---	121	---	1.0720	---
86	---	3.0421	---	122	---	1.0428	---
87	---	2.9459	---	123	---	1.0146	---
88	---	2.8533	---	124	---	0.9873	---
89	---	2.7640	---	125	---	0.9607	---
90	---	2.6778	---	126	---	0.9351	---
91	---	2.5947	---	127	---	0.9102	---
92	---	2.5144	---	128	---	0.8860	---
93	---	2.4371	---	129	---	0.8626	---
94	---	2.3625	---	130	---	0.8399	---
95	---	2.2905	---	131	---	0.8179	---
96	---	2.2210	---	132	---	0.7965	---
97	---	2.1538	---	133	---	0.7758	---
98	---	2.0890	---	134	---	0.7558	---
99	---	2.0265	---	135	---	0.7363	---
100	---	1.9660	---	136	---	0.7173	---
101	---	1.9077	---	137	---	0.6990	---
102	---	1.8512	---	138	---	0.6812	---
103	---	1.7967	---	139	---	0.6639	---
104	---	1.7440	---	140	---	0.6471	---
105	---	1.6932	---	141	---	0.6308	---
106	---	1.6440	---	142	---	0.6150	---
107	---	1.5964	---	143	---	0.5996	---
108	---	1.5504	---	144	---	0.5847	---
109	---	1.5059	---	145	---	0.5702	---
110	---	1.4628	---	146	---	0.5561	---
111	---	1.4212	---	147	---	0.5424	---
112	---	1.3810	---	148	---	0.5291	---
113	---	1.3420	---	149	---	0.5162	---

RESISTANCE-TEMPERATURE CHARACTERISTICS

R₂₅ : 30.0000 Kohms**B_{25/50} : 3950**

T(°C)	Rmax	Rnor	Rmin		T(°C)	Rmax	Rnor	Rmin
150	---	0.5037	---		186	---	0.2203	---
151	---	0.4914	---		187	---	0.2156	---
152	---	0.4796	---		188	---	0.2110	---
153	---	0.4680	---		189	---	0.2066	---
154	---	0.4569	---		190	---	0.2023	---
155	---	0.4459	---		191	---	0.1980	---
156	---	0.4353	---		192	---	0.1939	---
157	---	0.4250	---		193	---	0.1899	---
158	---	0.4150	---		194	---	0.1860	---
159	---	0.4053	---		195	---	0.1821	---
160	---	0.3958	---		196	---	0.1784	---
161	---	0.3865	---		197	---	0.1747	---
162	---	0.3775	---		198	---	0.1711	---
163	---	0.3688	---		199	---	0.1677	---
164	---	0.3603	---		200	---	0.1643	---
165	---	0.3520	---		201	---	0.1610	---
166	---	0.3439	---		202	---	0.1578	---
167	---	0.3361	---		203	---	0.1546	---
168	---	0.3285	---					
169	---	0.3210	---					
170	---	0.3138	---					
171	---	0.3067	---					
172	---	0.2998	---					
173	---	0.2932	---					
174	---	0.2866	---					
175	---	0.2803	---					
176	---	0.2741	---					
177	---	0.2681	---					
178	---	0.2622	---					
179	---	0.2565	---					
180	---	0.2509	---					
181	---	0.2455	---					
182	---	0.2402	---					
183	---	0.2350	---					
184	---	0.2300	---					
185	---	0.2251	---					

热敏电阻(Thermistor)是对热敏感的半导体电阻(Thermal Sensitive Resistor)，其阻值随温度变化而发生非常显著变化的半导体。一般而言分为两大类。一类是电阻值随温度升高而升高的 PTC (Postive Temperature Coefficient) 热敏电阻。另一类是电阻值随温度升高而降低的 NTC (Negative Temperature Coefficient) 热敏电阻。本目录说明仅限于NTC 热敏电阻。

A thermistor is "a thermally sensitive resistor" that is a semiconductor whose resistance varies significantly with temperature. In general, there are two types thermal sensitive resistor. One is PTC (Postive Temperature Coefficient); the resistance increases as temperature increases. The other is NTC (Negative Temperature Coefficient); the resistance decreases as temperature increases. The following description is applicable only to NTC thermistors.

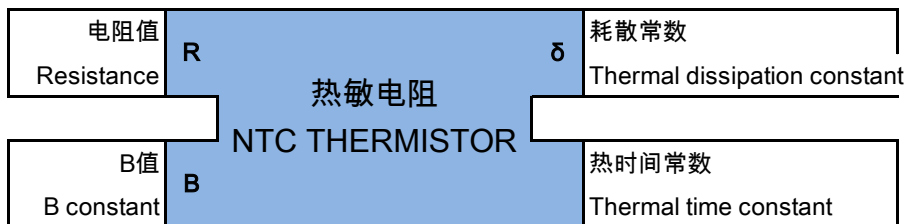
热敏电阻是应用于信息系统与控制系统的敏感元件，主要用于对温度的测量、控制、保护及用作加热器。热敏电阻是一种由锰、铜、硅、钴、镍、铁、锌等多种金属氧化物为原料烧结而成的陶瓷半导体感热晶体。使用温度在-50 ~ +1000℃之间，涵盖了日常温度控制所需的温度范围。热敏电阻体积小、稳定性好且响应性高，在国防、工控、通信、汽车、航天等领域以及日常家电中得到了广泛的应用。

NTC thermistor is an sensitive elements widely used in information system and control system, which is mainly used for temperature measurements, control, protection and heating. Thermistors are thermally sensitive elements of sintered fine ceramic semiconductor composed of several transition metal oxides, primarily Mn, Co and Ni. Their operating temperature range is from -50℃ to +1000℃ that covers the whole range necessary for ordinary temperature control. They are also small, stable and have great sensitivity. Thanks to these features, they are used in large quantities as temperature sensors and temperature compensation elements in consumer electronic appliances and industrial equipment.

4个重要的参数

热敏电阻的性能主要以电阻值、B值、热耗散常数 δ 、热时间常数 τ 这4个参数来表示。有时也用电阻温度系数 α 作为辅助常数。

Basically, characteristics of a thermistors is represented by four constants: resistance R, B constant B, thermal dissipation constant δ and thermal time constant τ



电阻值 R (k Ω)

热敏电阻的电阻值R和绝对温度T之间，有以下近似关系。

Between resistance R and absolute temperature T, there is the following approximate relationship.

$$R_1 = R_2 \exp B \left(\frac{1}{T_1} - \frac{1}{T_2} \right) \dots \dots \dots (1)$$

根据公式、可以求证任意温度T时的热敏电阻R。

Thermistor resistance R at any temperature T can be calculated from equation (1)

R1: Resistance (Ω) at absolute temperature T1 (K)

绝对温度T1 (K) 时的电阻值

R2: Resistance (Ω) at absolute temperature T2 (K)

绝对温度T2 (K) 时的电阻值

B : B constant

B值

B constant B (K)

B值是电阻在2个温度之间的电阻值变化量的常数，由以下计算公式得出。

B is a constant that expresses a change rate in resistance between two temperatures, which is derived from the equation (1).

$$B = \frac{\ln R_1 - \ln R_2}{\frac{1}{T_1} - \frac{1}{T_2}} = \frac{2.3026(\log R_1 - \log R_2)}{\frac{1}{T_1} - \frac{1}{T_2}} \dots\dots\dots (2)$$

B值一般是B25°C/50°C=2000 ~ 6000K，B值越大每1°C的电阻变化率也变大。

In general, B constant value ranges B25°C/50°C = 2,000 - 6,000K. The higher the B value is, the greater the change rate in resistance per 1°C becomes.

R1: Resistance (Ω) at absolute temperature T1 (K)

绝对温度T1 (K) 时的电阻值

R2: Resistance (Ω) at absolute temperature T2 (K)

绝对温度T2 (K) 时的电阻值

B : B constant

B值

耗散常数δ (mW/°C)

耗散常数δ是指给热敏电阻通电加热时，热敏电阻晶体表面和引线产生自热的热量大小程度。

耗散常数δ可以用公式(3)计算出附加在热敏电阻上的消耗与相应的温度上升值。

Thermal dissipation constant δ is a constant that expresses a degree of radiation from surface and lead wires of a thermistor element, when electric current is applied to heat it up.

Thermal dissipation constant δ can be determined by the equation (3) as a ratio between a power consumption applied to a thermistor and a degree of temperature increased by the power.

$$\delta = \frac{W}{T - T_a} = \frac{I^2 R}{T - T_a} \dots\dots\dots (3)$$

Thermal dissipation constant (mW/°C)

耗散常数 (mW/°C)

W: Power consumption in thermistor (mW)

热敏电阻的消耗功率(mW)

T : Temperature at heat equilibrium after rising (°C)

升温达到热平衡时的温度值(°C)

Ta : External ambient temperature (°C)

周围温度(°C)

I : Current flowing in a themistor at temperature T (mA)

温度T时，通过热敏电阻的电流值(mA)

R : Resistance of a thermistor at temperature T (kΩ)

温度T时，热敏电阻的电阻值(kΩ)

进行精密温度测量或者控制时，要观察热敏电阻的耗散常数δ的值，控制电流，避免通过热敏电阻的电流过大电阻本身加热而引起的温度误差。此产品介绍中所述耗散常数是指在静止空气中的单个热敏电阻晶体的值。请注意在组装加工成温度传感器之后其δ的值会有变化。

In order to measure temperature accurately and to control precicely, it is important to look closely at the value of of a thermistor and minimize electric current so that measurement error caused by heating is eliminated. Thermal dissipation constant in this catalog shows a value when a discrete element is placed in still air. Please note that values for assembled thermal sensors will be different.

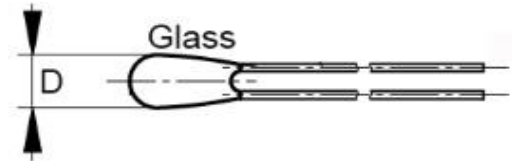

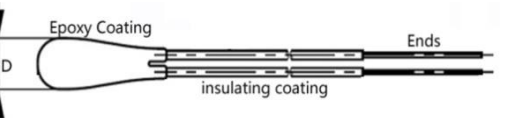
热时间常数 τ (sec.)

热时间常数τ是在热敏电阻的周围温度或通过热敏电阻的电流在发生激烈变化的情况下，其电阻值发生急变的时间程度的常数。

热时间常数是热敏电阻晶体的温度从初始值到最终值的温度差(1-1/e)，即到达63.2%时所需要的时间。

Thermal time constant T is a constant which indicates how fast resistance of a thermistor follows to a change in surrounding temperature or electric current injected. The constant is expressed by a time to reach to (1-1/e) or 63.2% of a difference between initial and final achieving temperatures of a thermistor element.

热敏电阻主要型号和特性

型号/ Part #		D (mm)	Temperature Range	示意图/Sturcture Image
MGB	MGB05	∅0.50 ± 0.1	-50℃ ~ +300℃	
	MGB08	∅0.80 ± 0.1		
	MGB12	∅1.20 ± 0.2	-50℃ ~ +350℃	
	MGB18	∅1.80 ± 0.2		
MGD	MGD15	∅1.50 ± 1.0	-50℃ ~ +250℃	
	MGD18	∅1.80 ± 1.0		
MEB	MEB08	∅0.80 ± 0.1	-30℃ ~ +110℃	
	MEB12	∅1.20 ± 0.1		
	MEB14	∅1.40 ± 0.1		

Part No. Description

M	G	B	08	103	F	3950U	F
M	G/E	B/D	08 / 12	R @ 25°C	R ± %	B (25/50°C)	B ± %
热敏电阻 Thermistor	G: Glass	B: Bead	08: 0.8mm	503=50*10³Ω	F ± 1%	3000K	F ± 1%
	玻璃封装	单端式样	12:1.2mm	104=10*10⁴Ω	G ± 2%	~	G ± 2%
	E: Epoxy	D: Diode	18:1.8mm	502=50*10²Ω	H ± 3%	5000K	H ± 3%
	环氧封装	二极管式	20:2.0mm	103=10*10³Ω	J ± 5%		J ± 5%

MGB18-103F3950UF

M	NTC Thermistor / 负温度系数热敏电阻
G	Glass sealed thermistor/ 玻璃封装热敏电阻
E	Epoxy resin coated thermistor/ 环氧树脂封装热敏电阻
B	Bead structure thermistor/ 单端珠状热敏电阻
D	Diode structure thermistor/ 二极管式热敏电阻
18	Outer diameter of the thermistor head/ 热敏电阻头部直径 1.8mm
103	Resistance @ 25°C / 25°C 电阻值 103=10KΩ=10*10³Ω 503=50KΩ=50*10³Ω 153=15KΩ=15*10³Ω 以此类推
F	Resistance tolerance @ 25°C ± 1% / 25°C时电阻值精度为 ± 1%. 以此类推
3950U	Beta value at (25/50°C) / B值(25/50°C)
F	Tolerance of Beta value/ B值精度 ± 1%

选型参考表

测温型负温度系数热敏电阻

SELECTION MANUAL

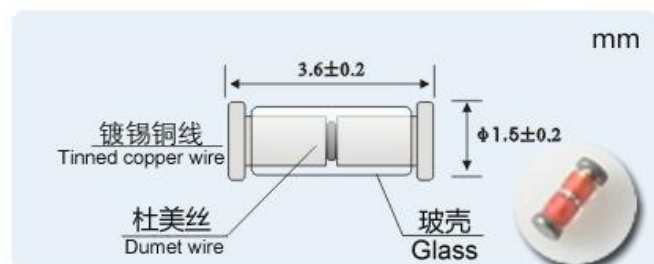
NTC Thermistor

	MGB05	MGB08	MGB12	MGB18	MGD18	MEB08	MEB12	MEB14
使用温度 OP Temp.	-50℃ ~ +300℃		-50℃ ~ +350℃		-50℃ ~ +250℃	-30℃ ~ +110℃		
25℃ 阻值 R @ 25℃	2.0KΩ ~ 200KΩ		2.0KΩ ~ 500KΩ		2.0KΩ ~ 1000KΩ	2.0KΩ ~ 200KΩ		
B(25/50℃)	3000K ~ 4500K		3000K ~ 4500K		3000K ~ 4500K	3000K ~ 4500K		
耗散常数 δ In Still Air	0.25mW/℃ 0.2 - 0.3mW/℃	0.4mW/℃ 0.35 - 0.55mW/℃	0.75mW/℃ 0.7 - 0.9mW/℃	1.1mW/℃ 1.0 - 1.2mW/℃	2.3mW/℃ 1.9 - 3.0mW/℃	0.4mW/℃ 0.35 - 0.55mW/℃	0.75mW/℃ 0.7 - 0.9mW/℃	
热时间常数 τ In Still Air	1 s 0.6 - 1.5 s	2 s 1.7 - 2.9 s	5 s 3.5 - 6.5 s	10 s 8 - 13 s	12 s 10 - 16 s	2 s 1.7 - 2.9 s	3 s 2 - 5 s	
绝缘电阻 Insulation R	DC50V 10MΩ			DC500V 50MΩ	DC500V 100MΩ	DC100V 100MΩ		
电阻精度 @25 Tolerance @25	± 1 % ± 2 % ± 3 % ± 5 %					±0.16%	± 1 % ± 2 % ± 3 %	
头部尺寸 mm Head Dia	ø 0.55 ± 0.08 x 1.1 ± 0.3	ø 0.8 ± 0.08 x 1.5 ± 0.3	ø 1.2 ± 0.2 x 2.2 ± 0.4	ø 1.8 ± 0.2 x 3.2 ± 0.5	ø 1.8 ± 0.2 x 3.8 ± 0.4	ø 0.8 ± 0.1 x 1.6 ± 0.1	ø 1.2 ± 0.1 x 2.2 ± 0.1	ø 1.4 ± 0.1 x 3.0 ± 0.1
引线长度 mm Leads	32mm 70mm Customized 订制				28 * 2	15 ~ 200mm Customized 订制		

OTHER THERMISTOR / 其他热敏电阻

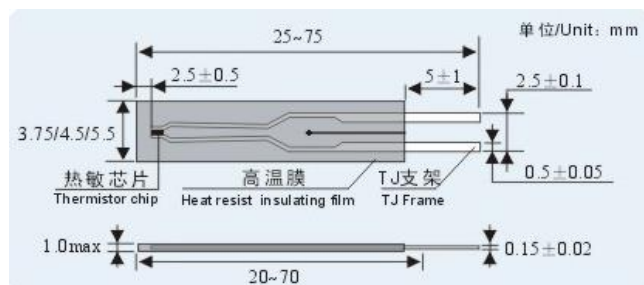
MGD15 : Glass-sealed NTC thermistor with short leads

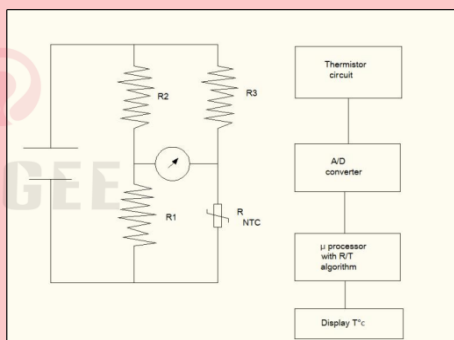
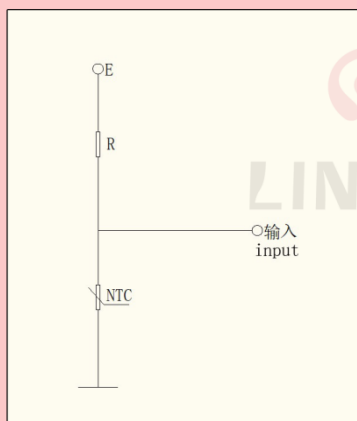
MGD15 : 玻封无引线型



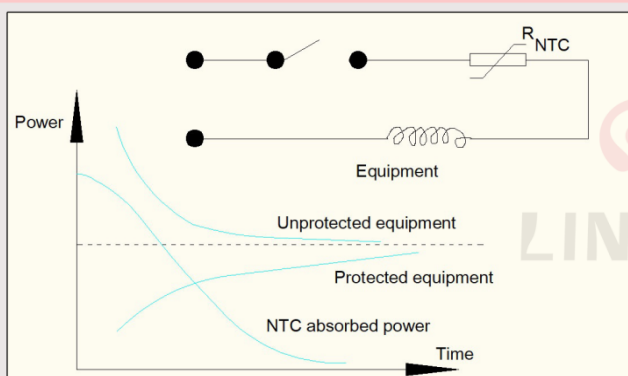
MSMF : Thin Film Thermistor

MSMF : 薄膜热敏电阻

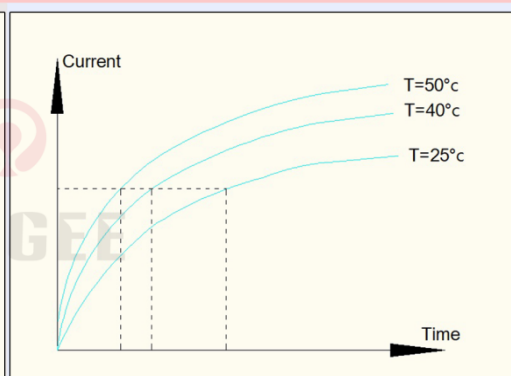




温度测量与控制
Temperature
Measurement
Control

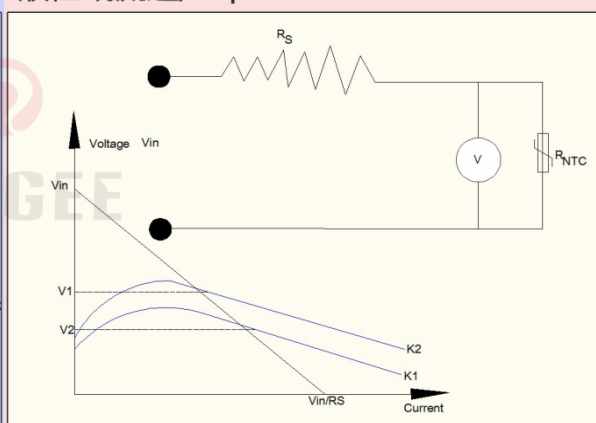
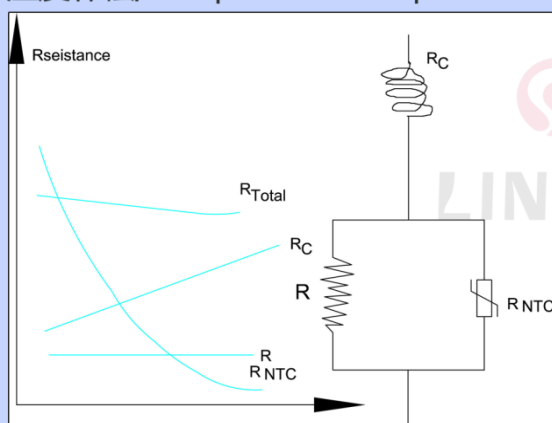


抑制浪涌/Surge Protection



延时控制/Time Delay

温度补偿/Temperature Compensation 液位或流速/Liquid level or flow detection



Temperature measurement

测温型负温度系数热敏电阻

Glass-encapsulated sensors

MG

PART #	R @ 25°C		B(25/50°C)	
MGB08-104F3950U	100KΩ	F/G/H/J	3950U	F
MGB08-503F3950U	50KΩ	F/G/H/J	3380U	F

PART #	R @ 25°C		B(25/50°C)	
MGB12-502F3950U	5KΩ	F/G/H/J	3950U	F
MGB12-103F3380U	10KΩ	F/G/H/J	3380U	F
MGB12-103F3470U	10KΩ	F/G/H/J	3470U	F
MGB12-103F3950U	10KΩ	F/G/H/J	3950U	F
MGB12-503F3950U	50KΩ	F/G/H/J	3950U	F
MGB12-503F4000U	50KΩ	F/G/H/J	4000U	F
MGB12-104F3950U	100KΩ	F/G/H/J	3950U	F
MGB12-104F4000U	100KΩ	F/G/H/J	4000U	F

Contact us for more>

PART #	R @ 25°C		B(25/50°C)	
MGB18-502F3470U	5KΩ	F/G/H/J	3470U	F
MGB18-502F3950U	5KΩ	F/G/H/J	3950U	F
MGB18-103F3380U	10KΩ	F/G/H/J	3380U	F
MGB18-103F3470U	10KΩ	F/G/H/J	3470U	F
MGB18-103F3950U	10KΩ	F/G/H/J	3950U	F
MGB18-203F3950U	20KΩ	F/G/H/J	3950U	F
MGB18-303F3950U	30KΩ	F/G/H/J	3950U	F
MGB18-503F3950U	50KΩ	F/G/H/J	3950U	F
MGB18-503F4000U	50KΩ	F/G/H/J	4000U	F
MGB18-104F3950U	100KΩ	F/G/H/J	3950U	F
MGB18-104F4000U	100KΩ	F/G/H/J	4000U	F
MGB18-104F4200U	100KΩ	F/G/H/J	4200U	F
MGB18-104F4250U	100KΩ	F/G/H/J	4250U	F
MGB18-104F4350U	100KΩ	F/G/H/J	4350U	F
MGB18-204F3900U	200KΩ	F/G/H/J	3900U	F
MGB18-204F3950U	200KΩ	F/G/H/J	3950U	F
MGB18-234F4130U	100KΩ	F/G/H/J	4130U	F

Contact us for more>

PART #	R @ 25°C		B(25/50°C)	
MGD18-202F3950U	2KΩ	F/G/H/J	3950U	F
MGD18-302F3950U	3KΩ	F/G/H/J	3950U	F
MGD18-472F3470U	4.7KΩ	F/G/H/J	3470U	F
MGD18-502F3280U	5KΩ	F/G/H/J	3280U	F
MGD18-502F3470U	5KΩ	F/G/H/J	3470U	F
MGD18-502F3950U	5KΩ	F/G/H/J	3950U	F
MGD18-103F3380U	10KΩ	F/G/H/J	3380U	F
MGD18-103F3470U	10KΩ	F/G/H/J	3470U	F
MGD18-103F3600U	10KΩ	F/G/H/J	3600U	F
MGD18-103F3950U	10KΩ	F/G/H/J	3950U	F
MGD18-103F4000U	10KΩ	F/G/H/J	4000U	F
MGD18-103F4100U	10KΩ	F/G/H/J	4100U	F
MGD18-153F3470U	15KΩ	F/G/H/J	3470U	F
MGD18-203F3470U	20KΩ	F/G/H/J	3470U	F
MGD18-203F3950U	20KΩ	F/G/H/J	3950U	F
MGD18-203F4200U	20KΩ	F/G/H/J	4200U	F
MGD18-203F4230U	20KΩ	F/G/H/J	4230U	F
MGD18-303F3950U	30KΩ	F/G/H/J	3950U	F
MGD18-473F4000U	47KΩ	F/G/H/J	4000U	F
MGD18-503F3920U	50KΩ	F/G/H/J	3920U	F
MGD18-503F3950U	50KΩ	F/G/H/J	3950U	F
MGD18-503F4000U	50KΩ	F/G/H/J	4000U	F
MGD18-503F4050U	50KΩ	F/G/H/J	4050U	F
MGD18-104F3950U	100KΩ	F/G/H/J	3950U	F
MGD18-104F4000U	100KΩ	F/G/H/J	4000U	F
MGD18-104F4200U	100KΩ	F/G/H/J	4200U	F
MGD18-104F4330U	100KΩ	F/G/H/J	4330U	F
MGD18-204F3900U	200KΩ	F/G/H/J	3900U	F
MGD18-204F3950U	200KΩ	F/G/H/J	3950U	F
MGD18-234F4130U	230KΩ	F/G/H/J	4130U	F
MGD18-504F4050U	500KΩ	F/G/H/J	4050U	F

Contact us for more>

Temperature measurement

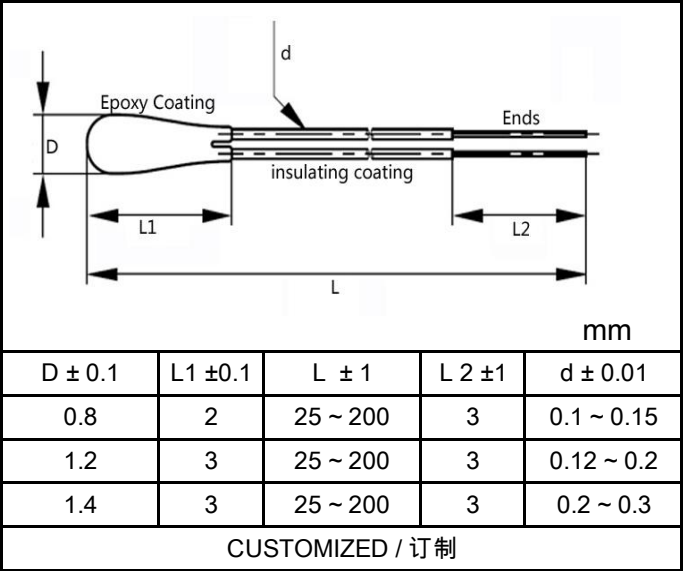
测温型负温度系数热敏电阻

Epoxy resin coated miniature sensors

ME

PART #	R @ 25°C		B(25/50°C)	
MEB-202F3950U	2KΩ	F/G/H	3950U	F
MEB-222F3950U	2.252KΩ	F/G/H	3950U	F
MEB-302F3950U	3KΩ	F/G/H	3950U	F
MEB-502F3470U	5KΩ	F/G/H	3470U	F
MEB-502F3950U	5KΩ	F/G/H	3950U	F
MEB-103F3380U	10KΩ	F/G/H	3380U	F
MEB-103F3470U	10KΩ	F/G/H	3470U	F
MEB-103F3600U	10KΩ	F/G/H	3600U	F
MEB-103F3950U	10KΩ	F/G/H	3950U	F
MEB-103F4100U	10KΩ	F/G/H	4100U	F
MEB-203F3950U	20KΩ	F/G/H	3950U	F
MEB-303F3950U	30KΩ	F/G/H	3950U	F
MEB-503F3950U	50KΩ	F/G/H	3950U	F
MEB-503F4000U	50KΩ	F/G/H	4000U	F
MEB-833F3950U	83KΩ	F/G/H	3950U	F
MEB-104F3950U	100KΩ	F/G/H	3950U	F
MEB-104F4000U	100KΩ	F/G/H	4000U	F
MEB-204F4000U	200KΩ	F/G/H	4000U	F

STRUCTURE IMAGE/ 结构示意图



MEB-503E3950UE 50KΩ ±0.16% 3950U E

SPECIAL FOR ELECTRONIC THERMOMETER

电子体温计专用热敏电阻 精度 ± 0.05°C

Contact us for more>



SHANGHAI LINGEE INDUSTRY CO., LTD.

上海领技实业有限公司

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