



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

产品规格:

PART NUMBER MF58-502 F 3470(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: MF58-502F3470

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:

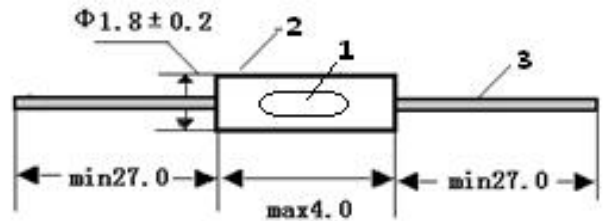
1. 电气性能

项目	符号	测试条件	单位	性能要求
1.1	R_{25}	$T_a=25\pm 0.05^\circ\text{C}$ 测试功率 $\leq 0.1\text{mw}$	$\text{K}\Omega$	$5\text{K}\Omega \pm 1\%$
1.2	$B_{25/50}$	$B=[(T_a \times T_b)/(T_b - T_a)] \times \ln(R_a/R_b)$ $T_b=50^\circ\text{C} \pm 0.05^\circ\text{C}$	K	$3470 \pm 1\%$
1.3	δ	静止空气中	$\text{mW}/^\circ\text{C}$	≥ 2
1.4	τ	静止空气中	sec	≤ 20
1.5	/	1500V/AC 1min	/	无击穿或飞弧
1.6	/	500V/DC 1min	$\text{M}\Omega$	≥ 500
1.7	/	/	$^\circ\text{C}$	-55~250
1.8	P_{max}	/	mW	50
1.9	/	/	/	见附表 1
1.10	/	/	/	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: $10 \pm 1\text{N}$, 时间: 10 ± 1 秒	无可见性损伤 $R_{25} \Delta R/R \leq \pm 2\%$
2.2 可焊性	温度 $245 \pm 5^\circ\text{C}$ 时间 2-3 秒	着锡面积 $\geq 95\%$
2.3 耐焊接热	锡锅温度: $260 \pm 5^\circ\text{C}$, 浸入深度距电阻体 6mm, 时间 5 ± 1 秒	$R_{25} \Delta R/R \leq \pm 2\%$
2.4 稳态湿热	温度: $40^\circ\text{C} \pm 2^\circ\text{C}$, 湿度: 93 $\pm 2\%$, 时间: 500 小时	$R_{25} \Delta R/R \leq \pm 2\%$
2.5 温度快速变化	$-55^\circ\text{C} 30\text{min} \rightarrow 25^\circ\text{C} 5\text{min} \rightarrow 250^\circ\text{C} 30\text{min} \rightarrow 25^\circ\text{C} 5\text{min}$, 反复 5 次	$R_{25} \Delta R/R \leq \pm 2\%$
2.6 高温储存	温度: $250^\circ\text{C} \pm 5^\circ\text{C}$, 时间: 1000 小时	$R_{25} \Delta R/R \leq \pm 2\%$
2.7 低温储存	温度: $-55^\circ\text{C} \pm 5^\circ\text{C}$, 时间: 1000 小时	$R_{25} \Delta R/R \leq \pm 2\%$

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	$\Phi 0.5 \pm 0.05$ 镀锡钢线	2	

5. 产品型号说明

MF58 502 F 3470

① ② ③ ④

- ① MF58: 玻壳测温型 NTC 热敏电阻
- ② 502: 25°C 的零功率电阻值 $5\text{K}\Omega$
- ③ F: 阻值精度代码 F- $\pm 1\%$ G- $\pm 2\%$ H- $\pm 3\%$ J- $\pm 5\%$
- ④ 3470: $B_{25/50}$ 值 3470K

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°C , 焊接时间 $< 3\text{ses}$;
- 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: $-10^\circ\text{C} \sim 40^\circ\text{C}$; 储存湿度: $\leq 75\% \text{RH}$;
- 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=5K Ω 精度: $\pm 1\%$ B25/50=3470K B25/85=3530K 精度: $\pm 1\%$ (SH-27A)

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	$-\Delta T$
-55	1507.850	1613.660	1726.720	7.006	-6.557	0.709	-0.664
-54	990.075	1055.050	1124.190	6.552	-6.159	0.710	-0.668
-53	687.572	730.006	774.981	6.160	-5.812	0.712	-0.671
-52	501.194	530.429	561.313	5.822	-5.511	0.712	-0.674
-51	380.922	402.026	424.256	5.529	-5.249	0.713	-0.677
-50	300.107	315.972	332.642	5.275	-5.020	0.714	-0.679
-49	243.846	256.198	269.149	5.055	-4.821	0.714	-0.681
-48	203.433	213.347	223.722	4.863	-4.647	0.714	-0.682
-47	173.586	181.754	190.287	4.695	-4.494	0.713	-0.683
-46	150.985	157.867	165.047	4.547	-4.359	0.712	-0.683
-45	133.481	139.391	145.549	4.417	-4.240	0.711	-0.682
-44	119.638	124.798	130.167	4.302	-4.134	0.709	-0.681
-43	108.478	113.045	117.792	4.199	-4.039	0.706	-0.679
-42	99.318	103.407	107.653	4.106	-3.953	0.704	-0.678
-41	91.670	95.366	99.202	4.022	-3.876	0.701	-0.675
-40	85.180	88.550	92.043	3.944	-3.804	0.697	-0.672
-39	79.590	82.682	85.885	3.873	-3.738	0.693	-0.669
-38	74.706	77.558	80.511	3.807	-3.677	0.690	-0.666
-37	70.382	73.025	75.760	3.744	-3.619	0.685	-0.662
-36	66.508	68.966	71.508	3.685	-3.564	0.681	-0.658
-35	62.999	65.291	67.661	3.628	-3.511	0.676	-0.654
-34	59.789	61.932	64.146	3.574	-3.460	0.672	-0.650
-33	56.829	58.836	60.907	3.520	-3.410	0.667	-0.646
-32	54.079	55.960	57.902	3.469	-3.362	0.662	-0.641
-31	51.508	53.274	55.095	3.418	-3.314	0.657	-0.637
-30	49.094	50.753	52.462	3.368	-3.267	0.651	-0.632
-29	46.817	48.376	49.981	3.318	-3.221	0.646	-0.627
-28	44.663	46.128	47.636	3.269	-3.175	0.641	-0.622
-27	42.620	43.997	45.414	3.220	-3.129	0.635	-0.617
-26	40.679	41.974	43.305	3.171	-3.084	0.630	-0.612
-25	38.833	40.050	41.300	3.123	-3.038	0.624	-0.607
-24	37.074	38.218	39.394	3.075	-2.993	0.619	-0.602
-23	35.399	36.474	37.578	3.027	-2.947	0.613	-0.597
-22	33.803	34.813	35.850	2.979	-2.902	0.607	-0.592
-21	32.281	33.231	34.205	2.931	-2.857	0.602	-0.586
-20	30.831	31.723	32.638	2.883	-2.812	0.596	-0.581
-19	29.449	30.287	31.146	2.835	-2.767	0.590	-0.576
-18	28.133	28.920	29.726	2.788	-2.722	0.584	-0.570
-17	26.879	27.618	28.375	2.740	-2.677	0.578	-0.565

-16	25.685	26.380	27.090	2.693	-2.632	0.572	-0.559
-15	24.549	25.201	25.868	2.646	-2.588	0.566	-0.554
-14	23.467	24.080	24.706	2.600	-2.544	0.560	-0.548
-13	22.438	23.013	23.601	2.553	-2.499	0.554	-0.542
-12	21.459	22.000	22.551	2.507	-2.455	0.548	-0.537
-11	20.528	21.036	21.554	2.461	-2.412	0.542	-0.531
-10	19.643	20.120	20.606	2.416	-2.368	0.536	-0.525
-9	18.801	19.249	19.705	2.370	-2.325	0.529	-0.519
-8	18.000	18.421	18.849	2.325	-2.282	0.523	-0.513
-7	17.238	17.633	18.036	2.281	-2.239	0.516	-0.507
-6	16.514	16.885	17.263	2.236	-2.197	0.510	-0.501
-5	15.825	16.174	16.528	2.192	-2.155	0.503	-0.495
-4	15.169	15.497	15.830	2.149	-2.113	0.497	-0.489
-3	14.545	14.853	15.166	2.105	-2.072	0.490	-0.482
-2	13.951	14.240	14.534	2.062	-2.030	0.483	-0.476
-1	13.386	13.657	13.933	2.020	-1.989	0.477	-0.469
0	13.001	13.262	13.525	1.990	-1.961	0.467	-0.460
1	12.333	12.573	12.817	1.935	-1.908	0.463	-0.456
2	11.844	12.069	12.298	1.894	-1.868	0.456	-0.450
3	11.377	11.589	11.804	1.852	-1.828	0.449	-0.443
4	10.932	11.131	11.332	1.811	-1.789	0.441	-0.436
5	10.506	10.693	10.883	1.770	-1.749	0.434	-0.429
6	10.100	10.276	10.454	1.730	-1.710	0.427	-0.422
7	9.712	9.878	10.044	1.690	-1.671	0.419	-0.415
8	9.342	9.497	9.653	1.650	-1.633	0.412	-0.408
9	8.987	9.133	9.280	1.610	-1.594	0.404	-0.400
10	8.831	8.973	9.115	1.592	-1.577	0.387	-0.384
11	8.323	8.451	8.581	1.531	-1.518	0.389	-0.385
12	8.012	8.132	8.254	1.492	-1.480	0.381	-0.378
13	7.714	7.827	7.941	1.453	-1.442	0.373	-0.370
14	7.429	7.534	7.641	1.415	-1.405	0.365	-0.362
15	7.155	7.254	7.354	1.376	-1.367	0.357	-0.355
16	6.892	6.985	7.079	1.338	-1.330	0.349	-0.347
17	6.640	6.727	6.815	1.300	-1.293	0.341	-0.339
18	6.398	6.480	6.561	1.262	-1.256	0.332	-0.331
19	6.166	6.242	6.318	1.224	-1.219	0.324	-0.323
20	5.943	6.014	6.085	1.186	-1.182	0.315	-0.314
21	5.728	5.794	5.861	1.149	-1.145	0.307	-0.306
22	5.522	5.584	5.646	1.111	-1.109	0.298	-0.298
23	5.324	5.381	5.439	1.074	-1.072	0.290	-0.289
24	5.133	5.187	5.240	1.037	-1.036	0.281	-0.281
25	4.950	5.000	5.050	1.000	-1.000	0.273	-0.273
26	4.770	4.819	4.869	1.037	-1.036	0.283	-0.283
27	4.596	4.646	4.696	1.074	-1.072	0.295	-0.294
28	4.430	4.480	4.529	1.110	-1.108	0.306	-0.305

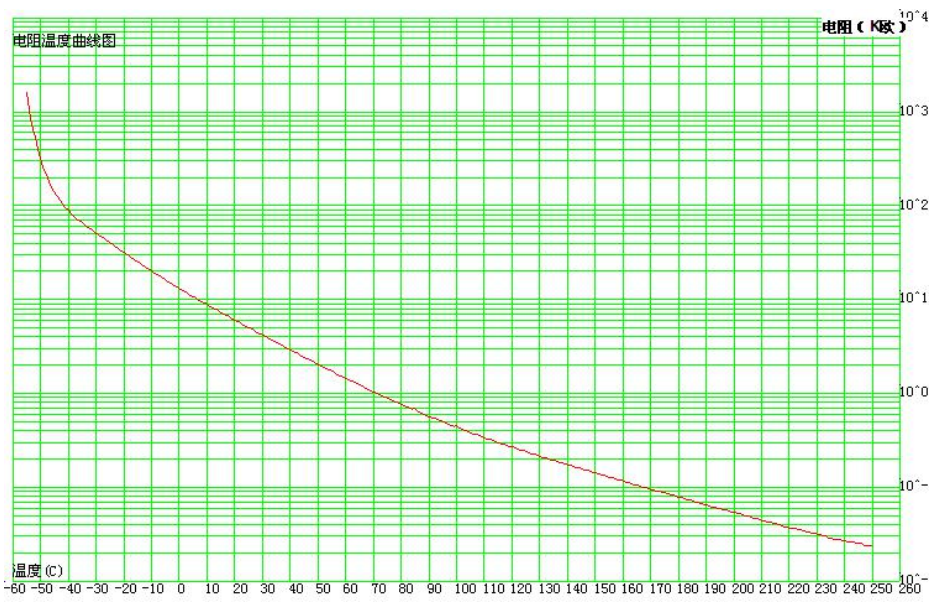
29	4.270	4.319	4.369	1.147	-1.144	0.318	-0.317
30	4.116	4.165	4.214	1.184	-1.180	0.329	-0.328
31	3.967	4.016	4.065	1.221	-1.216	0.341	-0.340
32	3.825	3.873	3.922	1.258	-1.252	0.353	-0.351
33	3.687	3.735	3.784	1.294	-1.288	0.364	-0.363
34	3.555	3.603	3.651	1.331	-1.323	0.376	-0.374
35	3.428	3.475	3.523	1.367	-1.359	0.388	-0.386
36	3.305	3.352	3.399	1.404	-1.394	0.400	-0.398
37	3.187	3.234	3.280	1.440	-1.430	0.412	-0.409
38	3.074	3.120	3.166	1.477	-1.465	0.425	-0.421
39	2.965	3.010	3.055	1.513	-1.501	0.437	-0.433
40	2.859	2.904	2.949	1.550	-1.536	0.449	-0.445
41	2.758	2.802	2.846	1.586	-1.571	0.461	-0.457
42	2.660	2.704	2.748	1.622	-1.606	0.474	-0.469
43	2.567	2.609	2.653	1.658	-1.641	0.486	-0.481
44	2.476	2.518	2.561	1.694	-1.676	0.499	-0.494
45	2.389	2.431	2.473	1.730	-1.711	0.512	-0.506
46	2.305	2.346	2.388	1.766	-1.746	0.525	-0.518
47	2.225	2.265	2.306	1.802	-1.780	0.537	-0.531
48	2.147	2.187	2.227	1.838	-1.815	0.550	-0.543
49	2.072	2.111	2.151	1.874	-1.849	0.563	-0.556
50	2.000	2.039	2.077	1.910	-1.884	0.576	-0.569
51	1.931	1.969	2.007	1.945	-1.918	0.590	-0.581
52	1.864	1.901	1.939	1.981	-1.952	0.603	-0.594
53	1.800	1.836	1.873	2.016	-1.986	0.616	-0.607
54	1.738	1.774	1.810	2.051	-2.020	0.630	-0.620
55	1.679	1.714	1.750	2.086	-2.054	0.643	-0.633
56	1.621	1.656	1.691	2.121	-2.087	0.657	-0.646
57	1.566	1.600	1.635	2.156	-2.121	0.671	-0.659
58	1.513	1.547	1.581	2.191	-2.154	0.684	-0.673
59	1.462	1.495	1.528	2.226	-2.187	0.698	-0.686
60	1.413	1.445	1.478	2.260	-2.220	0.712	-0.699
61	1.366	1.397	1.430	2.295	-2.253	0.726	-0.713
62	1.320	1.351	1.383	2.329	-2.286	0.740	-0.727
63	1.277	1.307	1.338	2.363	-2.319	0.755	-0.740
64	1.235	1.264	1.295	2.397	-2.351	0.769	-0.754
65	1.194	1.223	1.253	2.431	-2.383	0.783	-0.768
66	1.155	1.184	1.213	2.465	-2.415	0.798	-0.782
67	1.117	1.145	1.174	2.498	-2.447	0.812	-0.796
68	1.081	1.109	1.137	2.532	-2.479	0.827	-0.810
69	1.046	1.073	1.101	2.565	-2.511	0.842	-0.824
70	1.013	1.039	1.066	2.598	-2.542	0.857	-0.838
71	0.981	1.007	1.033	2.631	-2.573	0.871	-0.852
72	0.950	0.975	1.001	2.664	-2.604	0.887	-0.867
73	0.920	0.945	0.970	2.696	-2.635	0.902	-0.881

74	0.891	0.915	0.940	2.728	-2.666	0.917	-0.896
75	0.863	0.887	0.912	2.760	-2.696	0.932	-0.910
76	0.837	0.860	0.884	2.792	-2.726	0.947	-0.925
77	0.811	0.834	0.858	2.824	-2.756	0.963	-0.940
78	0.786	0.809	0.832	2.856	-2.786	0.979	-0.955
79	0.762	0.784	0.807	2.887	-2.816	0.994	-0.970
80	0.739	0.761	0.783	2.918	-2.845	1.010	-0.985
81	0.717	0.739	0.760	2.949	-2.874	1.026	-1.000
82	0.696	0.717	0.738	2.980	-2.903	1.042	-1.015
83	0.675	0.696	0.717	3.010	-2.932	1.058	-1.030
84	0.656	0.676	0.696	3.041	-2.961	1.074	-1.045
85	0.667	0.688	0.708	3.023	-2.944	1.098	-1.069
86	0.618	0.637	0.657	3.101	-3.017	1.106	-1.076
87	0.600	0.619	0.639	3.130	-3.045	1.123	-1.092
88	0.583	0.602	0.621	3.160	-3.073	1.139	-1.108
89	0.567	0.585	0.604	3.189	-3.100	1.156	-1.123
90	0.551	0.569	0.587	3.218	-3.128	1.172	-1.139
91	0.535	0.553	0.571	3.247	-3.155	1.189	-1.155
92	0.521	0.538	0.555	3.276	-3.182	1.206	-1.171
93	0.506	0.523	0.540	3.304	-3.208	1.223	-1.187
94	0.492	0.509	0.526	3.333	-3.235	1.240	-1.203
95	0.479	0.495	0.512	3.361	-3.261	1.257	-1.219
96	0.466	0.482	0.498	3.389	-3.287	1.274	-1.236
97	0.454	0.469	0.485	3.416	-3.313	1.291	-1.252
98	0.442	0.457	0.473	3.444	-3.339	1.308	-1.268
99	0.430	0.445	0.461	3.471	-3.364	1.326	-1.285
100	0.440	0.456	0.471	3.447	-3.342	1.351	-1.310
101	0.408	0.423	0.437	3.525	-3.415	1.361	-1.318
102	0.398	0.412	0.426	3.552	-3.439	1.379	-1.335
103	0.387	0.401	0.416	3.578	-3.464	1.396	-1.352
104	0.378	0.391	0.405	3.604	-3.489	1.414	-1.369
105	0.368	0.382	0.395	3.631	-3.513	1.432	-1.386
106	0.359	0.372	0.386	3.657	-3.537	1.450	-1.403
107	0.350	0.363	0.376	3.682	-3.561	1.468	-1.420
108	0.341	0.354	0.367	3.708	-3.585	1.486	-1.437
109	0.333	0.346	0.358	3.733	-3.608	1.505	-1.454
110	0.325	0.337	0.350	3.758	-3.632	1.523	-1.472
111	0.317	0.329	0.342	3.783	-3.655	1.542	-1.489
112	0.310	0.321	0.334	3.808	-3.678	1.560	-1.507
113	0.302	0.314	0.326	3.833	-3.701	1.579	-1.524
114	0.295	0.306	0.318	3.858	-3.724	1.597	-1.542
115	0.288	0.299	0.311	3.882	-3.747	1.616	-1.560
116	0.281	0.292	0.304	3.906	-3.769	1.635	-1.577
117	0.275	0.286	0.297	3.930	-3.791	1.654	-1.595
118	0.269	0.279	0.290	3.954	-3.813	1.673	-1.613

119	0.262	0.273	0.284	3.978	-3.835	1.692	-1.631
120	0.256	0.267	0.277	4.002	-3.857	1.711	-1.649
121	0.251	0.261	0.271	4.025	-3.879	1.730	-1.668
122	0.245	0.255	0.265	4.049	-3.901	1.750	-1.686
123	0.240	0.249	0.259	4.072	-3.922	1.769	-1.704
124	0.234	0.244	0.254	4.095	-3.943	1.789	-1.722
125	0.229	0.239	0.248	4.118	-3.965	1.808	-1.741
126	0.224	0.233	0.243	4.141	-3.986	1.828	-1.759
127	0.219	0.228	0.238	4.163	-4.007	1.848	-1.778
128	0.214	0.223	0.233	4.186	-4.027	1.867	-1.797
129	0.210	0.219	0.228	4.209	-4.048	1.887	-1.815
130	0.205	0.214	0.223	4.231	-4.069	1.907	-1.834
131	0.201	0.209	0.218	4.253	-4.089	1.927	-1.853
132	0.197	0.205	0.214	4.275	-4.110	1.947	-1.872
133	0.192	0.201	0.209	4.297	-4.130	1.967	-1.891
134	0.188	0.196	0.205	4.319	-4.150	1.988	-1.910
135	0.184	0.192	0.201	4.341	-4.170	2.008	-1.929
136	0.180	0.188	0.197	4.363	-4.190	2.028	-1.948
137	0.177	0.184	0.193	4.385	-4.210	2.049	-1.967
138	0.173	0.181	0.189	4.407	-4.230	2.069	-1.987
139	0.169	0.177	0.185	4.428	-4.250	2.090	-2.006
140	0.166	0.173	0.181	4.450	-4.270	2.111	-2.025
141	0.163	0.170	0.177	4.471	-4.289	2.132	-2.045
142	0.159	0.166	0.174	4.493	-4.309	2.152	-2.064
143	0.156	0.163	0.170	4.514	-4.328	2.173	-2.084
144	0.153	0.160	0.167	4.535	-4.348	2.194	-2.104
145	0.150	0.157	0.164	4.556	-4.367	2.215	-2.123
146	0.147	0.153	0.160	4.577	-4.387	2.236	-2.143
147	0.144	0.150	0.157	4.598	-4.406	2.258	-2.163
148	0.141	0.147	0.154	4.619	-4.425	2.279	-2.183
149	0.138	0.144	0.151	4.640	-4.444	2.300	-2.203
150	0.135	0.142	0.148	4.661	-4.463	2.322	-2.223
151	0.132	0.139	0.145	4.682	-4.482	2.343	-2.243
152	0.130	0.136	0.142	4.703	-4.501	2.365	-2.263
153	0.127	0.133	0.140	4.724	-4.520	2.386	-2.284
154	0.125	0.131	0.137	4.745	-4.539	2.408	-2.304
155	0.122	0.128	0.134	4.765	-4.558	2.430	-2.324
156	0.120	0.126	0.132	4.786	-4.577	2.452	-2.345
157	0.117	0.123	0.129	4.807	-4.596	2.474	-2.365
158	0.115	0.121	0.127	4.827	-4.614	2.496	-2.386
159	0.113	0.118	0.124	4.848	-4.633	2.518	-2.406
160	0.111	0.116	0.122	4.868	-4.652	2.540	-2.427
161	0.108	0.114	0.119	4.889	-4.671	2.562	-2.448
162	0.106	0.112	0.117	4.910	-4.689	2.584	-2.468
163	0.104	0.109	0.115	4.930	-4.708	2.607	-2.489

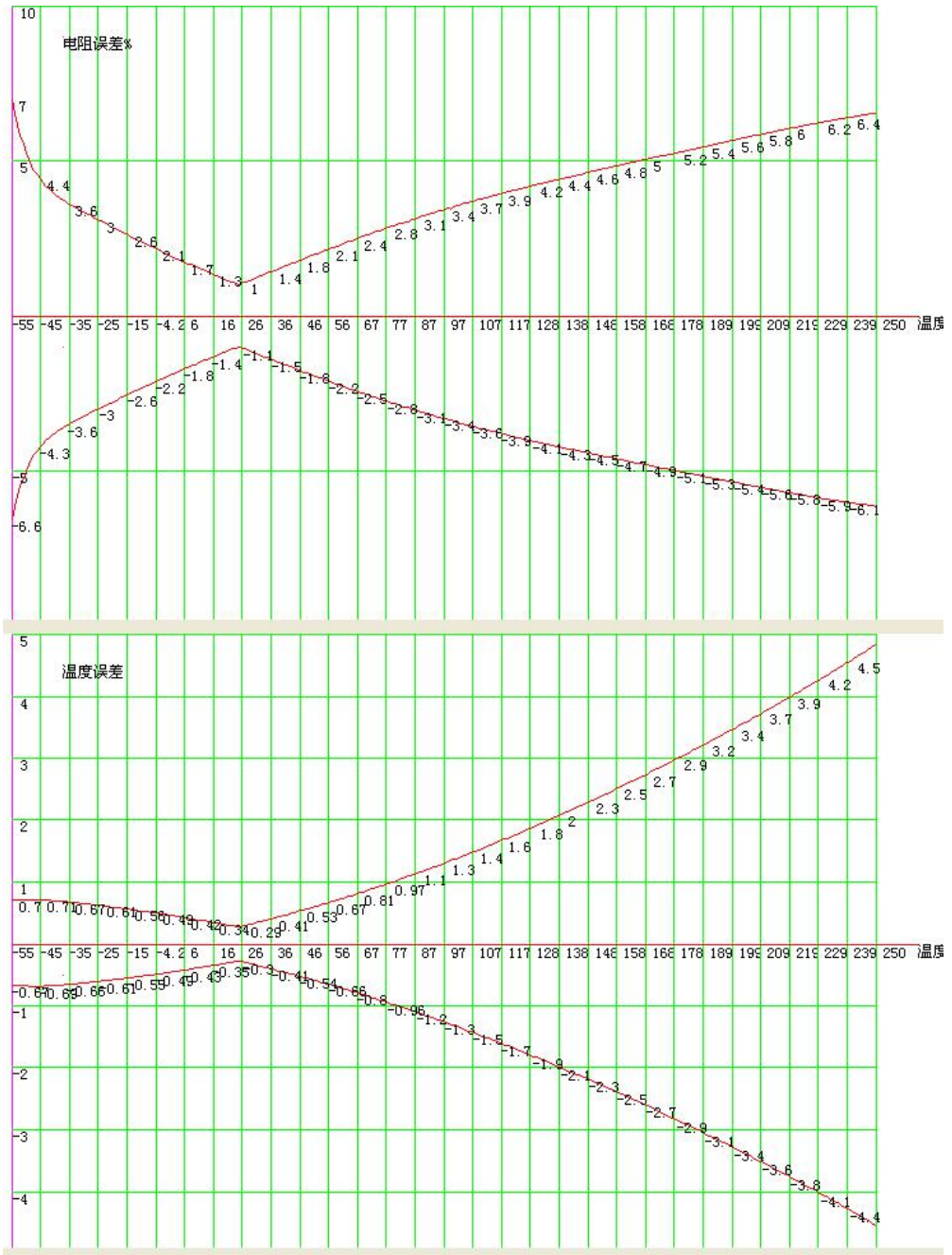
164	0.102	0.107	0.113	4.951	-4.727	2.629	-2.510
165	0.100	0.105	0.110	4.971	-4.745	2.651	-2.531
166	0.098	0.103	0.108	4.991	-4.764	2.674	-2.552
167	0.096	0.101	0.106	5.012	-4.782	2.697	-2.573
168	0.094	0.099	0.104	5.032	-4.801	2.719	-2.594
169	0.093	0.097	0.102	5.053	-4.819	2.742	-2.615
170	0.091	0.095	0.100	5.073	-4.838	2.765	-2.637
171	0.089	0.094	0.098	5.094	-4.856	2.788	-2.658
172	0.087	0.092	0.096	5.114	-4.875	2.811	-2.679
173	0.086	0.090	0.095	5.134	-4.893	2.834	-2.701
174	0.084	0.088	0.093	5.155	-4.911	2.857	-2.722
175	0.082	0.087	0.091	5.175	-4.930	2.880	-2.744
176	0.081	0.085	0.089	5.195	-4.948	2.903	-2.765
177	0.079	0.083	0.088	5.216	-4.967	2.927	-2.787
178	0.078	0.082	0.086	5.236	-4.985	2.950	-2.808
179	0.076	0.080	0.084	5.256	-5.003	2.973	-2.830
180	0.075	0.079	0.083	5.277	-5.021	2.997	-2.852
181	0.073	0.077	0.081	5.297	-5.040	3.020	-2.874
182	0.072	0.076	0.080	5.317	-5.058	3.044	-2.896
183	0.070	0.074	0.078	5.337	-5.076	3.068	-2.918
184	0.069	0.073	0.077	5.357	-5.094	3.092	-2.940
185	0.068	0.071	0.075	5.378	-5.113	3.116	-2.962
186	0.066	0.070	0.074	5.398	-5.131	3.139	-2.984
187	0.065	0.069	0.072	5.418	-5.149	3.163	-3.006
188	0.064	0.067	0.071	5.438	-5.167	3.188	-3.029
189	0.063	0.066	0.070	5.458	-5.185	3.212	-3.051
190	0.061	0.065	0.068	5.478	-5.203	3.236	-3.073
191	0.060	0.064	0.067	5.499	-5.221	3.260	-3.096
192	0.059	0.062	0.066	5.519	-5.239	3.285	-3.118
193	0.058	0.061	0.065	5.539	-5.257	3.309	-3.141
194	0.057	0.060	0.063	5.559	-5.275	3.334	-3.164
195	0.056	0.059	0.062	5.579	-5.293	3.358	-3.186
196	0.055	0.058	0.061	5.599	-5.311	3.383	-3.209
197	0.054	0.057	0.060	5.619	-5.329	3.408	-3.232
198	0.053	0.056	0.059	5.638	-5.347	3.432	-3.255
199	0.052	0.055	0.058	5.658	-5.365	3.457	-3.278
200	0.051	0.054	0.057	5.678	-5.382	3.482	-3.301
201	0.050	0.052	0.056	5.698	-5.400	3.507	-3.324
202	0.049	0.052	0.054	5.718	-5.418	3.532	-3.347
203	0.048	0.051	0.053	5.737	-5.435	3.558	-3.370
204	0.047	0.050	0.053	5.757	-5.453	3.583	-3.394
205	0.046	0.049	0.052	5.776	-5.470	3.608	-3.417
206	0.045	0.048	0.051	5.796	-5.488	3.634	-3.440
207	0.044	0.047	0.050	5.815	-5.505	3.659	-3.464
208	0.043	0.046	0.049	5.835	-5.523	3.685	-3.487

209	0.043	0.045	0.048	5.854	-5.540	3.710	-3.511
210	0.042	0.044	0.047	5.873	-5.557	3.736	-3.535
211	0.041	0.044	0.046	5.893	-5.574	3.762	-3.558
212	0.040	0.043	0.045	5.912	-5.591	3.788	-3.582
213	0.040	0.042	0.045	5.931	-5.608	3.814	-3.606
214	0.039	0.041	0.044	5.950	-5.625	3.840	-3.630
215	0.038	0.041	0.043	5.969	-5.642	3.866	-3.654
216	0.038	0.040	0.042	5.987	-5.659	3.892	-3.678
217	0.037	0.039	0.041	6.006	-5.675	3.918	-3.702
218	0.036	0.038	0.041	6.025	-5.692	3.945	-3.727
219	0.036	0.038	0.040	6.043	-5.708	3.971	-3.751
220	0.035	0.037	0.039	6.062	-5.725	3.998	-3.775
221	0.034	0.036	0.039	6.080	-5.741	4.024	-3.800
222	0.034	0.036	0.038	6.098	-5.757	4.051	-3.824
223	0.033	0.035	0.037	6.116	-5.773	4.078	-3.849
224	0.033	0.035	0.037	6.134	-5.789	4.105	-3.874
225	0.032	0.034	0.036	6.152	-5.805	4.132	-3.898
226	0.031	0.033	0.036	6.170	-5.820	4.159	-3.923
227	0.031	0.033	0.035	6.187	-5.836	4.186	-3.948
228	0.030	0.032	0.034	6.205	-5.851	4.213	-3.973
229	0.030	0.032	0.034	6.222	-5.867	4.240	-3.998
230	0.029	0.031	0.033	6.239	-5.882	4.268	-4.023
231	0.029	0.031	0.033	6.256	-5.897	4.295	-4.049
232	0.028	0.030	0.032	6.273	-5.912	4.323	-4.074
233	0.028	0.030	0.032	6.289	-5.927	4.350	-4.099
234	0.028	0.029	0.031	6.306	-5.941	4.378	-4.125
235	0.027	0.029	0.031	6.322	-5.956	4.406	-4.150
236	0.027	0.028	0.030	6.338	-5.970	4.434	-4.176
237	0.026	0.028	0.030	6.354	-5.984	4.462	-4.202
238	0.026	0.028	0.029	6.370	-5.998	4.490	-4.227
239	0.026	0.027	0.029	6.386	-6.012	4.518	-4.253
240	0.025	0.027	0.029	6.401	-6.025	4.546	-4.279
241	0.025	0.026	0.028	6.416	-6.039	4.575	-4.305
242	0.024	0.026	0.028	6.431	-6.052	4.603	-4.332
243	0.024	0.026	0.027	6.446	-6.065	4.632	-4.358
244	0.024	0.025	0.027	6.461	-6.078	4.660	-4.384
245	0.023	0.025	0.027	6.475	-6.090	4.689	-4.411
246	0.023	0.025	0.026	6.489	-6.103	4.718	-4.437
247	0.023	0.024	0.026	6.503	-6.115	4.747	-4.464
248	0.023	0.024	0.026	6.516	-6.127	4.776	-4.491
249	0.022	0.024	0.025	6.530	-6.139	4.805	-4.517
250	0.022	0.023	0.025	6.543	-6.151	4.834	-4.544



附表:2

南京时恒电阻误差曲线图



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