南京时恒电子科技有限公司
Nanjing Shiheng Electronics Co.,Ltd.
规格承认书

APPROVAL SHEET

客户名称CUSTOMER：

产品名称PART NAME：热敏电阻规格书

产品规格PART NUMBER：MF55 103F3435L025

产品编号PRODUCTCODE：

版次REV.NO：B0

日期DATE：2025-09-23

确认
CONFIRM

客户CLIENT			供货商/制造商MANUFACTOR	
品保部 Quality Dep.			规格书制作 Design	潘然
制造部 Production Dep.			业务部审核 Checked by sales	
工程部 Engineering Dep.			技术部审核 Checked by R&D	张居见
			品质部审核 Checked by QA	李少媛

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1、总论（Scope）

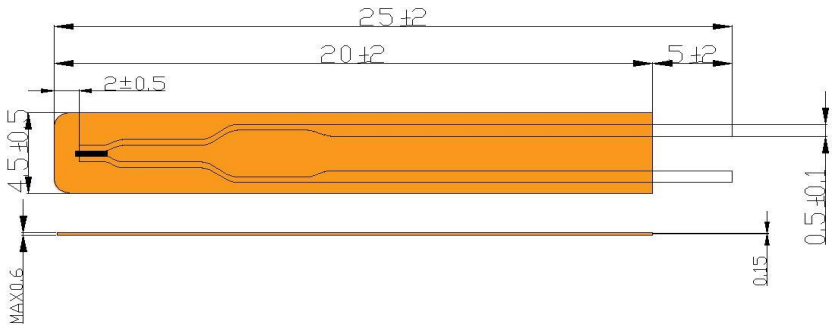
本产品包括产品外形尺寸、性能及出厂检验标准，产品型号、规格。

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

2、 说明（Specifications）

MF55-10K 1% 3435					
NTC Thermistor	Resistance value		B value		
	10K	±1%	3435K	±1%	B25/85

3、 外形尺寸（Shape and dimension） (Unit：mm)



4、电性能（Electrical characteristics）

	Item 项目	Symbol 符号	Test Condition 测试条件	Min. 最小值	Nor. 正常值	Max. 最大值	Unit 单位
a	**Resistance at 25°C** **25°C 电阻值**	**R25**	25±0.05°C	9.9	10	10.1	kΩ
b	**Bvalue** **B 值**	**B25/85**	$B=(\frac{1}{T1}-\frac{1}{T2})\ln\frac{RT1}{RT2}$	3400.65	3435	3469.35	k
c	**耐压测试**	/	1800AC	/	1800	/	AC
d	**Insulation resistance** **绝缘电阻**	/	500VDC	100	/	/	MΩ
e	**Thermal time constant** **热时间常数**	**τ**	in still air 静止空气中	/	/	2.0	sec
f	**Thermal dissipation constant** **热耗散系数**	**δ**	in still air 静止空气中	2.0	/	/	mw/°C

f	**Operating temperature range 使用温度范围**	/	/	-30	/	120	°C

5、出厂检验（Outgoing Inspection）

5.1 The product shall be inspected at every delivery lot inspection items, sampling quantities and sampling acceptable standard are as follows. 产品批量出厂前必须进行如下项目抽检，抽样数及标准如下：

Inspection Item 检验项目	**Sampling acceptable Standard 抽样合格标准**	**Remarks 备注**
Resistance value 电阻值	N=20,Ac=0,Re=1	4(a)
B value B 值	N=10,Ac=0,Re=1	4(b)
Insulation Resistance 绝缘电阻	N=5,Ac=0,Re=1	4(c)
Shape & dimensions 外形尺寸	N=5,Ac=0,Re=1	3
Appearance 外观	N=5,Ac=0,Re=1	3

5.2 检验数据 Inspection data

检验数据必须留以备索（Inspecteon data will be issued for pay upon request.）

6、包装方式（packing）

包装方式必须保证在运输过程中避免伤及污染。

Pacding shall be done not to cause damage or soil during delivry.

7、阻值与温度对应R/T 表

TEMPERATURE VS RESISTANCE TABLE

Resistance 10K Ohms at 25deg. C

Resistance Tolerance + / -1%

B Value 3435K at 25/85 deg. C

B Value Tolerance + / - 1%

Temp. (deg. C)	Rmax (k Ohms)	Rnor (k Ohms)	Rmin (k Ohms)
-30	120.5991	116.5089	112.5462
-29	114.3116	110.4932	106.7917
-28	108.3927	104.8272	101.3688
-27	102.8185	99.4883	96.2564
-26	97.5669	94.4558	91.4348
-25	92.6171	89.7101	86.8857
-24	87.9501	85.2332	82.5920
-23	83.5479	81.0082	78.5378
-22	79.3940	77.0194	74.7084
-21	75.4728	73.2523	71.0899
-20	71.7700	69.6931	67.6695
-19	68.2720	66.3291	64.4351
-18	64.9663	63.1485	61.3754
-17	61.8412	60.1402	58.4802
-16	58.8858	57.2939	55.7394
-15	56.0899	54.5998	53.1440
-14	53.4439	52.0490	50.6855
-13	50.9389	49.6330	48.3557
-12	48.5666	47.3439	46.1473
-11	46.3192	45.1743	44.0532
-10	44.1895	43.1172	42.0668
-9	42.1705	41.1663	40.1820
-8	40.2558	39.3153	38.3930
-7	38.4396	37.5587	36.6943
-6	36.7162	35.8910	35.0810
-5	35.0802	34.3074	33.5481
-4	33.5269	32.8029	32.0914
-3	32.0515	31.3734	30.7065
-2	30.6497	30.0145	29.3896
-1	29.3174	28.7225	28.1368
0	28.0508	27.4936	26.9448
1	26.8464	26.3245	25.8102
2	25.7006	25.2119	24.7300
3	24.6103	24.1527	23.7013
4	23.5726	23.1442	22.7213
5	22.5846	22.1835	21.7874

6	21.6436	21.2682	20.8973
7	20.7472	20.3959	20.0486
8	19.8931	19.5644	19.2392
9	19.0789	18.7714	18.4670
10	18.3027	18.0151	17.7303
11	17.5624	17.2935	17.0270
12	16.8561	16.6048	16.3556
13	16.1823	15.9475	15.7145
14	15.5391	15.3198	15.1020
15	14.9251	14.7203	14.5168
16	14.3387	14.1475	13.9576
17	13.7786	13.6003	13.4229
18	13.2434	13.0772	12.9117
19	12.7320	12.5771	12.4228
20	12.2431	12.0988	11.9550
21	11.7756	11.6413	11.5074
22	11.3286	11.2037	11.0790
23	10.9009	10.7848	10.6689
24	10.4917	10.3839	10.2762
25	10.1000	10.0000	9.9000
26	9.7323	9.6324	9.5325
27	9.3800	9.2802	9.1806
28	9.0424	8.9428	8.8435
29	8.7186	8.6195	8.5206
30	8.4082	8.3096	8.2113
31	8.1105	8.0124	7.9147
32	7.8249	7.7275	7.6305
33	7.5508	7.4541	7.3579
34	7.2878	7.1919	7.0965
35	7.0353	6.9403	6.8458
36	6.7929	6.6987	6.6052
37	6.5601	6.4669	6.3744
38	6.3364	6.2442	6.1527
39	6.1216	6.0304	5.9400
40	5.9151	5.8250	5.7357
41	5.7167	5.6276	5.5394
42	5.5259	5.4380	5.3509
43	5.3425	5.2557	5.1698
44	5.1661	5.0804	4.9957
45	4.9964	4.9119	4.8283
46	4.8331	4.7498	4.6674
47	4.6761	4.5939	4.5127
48	4.5249	4.4439	4.3639
49	4.3793	4.2995	4.2207
50	4.2392	4.1605	4.0830
51	4.1042	4.0268	3.9504

52	3.9742	3.8980	3.8228
53	3.8490	3.7739	3.7000
54	3.7283	3.6544	3.5817
55	3.6121	3.5393	3.4677
56	3.5000	3.4284	3.3580
57	3.3919	3.3215	3.2523
58	3.2877	3.2185	3.1504
59	3.1872	3.1191	3.0522
60	3.0903	3.0234	2.9575
61	2.9968	2.9310	2.8663
62	2.9066	2.8419	2.7783
63	2.8196	2.7559	2.6934
64	2.7355	2.6729	2.6115
65	2.6544	2.5929	2.5325
66	2.5761	2.5156	2.4563
67	2.5004	2.4410	2.3827
68	2.4274	2.3690	2.3117
69	2.3568	2.2994	2.2432
70	2.2886	2.2322	2.1770
71	2.2227	2.1673	2.1131
72	2.1590	2.1046	2.0513
73	2.0974	2.0440	1.9917
74	2.0379	1.9854	1.9340
75	1.9804	1.9288	1.8783
76	1.9247	1.8740	1.8245
77	1.8709	1.8211	1.7725
78	1.8188	1.7699	1.7221
79	1.7685	1.7204	1.6735
80	1.7197	1.6725	1.6264
81	1.6725	1.6262	1.5809
82	1.6269	1.5813	1.5369
83	1.5827	1.5379	1.4943
84	1.5399	1.4959	1.4531
85	1.4984	1.4553	1.4132
86	1.4583	1.4159	1.3746
87	1.4194	1.3778	1.3372
88	1.3817	1.3408	1.3010
89	1.3452	1.3051	1.2660
90	1.3099	1.2704	1.2320
91	1.2756	1.2368	1.1991
92	1.2424	1.2043	1.1673
93	1.2102	1.1728	1.1364
94	1.1789	1.1422	1.1065
95	1.1487	1.1126	1.0775
96	1.1193	1.0839	1.0494
97	1.0908	1.0560	1.0222

98	1.0632	1.0290	0.9958
99	1.0364	1.0028	0.9702
100	1.0104	0.9774	0.9453
101	0.9851	0.9527	0.9212
102	0.9606	0.9288	0.8979
103	0.9368	0.9055	0.8752
104	0.9137	0.8830	0.8532
105	0.8913	0.8611	0.8319
106	0.8696	0.8399	0.8111
107	0.8484	0.8193	0.7910
108	0.8279	0.7992	0.7715
109	0.8079	0.7798	0.7525
110	0.7886	0.7609	0.7341
111	0.7697	0.7425	0.7162
112	0.7514	0.7247	0.6989
113	0.7336	0.7074	0.6820
114	0.7164	0.6906	0.6656
115	0.6996	0.6742	0.6497
116	0.6832	0.6583	0.6342
117	0.6673	0.6429	0.6192
118	0.6519	0.6278	0.6046
119	0.6369	0.6132	0.5904
120	0.6223	0.5990	0.5766