



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

MF58-103F3435 (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: MF58-103F 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:

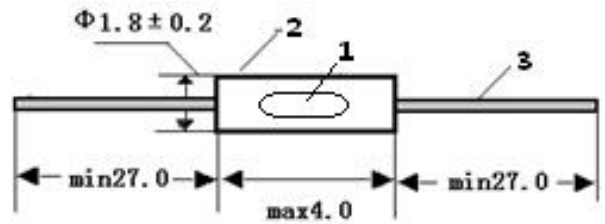
1. 电气性能

	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±1%
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 F 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 F: 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: $\pm 1\%$ B25/50=3380K B25/85=3435K 精度: $\pm 1\%$ (P301-1F)

温度($^{\circ}\text{C}$)	电阻(k 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	$-\Delta T$
-45	285.693	298.548	311.950	4.489	-4.305	0.708	-0.679
-44	259.569	270.986	282.878	4.388	-4.213	0.705	-0.677
-43	237.807	248.047	258.703	4.295	-4.128	0.702	-0.674
-42	219.398	228.660	238.288	4.210	-4.050	0.698	-0.672
-41	203.601	212.036	220.798	4.132	-3.977	0.695	-0.669
-40	189.863	197.590	205.609	4.058	-3.910	0.691	-0.666
-39	177.767	184.878	192.254	3.989	-3.846	0.687	-0.662
-38	166.994	173.564	180.375	3.924	-3.785	0.683	-0.659
-37	157.299	163.389	169.698	3.861	-3.727	0.678	-0.655
-36	148.495	154.154	160.014	3.800	-3.671	0.674	-0.651
-35	140.433	145.703	151.156	3.742	-3.616	0.669	-0.647
-34	132.999	137.914	142.997	3.685	-3.564	0.664	-0.642
-33	126.101	130.691	135.435	3.629	-3.512	0.659	-0.638
-32	119.669	123.959	128.390	3.574	-3.461	0.654	-0.633
-31	113.645	117.657	121.800	3.520	-3.410	0.649	-0.629
-30	107.983	111.738	115.613	3.467	-3.360	0.644	-0.624
-29	102.648	106.163	109.788	3.414	-3.311	0.639	-0.619
-28	97.609	100.900	104.293	3.361	-3.262	0.633	-0.615
-27	92.842	95.924	99.099	3.309	-3.213	0.628	-0.610
-26	88.327	91.213	94.185	3.257	-3.164	0.622	-0.605
-25	84.046	86.750	89.531	3.205	-3.115	0.617	-0.600
-24	79.986	82.517	85.120	3.154	-3.067	0.611	-0.595
-23	76.133	78.503	80.939	3.102	-3.019	0.606	-0.590
-22	72.477	74.696	76.975	3.051	-2.970	0.600	-0.584
-21	69.006	71.083	73.216	3.000	-2.922	0.595	-0.579
-20	65.712	67.657	69.652	2.949	-2.874	0.589	-0.574
-19	62.586	64.406	66.273	2.898	-2.826	0.583	-0.569
-18	59.619	61.324	63.070	2.848	-2.779	0.577	-0.563
-17	56.805	58.401	60.035	2.798	-2.731	0.572	-0.558
-16	54.136	55.629	57.158	2.748	-2.684	0.566	-0.553
-15	51.605	53.003	54.433	2.698	-2.637	0.560	-0.547
-14	49.204	50.513	51.851	2.649	-2.590	0.554	-0.542
-13	46.929	48.154	49.406	2.600	-2.543	0.548	-0.536
-12	44.771	45.918	47.090	2.551	-2.497	0.542	-0.531
-11	42.726	43.800	44.897	2.502	-2.451	0.536	-0.525
-10	40.788	41.794	42.819	2.454	-2.405	0.530	-0.519
-9	38.951	39.892	40.852	2.407	-2.360	0.524	-0.513
-8	37.209	38.091	38.989	2.359	-2.315	0.517	-0.508
-7	35.557	36.383	37.225	2.312	-2.270	0.511	-0.502

-6	33.991	34.765	35.553	2.266	-2.225	0.505	-0.496
-5	32.506	33.231	33.969	2.220	-2.181	0.498	-0.490
-4	31.097	31.777	32.468	2.174	-2.138	0.492	-0.484
-3	29.761	30.398	31.045	2.129	-2.094	0.485	-0.477
-2	28.492	29.089	29.695	2.084	-2.051	0.479	-0.471
-1	27.288	27.847	28.415	2.039	-2.008	0.472	-0.465
0	26.308	26.838	27.375	2.002	-1.972	0.464	-0.457
1	25.058	25.549	26.048	1.951	-1.924	0.459	-0.452
2	24.025	24.486	24.953	1.908	-1.882	0.452	-0.446
3	23.043	23.475	23.913	1.865	-1.841	0.445	-0.439
4	22.109	22.514	22.925	1.823	-1.800	0.438	-0.433
5	21.220	21.600	21.985	1.780	-1.759	0.431	-0.426
6	20.374	20.730	21.091	1.739	-1.719	0.424	-0.419
7	19.568	19.902	20.240	1.697	-1.679	0.417	-0.412
8	18.800	19.113	19.429	1.656	-1.639	0.409	-0.405
9	18.067	18.361	18.658	1.615	-1.599	0.402	-0.398
10	17.471	17.750	18.030	1.581	-1.566	0.392	-0.388
11	16.702	16.960	17.220	1.534	-1.521	0.387	-0.384
12	16.065	16.307	16.551	1.495	-1.482	0.380	-0.377
13	15.457	15.683	15.912	1.455	-1.444	0.372	-0.369
14	14.875	15.088	15.301	1.416	-1.406	0.364	-0.362
15	14.320	14.518	14.718	1.377	-1.368	0.356	-0.354
16	13.788	13.974	14.161	1.338	-1.330	0.349	-0.347
17	13.279	13.453	13.628	1.300	-1.293	0.341	-0.339
18	12.792	12.954	13.118	1.261	-1.255	0.333	-0.331
19	12.325	12.477	12.630	1.223	-1.218	0.325	-0.323
20	11.877	12.019	12.162	1.185	-1.181	0.316	-0.315
21	11.448	11.581	11.714	1.148	-1.145	0.308	-0.307
22	11.037	11.161	11.285	1.111	-1.108	0.300	-0.299
23	10.642	10.758	10.873	1.073	-1.072	0.291	-0.291
24	10.263	10.371	10.478	1.036	-1.036	0.283	-0.283
25	9.900	10.000	10.100	1.000	-1.000	0.275	-0.275
26	9.543	9.643	9.743	1.036	-1.035	0.286	-0.286
27	9.201	9.301	9.400	1.073	-1.071	0.298	-0.297
28	8.872	8.972	9.071	1.109	-1.107	0.309	-0.309
29	8.557	8.655	8.755	1.145	-1.142	0.321	-0.320
30	8.253	8.351	8.450	1.182	-1.178	0.333	-0.332
31	7.961	8.059	8.157	1.218	-1.213	0.345	-0.344
32	7.681	7.778	7.876	1.254	-1.248	0.357	-0.356
33	7.411	7.508	7.604	1.289	-1.283	0.369	-0.367
34	7.152	7.247	7.343	1.325	-1.318	0.381	-0.379
35	6.902	6.997	7.092	1.361	-1.352	0.394	-0.391
36	6.662	6.756	6.850	1.396	-1.387	0.406	-0.403
37	6.431	6.523	6.617	1.432	-1.421	0.418	-0.415
38	6.208	6.300	6.392	1.467	-1.456	0.431	-0.427

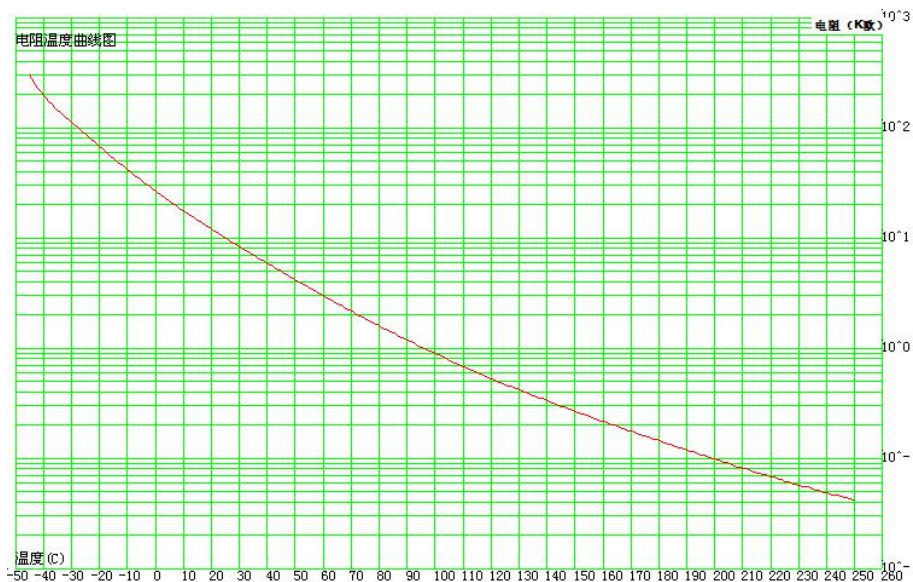
39	5.994	6.084	6.176	1.502	-1.490	0.443	-0.439
40	5.787	5.877	5.967	1.538	-1.524	0.455	-0.452
41	5.589	5.677	5.766	1.573	-1.558	0.468	-0.464
42	5.397	5.485	5.573	1.608	-1.592	0.481	-0.476
43	5.213	5.299	5.386	1.643	-1.626	0.493	-0.488
44	5.035	5.120	5.206	1.678	-1.660	0.506	-0.501
45	4.864	4.948	5.033	1.713	-1.694	0.519	-0.513
46	4.699	4.782	4.865	1.747	-1.727	0.532	-0.526
47	4.540	4.621	4.704	1.782	-1.761	0.545	-0.539
48	4.387	4.467	4.548	1.817	-1.794	0.558	-0.551
49	4.239	4.318	4.398	1.851	-1.827	0.571	-0.564
50	4.097	4.175	4.253	1.886	-1.860	0.585	-0.577
51	3.960	4.036	4.114	1.920	-1.894	0.598	-0.590
52	3.827	3.903	3.979	1.954	-1.927	0.611	-0.603
53	3.700	3.774	3.849	1.988	-1.959	0.625	-0.616
54	3.577	3.650	3.724	2.023	-1.992	0.638	-0.629
55	3.458	3.530	3.603	2.057	-2.025	0.652	-0.642
56	3.344	3.414	3.486	2.091	-2.057	0.666	-0.655
57	3.234	3.303	3.373	2.124	-2.090	0.679	-0.668
58	3.128	3.196	3.265	2.158	-2.122	0.693	-0.682
59	3.025	3.092	3.160	2.192	-2.155	0.707	-0.695
60	2.927	2.992	3.059	2.225	-2.187	0.721	-0.709
61	2.831	2.896	2.961	2.259	-2.219	0.735	-0.722
62	2.739	2.802	2.867	2.292	-2.251	0.749	-0.736
63	2.651	2.713	2.776	2.326	-2.283	0.763	-0.749
64	2.565	2.626	2.688	2.359	-2.314	0.778	-0.763
65	2.483	2.543	2.603	2.392	-2.346	0.792	-0.777
66	2.403	2.462	2.522	2.425	-2.377	0.807	-0.791
67	2.327	2.384	2.443	2.458	-2.409	0.821	-0.805
68	2.253	2.309	2.367	2.491	-2.440	0.836	-0.819
69	2.181	2.237	2.293	2.523	-2.471	0.851	-0.833
70	2.113	2.167	2.222	2.556	-2.502	0.865	-0.847
71	2.046	2.099	2.154	2.588	-2.533	0.880	-0.861
72	1.982	2.034	2.088	2.620	-2.563	0.895	-0.876
73	1.920	1.971	2.024	2.653	-2.594	0.910	-0.890
74	1.861	1.911	1.962	2.685	-2.624	0.925	-0.904
75	1.803	1.852	1.903	2.717	-2.655	0.941	-0.919
76	1.748	1.796	1.845	2.748	-2.685	0.956	-0.934
77	1.694	1.741	1.790	2.780	-2.715	0.971	-0.948
78	1.642	1.689	1.736	2.812	-2.745	0.987	-0.963
79	1.592	1.638	1.684	2.843	-2.774	1.002	-0.978
80	1.544	1.589	1.634	2.874	-2.804	1.018	-0.993
81	1.498	1.541	1.586	2.906	-2.833	1.033	-1.008
82	1.453	1.495	1.539	2.937	-2.863	1.049	-1.023
83	1.409	1.451	1.494	2.968	-2.892	1.065	-1.038

84	1.367	1.409	1.451	2.998	-2.921	1.081	-1.053
85	1.344	1.385	1.426	3.016	-2.937	1.099	-1.071
86	1.288	1.327	1.368	3.059	-2.978	1.113	-1.084
87	1.250	1.289	1.329	3.090	-3.007	1.129	-1.099
88	1.214	1.252	1.291	3.120	-3.035	1.146	-1.115
89	1.179	1.216	1.254	3.150	-3.063	1.162	-1.130
90	1.145	1.181	1.219	3.180	-3.091	1.178	-1.146
91	1.112	1.148	1.184	3.210	-3.119	1.195	-1.161
92	1.080	1.115	1.151	3.239	-3.147	1.212	-1.177
93	1.049	1.084	1.119	3.269	-3.175	1.228	-1.193
94	1.020	1.053	1.088	3.298	-3.202	1.245	-1.209
95	0.991	1.024	1.058	3.327	-3.230	1.262	-1.225
96	0.963	0.996	1.029	3.356	-3.257	1.279	-1.241
97	0.936	0.968	1.001	3.385	-3.284	1.296	-1.257
98	0.911	0.942	0.974	3.414	-3.311	1.313	-1.273
99	0.885	0.916	0.948	3.442	-3.337	1.330	-1.290
100	0.875	0.906	0.937	3.454	-3.348	1.350	-1.309
101	0.838	0.867	0.898	3.499	-3.390	1.365	-1.322
102	0.815	0.844	0.874	3.527	-3.416	1.382	-1.339
103	0.793	0.821	0.851	3.555	-3.443	1.400	-1.355
104	0.772	0.800	0.828	3.583	-3.469	1.417	-1.372
105	0.751	0.778	0.807	3.611	-3.494	1.435	-1.389
106	0.731	0.758	0.786	3.638	-3.520	1.453	-1.406
107	0.712	0.738	0.765	3.666	-3.546	1.471	-1.422
108	0.693	0.719	0.746	3.693	-3.571	1.489	-1.439
109	0.675	0.701	0.727	3.720	-3.596	1.507	-1.456
110	0.658	0.683	0.708	3.747	-3.621	1.525	-1.474
111	0.641	0.665	0.690	3.774	-3.646	1.543	-1.491
112	0.624	0.648	0.673	3.800	-3.671	1.561	-1.508
113	0.608	0.632	0.656	3.827	-3.696	1.579	-1.525
114	0.593	0.616	0.640	3.853	-3.720	1.598	-1.543
115	0.578	0.600	0.624	3.880	-3.744	1.616	-1.560
116	0.563	0.586	0.608	3.906	-3.769	1.635	-1.578
117	0.549	0.571	0.594	3.932	-3.793	1.654	-1.595
118	0.536	0.557	0.579	3.958	-3.817	1.672	-1.613
119	0.522	0.543	0.565	3.984	-3.840	1.691	-1.630
120	0.510	0.530	0.551	4.009	-3.864	1.710	-1.648
121	0.497	0.517	0.538	4.035	-3.888	1.729	-1.666
122	0.485	0.505	0.525	4.060	-3.911	1.748	-1.684
123	0.473	0.493	0.513	4.085	-3.934	1.767	-1.702
124	0.462	0.481	0.501	4.110	-3.958	1.787	-1.720
125	0.451	0.470	0.489	4.135	-3.981	1.806	-1.738
126	0.440	0.458	0.477	4.160	-4.004	1.825	-1.757
127	0.430	0.448	0.466	4.185	-4.026	1.845	-1.775
128	0.419	0.437	0.456	4.210	-4.049	1.864	-1.793

129	0.410	0.427	0.445	4.234	-4.072	1.884	-1.812
130	0.400	0.417	0.435	4.259	-4.094	1.904	-1.830
131	0.391	0.407	0.425	4.283	-4.117	1.923	-1.849
132	0.382	0.398	0.415	4.307	-4.139	1.943	-1.867
133	0.373	0.389	0.406	4.331	-4.161	1.963	-1.886
134	0.364	0.380	0.397	4.355	-4.183	1.983	-1.905
135	0.356	0.372	0.388	4.379	-4.205	2.003	-1.924
136	0.348	0.363	0.379	4.403	-4.227	2.023	-1.942
137	0.340	0.355	0.371	4.427	-4.248	2.044	-1.961
138	0.332	0.347	0.363	4.450	-4.270	2.064	-1.980
139	0.325	0.339	0.355	4.474	-4.292	2.084	-2.000
140	0.317	0.332	0.347	4.497	-4.313	2.105	-2.019
141	0.310	0.324	0.339	4.520	-4.334	2.125	-2.038
142	0.304	0.317	0.332	4.543	-4.356	2.146	-2.057
143	0.297	0.310	0.325	4.567	-4.377	2.167	-2.077
144	0.290	0.304	0.318	4.590	-4.398	2.188	-2.096
145	0.284	0.297	0.311	4.613	-4.419	2.208	-2.116
146	0.278	0.291	0.304	4.635	-4.440	2.229	-2.135
147	0.272	0.284	0.298	4.658	-4.460	2.250	-2.155
148	0.266	0.278	0.291	4.681	-4.481	2.271	-2.174
149	0.260	0.272	0.285	4.703	-4.502	2.293	-2.194
150	0.254	0.267	0.279	4.726	-4.522	2.314	-2.214
151	0.249	0.261	0.273	4.748	-4.543	2.335	-2.234
152	0.244	0.255	0.268	4.771	-4.563	2.357	-2.254
153	0.238	0.250	0.262	4.793	-4.583	2.378	-2.274
154	0.233	0.245	0.256	4.815	-4.604	2.400	-2.294
155	0.228	0.240	0.251	4.837	-4.624	2.421	-2.314
156	0.224	0.235	0.246	4.859	-4.644	2.443	-2.334
157	0.219	0.230	0.241	4.881	-4.664	2.465	-2.355
158	0.214	0.225	0.236	4.903	-4.684	2.486	-2.375
159	0.210	0.220	0.231	4.925	-4.704	2.508	-2.395
160	0.206	0.216	0.226	4.947	-4.723	2.530	-2.416
161	0.201	0.211	0.222	4.969	-4.743	2.552	-2.436
162	0.197	0.207	0.217	4.990	-4.763	2.575	-2.457
163	0.193	0.203	0.213	5.012	-4.782	2.597	-2.478
164	0.189	0.199	0.209	5.034	-4.802	2.619	-2.499
165	0.185	0.195	0.204	5.055	-4.821	2.641	-2.519
166	0.181	0.191	0.200	5.077	-4.841	2.664	-2.540
167	0.178	0.187	0.196	5.098	-4.860	2.686	-2.561
168	0.174	0.183	0.192	5.119	-4.879	2.709	-2.582
169	0.171	0.179	0.189	5.141	-4.899	2.732	-2.603
170	0.167	0.176	0.185	5.162	-4.918	2.754	-2.624
171	0.164	0.172	0.181	5.183	-4.937	2.777	-2.645
172	0.160	0.169	0.178	5.204	-4.956	2.800	-2.667
173	0.157	0.165	0.174	5.225	-4.975	2.823	-2.688

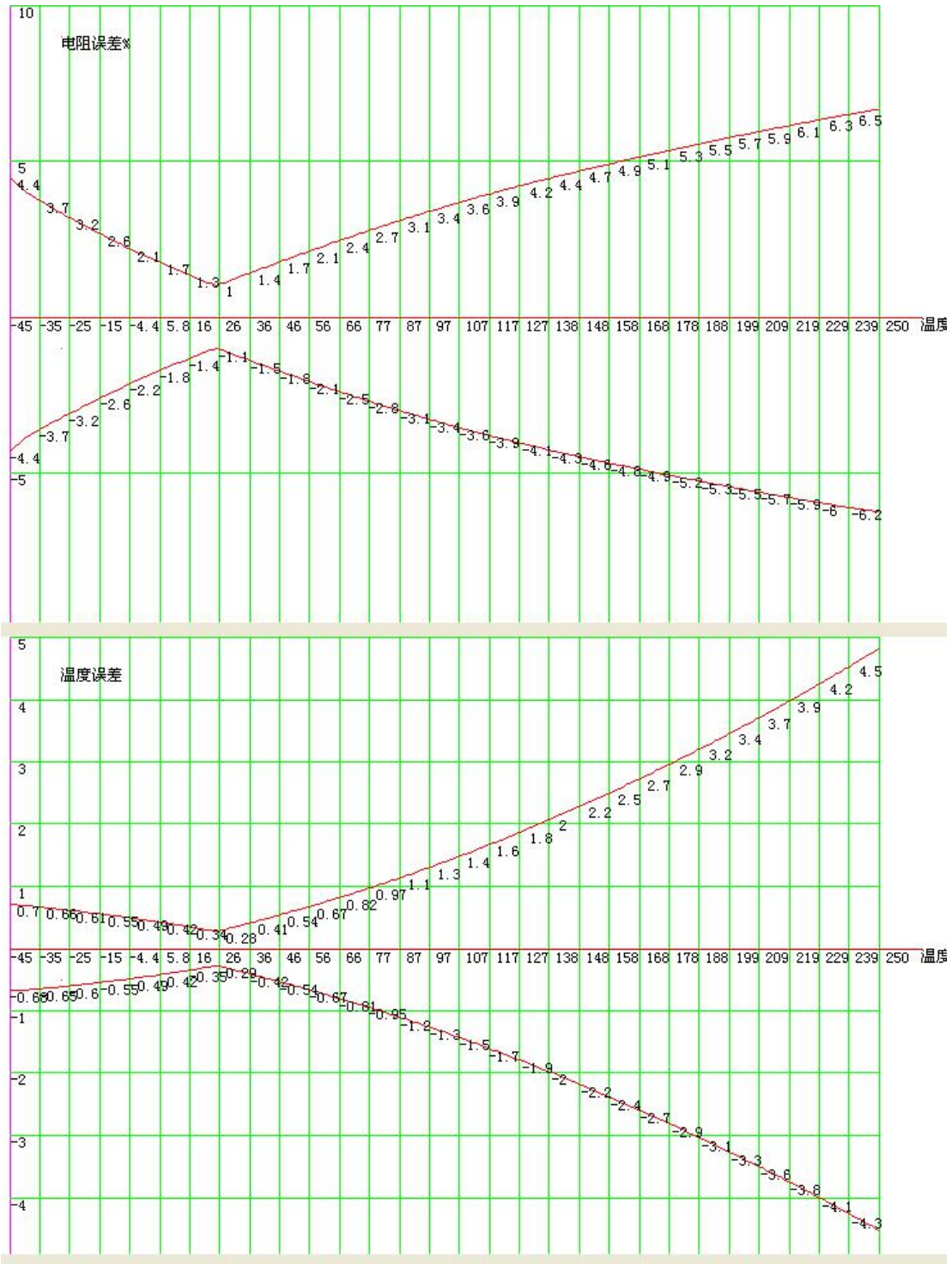
174	0.154	0.162	0.171	5.246	-4.994	2.846	-2.709
175	0.151	0.159	0.167	5.267	-5.013	2.869	-2.731
176	0.148	0.156	0.164	5.288	-5.032	2.892	-2.752
177	0.145	0.153	0.161	5.309	-5.051	2.916	-2.774
178	0.142	0.150	0.158	5.330	-5.069	2.939	-2.796
179	0.139	0.147	0.155	5.350	-5.088	2.962	-2.817
180	0.137	0.144	0.152	5.371	-5.107	2.986	-2.839
181	0.134	0.141	0.149	5.392	-5.125	3.010	-2.861
182	0.131	0.138	0.146	5.412	-5.144	3.033	-2.883
183	0.129	0.136	0.143	5.433	-5.162	3.057	-2.905
184	0.126	0.133	0.140	5.454	-5.181	3.081	-2.927
185	0.124	0.131	0.138	5.474	-5.199	3.104	-2.949
186	0.121	0.128	0.135	5.494	-5.218	3.128	-2.971
187	0.119	0.126	0.133	5.515	-5.236	3.152	-2.993
188	0.117	0.123	0.130	5.535	-5.254	3.177	-3.015
189	0.114	0.121	0.128	5.555	-5.272	3.201	-3.038
190	0.112	0.118	0.125	5.576	-5.291	3.225	-3.060
191	0.110	0.116	0.123	5.596	-5.309	3.249	-3.082
192	0.108	0.114	0.120	5.616	-5.327	3.274	-3.105
193	0.106	0.112	0.118	5.636	-5.345	3.298	-3.128
194	0.104	0.110	0.116	5.656	-5.363	3.323	-3.150
195	0.102	0.108	0.114	5.676	-5.381	3.347	-3.173
196	0.100	0.106	0.112	5.696	-5.399	3.372	-3.196
197	0.098	0.104	0.110	5.716	-5.416	3.397	-3.219
198	0.096	0.102	0.108	5.736	-5.434	3.421	-3.241
199	0.094	0.100	0.106	5.756	-5.452	3.446	-3.264
200	0.093	0.098	0.104	5.775	-5.470	3.471	-3.287
201	0.091	0.096	0.102	5.795	-5.487	3.496	-3.311
202	0.089	0.094	0.100	5.815	-5.505	3.522	-3.334
203	0.088	0.093	0.098	5.834	-5.522	3.547	-3.357
204	0.086	0.091	0.096	5.854	-5.540	3.572	-3.380
205	0.084	0.089	0.095	5.873	-5.557	3.597	-3.404
206	0.083	0.088	0.093	5.893	-5.574	3.623	-3.427
207	0.081	0.086	0.091	5.912	-5.592	3.648	-3.450
208	0.080	0.084	0.090	5.932	-5.609	3.674	-3.474
209	0.078	0.083	0.088	5.951	-5.626	3.700	-3.498
210	0.077	0.081	0.086	5.970	-5.643	3.725	-3.521
211	0.075	0.080	0.085	5.989	-5.660	3.751	-3.545
212	0.074	0.079	0.083	6.008	-5.677	3.777	-3.569
213	0.073	0.077	0.082	6.027	-5.694	3.803	-3.593
214	0.071	0.076	0.080	6.046	-5.711	3.829	-3.617
215	0.070	0.074	0.079	6.065	-5.728	3.855	-3.641
216	0.069	0.073	0.078	6.084	-5.745	3.881	-3.665
217	0.068	0.072	0.076	6.103	-5.761	3.908	-3.689
218	0.066	0.071	0.075	6.122	-5.778	3.934	-3.713

219	0.065	0.069	0.074	6.140	-5.794	3.961	-3.737
220	0.064	0.068	0.072	6.159	-5.811	3.987	-3.762
221	0.063	0.067	0.071	6.177	-5.827	4.014	-3.786
222	0.062	0.066	0.070	6.196	-5.843	4.040	-3.811
223	0.061	0.065	0.069	6.214	-5.860	4.067	-3.835
224	0.060	0.064	0.068	6.232	-5.876	4.094	-3.860
225	0.059	0.062	0.066	6.250	-5.892	4.121	-3.885
226	0.058	0.061	0.065	6.268	-5.908	4.148	-3.909
227	0.057	0.060	0.064	6.286	-5.924	4.175	-3.934
228	0.056	0.059	0.063	6.304	-5.940	4.202	-3.959
229	0.055	0.058	0.062	6.322	-5.956	4.229	-3.984
230	0.054	0.057	0.061	6.340	-5.971	4.257	-4.009
231	0.053	0.056	0.060	6.358	-5.987	4.284	-4.034
232	0.052	0.055	0.059	6.375	-6.002	4.312	-4.059
233	0.051	0.055	0.058	6.393	-6.018	4.339	-4.085
234	0.050	0.054	0.057	6.410	-6.033	4.367	-4.110
235	0.050	0.053	0.056	6.427	-6.049	4.394	-4.135
236	0.049	0.052	0.055	6.445	-6.064	4.422	-4.161
237	0.048	0.051	0.054	6.462	-6.079	4.450	-4.186
238	0.047	0.050	0.054	6.479	-6.094	4.478	-4.212
239	0.046	0.049	0.053	6.495	-6.109	4.506	-4.238
240	0.046	0.049	0.052	6.512	-6.123	4.534	-4.264
241	0.045	0.048	0.051	6.529	-6.138	4.563	-4.289
242	0.044	0.047	0.050	6.545	-6.153	4.591	-4.315
243	0.044	0.046	0.050	6.562	-6.167	4.619	-4.341
244	0.043	0.046	0.049	6.578	-6.181	4.648	-4.367
245	0.042	0.045	0.048	6.594	-6.196	4.676	-4.394
246	0.042	0.044	0.047	6.610	-6.210	4.705	-4.420
247	0.041	0.044	0.047	6.626	-6.224	4.734	-4.446
248	0.040	0.043	0.046	6.642	-6.238	4.762	-4.472
249	0.040	0.042	0.045	6.658	-6.252	4.791	-4.499
250	0.039	0.042	0.045	6.673	-6.265	4.820	-4.525



附表:2

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