



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-103F3950

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

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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:

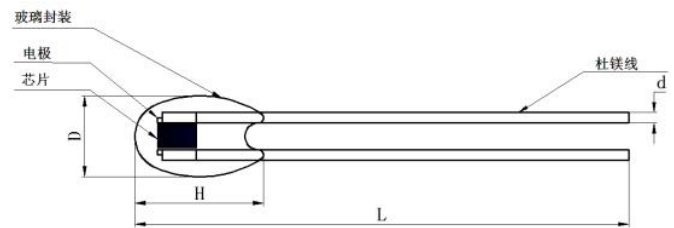
1. 电气性能

	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	10KΩ±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 0.9
1.4	时间常数	τ	静止空气中	sec	约 7
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 _u ±5	30±3
		2	室温	5±3
		3	T _l ±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	3.2±0.5	65±2.5	0.25±0.02

5. 产品型号说明

MF51 B 103 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

③ 103: 25℃的零功率电阻值 10KΩ

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;

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附表:1

南京时恒阻温特性表

R25=10K Ω 精度:±1% B25/50=3950K 精度:±1%(P390-7A)

温度(°C)	电阻(K Ω)			电阻精度(%)		温度精度(°C)	
	最小值	中心值	最大值	ΔR	$-\Delta R$	ΔT	$-\Delta T$
-40	289.720	302.800	316.438	4.504	-4.319	0.671	-0.643
-39	276.066	288.388	301.230	4.453	-4.272	0.665	-0.638
-38	262.311	273.878	285.926	4.399	-4.223	0.660	-0.633
-37	248.648	259.472	270.740	4.342	-4.171	0.654	-0.629
-36	235.238	245.341	255.852	4.284	-4.117	0.649	-0.624
-35	222.211	231.621	241.405	4.224	-4.062	0.644	-0.619
-34	209.664	218.414	227.507	4.163	-4.006	0.638	-0.614
-33	197.665	205.792	214.232	4.101	-3.949	0.633	-0.610
-32	186.257	193.798	201.625	4.038	-3.891	0.628	-0.605
-31	175.460	182.455	189.709	3.975	-3.833	0.622	-0.600
-30	165.280	171.765	178.486	3.913	-3.775	0.617	-0.595
-29	155.707	161.719	167.946	3.850	-3.717	0.611	-0.590
-28	146.723	152.296	158.066	3.788	-3.659	0.606	-0.585
-27	138.304	143.472	148.818	3.726	-3.602	0.600	-0.580
-26	130.421	135.214	140.169	3.664	-3.544	0.594	-0.575
-25	123.042	127.490	132.084	3.603	-3.488	0.589	-0.570
-24	116.137	120.264	124.526	3.543	-3.431	0.583	-0.565
-23	109.672	113.504	117.458	3.483	-3.375	0.577	-0.559
-22	103.618	107.177	110.847	3.424	-3.320	0.571	-0.554
-21	97.945	101.252	104.659	3.365	-3.265	0.565	-0.548
-20	92.625	95.698	98.862	3.307	-3.210	0.559	-0.543
-19	87.631	90.488	93.428	3.249	-3.156	0.553	-0.537
-18	82.941	85.597	88.329	3.191	-3.102	0.547	-0.531
-17	78.532	81.002	83.541	3.135	-3.049	0.540	-0.526
-16	74.383	76.681	79.042	3.078	-2.996	0.534	-0.520
-15	70.477	72.615	74.809	3.022	-2.943	0.527	-0.514
-14	66.796	68.785	70.825	2.966	-2.890	0.521	-0.508
-13	63.326	65.176	67.073	2.911	-2.838	0.514	-0.502
-12	60.051	61.772	63.536	2.855	-2.786	0.508	-0.495
-11	56.960	58.561	60.201	2.801	-2.734	0.501	-0.489
-10	54.040	55.530	57.055	2.746	-2.682	0.494	-0.483
-9	51.281	52.667	54.084	2.692	-2.631	0.488	-0.477
-8	48.673	49.962	51.280	2.637	-2.579	0.481	-0.470
-7	46.207	47.406	48.631	2.584	-2.528	0.474	-0.464
-6	43.875	44.990	46.128	2.530	-2.477	0.467	-0.457
-5	41.669	42.705	43.763	2.476	-2.426	0.460	-0.451
-4	39.581	40.545	41.528	2.423	-2.376	0.453	-0.444
-3	37.606	38.501	39.414	2.370	-2.325	0.446	-0.437
-2	35.736	36.568	37.416	2.318	-2.275	0.438	-0.430
-1	33.967	34.740	35.527	2.265	-2.225	0.431	-0.424

0	32.291	33.010	33.740	2.213	-2.175	0.424	-0.417
1	30.705	31.372	32.050	2.161	-2.125	0.417	-0.410
2	29.204	29.823	30.452	2.109	-2.075	0.409	-0.403
3	27.782	28.357	28.940	2.058	-2.026	0.402	-0.396
4	26.435	26.969	27.510	2.007	-1.977	0.394	-0.389
5	25.160	25.655	26.157	1.956	-1.928	0.387	-0.381
6	23.952	24.411	24.876	1.905	-1.879	0.379	-0.374
7	22.808	23.234	23.665	1.855	-1.831	0.372	-0.367
8	21.724	22.118	22.518	1.804	-1.782	0.364	-0.360
9	20.697	21.063	21.432	1.755	-1.734	0.356	-0.352
10	19.671	20.008	20.348	1.702	-1.684	0.349	-0.345
11	18.801	19.115	19.431	1.656	-1.639	0.341	-0.337
12	17.927	18.217	18.510	1.607	-1.592	0.333	-0.330
13	17.098	17.366	17.637	1.559	-1.544	0.325	-0.322
14	16.312	16.560	16.810	1.510	-1.498	0.317	-0.314
15	15.566	15.795	16.026	1.462	-1.451	0.309	-0.306
16	14.858	15.070	15.284	1.415	-1.405	0.301	-0.299
17	14.187	14.383	14.579	1.367	-1.359	0.292	-0.291
18	13.550	13.730	13.912	1.320	-1.313	0.284	-0.283
19	12.945	13.111	13.278	1.273	-1.267	0.276	-0.275
20	12.370	12.524	12.677	1.227	-1.222	0.268	-0.267
21	11.825	11.966	12.107	1.181	-1.177	0.259	-0.258
22	11.306	11.436	11.566	1.135	-1.132	0.251	-0.250
23	10.813	10.932	11.052	1.090	-1.088	0.242	-0.242
24	10.345	10.454	10.563	1.044	-1.044	0.234	-0.234
25	9.900	10.000	10.100	1.000	-1.000	0.225	-0.225
26	9.467	9.567	9.667	1.044	-1.043	0.237	-0.237
27	9.057	9.156	9.256	1.089	-1.087	0.248	-0.248
28	8.666	8.765	8.864	1.133	-1.130	0.260	-0.259
29	8.295	8.393	8.492	1.177	-1.173	0.272	-0.271
30	7.941	8.039	8.137	1.220	-1.215	0.284	-0.283
31	7.605	7.702	7.799	1.264	-1.258	0.296	-0.294
32	7.284	7.380	7.477	1.307	-1.300	0.308	-0.306
33	6.979	7.074	7.170	1.350	-1.341	0.320	-0.318
34	6.689	6.783	6.877	1.392	-1.383	0.332	-0.330
35	6.412	6.505	6.598	1.435	-1.424	0.344	-0.342
36	6.148	6.240	6.332	1.477	-1.465	0.357	-0.354
37	5.897	5.987	6.078	1.519	-1.506	0.369	-0.366
38	5.657	5.746	5.836	1.561	-1.546	0.382	-0.378
39	5.428	5.516	5.604	1.602	-1.587	0.394	-0.391
40	5.210	5.296	5.383	1.643	-1.627	0.407	-0.403
41	5.002	5.087	5.172	1.684	-1.666	0.420	-0.415
42	4.803	4.887	4.971	1.725	-1.706	0.433	-0.428
43	4.613	4.695	4.778	1.766	-1.745	0.446	-0.440
44	4.432	4.513	4.594	1.806	-1.784	0.458	-0.453

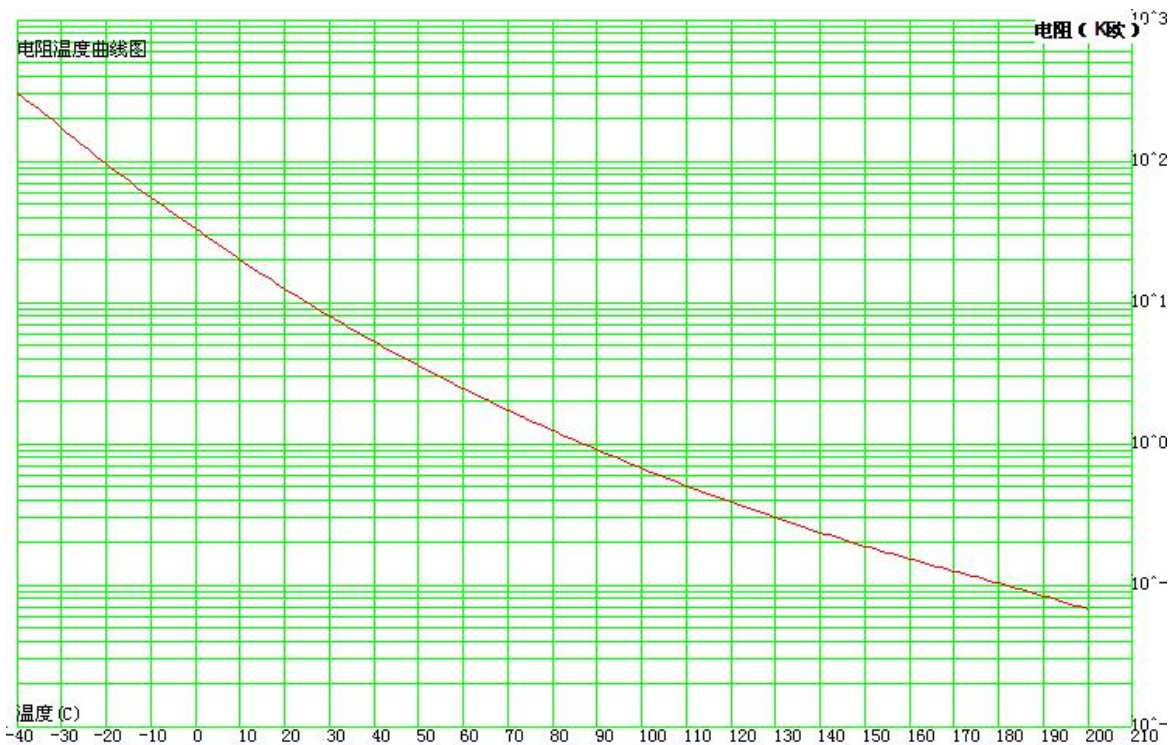
45	4.259	4.338	4.418	1.846	-1.823	0.472	-0.465
46	4.094	4.171	4.250	1.886	-1.861	0.485	-0.478
47	3.935	4.012	4.089	1.926	-1.900	0.498	-0.491
48	3.784	3.859	3.935	1.966	-1.938	0.511	-0.504
49	3.640	3.713	3.788	2.005	-1.975	0.525	-0.517
50	3.502	3.574	3.647	2.044	-2.013	0.538	-0.530
51	3.369	3.440	3.512	2.083	-2.050	0.551	-0.543
52	3.243	3.312	3.382	2.122	-2.087	0.565	-0.556
53	3.122	3.190	3.258	2.160	-2.124	0.579	-0.569
54	3.006	3.072	3.140	2.198	-2.161	0.592	-0.582
55	2.895	2.960	3.026	2.236	-2.197	0.606	-0.596
56	2.789	2.852	2.917	2.274	-2.233	0.620	-0.609
57	2.687	2.749	2.813	2.312	-2.269	0.634	-0.622
58	2.589	2.650	2.713	2.349	-2.305	0.648	-0.636
59	2.496	2.556	2.617	2.387	-2.341	0.662	-0.650
60	2.406	2.465	2.524	2.424	-2.376	0.677	-0.663
61	2.320	2.378	2.436	2.461	-2.411	0.691	-0.677
62	2.238	2.294	2.351	2.497	-2.446	0.705	-0.691
63	2.159	2.214	2.270	2.534	-2.481	0.720	-0.705
64	2.083	2.137	2.192	2.570	-2.515	0.734	-0.719
65	2.010	2.063	2.117	2.606	-2.550	0.749	-0.733
66	1.940	1.992	2.045	2.642	-2.584	0.763	-0.747
67	1.873	1.924	1.975	2.678	-2.618	0.778	-0.761
68	1.809	1.858	1.909	2.713	-2.651	0.793	-0.775
69	1.747	1.795	1.845	2.749	-2.685	0.808	-0.789
70	1.688	1.735	1.783	2.784	-2.718	0.823	-0.804
71	1.631	1.677	1.724	2.819	-2.751	0.838	-0.818
72	1.576	1.621	1.667	2.854	-2.784	0.853	-0.832
73	1.523	1.567	1.613	2.888	-2.817	0.868	-0.847
74	1.472	1.516	1.560	2.923	-2.850	0.884	-0.861
75	1.424	1.466	1.509	2.957	-2.882	0.899	-0.876
76	1.377	1.418	1.461	2.991	-2.914	0.914	-0.891
77	1.332	1.372	1.414	3.025	-2.946	0.930	-0.906
78	1.288	1.328	1.369	3.059	-2.978	0.946	-0.921
79	1.247	1.285	1.325	3.093	-3.010	0.961	-0.935
80	1.206	1.244	1.283	3.126	-3.041	0.977	-0.950
81	1.168	1.205	1.243	3.159	-3.072	0.993	-0.965
82	1.130	1.167	1.204	3.192	-3.103	1.009	-0.981
83	1.094	1.130	1.166	3.225	-3.134	1.025	-0.996
84	1.060	1.095	1.130	3.258	-3.165	1.041	-1.011
85	1.027	1.061	1.095	3.291	-3.196	1.057	-1.026
86	0.994	1.028	1.062	3.323	-3.226	1.073	-1.042
87	0.964	0.996	1.029	3.356	-3.256	1.089	-1.057
88	0.934	0.965	0.998	3.388	-3.287	1.106	-1.073
89	0.905	0.936	0.968	3.420	-3.316	1.122	-1.088

90	0.877	0.908	0.939	3.452	-3.346	1.139	-1.104
91	0.850	0.880	0.911	3.484	-3.376	1.155	-1.120
92	0.825	0.854	0.884	3.515	-3.405	1.172	-1.135
93	0.800	0.828	0.858	3.546	-3.435	1.189	-1.151
94	0.776	0.804	0.832	3.578	-3.464	1.206	-1.167
95	0.752	0.780	0.808	3.609	-3.493	1.223	-1.183
96	0.730	0.757	0.784	3.640	-3.522	1.240	-1.199
97	0.708	0.735	0.762	3.671	-3.550	1.257	-1.215
98	0.688	0.713	0.740	3.701	-3.579	1.274	-1.232
99	0.667	0.692	0.718	3.732	-3.607	1.291	-1.248
100	0.648	0.673	0.698	3.762	-3.635	1.308	-1.264
101	0.629	0.653	0.678	3.792	-3.663	1.326	-1.281
102	0.611	0.635	0.659	3.822	-3.691	1.343	-1.297
103	0.594	0.616	0.640	3.852	-3.719	1.361	-1.314
104	0.577	0.599	0.622	3.882	-3.747	1.378	-1.330
105	0.560	0.582	0.605	3.912	-3.774	1.396	-1.347
106	0.544	0.566	0.588	3.941	-3.801	1.414	-1.364
107	0.529	0.550	0.572	3.971	-3.829	1.432	-1.380
108	0.514	0.535	0.556	4.000	-3.855	1.449	-1.397
109	0.500	0.520	0.541	4.029	-3.882	1.467	-1.414
110	0.486	0.506	0.527	4.058	-3.909	1.486	-1.431
111	0.473	0.492	0.512	4.086	-3.935	1.504	-1.448
112	0.460	0.479	0.499	4.115	-3.962	1.522	-1.465
113	0.447	0.466	0.485	4.143	-3.988	1.540	-1.483
114	0.435	0.453	0.472	4.172	-4.014	1.559	-1.500
115	0.424	0.441	0.460	4.200	-4.040	1.577	-1.517
116	0.412	0.430	0.448	4.228	-4.066	1.596	-1.535
117	0.401	0.418	0.436	4.255	-4.091	1.614	-1.552
118	0.391	0.407	0.425	4.283	-4.117	1.633	-1.570
119	0.380	0.397	0.414	4.310	-4.142	1.652	-1.587
120	0.370	0.387	0.403	4.338	-4.167	1.671	-1.605
121	0.361	0.377	0.393	4.365	-4.192	1.690	-1.623
122	0.352	0.367	0.383	4.392	-4.217	1.709	-1.641
123	0.342	0.358	0.374	4.419	-4.241	1.728	-1.658
124	0.334	0.349	0.364	4.445	-4.266	1.747	-1.676
125	0.325	0.340	0.355	4.472	-4.290	1.766	-1.695
126	0.317	0.331	0.346	4.498	-4.314	1.786	-1.713
127	0.309	0.323	0.338	4.524	-4.338	1.805	-1.731
128	0.301	0.315	0.330	4.550	-4.362	1.825	-1.749
129	0.294	0.308	0.322	4.576	-4.386	1.844	-1.767
130	0.287	0.300	0.314	4.602	-4.409	1.864	-1.786
131	0.280	0.293	0.306	4.628	-4.432	1.884	-1.804
132	0.273	0.286	0.299	4.653	-4.456	1.904	-1.823
133	0.266	0.279	0.292	4.678	-4.479	1.924	-1.841
134	0.260	0.272	0.285	4.703	-4.501	1.944	-1.860

135	0.254	0.266	0.279	4.728	-4.524	1.964	-1.879
136	0.248	0.260	0.272	4.753	-4.547	1.984	-1.898
137	0.242	0.254	0.266	4.777	-4.569	2.004	-1.917
138	0.236	0.248	0.260	4.802	-4.591	2.024	-1.936
139	0.231	0.242	0.254	4.826	-4.613	2.045	-1.955
140	0.226	0.237	0.248	4.850	-4.635	2.065	-1.974
141	0.220	0.231	0.243	4.874	-4.657	2.086	-1.993
142	0.215	0.226	0.237	4.898	-4.679	2.107	-2.012
143	0.211	0.221	0.232	4.922	-4.700	2.127	-2.032
144	0.206	0.216	0.227	4.945	-4.722	2.148	-2.051
145	0.201	0.211	0.222	4.969	-4.743	2.169	-2.071
146	0.197	0.207	0.217	4.992	-4.764	2.190	-2.090
147	0.192	0.202	0.212	5.015	-4.785	2.211	-2.110
148	0.188	0.198	0.208	5.038	-4.806	2.232	-2.129
149	0.184	0.193	0.203	5.061	-4.827	2.253	-2.149
150	0.180	0.189	0.199	5.084	-4.847	2.275	-2.169
151	0.176	0.185	0.195	5.107	-4.868	2.296	-2.189
152	0.172	0.181	0.191	5.129	-4.888	2.318	-2.209
153	0.169	0.177	0.187	5.152	-4.909	2.339	-2.229
154	0.165	0.174	0.183	5.174	-4.929	2.361	-2.249
155	0.162	0.170	0.179	5.196	-4.949	2.382	-2.269
156	0.158	0.167	0.175	5.218	-4.969	2.404	-2.289
157	0.155	0.163	0.172	5.240	-4.989	2.426	-2.310
158	0.152	0.160	0.168	5.262	-5.008	2.448	-2.330
159	0.149	0.156	0.165	5.284	-5.028	2.470	-2.350
160	0.145	0.153	0.161	5.306	-5.048	2.492	-2.371
161	0.142	0.150	0.158	5.327	-5.067	2.514	-2.391
162	0.140	0.147	0.155	5.349	-5.087	2.536	-2.412
163	0.137	0.144	0.152	5.371	-5.106	2.559	-2.433
164	0.134	0.141	0.149	5.392	-5.126	2.581	-2.454
165	0.131	0.138	0.146	5.413	-5.145	2.604	-2.474
166	0.128	0.135	0.143	5.435	-5.164	2.626	-2.495
167	0.126	0.133	0.140	5.456	-5.183	2.649	-2.516
168	0.123	0.130	0.137	5.477	-5.202	2.671	-2.537
169	0.121	0.127	0.135	5.499	-5.222	2.694	-2.558
170	0.118	0.125	0.132	5.520	-5.241	2.717	-2.579
171	0.116	0.122	0.129	5.541	-5.260	2.740	-2.600
172	0.114	0.120	0.127	5.562	-5.279	2.763	-2.622
173	0.111	0.118	0.124	5.584	-5.298	2.786	-2.643
174	0.109	0.115	0.122	5.605	-5.317	2.809	-2.664
175	0.107	0.113	0.119	5.626	-5.336	2.832	-2.686
176	0.105	0.111	0.117	5.647	-5.355	2.855	-2.707
177	0.103	0.108	0.115	5.669	-5.374	2.878	-2.729
178	0.101	0.106	0.112	5.690	-5.393	2.902	-2.750
179	0.099	0.104	0.110	5.711	-5.412	2.925	-2.772

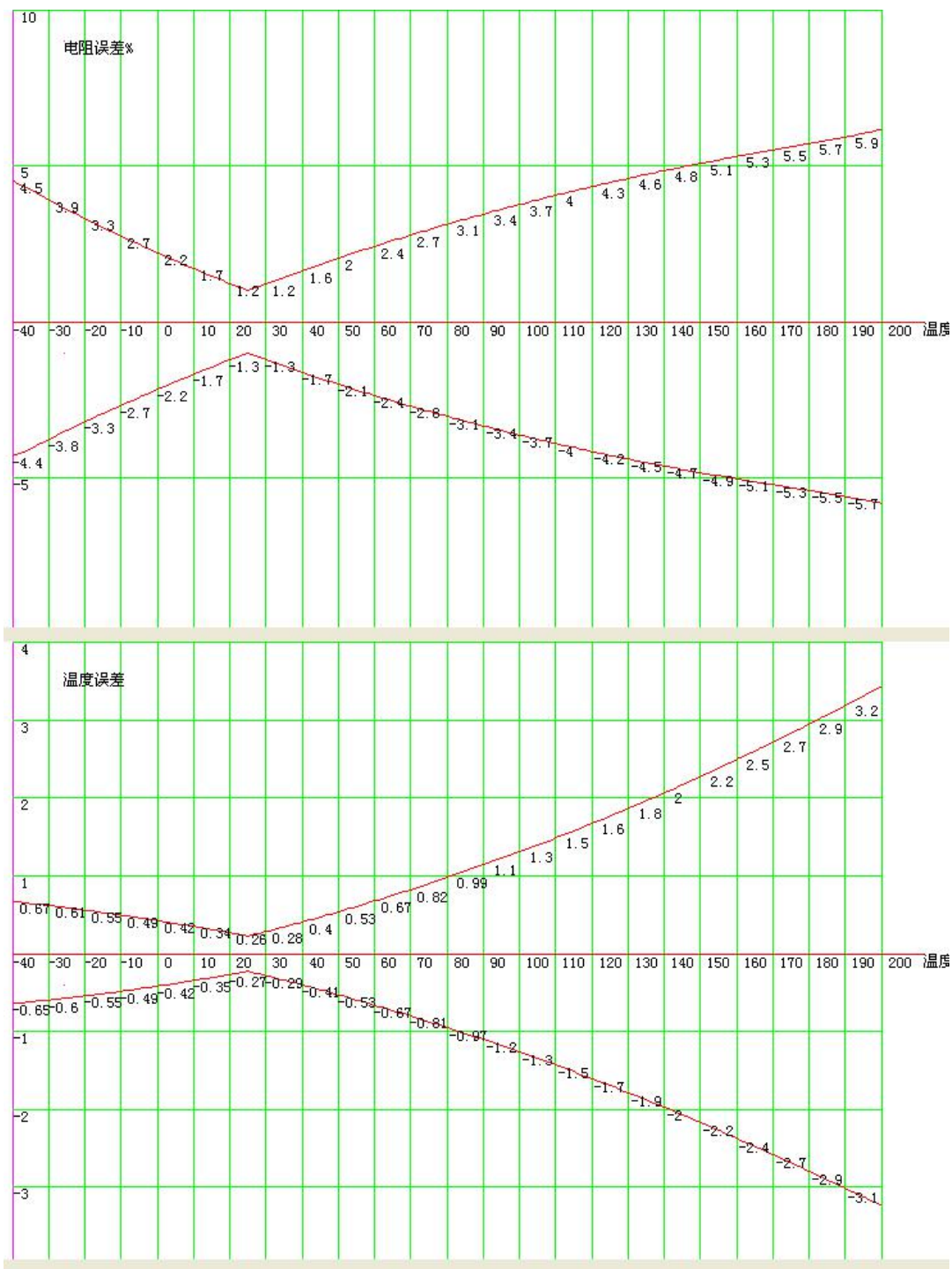
180	0.097	0.102	0.108	5.733	-5.431	2.949	-2.794
181	0.095	0.100	0.106	5.754	-5.450	2.972	-2.815
182	0.093	0.098	0.104	5.775	-5.469	2.996	-2.837
183	0.091	0.096	0.102	5.797	-5.489	3.019	-2.859
184	0.089	0.094	0.100	5.818	-5.508	3.043	-2.881
185	0.087	0.092	0.098	5.840	-5.527	3.067	-2.903
186	0.085	0.090	0.096	5.861	-5.546	3.091	-2.925
187	0.084	0.088	0.094	5.883	-5.566	3.115	-2.947
188	0.082	0.087	0.092	5.905	-5.585	3.139	-2.969
189	0.080	0.085	0.090	5.927	-5.604	3.163	-2.991
190	0.078	0.083	0.088	5.949	-5.624	3.187	-3.013
191	0.077	0.081	0.086	5.970	-5.643	3.211	-3.035
192	0.075	0.080	0.085	5.992	-5.663	3.235	-3.058
193	0.074	0.078	0.083	6.015	-5.683	3.260	-3.080
194	0.072	0.076	0.081	6.037	-5.702	3.284	-3.102
195	0.071	0.075	0.079	6.059	-5.722	3.309	-3.125
196	0.069	0.073	0.078	6.081	-5.742	3.333	-3.147
197	0.068	0.072	0.076	6.104	-5.762	3.358	-3.170
198	0.066	0.070	0.075	6.126	-5.782	3.382	-3.192
199	0.065	0.069	0.073	6.149	-5.802	3.407	-3.215
200	0.063	0.067	0.071	6.171	-5.822	3.432	-3.238
201	0.062	0.066	0.070	6.194	-5.842	3.457	-3.260
202	0.061	0.064	0.069	6.217	-5.862	3.482	-3.283
203	0.059	0.063	0.067	6.239	-5.882	3.506	-3.306
204	0.058	0.062	0.066	6.262	-5.903	3.532	-3.329
205	0.057	0.060	0.064	6.285	-5.923	3.557	-3.352
206	0.056	0.059	0.063	6.308	-5.943	3.582	-3.375
207	0.054	0.058	0.062	6.331	-5.963	3.607	-3.398
208	0.053	0.057	0.060	6.354	-5.984	3.632	-3.421
209	0.052	0.055	0.059	6.377	-6.004	3.658	-3.444
210	0.051	0.054	0.058	6.400	-6.024	3.683	-3.467
211	0.050	0.053	0.056	6.423	-6.044	3.709	-3.490
212	0.049	0.052	0.055	6.446	-6.065	3.734	-3.514
213	0.048	0.051	0.054	6.469	-6.085	3.760	-3.537
214	0.047	0.050	0.053	6.491	-6.105	3.786	-3.560
215	0.046	0.049	0.052	6.514	-6.125	3.812	-3.584
216	0.045	0.048	0.051	6.537	-6.145	3.837	-3.607
217	0.044	0.047	0.050	6.559	-6.165	3.863	-3.631
218	0.043	0.046	0.049	6.582	-6.185	3.890	-3.655
219	0.042	0.045	0.048	6.604	-6.204	3.916	-3.679
220	0.041	0.044	0.047	6.626	-6.224	3.942	-3.703
221	0.040	0.043	0.046	6.648	-6.243	3.968	-3.726
222	0.039	0.042	0.045	6.670	-6.262	3.995	-3.750
223	0.038	0.041	0.044	6.692	-6.281	4.021	-3.775
224	0.038	0.040	0.043	6.713	-6.300	4.048	-3.799

225	0.037	0.039	0.042	6.734	-6.318	4.075	-3.823
226	0.036	0.039	0.041	6.755	-6.337	4.101	-3.848
227	0.036	0.038	0.041	6.775	-6.354	4.128	-3.872
228	0.035	0.037	0.040	6.795	-6.372	4.155	-3.897
229	0.034	0.037	0.039	6.815	-6.389	4.182	-3.921
230	0.034	0.036	0.038	6.834	-6.406	4.210	-3.946
231	0.033	0.035	0.038	6.852	-6.422	4.237	-3.971
232	0.032	0.035	0.037	6.870	-6.438	4.264	-3.996
233	0.032	0.034	0.036	6.888	-6.453	4.292	-4.021
234	0.031	0.034	0.036	6.905	-6.468	4.320	-4.046
235	0.031	0.033	0.035	6.921	-6.483	4.348	-4.072
236	0.030	0.033	0.035	6.937	-6.496	4.375	-4.097
237	0.030	0.032	0.034	6.952	-6.510	4.404	-4.123
238	0.030	0.032	0.034	6.966	-6.522	4.432	-4.149
239	0.029	0.031	0.033	6.980	-6.534	4.460	-4.175
240	0.029	0.031	0.033	6.992	-6.545	4.489	-4.201
241	0.029	0.031	0.033	7.004	-6.555	4.517	-4.228
242	0.028	0.030	0.032	7.015	-6.564	4.546	-4.254
243	0.028	0.030	0.032	7.024	-6.573	4.575	-4.281
244	0.028	0.030	0.032	7.033	-6.580	4.604	-4.308
245	0.028	0.030	0.032	7.040	-6.587	4.634	-4.335
246	0.027	0.029	0.031	7.047	-6.592	4.663	-4.362
247	0.027	0.029	0.031	7.052	-6.596	4.693	-4.390
248	0.027	0.029	0.031	7.055	-6.600	4.723	-4.418
249	0.027	0.029	0.031	7.058	-6.602	4.753	-4.446
250	0.027	0.029	0.031	7.058	-6.602	4.783	-4.474



附表:2

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