



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

MF58 玻壳测温型 NTC 热敏电阻器(汽车产品)

产品规格:

PART NUMBER

MF58-103H3435 (UL: E240991)

日期:

DATE

2017 年 07 月 20 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: 鞠晓丽

技术部审核: _____

品质部审核: _____

生产部审核: _____

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南京时恒电子科技有限公司

MF58 玻壳测温型 NTC 热敏电阻器

型号: MF58-103H 3435

本规格书提供了南京时恒电子科技有限公司生产的 MF58 系列 NTC 热敏电阻的结构尺寸、产品性能、试验条件、使用要求的描述, 敬请贵司确认。
对本规格书产生疑义时, 请速与我们联系 (025-52121868), 若无疑义请确认回传, 若无回传, 我司将视为默认。
贵公司改变使用用途, 作用方法时, 请与我们联系。

客户名称:		
客户确认	确认:	时间:
	审核:	时间:

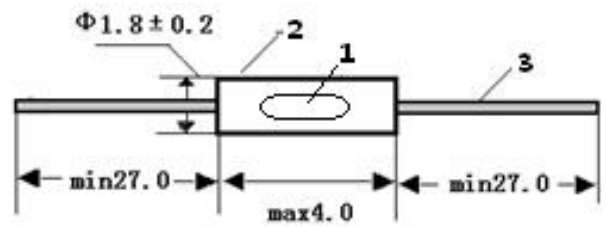
1. 电气性能

	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 _a =25±0.05℃ 测试功率≤0.1mw	KΩ	10KΩ±3%
1.2	B 值	B _{25/85}	$B = [(T_a \times T_b) / (T_b - T_a)] \times \ln(R_a / R_b)$ T _b =85℃±0.05℃	K	3435±1%
1.3	耗散系数	δ	静止空气中	mW/℃	≥2
1.4	时间常数	τ	静止空气中	sec	≤20
1.5	耐电压	/	1500V/AC 1min	/	无击穿或飞弧
1.6	绝缘电阻	/	500V/DC 1min	MΩ	≥500
1.7	工作温度范围	/	/	℃	-45 ~ 250
1.8	最大额定功率	P _{max}	/	mW	50
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	测试条件及方法	技术要求
2.1 引出端强度	固定电阻端, 拉力: 10±1N, 时间: 10±1 秒	无可见性损伤 R ₂₅ ΔR/R ≤ ±2%
2.2 可焊性	温度 245±5℃ 时间 2-3 秒	着锡面积 ≥95%
2.3 耐焊接热	锡锅温度: 260±5℃, 浸入深度距电阻体 6mm, 时间 5±1 秒	R ₂₅ ΔR/R ≤ ±2%
2.4 稳态湿热	温度: 40℃±2℃, 湿度: 93±2%, 时间: 500 小时	R ₂₅ ΔR/R ≤ ±2%
2.5 温度快速变化	-45℃30min→25℃5min→250℃30min→25℃5min, 反复 5 次	R ₂₅ ΔR/R ≤ ±2%
2.6 高温储存	温度: 250℃±5℃, 时间: 1000 小时	R ₂₅ ΔR/R ≤ ±2%
2.7 低温储存	温度: -45℃±5℃, 时间: 1000 小时	R ₂₅ ΔR/R ≤ ±2%

4. 外形尺寸: (单位: mm)



序号	名称	材料规格	数量	备注
1	元件	NTC 热敏电阻	1	
2	外壳	玻璃	1	
3	导线	Φ0.5±0.05 镀锡钢线	2	

5. 产品型号说明

MF58 103 H 3435

① ② ③ ④

- ① MF58: 玻壳测温型 NTC 热敏电阻
- ② 103: 25℃的零功率电阻值 10KΩ
- ③ H: 阻值精度代码 F-±1% G-±2% H-±3% J-±5%
- ④ 3435: B_{25/85} 值 3435K

6. 认证

- 6.1 质量管理体系认证 ISO9001:2008 (01115Q20270R5M)
ISO/TS16949: 2009 (0192416)
- 6.2 环境管理体系认证 ISO14001:2004 (01113E20060R2M)
- 6.3 环保检测报告 ROHS
- 6.4 产品 CQC 认证 (CQC09001033986)
- 6.5 江苏省高新技术产品认证 (150115G0377N)
- 6.6 安规认证 UL 1434 认证 (File # E240991)

3. 使用注意事项

- 3.1 本产品的用途: 温度测量与控制;
- 3.2 避免流过热敏电阻芯片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。

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附表:1

南京时恒阻温特性表

R25=10K Ω 精度:±3% B25/50=3380K B25/85=3435K 精度:±1%(P301-1F)

温度(°C)	电阻(kΩ)			电阻精度(%)		温度精度(°C)	
	最小值	中心值	最大值	△R	-△R	△T	-△T
-45	279.921	298.548	318.128	6.558	-6.239	1.034	-0.984
-44	254.325	270.986	288.479	6.455	-6.148	1.037	-0.988
-43	233.003	248.047	263.826	6.361	-6.065	1.039	-0.991
-42	214.966	228.660	243.007	6.274	-5.988	1.041	-0.993
-41	199.488	212.036	225.170	6.194	-5.917	1.042	-0.995
-40	186.028	197.590	209.681	6.119	-5.851	1.042	-0.996
-39	174.176	184.878	196.061	6.048	-5.788	1.042	-0.997
-38	163.620	173.564	183.946	5.981	-5.729	1.041	-0.997
-37	154.122	163.389	173.059	5.917	-5.672	1.040	-0.997
-36	145.495	154.154	163.182	5.856	-5.617	1.038	-0.996
-35	137.596	145.703	154.149	5.796	-5.564	1.036	-0.995
-34	130.312	137.914	145.828	5.738	-5.512	1.034	-0.994
-33	123.554	130.691	138.117	5.681	-5.461	1.032	-0.992
-32	117.251	123.959	130.933	5.625	-5.411	1.030	-0.991
-31	111.349	117.657	124.212	5.570	-5.362	1.027	-0.989
-30	105.802	111.738	117.902	5.516	-5.313	1.025	-0.987
-29	100.574	106.163	111.962	5.462	-5.264	1.022	-0.985
-28	95.637	100.900	106.358	5.408	-5.216	1.019	-0.983
-27	90.966	95.924	101.061	5.355	-5.168	1.016	-0.981
-26	86.542	91.213	96.050	5.302	-5.120	1.014	-0.979
-25	82.349	86.750	91.303	5.249	-5.073	1.011	-0.977
-24	78.370	82.517	86.806	5.196	-5.025	1.008	-0.975
-23	74.595	78.503	82.542	5.144	-4.978	1.005	-0.972
-22	71.012	74.696	78.499	5.092	-4.931	1.002	-0.970
-21	67.612	71.083	74.666	5.040	-4.883	0.999	-0.968
-20	64.384	67.657	71.032	4.988	-4.836	0.996	-0.966
-19	61.321	64.406	67.586	4.936	-4.790	0.994	-0.964
-18	58.415	61.324	64.319	4.885	-4.743	0.991	-0.962
-17	55.658	58.401	61.224	4.833	-4.696	0.988	-0.960
-16	53.042	55.629	58.290	4.782	-4.650	0.985	-0.958
-15	50.562	53.003	55.511	4.732	-4.604	0.982	-0.956
-14	48.210	50.513	52.878	4.681	-4.558	0.979	-0.954
-13	45.981	48.154	50.384	4.631	-4.512	0.977	-0.951
-12	43.867	45.918	48.022	4.582	-4.467	0.974	-0.949
-11	41.863	43.800	45.786	4.532	-4.422	0.971	-0.947
-10	39.964	41.794	43.667	4.483	-4.377	0.968	-0.945
-9	38.164	39.892	41.661	4.435	-4.332	0.965	-0.943
-8	36.457	38.091	39.761	4.386	-4.288	0.962	-0.941
-7	34.839	36.383	37.962	4.338	-4.244	0.959	-0.938

-6	33.305	34.765	36.257	4.291	-4.201	0.956	-0.936
-5	31.849	33.231	34.642	4.244	-4.157	0.953	-0.934
-4	30.469	31.777	33.111	4.197	-4.115	0.950	-0.931
-3	29.160	30.398	31.660	4.151	-4.072	0.947	-0.929
-2	27.917	29.089	30.283	4.105	-4.030	0.944	-0.926
-1	26.737	27.847	28.978	4.060	-3.988	0.940	-0.924
0	25.777	26.838	27.917	4.021	-3.952	0.933	-0.917
1	24.551	25.549	26.564	3.970	-3.905	0.934	-0.918
2	23.540	24.486	25.447	3.926	-3.864	0.930	-0.916
3	22.578	23.475	24.387	3.882	-3.824	0.927	-0.913
4	21.662	22.514	23.379	3.839	-3.784	0.923	-0.910
5	20.791	21.600	22.420	3.796	-3.744	0.919	-0.907
6	19.962	20.730	21.508	3.753	-3.704	0.915	-0.903
7	19.172	19.902	20.641	3.711	-3.665	0.912	-0.900
8	18.420	19.113	19.814	3.669	-3.626	0.908	-0.897
9	17.702	18.361	19.027	3.627	-3.587	0.903	-0.893
10	17.118	17.750	18.387	3.592	-3.554	0.891	-0.882
11	16.364	16.960	17.561	3.545	-3.511	0.895	-0.886
12	15.740	16.307	16.878	3.504	-3.473	0.891	-0.883
13	15.144	15.683	16.227	3.464	-3.435	0.886	-0.879
14	14.575	15.088	15.604	3.424	-3.398	0.882	-0.875
15	14.030	14.518	15.010	3.384	-3.360	0.877	-0.871
16	13.509	13.974	14.441	3.345	-3.324	0.872	-0.867
17	13.011	13.453	13.898	3.305	-3.287	0.867	-0.862
18	12.533	12.954	13.378	3.266	-3.250	0.862	-0.858
19	12.076	12.477	12.880	3.228	-3.214	0.857	-0.853
20	11.637	12.019	12.403	3.189	-3.178	0.852	-0.849
21	11.217	11.581	11.946	3.151	-3.142	0.847	-0.844
22	10.814	11.161	11.508	3.113	-3.106	0.841	-0.839
23	10.427	10.758	11.088	3.075	-3.070	0.836	-0.834
24	10.056	10.371	10.686	3.037	-3.035	0.830	-0.829
25	9.700	10.000	10.300	3.000	-3.000	0.825	-0.825
26	9.350	9.643	9.936	3.037	-3.035	0.839	-0.838
27	9.015	9.301	9.587	3.074	-3.070	0.854	-0.853
28	8.693	8.972	9.251	3.111	-3.105	0.869	-0.867
29	8.384	8.655	8.928	3.148	-3.139	0.884	-0.881
30	8.086	8.351	8.618	3.185	-3.174	0.899	-0.896
31	7.801	8.059	8.319	3.222	-3.209	0.914	-0.910
32	7.526	7.778	8.032	3.259	-3.243	0.929	-0.924
33	7.261	7.508	7.755	3.295	-3.277	0.944	-0.939
34	7.007	7.247	7.489	3.332	-3.311	0.959	-0.953
35	6.763	6.997	7.232	3.368	-3.345	0.975	-0.968
36	6.527	6.756	6.986	3.404	-3.379	0.990	-0.983
37	6.301	6.523	6.748	3.440	-3.413	1.005	-0.997
38	6.083	6.300	6.519	3.476	-3.447	1.021	-1.012

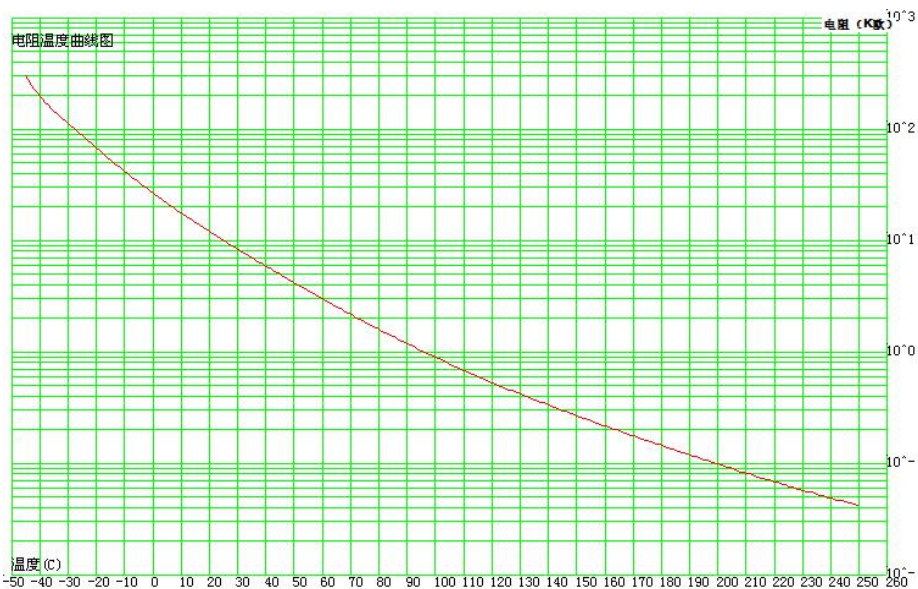
39	5.873	6.084	6.298	3.512	-3.480	1.036	-1.026
40	5.670	5.877	6.086	3.548	-3.514	1.052	-1.041
41	5.476	5.677	5.881	3.584	-3.547	1.067	-1.056
42	5.288	5.485	5.683	3.620	-3.580	1.083	-1.071
43	5.107	5.299	5.493	3.656	-3.613	1.098	-1.086
44	4.933	5.120	5.309	3.691	-3.647	1.114	-1.101
45	4.766	4.948	5.132	3.727	-3.680	1.130	-1.116
46	4.604	4.782	4.962	3.762	-3.712	1.146	-1.131
47	4.448	4.621	4.797	3.798	-3.745	1.162	-1.146
48	4.298	4.467	4.638	3.833	-3.778	1.178	-1.161
49	4.153	4.318	4.485	3.868	-3.811	1.194	-1.176
50	4.014	4.175	4.337	3.903	-3.843	1.210	-1.192
51	3.880	4.036	4.195	3.938	-3.875	1.227	-1.207
52	3.750	3.903	4.058	3.973	-3.908	1.243	-1.223
53	3.625	3.774	3.925	4.008	-3.940	1.260	-1.238
54	3.505	3.650	3.797	4.043	-3.972	1.276	-1.254
55	3.389	3.530	3.674	4.078	-4.004	1.293	-1.270
56	3.277	3.414	3.555	4.112	-4.036	1.309	-1.285
57	3.169	3.303	3.440	4.147	-4.068	1.326	-1.301
58	3.065	3.196	3.329	4.181	-4.100	1.343	-1.317
59	2.964	3.092	3.222	4.215	-4.131	1.360	-1.333
60	2.867	2.992	3.119	4.250	-4.163	1.377	-1.349
61	2.774	2.896	3.020	4.284	-4.194	1.394	-1.365
62	2.684	2.802	2.924	4.318	-4.225	1.412	-1.381
63	2.597	2.713	2.831	4.352	-4.257	1.429	-1.398
64	2.514	2.626	2.741	4.386	-4.288	1.446	-1.414
65	2.433	2.543	2.655	4.419	-4.319	1.464	-1.431
66	2.355	2.462	2.572	4.453	-4.349	1.482	-1.447
67	2.280	2.384	2.491	4.487	-4.380	1.499	-1.464
68	2.207	2.309	2.414	4.520	-4.411	1.517	-1.480
69	2.137	2.237	2.339	4.553	-4.441	1.535	-1.497
70	2.070	2.167	2.266	4.587	-4.471	1.553	-1.514
71	2.005	2.099	2.196	4.620	-4.502	1.571	-1.531
72	1.942	2.034	2.129	4.653	-4.532	1.590	-1.548
73	1.882	1.971	2.064	4.685	-4.562	1.608	-1.565
74	1.823	1.911	2.001	4.718	-4.591	1.626	-1.583
75	1.767	1.852	1.940	4.751	-4.621	1.645	-1.600
76	1.712	1.796	1.882	4.783	-4.651	1.664	-1.617
77	1.660	1.741	1.825	4.815	-4.680	1.682	-1.635
78	1.609	1.689	1.770	4.848	-4.709	1.701	-1.653
79	1.560	1.638	1.718	4.880	-4.738	1.720	-1.670
80	1.513	1.589	1.667	4.912	-4.767	1.739	-1.688
81	1.467	1.541	1.617	4.943	-4.796	1.758	-1.706
82	1.423	1.495	1.570	4.975	-4.825	1.778	-1.724
83	1.381	1.451	1.524	5.006	-4.853	1.797	-1.742

84	1.340	1.409	1.480	5.038	-4.882	1.817	-1.760
85	1.317	1.385	1.455	5.056	-4.898	1.843	-1.786
86	1.262	1.327	1.395	5.100	-4.938	1.856	-1.797
87	1.225	1.289	1.355	5.131	-4.966	1.876	-1.815
88	1.189	1.252	1.316	5.162	-4.994	1.896	-1.834
89	1.155	1.216	1.279	5.192	-5.022	1.916	-1.853
90	1.121	1.181	1.243	5.223	-5.049	1.936	-1.871
91	1.089	1.148	1.208	5.253	-5.077	1.956	-1.890
92	1.058	1.115	1.174	5.283	-5.104	1.976	-1.909
93	1.028	1.084	1.141	5.313	-5.131	1.997	-1.928
94	0.999	1.053	1.110	5.343	-5.158	2.017	-1.947
95	0.971	1.024	1.079	5.373	-5.185	2.038	-1.967
96	0.944	0.996	1.050	5.403	-5.211	2.059	-1.986
97	0.918	0.968	1.021	5.432	-5.238	2.080	-2.005
98	0.892	0.942	0.993	5.461	-5.264	2.101	-2.025
99	0.868	0.916	0.966	5.491	-5.290	2.122	-2.044
100	0.857	0.906	0.955	5.503	-5.301	2.151	-2.072
101	0.821	0.867	0.915	5.548	-5.342	2.164	-2.084
102	0.799	0.844	0.891	5.577	-5.368	2.186	-2.104
103	0.777	0.821	0.867	5.606	-5.393	2.207	-2.124
104	0.756	0.800	0.845	5.634	-5.419	2.229	-2.144
105	0.736	0.778	0.823	5.662	-5.444	2.251	-2.164
106	0.717	0.758	0.801	5.690	-5.469	2.272	-2.184
107	0.698	0.738	0.781	5.718	-5.494	2.294	-2.204
108	0.679	0.719	0.760	5.746	-5.519	2.316	-2.225
109	0.662	0.701	0.741	5.774	-5.544	2.339	-2.245
110	0.644	0.683	0.722	5.801	-5.568	2.361	-2.266
111	0.628	0.665	0.704	5.829	-5.593	2.383	-2.287
112	0.612	0.648	0.686	5.856	-5.617	2.406	-2.307
113	0.596	0.632	0.669	5.883	-5.641	2.428	-2.328
114	0.581	0.616	0.652	5.910	-5.665	2.451	-2.349
115	0.566	0.600	0.636	5.937	-5.689	2.474	-2.370
116	0.552	0.586	0.621	5.963	-5.713	2.496	-2.391
117	0.538	0.571	0.605	5.990	-5.736	2.519	-2.413
118	0.525	0.557	0.591	6.016	-5.760	2.542	-2.434
119	0.512	0.543	0.576	6.043	-5.783	2.566	-2.455
120	0.499	0.530	0.562	6.069	-5.806	2.589	-2.477
121	0.487	0.517	0.549	6.095	-5.829	2.612	-2.498
122	0.475	0.505	0.536	6.121	-5.852	2.636	-2.520
123	0.464	0.493	0.523	6.146	-5.875	2.659	-2.542
124	0.453	0.481	0.511	6.172	-5.898	2.683	-2.564
125	0.442	0.470	0.499	6.197	-5.920	2.706	-2.585
126	0.431	0.458	0.487	6.223	-5.943	2.730	-2.607
127	0.421	0.448	0.476	6.248	-5.965	2.754	-2.630
128	0.411	0.437	0.465	6.273	-5.988	2.778	-2.652

129	0.401	0.427	0.454	6.298	-6.010	2.802	-2.674
130	0.392	0.417	0.443	6.323	-6.032	2.826	-2.696
131	0.383	0.407	0.433	6.348	-6.054	2.851	-2.719
132	0.374	0.398	0.423	6.373	-6.075	2.875	-2.741
133	0.365	0.389	0.414	6.397	-6.097	2.900	-2.764
134	0.357	0.380	0.405	6.422	-6.119	2.924	-2.786
135	0.349	0.372	0.396	6.446	-6.140	2.949	-2.809
136	0.341	0.363	0.387	6.470	-6.162	2.974	-2.832
137	0.333	0.355	0.378	6.494	-6.183	2.998	-2.855
138	0.325	0.347	0.370	6.518	-6.204	3.023	-2.877
139	0.318	0.339	0.362	6.542	-6.225	3.048	-2.900
140	0.311	0.332	0.354	6.566	-6.246	3.073	-2.924
141	0.304	0.324	0.346	6.590	-6.267	3.099	-2.947
142	0.297	0.317	0.338	6.614	-6.288	3.124	-2.970
143	0.291	0.310	0.331	6.637	-6.308	3.149	-2.993
144	0.284	0.304	0.324	6.661	-6.329	3.175	-3.017
145	0.278	0.297	0.317	6.684	-6.350	3.200	-3.040
146	0.272	0.291	0.310	6.707	-6.370	3.226	-3.064
147	0.266	0.284	0.304	6.731	-6.390	3.252	-3.087
148	0.260	0.278	0.297	6.754	-6.411	3.277	-3.111
149	0.255	0.272	0.291	6.777	-6.431	3.303	-3.135
150	0.249	0.267	0.285	6.800	-6.451	3.329	-3.159
151	0.244	0.261	0.279	6.823	-6.471	3.355	-3.182
152	0.239	0.255	0.273	6.845	-6.491	3.381	-3.206
153	0.234	0.250	0.267	6.868	-6.511	3.408	-3.230
154	0.229	0.245	0.262	6.891	-6.531	3.434	-3.254
155	0.224	0.240	0.256	6.913	-6.550	3.460	-3.279
156	0.219	0.235	0.251	6.936	-6.570	3.487	-3.303
157	0.215	0.230	0.246	6.958	-6.590	3.513	-3.327
158	0.210	0.225	0.241	6.981	-6.609	3.540	-3.352
159	0.206	0.220	0.236	7.003	-6.629	3.567	-3.376
160	0.201	0.216	0.231	7.025	-6.648	3.593	-3.401
161	0.197	0.211	0.226	7.047	-6.667	3.620	-3.425
162	0.193	0.207	0.222	7.070	-6.687	3.647	-3.450
163	0.189	0.203	0.217	7.092	-6.706	3.674	-3.474
164	0.185	0.199	0.213	7.114	-6.725	3.701	-3.499
165	0.181	0.195	0.208	7.135	-6.744	3.729	-3.524
166	0.178	0.191	0.204	7.157	-6.763	3.756	-3.549
167	0.174	0.187	0.200	7.179	-6.782	3.783	-3.574
168	0.171	0.183	0.196	7.201	-6.801	3.811	-3.599
169	0.167	0.179	0.192	7.223	-6.820	3.838	-3.624
170	0.164	0.176	0.189	7.244	-6.839	3.866	-3.649
171	0.160	0.172	0.185	7.266	-6.857	3.893	-3.675
172	0.157	0.169	0.181	7.287	-6.876	3.921	-3.700
173	0.154	0.165	0.178	7.309	-6.895	3.949	-3.725

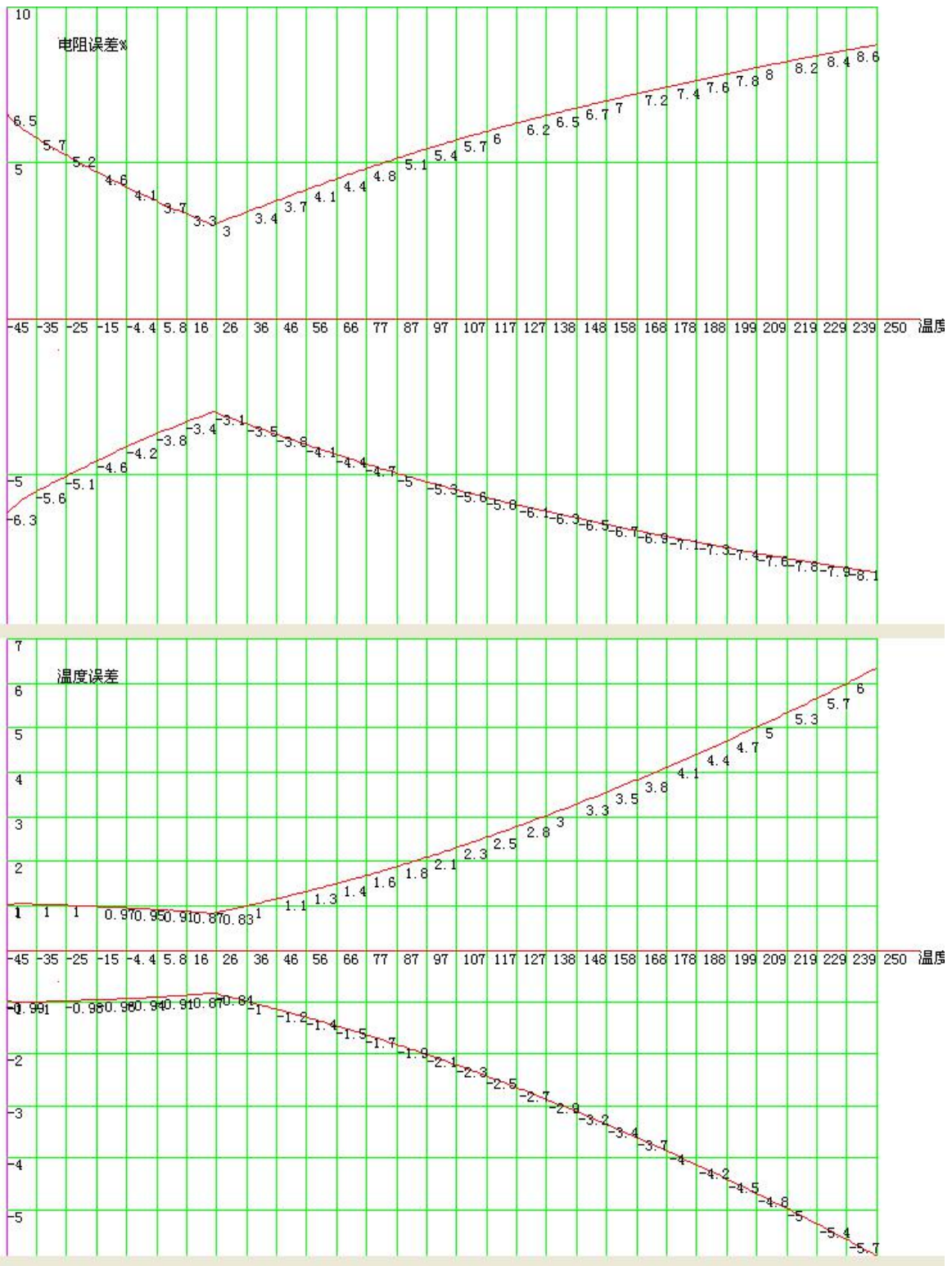
174	0.151	0.162	0.174	7.330	-6.913	3.977	-3.751
175	0.148	0.159	0.171	7.352	-6.932	4.005	-3.776
176	0.145	0.156	0.167	7.373	-6.950	4.033	-3.802
177	0.142	0.153	0.164	7.394	-6.969	4.061	-3.827
178	0.139	0.150	0.161	7.415	-6.987	4.089	-3.853
179	0.137	0.147	0.158	7.437	-7.006	4.118	-3.879
180	0.134	0.144	0.155	7.458	-7.024	4.146	-3.905
181	0.131	0.141	0.152	7.479	-7.042	4.174	-3.931
182	0.129	0.138	0.149	7.500	-7.060	4.203	-3.957
183	0.126	0.136	0.146	7.521	-7.078	4.232	-3.983
184	0.124	0.133	0.143	7.542	-7.096	4.260	-4.009
185	0.121	0.131	0.140	7.563	-7.114	4.289	-4.035
186	0.119	0.128	0.138	7.583	-7.132	4.318	-4.061
187	0.117	0.126	0.135	7.604	-7.150	4.347	-4.087
188	0.114	0.123	0.133	7.625	-7.168	4.376	-4.114
189	0.112	0.121	0.130	7.646	-7.186	4.405	-4.140
190	0.110	0.118	0.128	7.666	-7.204	4.434	-4.167
191	0.108	0.116	0.125	7.687	-7.222	4.463	-4.193
192	0.106	0.114	0.123	7.707	-7.239	4.493	-4.220
193	0.104	0.112	0.121	7.728	-7.257	4.522	-4.247
194	0.102	0.110	0.118	7.748	-7.275	4.552	-4.273
195	0.100	0.108	0.116	7.769	-7.292	4.581	-4.300
196	0.098	0.106	0.114	7.789	-7.310	4.611	-4.327
197	0.096	0.104	0.112	7.809	-7.327	4.641	-4.354
198	0.094	0.102	0.110	7.830	-7.345	4.670	-4.381
199	0.092	0.100	0.108	7.850	-7.362	4.700	-4.408
200	0.091	0.098	0.106	7.870	-7.379	4.730	-4.435
201	0.089	0.096	0.104	7.890	-7.396	4.760	-4.463
202	0.087	0.094	0.102	7.910	-7.414	4.791	-4.490
203	0.086	0.093	0.100	7.930	-7.431	4.821	-4.517
204	0.084	0.091	0.098	7.950	-7.448	4.851	-4.545
205	0.083	0.089	0.096	7.970	-7.465	4.882	-4.572
206	0.081	0.088	0.095	7.990	-7.482	4.912	-4.600
207	0.080	0.086	0.093	8.010	-7.499	4.943	-4.627
208	0.078	0.084	0.091	8.029	-7.516	4.973	-4.655
209	0.077	0.083	0.090	8.049	-7.533	5.004	-4.683
210	0.075	0.081	0.088	8.069	-7.549	5.035	-4.711
211	0.074	0.080	0.087	8.088	-7.566	5.066	-4.739
212	0.073	0.079	0.085	8.108	-7.583	5.097	-4.767
213	0.071	0.077	0.083	8.127	-7.599	5.128	-4.795
214	0.070	0.076	0.082	8.146	-7.616	5.159	-4.823
215	0.069	0.074	0.081	8.166	-7.632	5.190	-4.851
216	0.067	0.073	0.079	8.185	-7.649	5.222	-4.880
217	0.066	0.072	0.078	8.204	-7.665	5.253	-4.908
218	0.065	0.071	0.076	8.223	-7.681	5.285	-4.936

219	0.064	0.069	0.075	8.242	-7.697	5.316	-4.965
220	0.063	0.068	0.074	8.261	-7.714	5.348	-4.994
221	0.062	0.067	0.073	8.280	-7.730	5.380	-5.022
222	0.061	0.066	0.071	8.298	-7.746	5.412	-5.051
223	0.060	0.065	0.070	8.317	-7.762	5.444	-5.080
224	0.059	0.064	0.069	8.336	-7.777	5.476	-5.109
225	0.058	0.062	0.068	8.354	-7.793	5.508	-5.138
226	0.057	0.061	0.067	8.373	-7.809	5.540	-5.167
227	0.056	0.060	0.065	8.391	-7.824	5.573	-5.196
228	0.055	0.059	0.064	8.409	-7.840	5.605	-5.226
229	0.054	0.058	0.063	8.428	-7.856	5.638	-5.255
230	0.053	0.057	0.062	8.446	-7.871	5.670	-5.285
231	0.052	0.056	0.061	8.464	-7.886	5.703	-5.314
232	0.051	0.055	0.060	8.482	-7.901	5.736	-5.344
233	0.050	0.055	0.059	8.499	-7.917	5.769	-5.373
234	0.049	0.054	0.058	8.517	-7.932	5.802	-5.403
235	0.049	0.053	0.057	8.535	-7.947	5.835	-5.433
236	0.048	0.052	0.056	8.552	-7.961	5.869	-5.463
237	0.047	0.051	0.056	8.570	-7.976	5.902	-5.493
238	0.046	0.050	0.055	8.587	-7.991	5.936	-5.523
239	0.045	0.049	0.054	8.604	-8.005	5.969	-5.554
240	0.045	0.049	0.053	8.621	-8.020	6.003	-5.584
241	0.044	0.048	0.052	8.638	-8.034	6.037	-5.615
242	0.043	0.047	0.051	8.655	-8.048	6.071	-5.645
243	0.043	0.046	0.051	8.672	-8.063	6.105	-5.676
244	0.042	0.046	0.050	8.689	-8.077	6.139	-5.707
245	0.041	0.045	0.049	8.705	-8.091	6.173	-5.737
246	0.041	0.044	0.048	8.721	-8.105	6.207	-5.768
247	0.040	0.044	0.048	8.738	-8.118	6.242	-5.799
248	0.040	0.043	0.047	8.754	-8.132	6.277	-5.831
249	0.039	0.042	0.046	8.770	-8.145	6.311	-5.862
250	0.038	0.042	0.046	8.786	-8.159	6.346	-5.893



附表:2

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