



南京时恒电子科技有限公司

规格承认书

APPROVAL SHEET

客户名称:

CUSTOMER _____

产品名称:

PART NAME MF51 玻封测温型 NTC 热敏电阻器

产品规格:

PART NUMBER MF51B-104F3950

日期:

DATE 2019 年 05 月 09 日

确 认

CONFIRM

客户

品保部: _____

制造部: _____

工程部: _____

供货商/制造商

规格书制作: 吴迎丽

业务员审核: _____

技术部审核: 程鹏

品质部审核: 李竹媛

南京时恒电子科技有限公司

地址: 南京市江宁区湖熟镇金阳路 18 号

TEL: 025-52121868

Http: [//www.shiheng.com.cn](http://www.shiheng.com.cn)

邮编: 211121

FAX: 025-52122373

[E-MAIL:sales@shiheng.com.cn](mailto:sales@shiheng.com.cn)





本规格书提供了南京时恒电子科技有限公司生产的 MF51 系列 NTC 热敏电阻的结构尺寸、产品性能、试验条件、使用要求等参数, 敬请贵司确认。

对本规格书产生疑问时, 请速与我们联系 (025-52121868), 若无疑问请确认回传, 若无回传, 我司将视为默认。

贵公司改变产品用途、使用方法时, 请与我们联系!

客户名称:

客户
确认

确认:

时间:

审核:

时间:

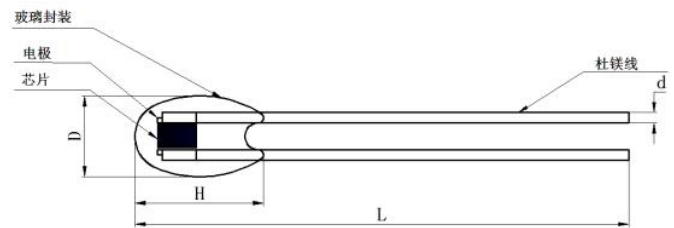
1. 电气性能

	项目	符号	测试条件	单位	性能要求
1.1	25℃的零功率电阻值	R ₂₅	T=25±0.01℃ 测试功率≤0.1mw	KΩ	100KΩ±1%
1.2	B 值	B _{25/50}	$B = [(T_a \times T_b) / (T_b - T_a)] \times \ln(R_a / R_b)$ T _a =25℃±0.01℃ T _b =50℃±0.01℃	K	3950±1%
1.3	耗散系数	δ	静止空气中	mW/℃	约 1.4
1.4	时间常数	τ	静止空气中	sec	约 14
1.5	耐电压	/	500V/AC 1min	/	无击穿或飞弧
1.6	绝缘电阻	/	500V/DC 1min	MΩ	≥100
1.7	工作温度范围	/	/	℃	-40~250
1.8	最大额定功率	P _{max}	/	mW	35
1.9	阻温特性	/	/	/	见附表 1
1.10	阻值误差	/	/	/	见附表 2

2. 可靠性

项目	测试标准	测试条件及方法	技术要求	
2.1 高温 存储试验	IEC60068-2-2	T _u ±5℃, 1000±24 小时	无可见损伤 △ R/R≤±5%	
2.2 稳态 湿热试验	IEC60068-2-78	40±2℃, 92~95%RH, 1000±24 小时	无可见损伤 △ R/R≤±3%	
2.3 温度 快速变化	IEC60068-2-14	温度急变按下表条件循环 五个周期		
		步骤	温度(℃)	周期(分钟)
		1	T ₁ ±5	30±3
		2	室温	5±3
		3	T ₂ ±5	30±3
4	室温	5±3		
2.4 最大 功耗	IEC60539-1-4.26.3	2s±5℃, P _{max} , 1000±24 小时	无可见损伤 △ R/R≤±5%	

4. 外形尺寸: (单位: mm)



型号	D	H	L	d
MF51-B	1.6±0.2	3.8±0.5	65±2.5	0.3±0.02

5. 产品型号说明

MF51 B 104 F 3950

① ② ③ ④ ⑤

① MF51: 玻封测温型 NTC 热敏电阻器

② B 型: 外形尺寸代号

③ 104: 25℃的零功率电阻值 100KΩ

④ F: 阻值精度代码 F-±1% G-±2% H-±3% J-±5%

⑤ 3950: B_{25/50} 值 3950K

6. 认证

6.1 质量管理体系认证 ISO9001:2015

IATF16949:2016

6.2 环境管理体系认证 ISO14001:2015

6.3 环保检测报告 ROHS

6.4 江苏省高新技术产品认证

3. 使用注意事项

- 3.1 本产品的用途: 温度测量与控制;
- 3.2 避免过大的电流引起元件自身发热而产生测量误差;
- 3.3 烙铁焊接时, 焊接处距玻壳端距离至少 2mm, 焊接温度应低于 360℃, 焊接时间<3ses;
- 3.4 若引线弯曲时, 弯曲点应距玻壳端 2mm 以上, 以免造成玻壳损伤;
- 3.5 储存温度: -10℃ ~ 40℃; 储存湿度: ≤75% RH;
- 3.6 避免存放在具有腐蚀性气体及光照的环境下;
- 3.7 包装打开后需重新密封保存, 贮存期 1 年, 超过贮存期, 可按本标准规定的项目重新检验, 如符合要求仍可使用;
- 3.8 如在加工过程中需使用热缩管, 热缩管热缩时不可使用电吹风进行吹制, 建议热缩工艺, 将套好热缩管后的产品放入恒温烘箱中, 按 110℃ /10-12min 进行热缩;

电话: 025-52121868

传真: 025-52122373

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地址: 南京市江宁区湖熟镇金阳路 18 号

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附表:1

南京时恒电子科技有限公司

R25=100K Ω 精度: $\pm 1\%$ B25/50=3950K 精度: $\pm 1\%$ (P182-6B2)

温度($^{\circ}\text{C}$)	电阻(Ω)			电阻精度(%)		温度精度($^{\circ}\text{C}$)	
	最小值	中心值	最大值	ΔR	$-\Delta R$	ΔT	$-\Delta T$
-40	1427.36	1481.78	1538.11	3.801	-3.672	0.706	-0.682
-39	1452.86	1508.52	1566.15	3.82	-3.689	0.697	-0.673
-38	1466.33	1522.64	1580.96	3.83	-3.698	0.688	-0.664
-37	1468.71	1525.14	1583.58	3.831	-3.699	0.68	-0.657
-36	1461.14	1517.2	1575.25	3.826	-3.694	0.672	-0.649
-35	1444.8	1500.07	1557.29	3.814	-3.683	0.665	-0.642
-34	1420.94	1475.04	1531.05	3.797	-3.667	0.657	-0.635
-33	1390.76	1443.4	1497.88	3.774	-3.646	0.65	-0.628
-32	1355.42	1406.35	1459.06	3.747	-3.621	0.643	-0.622
-31	1315.98	1365.03	1415.76	3.716	-3.593	0.636	-0.615
-30	1273.44	1320.46	1369.09	3.682	-3.561	0.63	-0.609
-29	1228.66	1273.57	1319.99	3.644	-3.526	0.623	-0.603
-28	1182.4	1225.14	1269.31	3.604	-3.488	0.616	-0.597
-27	1135.33	1175.89	1217.77	3.562	-3.449	0.61	-0.591
-26	1088	1126.38	1166	3.517	-3.407	0.604	-0.585
-25	1040.88	1077.12	1114.51	3.471	-3.364	0.597	-0.579
-24	994.364	1028.5	1063.71	3.423	-3.319	0.591	-0.573
-23	948.743	980.855	1013.95	3.374	-3.273	0.584	-0.567
-22	904.265	934.419	965.481	3.324	-3.227	0.578	-0.561
-21	861.115	889.391	918.503	3.273	-3.179	0.572	-0.555
-20	819.43	845.912	873.163	3.221	-3.13	0.565	-0.549
-19	779.302	804.08	829.562	3.169	-3.081	0.559	-0.543
-18	740.792	763.954	787.762	3.116	-3.031	0.552	-0.537
-17	703.93	725.565	747.791	3.063	-2.981	0.546	-0.532
-16	668.723	688.919	709.655	3.009	-2.931	0.54	-0.526
-15	635.161	654.004	673.338	2.956	-2.881	0.533	-0.52
-14	603.218	620.789	638.808	2.902	-2.83	0.527	-0.514
-13	572.855	589.234	606.021	2.848	-2.779	0.52	-0.508
-12	544.027	559.29	574.924	2.795	-2.729	0.514	-0.501
-11	516.681	530.9	545.456	2.741	-2.678	0.507	-0.495
-10	490.76	504.004	517.554	2.688	-2.627	0.5	-0.489
-9	466.205	478.538	491.148	2.635	-2.577	0.494	-0.483
-8	442.954	454.437	466.171	2.582	-2.526	0.487	-0.477
-7	420.946	431.636	442.554	2.529	-2.476	0.48	-0.47
-6	400.119	410.071	420.227	2.476	-2.426	0.473	-0.464
-5	380.414	389.676	399.124	2.424	-2.376	0.467	-0.457
-4	361.77	370.391	379.178	2.372	-2.327	0.46	-0.451
-3	344.132	352.154	360.327	2.32	-2.278	0.453	-0.444
-2	327.444	334.909	342.509	2.269	-2.228	0.446	-0.438
-1	311.653	318.598	325.666	2.218	-2.18	0.439	-0.431

0	296.708	303.171	309.743	2.167	-2.131	0.431	-0.424
1	282.563	288.575	294.685	2.117	-2.083	0.424	-0.417
2	269.171	274.763	280.443	2.067	-2.035	0.417	-0.41
3	256.488	261.689	266.969	2.017	-1.987	0.41	-0.403
4	244.475	249.312	254.219	1.968	-1.939	0.402	-0.396
5	233.093	237.59	242.149	1.919	-1.892	0.395	-0.389
6	222.304	226.485	230.72	1.87	-1.845	0.387	-0.382
7	212.076	215.961	219.895	1.821	-1.799	0.38	-0.375
8	202.375	205.985	209.638	1.773	-1.752	0.372	-0.368
9	193.171	196.525	199.917	1.725	-1.706	0.364	-0.36
10	184.437	187.551	190.699	1.678	-1.66	0.357	-0.353
11	176.145	179.036	181.956	1.631	-1.614	0.349	-0.345
12	168.269	170.952	173.66	1.584	-1.569	0.341	-0.338
13	160.788	163.276	165.787	1.537	-1.524	0.333	-0.33
14	153.678	155.985	158.311	1.491	-1.479	0.325	-0.323
15	146.919	149.056	151.21	1.444	-1.434	0.317	-0.315
16	140.491	142.47	144.464	1.399	-1.389	0.309	-0.307
17	134.376	136.208	138.052	1.353	-1.345	0.301	-0.299
18	128.557	130.251	131.955	1.308	-1.301	0.293	-0.291
19	123.017	124.584	126.158	1.263	-1.257	0.285	-0.284
20	117.743	119.189	120.642	1.218	-1.213	0.277	-0.276
21	112.719	114.053	115.392	1.173	-1.17	0.269	-0.268
22	107.932	109.162	110.395	1.129	-1.126	0.261	-0.261
23	103.37	104.503	105.637	1.085	-1.083	0.255	-0.254
24	99.021	100.062	101.105	1.041	-1.04	0.252	-0.252
25	95.077	96.037	96.997	1	-1	0.244	-0.244
26	90.836	91.795	92.755	1.045	-1.044	0.232	-0.232
27	86.99	87.946	88.904	1.088	-1.087	0.249	-0.248
28	83.323	84.275	85.229	1.132	-1.129	0.262	-0.261
29	79.826	80.772	81.721	1.174	-1.171	0.275	-0.274
30	76.489	77.429	78.372	1.217	-1.212	0.287	-0.286
31	73.306	74.237	75.173	1.26	-1.254	0.299	-0.298
32	70.267	71.19	72.117	1.302	-1.295	0.311	-0.31
33	67.366	68.279	69.197	1.345	-1.337	0.323	-0.321
34	64.596	65.498	66.407	1.387	-1.378	0.336	-0.333
35	61.95	62.842	63.74	1.429	-1.418	0.348	-0.345
36	59.423	60.303	61.19	1.471	-1.459	0.36	-0.357
37	57.008	57.876	58.752	1.512	-1.5	0.372	-0.369
38	54.7	55.556	56.42	1.554	-1.54	0.385	-0.381
39	52.495	53.338	54.189	1.595	-1.58	0.397	-0.393
40	50.386	51.216	52.054	1.636	-1.62	0.41	-0.406
41	48.37	49.186	50.012	1.678	-1.66	0.422	-0.418
42	46.441	47.244	48.057	1.719	-1.699	0.435	-0.43
43	44.597	45.386	46.185	1.759	-1.739	0.448	-0.442
44	42.832	43.608	44.393	1.8	-1.778	0.46	-0.455

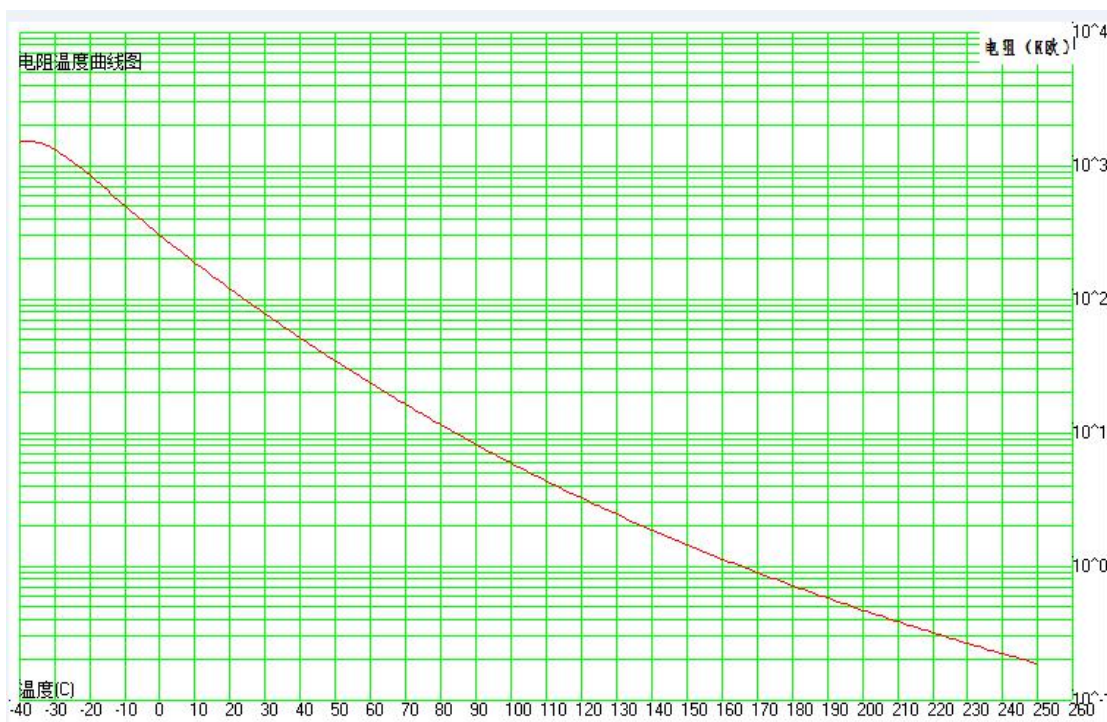
45	41.144	41.906	42.677	1.841	-1.817	0.473	-0.467
46	39.528	40.276	41.034	1.881	-1.856	0.486	-0.48
47	37.982	38.716	39.46	1.921	-1.895	0.499	-0.492
48	36.502	37.222	37.952	1.961	-1.933	0.512	-0.505
49	35.084	35.79	36.507	2.001	-1.972	0.525	-0.518
50	33.727	34.419	35.122	2.041	-2.01	0.539	-0.53
51	32.427	33.106	33.795	2.081	-2.048	0.552	-0.543
52	31.183	31.847	32.523	2.12	-2.086	0.565	-0.556
53	29.99	30.641	31.303	2.16	-2.124	0.579	-0.569
54	28.847	29.485	30.133	2.199	-2.162	0.592	-0.582
55	27.752	28.376	29.012	2.238	-2.199	0.606	-0.595
56	26.703	27.314	27.936	2.277	-2.236	0.62	-0.608
57	25.697	26.295	26.904	2.316	-2.274	0.633	-0.622
58	24.733	25.318	25.914	2.355	-2.311	0.647	-0.635
59	23.808	24.381	24.964	2.394	-2.347	0.661	-0.648
60	22.922	23.482	24.053	2.432	-2.384	0.675	-0.662
61	22.071	22.619	23.178	2.47	-2.421	0.689	-0.675
62	21.256	21.791	22.338	2.509	-2.457	0.703	-0.689
63	20.474	20.997	21.532	2.547	-2.493	0.717	-0.702
64	19.723	20.235	20.758	2.585	-2.529	0.732	-0.716
65	19.003	19.503	20.015	2.622	-2.565	0.746	-0.73
66	18.312	18.801	19.301	2.66	-2.601	0.76	-0.743
67	17.649	18.127	18.616	2.698	-2.636	0.775	-0.757
68	17.012	17.479	17.957	2.735	-2.672	0.789	-0.771
69	16.401	16.857	17.325	2.772	-2.707	0.804	-0.785
70	15.814	16.26	16.717	2.809	-2.742	0.819	-0.799
71	15.25	15.686	16.133	2.846	-2.777	0.834	-0.813
72	14.709	15.135	15.571	2.883	-2.812	0.849	-0.828
73	14.189	14.605	15.032	2.92	-2.847	0.864	-0.842
74	13.69	14.096	14.513	2.956	-2.881	0.879	-0.856
75	13.21	13.607	14.014	2.993	-2.915	0.894	-0.871
76	12.749	13.136	13.534	3.029	-2.949	0.909	-0.885
77	12.306	12.684	13.073	3.065	-2.983	0.924	-0.9
78	11.88	12.25	12.63	3.101	-3.017	0.94	-0.914
79	11.471	11.832	12.203	3.137	-3.051	0.955	-0.929
80	11.077	11.429	11.792	3.172	-3.084	0.971	-0.944
81	10.698	11.043	11.397	3.208	-3.118	0.986	-0.958
82	10.334	10.671	11.017	3.243	-3.151	1.002	-0.973
83	9.984	10.313	10.651	3.278	-3.184	1.018	-0.988
84	9.648	9.968	10.299	3.314	-3.217	1.033	-1.003
85	9.324	9.637	9.96	3.348	-3.25	1.049	-1.018
86	9.012	9.318	9.633	3.383	-3.282	1.065	-1.034
87	8.712	9.011	9.319	3.418	-3.315	1.081	-1.049
88	8.423	8.715	9.016	3.452	-3.347	1.098	-1.064
89	8.145	8.43	8.724	3.487	-3.379	1.114	-1.079

90	7.878	8.156	8.443	3.521	-3.411	1.13	-1.095
91	7.62	7.892	8.173	3.555	-3.443	1.147	-1.11
92	7.372	7.638	7.912	3.589	-3.474	1.163	-1.126
93	7.133	7.392	7.66	3.623	-3.506	1.18	-1.141
94	6.903	7.156	7.418	3.657	-3.537	1.196	-1.157
95	6.681	6.929	7.184	3.69	-3.568	1.213	-1.173
96	6.468	6.709	6.959	3.723	-3.599	1.23	-1.189
97	6.262	6.498	6.742	3.757	-3.63	1.246	-1.205
98	6.063	6.294	6.533	3.79	-3.661	1.263	-1.22
99	5.872	6.097	6.33	3.823	-3.691	1.28	-1.236
100	5.707	5.928	6.156	3.852	-3.719	1.298	-1.253
101	5.51	5.725	5.948	3.888	-3.752	1.315	-1.269
102	5.339	5.549	5.766	3.921	-3.782	1.332	-1.285
103	5.173	5.378	5.591	3.953	-3.812	1.349	-1.301
104	5.014	5.214	5.422	3.985	-3.842	1.367	-1.318
105	4.86	5.056	5.259	4.017	-3.872	1.384	-1.334
106	4.712	4.903	5.102	4.049	-3.901	1.402	-1.35
107	4.568	4.755	4.949	4.081	-3.931	1.419	-1.367
108	4.43	4.613	4.803	4.113	-3.96	1.437	-1.384
109	4.297	4.475	4.661	4.144	-3.989	1.455	-1.4
110	4.168	4.342	4.524	4.176	-4.018	1.473	-1.417
111	4.044	4.214	4.391	4.207	-4.047	1.491	-1.434
112	3.923	4.09	4.264	4.238	-4.075	1.509	-1.451
113	3.807	3.97	4.14	4.269	-4.104	1.527	-1.468
114	3.695	3.855	4.02	4.3	-4.132	1.545	-1.485
115	3.587	3.743	3.905	4.33	-4.16	1.563	-1.502
116	3.483	3.635	3.793	4.361	-4.188	1.582	-1.519
117	3.381	3.53	3.685	4.391	-4.216	1.6	-1.536
118	3.284	3.429	3.581	4.422	-4.244	1.619	-1.554
119	3.189	3.332	3.48	4.452	-4.272	1.637	-1.571
120	3.098	3.237	3.382	4.482	-4.299	1.656	-1.588
121	3.01	3.146	3.288	4.512	-4.327	1.675	-1.606
122	2.924	3.058	3.196	4.542	-4.354	1.694	-1.623
123	2.842	2.972	3.108	4.571	-4.381	1.712	-1.641
124	2.762	2.889	3.022	4.601	-4.408	1.731	-1.659
125	2.731	2.858	2.989	4.612	-4.419	1.752	-1.679
126	2.61	2.732	2.859	4.659	-4.461	1.77	-1.694
127	2.538	2.657	2.782	4.689	-4.488	1.789	-1.712
128	2.468	2.584	2.706	4.718	-4.514	1.808	-1.73
129	2.4	2.514	2.633	4.746	-4.541	1.828	-1.748
130	2.334	2.446	2.563	4.775	-4.567	1.847	-1.766
131	2.271	2.38	2.495	4.804	-4.593	1.867	-1.785
132	2.209	2.316	2.428	4.832	-4.619	1.886	-1.803
133	2.15	2.254	2.364	4.861	-4.645	1.906	-1.821
134	2.092	2.195	2.302	4.889	-4.67	1.926	-1.84

135	2.036	2.136	2.242	4.917	-4.696	1.945	-1.858
136	1.982	2.08	2.183	4.945	-4.721	1.965	-1.876
137	1.93	2.026	2.126	4.973	-4.747	1.985	-1.895
138	1.879	1.973	2.072	5.001	-4.772	2.005	-1.914
139	1.829	1.922	2.018	5.028	-4.797	2.026	-1.932
140	1.782	1.872	1.967	5.056	-4.822	2.046	-1.951
141	1.735	1.824	1.916	5.083	-4.847	2.066	-1.97
142	1.69	1.777	1.868	5.11	-4.871	2.087	-1.989
143	1.647	1.732	1.821	5.138	-4.896	2.107	-2.008
144	1.605	1.688	1.775	5.165	-4.92	2.128	-2.027
145	1.564	1.645	1.73	5.192	-4.945	2.148	-2.046
146	1.524	1.604	1.687	5.218	-4.969	2.169	-2.065
147	1.485	1.563	1.645	5.245	-4.993	2.19	-2.084
148	1.448	1.524	1.605	5.272	-5.017	2.211	-2.104
149	1.411	1.486	1.565	5.298	-5.041	2.231	-2.123
150	1.376	1.45	1.527	5.325	-5.065	2.252	-2.143
151	1.342	1.414	1.49	5.351	-5.088	2.274	-2.162
152	1.309	1.379	1.453	5.377	-5.112	2.295	-2.182
153	1.276	1.346	1.418	5.403	-5.135	2.316	-2.201
154	1.245	1.313	1.384	5.429	-5.159	2.337	-2.221
155	1.215	1.281	1.351	5.455	-5.182	2.359	-2.241
156	1.185	1.25	1.319	5.48	-5.205	2.38	-2.261
157	1.156	1.22	1.287	5.506	-5.228	2.402	-2.281
158	1.129	1.191	1.257	5.532	-5.251	2.423	-2.301
159	1.101	1.163	1.227	5.557	-5.274	2.445	-2.321
160	1.075	1.135	1.199	5.582	-5.297	2.467	-2.341
161	1.049	1.108	1.171	5.607	-5.319	2.489	-2.361
162	1.025	1.082	1.143	5.633	-5.342	2.511	-2.381
163	1	1.057	1.117	5.658	-5.364	2.533	-2.401
164	0.977	1.032	1.091	5.682	-5.386	2.555	-2.422
165	0.954	1.009	1.066	5.707	-5.408	2.577	-2.442
166	0.932	0.985	1.042	5.732	-5.431	2.599	-2.463
167	0.91	0.963	1.018	5.756	-5.453	2.622	-2.483
168	0.889	0.941	0.995	5.781	-5.474	2.644	-2.504
169	0.869	0.919	0.972	5.805	-5.496	2.667	-2.525
170	0.849	0.898	0.951	5.83	-5.518	2.689	-2.545
171	0.829	0.878	0.929	5.854	-5.54	2.712	-2.566
172	0.81	0.858	0.909	5.878	-5.561	2.735	-2.587
173	0.792	0.839	0.888	5.902	-5.582	2.757	-2.608
174	0.774	0.82	0.869	5.926	-5.604	2.78	-2.629
175	0.757	0.802	0.85	5.95	-5.625	2.803	-2.65
176	0.74	0.784	0.831	5.973	-5.646	2.826	-2.671
177	0.723	0.767	0.813	5.997	-5.667	2.849	-2.693
178	0.707	0.75	0.795	6.021	-5.688	2.873	-2.714
179	0.692	0.734	0.778	6.044	-5.709	2.896	-2.735

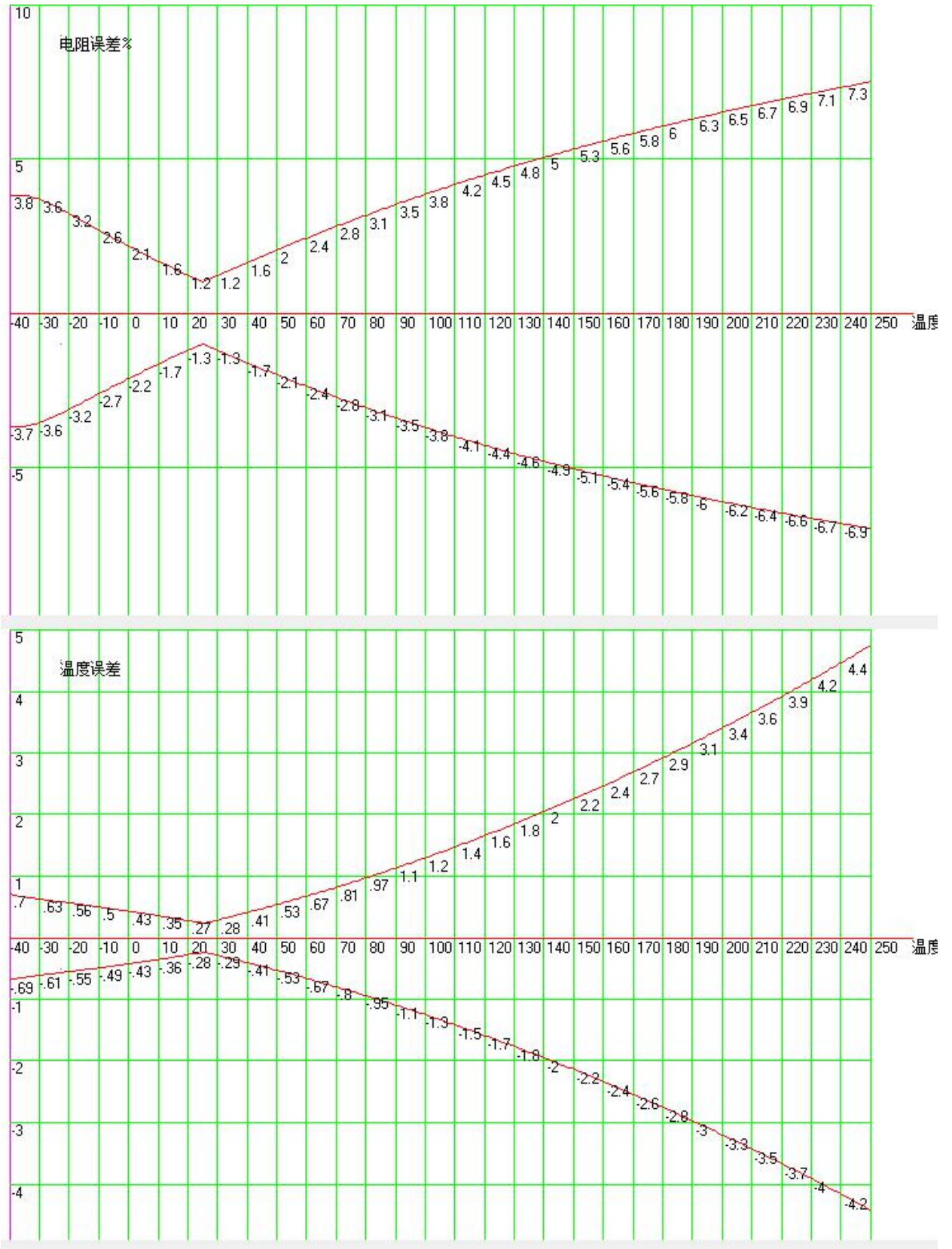
180	0.676	0.718	0.761	6.067	-5.73	2.919	-2.757
181	0.662	0.702	0.745	6.091	-5.75	2.943	-2.778
182	0.647	0.687	0.729	6.114	-5.771	2.966	-2.8
183	0.633	0.672	0.713	6.137	-5.792	2.99	-2.821
184	0.619	0.658	0.698	6.16	-5.812	3.013	-2.843
185	0.606	0.644	0.683	6.183	-5.832	3.037	-2.865
186	0.593	0.63	0.669	6.206	-5.853	3.061	-2.887
187	0.58	0.616	0.655	6.229	-5.873	3.085	-2.909
188	0.568	0.603	0.641	6.251	-5.893	3.109	-2.931
189	0.556	0.591	0.628	6.274	-5.913	3.133	-2.953
190	0.544	0.578	0.615	6.296	-5.933	3.157	-2.975
191	0.533	0.566	0.602	6.319	-5.952	3.181	-2.997
192	0.521	0.555	0.59	6.341	-5.972	3.206	-3.019
193	0.51	0.543	0.578	6.363	-5.992	3.23	-3.041
194	0.5	0.532	0.566	6.385	-6.011	3.254	-3.064
195	0.489	0.521	0.554	6.407	-6.031	3.279	-3.086
196	0.479	0.51	0.543	6.429	-6.05	3.303	-3.109
197	0.469	0.5	0.532	6.451	-6.07	3.328	-3.131
198	0.46	0.49	0.521	6.473	-6.089	3.353	-3.154
199	0.45	0.48	0.511	6.495	-6.108	3.378	-3.176
200	0.441	0.47	0.501	6.517	-6.127	3.403	-3.199
201	0.432	0.461	0.491	6.538	-6.146	3.428	-3.222
202	0.424	0.451	0.481	6.56	-6.165	3.453	-3.245
203	0.415	0.442	0.472	6.581	-6.184	3.478	-3.268
204	0.407	0.434	0.462	6.603	-6.203	3.503	-3.291
205	0.399	0.425	0.453	6.624	-6.222	3.528	-3.314
206	0.391	0.417	0.444	6.645	-6.24	3.554	-3.337
207	0.383	0.408	0.436	6.666	-6.259	3.579	-3.36
208	0.375	0.4	0.427	6.687	-6.277	3.605	-3.384
209	0.368	0.393	0.419	6.708	-6.296	3.63	-3.407
210	0.361	0.385	0.411	6.729	-6.314	3.656	-3.43
211	0.354	0.378	0.403	6.75	-6.332	3.682	-3.454
212	0.347	0.37	0.395	6.771	-6.351	3.707	-3.477
213	0.34	0.363	0.388	6.791	-6.369	3.733	-3.501
214	0.333	0.356	0.381	6.812	-6.387	3.759	-3.525
215	0.327	0.349	0.373	6.833	-6.405	3.785	-3.548
216	0.321	0.343	0.366	6.853	-6.423	3.811	-3.572
217	0.315	0.336	0.359	6.873	-6.441	3.838	-3.596
218	0.309	0.33	0.353	6.894	-6.458	3.864	-3.62
219	0.303	0.324	0.346	6.914	-6.476	3.89	-3.644
220	0.297	0.318	0.34	6.934	-6.494	3.917	-3.668
221	0.291	0.312	0.334	6.954	-6.511	3.943	-3.692
222	0.286	0.306	0.327	6.974	-6.529	3.97	-3.716
223	0.281	0.3	0.321	6.994	-6.546	3.997	-3.741
224	0.275	0.295	0.315	7.014	-6.564	4.023	-3.765

225	0.27	0.289	0.31	7.034	-6.581	4.05	-3.789
226	0.265	0.284	0.304	7.054	-6.598	4.077	-3.814
227	0.26	0.279	0.299	7.073	-6.615	4.104	-3.838
228	0.256	0.274	0.293	7.093	-6.633	4.131	-3.863
229	0.251	0.269	0.288	7.113	-6.65	4.158	-3.888
230	0.246	0.264	0.283	7.132	-6.667	4.186	-3.912
231	0.242	0.259	0.278	7.152	-6.684	4.213	-3.937
232	0.237	0.255	0.273	7.171	-6.7	4.24	-3.962
233	0.233	0.25	0.268	7.19	-6.717	4.268	-3.987
234	0.229	0.246	0.263	7.209	-6.734	4.295	-4.012
235	0.225	0.241	0.259	7.229	-6.751	4.323	-4.037
236	0.221	0.237	0.254	7.248	-6.767	4.351	-4.062
237	0.217	0.233	0.25	7.267	-6.784	4.378	-4.087
238	0.213	0.229	0.245	7.286	-6.8	4.406	-4.112
239	0.209	0.225	0.241	7.305	-6.817	4.434	-4.138
240	0.206	0.221	0.237	7.323	-6.833	4.462	-4.163
241	0.202	0.217	0.233	7.342	-6.849	4.49	-4.189
242	0.199	0.213	0.229	7.361	-6.865	4.518	-4.214
243	0.195	0.21	0.225	7.379	-6.882	4.546	-4.24
244	0.192	0.206	0.221	7.398	-6.898	4.575	-4.265
245	0.188	0.202	0.217	7.417	-6.914	4.603	-4.291
246	0.185	0.199	0.214	7.435	-6.93	4.632	-4.317
247	0.182	0.196	0.21	7.453	-6.946	4.66	-4.343
248	0.179	0.192	0.207	7.472	-6.961	4.689	-4.369
249	0.176	0.189	0.203	7.49	-6.977	4.717	-4.395
250	0.173	0.186	0.2	7.508	-6.993	4.746	-4.421



附表:2

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