



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 MF58-103 H3470 (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: MF58-103H3470

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。  
对本规格书产生疑问时, 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:

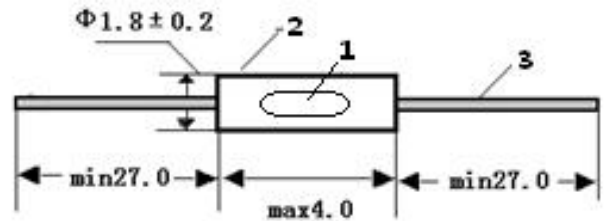
## 1. 电气性能

	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 <sub>25</sub>	T <sub>a</sub> =25±0.05℃ 测试功率≤0.1mw	KΩ	10KΩ±3%
1.2	B 值	B <sub>25/50</sub>	$B = \frac{(T_a \times T_b) / (T_b - T_a)}{\ln(R_a/R_b)}$ T <sub>b</sub> =50℃±0.05℃	K	3470±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	/	/	℃	-55~250
1.8	最大额定功率	P <sub>max</sub>	/	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 <sub>25</sub> 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: 265±5℃, 浸入深度距电阻体 6mm, 时间 5±1 秒	R <sub>25</sub> ΔR/R≤±2%
2.4 稳态湿热	温度: 40℃±2℃, 湿度: 93±2%, 时间: 500 小时	R <sub>25</sub> ΔR/R≤±2%
2.5 温度快速变化	-55℃30min→25℃5min→250℃30min→25℃5min, 反复 5 次	R <sub>25</sub> ΔR/R≤±2%
2.6 高温储存	温度: 250℃±5℃, 时间: 1000 小时	R <sub>25</sub> ΔR/R≤±2%
2.7 低温储存	温度: -55℃±5℃, 时间: 1000 小时	R <sub>25</sub> 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 3470

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 3470: B<sub>25/50</sub> 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 CQC 产品 CQC 认证 (CQC09001033986)
- 6.5 江苏省高新技术产品认证 (150115G0377N)
- 6.6 UL 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;
- 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

附表 1  
邮编: 211121

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# 南京时恒阻温特性表

R25=10K Ω 精度:±3% B25/50=3470K B25/85=3611K 精度:±1%(P232-26)

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	△R	-△R	△T	-△T
-55	549.811	590.410	633.435	7.287	-6.876	1.045	-0.986
-54	505.361	542.215	581.233	7.196	-6.796	1.046	-0.988
-53	467.677	501.390	537.050	7.112	-6.723	1.046	-0.989
-52	435.181	466.213	499.008	7.034	-6.656	1.045	-0.989
-51	406.699	435.402	465.711	6.961	-6.592	1.044	-0.989
-50	381.352	408.001	436.119	6.891	-6.531	1.043	-0.988
-49	358.483	383.294	409.454	6.824	-6.473	1.041	-0.987
-48	337.602	360.750	385.137	6.760	-6.416	1.039	-0.986
-47	318.345	339.970	362.737	6.696	-6.360	1.037	-0.985
-46	300.439	320.661	341.935	6.634	-6.306	1.034	-0.983
-45	283.688	302.606	322.496	6.572	-6.251	1.032	-0.982
-44	267.943	285.646	304.245	6.511	-6.197	1.030	-0.980
-43	253.097	269.664	287.057	6.449	-6.143	1.027	-0.978
-42	239.070	254.573	270.837	6.388	-6.089	1.025	-0.977
-41	225.804	240.308	255.513	6.327	-6.035	1.022	-0.975
-40	213.253	226.820	241.032	6.265	-5.981	1.020	-0.973
-39	201.380	214.067	227.349	6.204	-5.926	1.017	-0.972
-38	190.155	202.018	214.427	6.142	-5.872	1.015	-0.970
-37	179.550	190.640	202.234	6.081	-5.817	1.013	-0.969
-36	169.540	179.908	190.738	6.019	-5.763	1.010	-0.967
-35	160.100	169.793	179.910	5.958	-5.708	1.008	-0.966
-34	151.206	160.268	169.720	5.897	-5.654	1.006	-0.964
-33	142.833	151.306	160.137	5.836	-5.599	1.003	-0.962
-32	134.957	142.881	151.134	5.775	-5.545	1.001	-0.961
-31	127.553	134.965	142.679	5.715	-5.491	0.998	-0.959
-30	120.595	127.531	134.744	5.655	-5.438	0.996	-0.958
-29	114.060	120.552	127.299	5.596	-5.385	0.994	-0.956
-28	107.923	114.002	120.314	5.537	-5.332	0.991	-0.954
-27	102.160	107.854	113.764	5.478	-5.279	0.989	-0.953
-26	96.748	102.085	107.619	5.420	-5.227	0.986	-0.951
-25	91.666	96.670	101.854	5.363	-5.175	0.983	-0.949
-24	86.892	91.585	96.445	5.306	-5.124	0.981	-0.947
-23	82.405	86.810	91.367	5.250	-5.073	0.978	-0.945
-22	78.187	82.323	86.599	5.194	-5.023	0.975	-0.943
-21	74.220	78.105	82.119	5.139	-4.973	0.972	-0.941
-20	70.487	74.138	77.907	5.084	-4.923	0.969	-0.939
-19	66.973	70.405	73.946	5.029	-4.874	0.966	-0.936
-18	63.661	66.889	70.218	4.976	-4.826	0.963	-0.934
-17	60.540	63.577	66.707	4.922	-4.777	0.960	-0.932
-16	57.595	60.455	63.399	4.870	-4.729	0.957	-0.929

-15	54.816	57.509	60.279	4.817	-4.682	0.953	-0.926
-14	52.191	54.728	57.336	4.765	-4.634	0.950	-0.924
-13	49.711	52.101	54.557	4.714	-4.587	0.946	-0.921
-12	47.365	49.618	51.932	4.663	-4.541	0.943	-0.918
-11	45.146	47.271	49.451	4.612	-4.495	0.939	-0.915
-10	43.045	45.050	47.105	4.562	-4.449	0.936	-0.913
-9	41.056	42.947	44.884	4.512	-4.403	0.932	-0.910
-8	39.170	40.955	42.783	4.462	-4.358	0.928	-0.907
-7	37.383	39.068	40.792	4.413	-4.312	0.925	-0.904
-6	35.688	37.279	38.906	4.364	-4.268	0.921	-0.900
-5	34.079	35.582	37.118	4.315	-4.223	0.917	-0.897
-4	32.553	33.973	35.422	4.267	-4.179	0.913	-0.894
-3	31.103	32.445	33.814	4.219	-4.134	0.909	-0.891
-2	29.727	30.995	32.288	4.171	-4.091	0.905	-0.888
-1	28.419	29.618	30.839	4.124	-4.047	0.901	-0.884
0	27.176	28.310	29.464	4.077	-4.004	0.897	-0.881
1	25.994	27.066	28.157	4.030	-3.961	0.893	-0.877
2	24.871	25.885	26.916	3.984	-3.918	0.889	-0.874
3	23.802	24.762	25.737	3.938	-3.875	0.885	-0.870
4	22.786	23.694	24.616	3.892	-3.833	0.880	-0.867
5	21.819	22.678	23.551	3.846	-3.791	0.876	-0.863
6	20.898	21.712	22.538	3.801	-3.749	0.872	-0.860
7	20.022	20.793	21.574	3.756	-3.707	0.867	-0.856
8	19.188	19.918	20.657	3.712	-3.666	0.863	-0.852
9	18.393	19.085	19.785	3.667	-3.624	0.859	-0.849
10	17.655	18.312	18.975	3.625	-3.585	0.853	-0.844
11	16.916	17.537	18.165	3.580	-3.543	0.850	-0.841
12	16.229	16.818	17.412	3.536	-3.502	0.845	-0.837
13	15.574	16.132	16.696	3.493	-3.462	0.841	-0.833
14	14.949	15.479	16.013	3.451	-3.422	0.836	-0.829
15	14.354	14.856	15.363	3.408	-3.383	0.832	-0.825
16	13.786	14.263	14.743	3.366	-3.343	0.827	-0.821
17	13.244	13.696	14.152	3.324	-3.304	0.822	-0.817
18	12.727	13.156	13.588	3.282	-3.265	0.817	-0.813
19	12.233	12.641	13.051	3.241	-3.227	0.813	-0.809
20	11.761	12.149	12.538	3.200	-3.188	0.808	-0.805
21	11.311	11.679	12.048	3.160	-3.150	0.803	-0.800
22	10.880	11.230	11.580	3.119	-3.112	0.798	-0.796
23	10.469	10.801	11.134	3.079	-3.074	0.793	-0.792
24	10.076	10.391	10.707	3.039	-3.037	0.788	-0.787
25	9.700	10.000	10.300	3.000	-3.000	0.783	-0.783
26	9.332	9.625	9.917	3.039	-3.037	0.798	-0.797
27	8.981	9.266	9.551	3.078	-3.073	0.813	-0.812
28	8.646	8.923	9.201	3.117	-3.110	0.829	-0.827
29	8.324	8.595	8.866	3.156	-3.146	0.845	-0.842

30	8.016	8.280	8.545	3.194	-3.182	0.860	-0.857
31	7.722	7.979	8.237	3.232	-3.218	0.876	-0.872
32	7.439	7.690	7.941	3.270	-3.254	0.892	-0.887
33	7.169	7.413	7.658	3.308	-3.289	0.908	-0.902
34	6.910	7.147	7.386	3.346	-3.325	0.924	-0.918
35	6.661	6.893	7.126	3.383	-3.360	0.939	-0.933
36	6.422	6.648	6.875	3.421	-3.395	0.955	-0.948
37	6.193	6.413	6.635	3.458	-3.429	0.972	-0.964
38	5.974	6.188	6.404	3.495	-3.464	0.988	-0.979
39	5.763	5.972	6.182	3.532	-3.498	1.004	-0.994
40	5.560	5.764	5.969	3.569	-3.532	1.020	-1.010
41	5.365	5.564	5.764	3.605	-3.566	1.036	-1.025
42	5.178	5.371	5.567	3.642	-3.600	1.053	-1.041
43	4.998	5.187	5.377	3.678	-3.634	1.069	-1.056
44	4.825	5.009	5.195	3.714	-3.668	1.085	-1.072
45	4.659	4.838	5.019	3.750	-3.701	1.102	-1.088
46	4.499	4.673	4.850	3.786	-3.735	1.118	-1.103
47	4.344	4.515	4.687	3.822	-3.768	1.135	-1.119
48	4.196	4.362	4.530	3.857	-3.801	1.152	-1.135
49	4.053	4.215	4.379	3.893	-3.834	1.168	-1.151
50	3.916	4.074	4.234	3.929	-3.867	1.185	-1.166
51	3.784	3.937	4.093	3.964	-3.899	1.202	-1.182
52	3.656	3.806	3.958	3.999	-3.932	1.219	-1.198
53	3.533	3.679	3.828	4.034	-3.964	1.236	-1.214
54	3.415	3.557	3.702	4.070	-3.997	1.253	-1.230
55	3.301	3.439	3.581	4.105	-4.029	1.270	-1.246
56	3.191	3.326	3.464	4.139	-4.061	1.287	-1.262
57	3.085	3.216	3.351	4.174	-4.093	1.304	-1.279
58	2.983	3.111	3.242	4.209	-4.125	1.321	-1.295
59	2.884	3.009	3.137	4.244	-4.157	1.338	-1.311
60	2.789	2.911	3.036	4.278	-4.189	1.356	-1.327
61	2.697	2.816	2.938	4.313	-4.221	1.373	-1.344
62	2.609	2.725	2.844	4.347	-4.252	1.391	-1.360
63	2.524	2.637	2.753	4.381	-4.284	1.408	-1.377
64	2.442	2.552	2.665	4.416	-4.315	1.426	-1.393
65	2.362	2.470	2.580	4.450	-4.346	1.443	-1.410
66	2.286	2.391	2.498	4.484	-4.377	1.461	-1.427
67	2.212	2.314	2.419	4.518	-4.409	1.479	-1.443
68	2.141	2.241	2.343	4.552	-4.439	1.497	-1.460
69	2.072	2.169	2.269	4.585	-4.470	1.515	-1.477
70	2.006	2.101	2.198	4.619	-4.501	1.533	-1.494
71	1.942	2.034	2.129	4.653	-4.532	1.551	-1.511
72	1.880	1.970	2.063	4.686	-4.562	1.570	-1.528
73	1.821	1.909	1.999	4.719	-4.593	1.588	-1.545
74	1.763	1.849	1.937	4.753	-4.623	1.606	-1.562

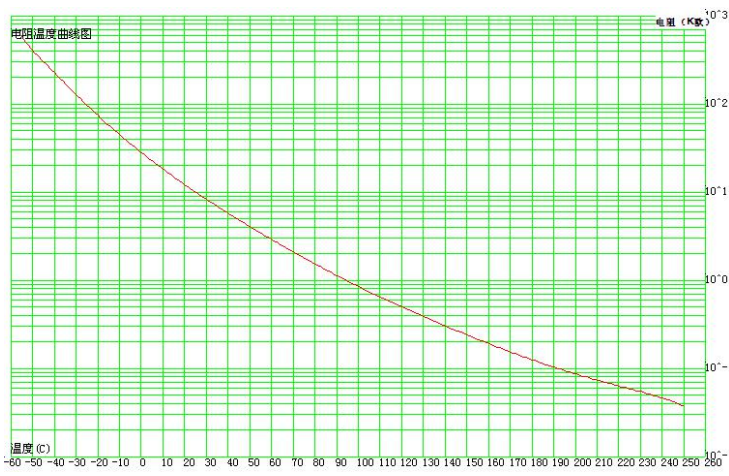
75	1.708	1.791	1.877	4.786	-4.653	1.625	-1.580
76	1.655	1.736	1.820	4.819	-4.683	1.643	-1.597
77	1.603	1.682	1.764	4.852	-4.713	1.662	-1.615
78	1.553	1.630	1.710	4.884	-4.743	1.681	-1.632
79	1.505	1.580	1.658	4.917	-4.772	1.700	-1.650
80	1.459	1.532	1.608	4.950	-4.802	1.719	-1.668
81	1.414	1.486	1.560	4.982	-4.831	1.738	-1.685
82	1.370	1.440	1.513	5.014	-4.861	1.757	-1.703
83	1.329	1.397	1.468	5.046	-4.890	1.776	-1.721
84	1.288	1.355	1.424	5.079	-4.919	1.796	-1.739
85	1.249	1.315	1.382	5.110	-4.948	1.815	-1.757
86	1.212	1.275	1.341	5.142	-4.976	1.835	-1.776
87	1.176	1.238	1.302	5.174	-5.005	1.855	-1.794
88	1.140	1.201	1.264	5.205	-5.033	1.874	-1.812
89	1.107	1.166	1.227	5.237	-5.062	1.894	-1.831
90	1.074	1.132	1.191	5.268	-5.090	1.914	-1.849
91	1.042	1.099	1.157	5.299	-5.118	1.934	-1.868
92	1.012	1.067	1.124	5.330	-5.146	1.954	-1.887
93	0.982	1.036	1.092	5.361	-5.173	1.975	-1.906
94	0.954	1.006	1.061	5.392	-5.201	1.995	-1.925
95	0.926	0.978	1.031	5.422	-5.229	2.016	-1.944
96	0.900	0.950	1.002	5.452	-5.256	2.036	-1.963
97	0.874	0.923	0.974	5.483	-5.283	2.057	-1.982
98	0.849	0.897	0.946	5.513	-5.310	2.078	-2.001
99	0.825	0.872	0.920	5.543	-5.337	2.099	-2.021
100	0.802	0.848	0.895	5.573	-5.364	2.120	-2.040
101	0.780	0.824	0.870	5.602	-5.390	2.141	-2.060
102	0.758	0.801	0.846	5.632	-5.417	2.162	-2.079
103	0.737	0.779	0.823	5.661	-5.443	2.183	-2.099
104	0.716	0.758	0.801	5.690	-5.469	2.205	-2.119
105	0.697	0.737	0.780	5.720	-5.495	2.226	-2.139
106	0.678	0.717	0.759	5.749	-5.521	2.248	-2.159
107	0.659	0.698	0.738	5.777	-5.547	2.269	-2.179
108	0.642	0.679	0.719	5.806	-5.572	2.291	-2.199
109	0.624	0.661	0.700	5.835	-5.598	2.313	-2.219
110	0.608	0.644	0.682	5.863	-5.623	2.335	-2.240
111	0.591	0.627	0.664	5.891	-5.649	2.357	-2.260
112	0.576	0.610	0.646	5.920	-5.674	2.379	-2.281
113	0.560	0.594	0.630	5.948	-5.699	2.402	-2.301
114	0.546	0.579	0.614	5.975	-5.723	2.424	-2.322
115	0.531	0.564	0.598	6.003	-5.748	2.447	-2.343
116	0.518	0.549	0.583	6.031	-5.773	2.469	-2.363
117	0.504	0.535	0.568	6.058	-5.797	2.492	-2.384
118	0.491	0.522	0.553	6.086	-5.822	2.515	-2.405
119	0.479	0.508	0.539	6.113	-5.846	2.538	-2.426

120	0.466	0.495	0.526	6.140	-5.870	2.560	-2.448
121	0.454	0.483	0.513	6.168	-5.894	2.583	-2.469
122	0.443	0.471	0.500	6.194	-5.918	2.607	-2.490
123	0.432	0.459	0.488	6.221	-5.942	2.630	-2.512
124	0.421	0.448	0.476	6.248	-5.965	2.653	-2.533
125	0.410	0.437	0.464	6.275	-5.989	2.676	-2.555
126	0.400	0.426	0.453	6.301	-6.012	2.700	-2.576
127	0.390	0.415	0.442	6.328	-6.036	2.724	-2.598
128	0.380	0.405	0.431	6.354	-6.059	2.747	-2.620
129	0.371	0.395	0.420	6.381	-6.082	2.771	-2.641
130	0.362	0.386	0.410	6.407	-6.106	2.795	-2.663
131	0.353	0.376	0.400	6.433	-6.129	2.819	-2.685
132	0.344	0.367	0.391	6.459	-6.151	2.843	-2.707
133	0.336	0.358	0.381	6.485	-6.174	2.867	-2.729
134	0.328	0.350	0.372	6.511	-6.197	2.891	-2.752
135	0.320	0.341	0.364	6.536	-6.220	2.915	-2.774
136	0.312	0.333	0.355	6.562	-6.242	2.939	-2.796
137	0.305	0.325	0.347	6.588	-6.265	2.964	-2.818
138	0.297	0.317	0.339	6.613	-6.287	2.988	-2.841
139	0.290	0.310	0.331	6.639	-6.310	3.013	-2.863
140	0.283	0.303	0.323	6.664	-6.332	3.037	-2.886
141	0.277	0.296	0.315	6.689	-6.354	3.062	-2.909
142	0.270	0.289	0.308	6.715	-6.376	3.087	-2.931
143	0.264	0.282	0.301	6.740	-6.398	3.112	-2.954
144	0.258	0.275	0.294	6.765	-6.420	3.137	-2.977
145	0.252	0.269	0.287	6.790	-6.442	3.162	-3.000
146	0.246	0.263	0.281	6.815	-6.464	3.187	-3.023
147	0.240	0.257	0.274	6.840	-6.486	3.212	-3.046
148	0.234	0.251	0.268	6.864	-6.508	3.237	-3.069
149	0.229	0.245	0.262	6.889	-6.529	3.263	-3.092
150	0.224	0.240	0.256	6.914	-6.551	3.288	-3.116
151	0.219	0.234	0.250	6.938	-6.572	3.314	-3.139
152	0.214	0.229	0.245	6.963	-6.594	3.339	-3.162
153	0.209	0.224	0.239	6.987	-6.615	3.365	-3.186
154	0.204	0.219	0.234	7.011	-6.636	3.391	-3.209
155	0.199	0.214	0.229	7.036	-6.657	3.417	-3.233
156	0.195	0.209	0.224	7.060	-6.678	3.443	-3.257
157	0.190	0.204	0.219	7.084	-6.699	3.469	-3.280
158	0.186	0.200	0.214	7.108	-6.720	3.495	-3.304
159	0.182	0.195	0.209	7.132	-6.741	3.521	-3.328
160	0.178	0.191	0.205	7.155	-6.762	3.548	-3.352
161	0.174	0.187	0.200	7.179	-6.782	3.574	-3.376
162	0.170	0.183	0.196	7.203	-6.803	3.600	-3.400
163	0.166	0.179	0.192	7.226	-6.823	3.627	-3.425
164	0.163	0.175	0.188	7.250	-6.844	3.654	-3.449

165	0.159	0.171	0.184	7.273	-6.864	3.681	-3.473
166	0.156	0.167	0.180	7.296	-6.884	3.707	-3.498
167	0.152	0.164	0.176	7.319	-6.904	3.734	-3.522
168	0.149	0.160	0.172	7.342	-6.924	3.761	-3.547
169	0.146	0.157	0.169	7.365	-6.944	3.789	-3.572
170	0.143	0.154	0.165	7.388	-6.964	3.816	-3.597
171	0.140	0.150	0.162	7.411	-6.983	3.843	-3.621
172	0.137	0.147	0.158	7.433	-7.003	3.871	-3.646
173	0.134	0.144	0.155	7.456	-7.022	3.898	-3.672
174	0.131	0.141	0.152	7.478	-7.041	3.926	-3.697
175	0.129	0.138	0.149	7.500	-7.061	3.954	-3.722
176	0.126	0.136	0.146	7.522	-7.080	3.982	-3.747
177	0.123	0.133	0.143	7.544	-7.098	4.010	-3.773
178	0.121	0.130	0.140	7.566	-7.117	4.038	-3.798
179	0.118	0.128	0.137	7.587	-7.136	4.066	-3.824
180	0.116	0.125	0.135	7.609	-7.154	4.094	-3.850
181	0.114	0.123	0.132	7.630	-7.173	4.123	-3.876
182	0.111	0.120	0.129	7.651	-7.191	4.151	-3.901
183	0.109	0.118	0.127	7.672	-7.209	4.180	-3.927
184	0.107	0.116	0.124	7.693	-7.227	4.209	-3.954
185	0.105	0.113	0.122	7.714	-7.245	4.238	-3.980
186	0.103	0.111	0.120	7.734	-7.263	4.267	-4.006
187	0.101	0.109	0.118	7.755	-7.280	4.296	-4.033
188	0.099	0.107	0.115	7.775	-7.297	4.325	-4.059
189	0.097	0.105	0.113	7.795	-7.315	4.354	-4.086
190	0.096	0.103	0.111	7.815	-7.332	4.384	-4.113
191	0.094	0.101	0.109	7.835	-7.349	4.413	-4.140
192	0.092	0.099	0.107	7.854	-7.365	4.443	-4.167
193	0.090	0.098	0.105	7.873	-7.382	4.473	-4.194
194	0.089	0.096	0.104	7.893	-7.399	4.503	-4.221
195	0.087	0.094	0.102	7.912	-7.415	4.533	-4.248
196	0.086	0.093	0.100	7.930	-7.431	4.563	-4.276
197	0.084	0.091	0.098	7.949	-7.447	4.593	-4.303
198	0.083	0.089	0.097	7.968	-7.463	4.624	-4.331
199	0.081	0.088	0.095	7.986	-7.479	4.654	-4.359
200	0.080	0.087	0.093	8.004	-7.494	4.685	-4.387
201	0.079	0.085	0.092	8.022	-7.510	4.716	-4.414
202	0.077	0.084	0.090	8.040	-7.525	4.747	-4.443
203	0.076	0.082	0.089	8.058	-7.540	4.778	-4.471
204	0.075	0.081	0.088	8.075	-7.555	4.809	-4.499
205	0.074	0.080	0.086	8.092	-7.570	4.840	-4.527
206	0.072	0.078	0.085	8.110	-7.584	4.871	-4.556
207	0.071	0.077	0.083	8.127	-7.599	4.903	-4.585
208	0.070	0.076	0.082	8.144	-7.614	4.935	-4.613
209	0.069	0.075	0.081	8.160	-7.628	4.966	-4.642

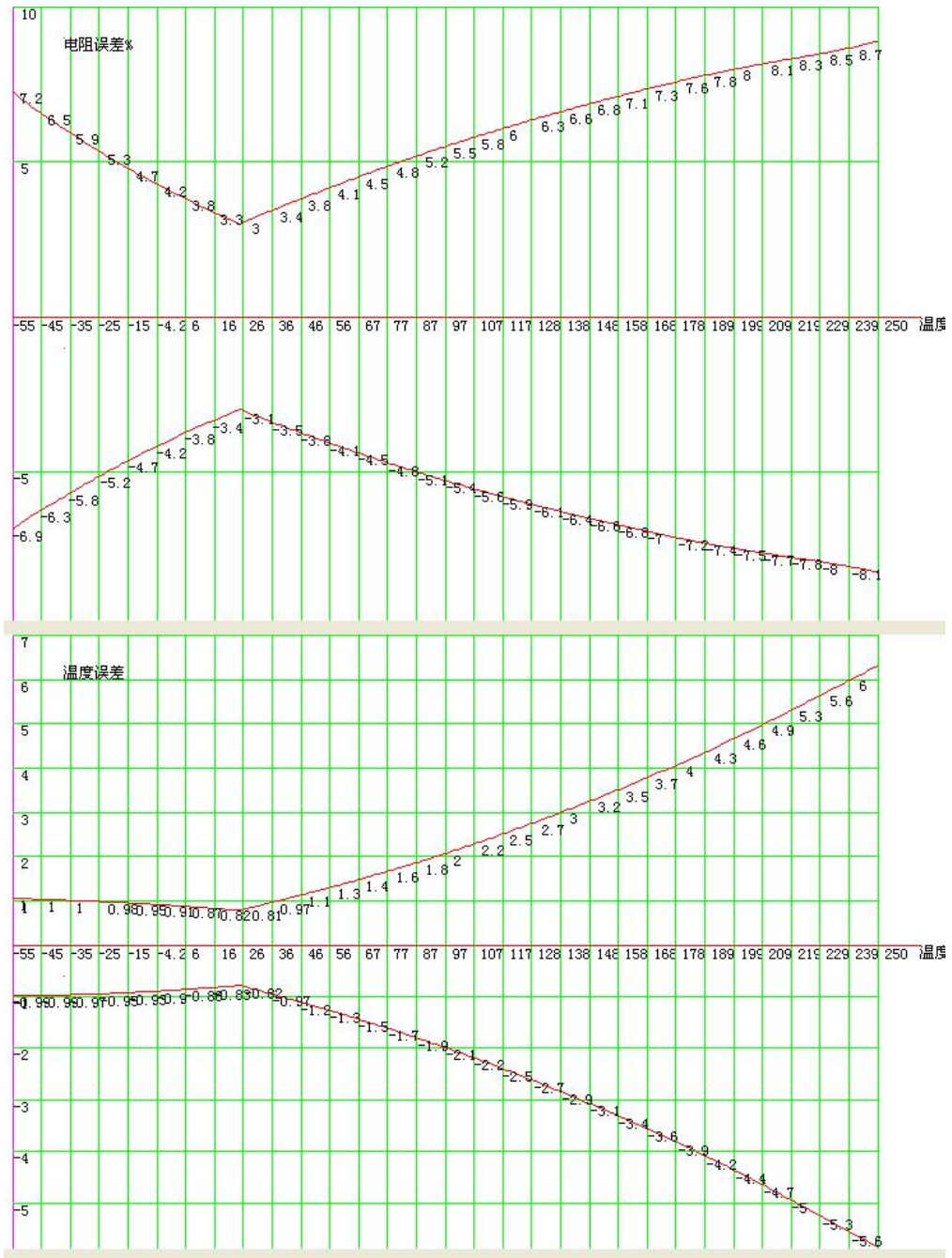


210	0.068	0.074	0.080	8.177	-7.642	4.998	-4.671
211	0.067	0.073	0.078	8.194	-7.656	5.030	-4.700
212	0.066	0.071	0.077	8.210	-7.670	5.062	-4.729
213	0.065	0.070	0.076	8.226	-7.684	5.094	-4.758
214	0.064	0.069	0.075	8.243	-7.698	5.126	-4.788
215	0.063	0.068	0.074	8.259	-7.712	5.159	-4.817
216	0.062	0.067	0.073	8.275	-7.726	5.191	-4.846
217	0.061	0.066	0.072	8.291	-7.739	5.224	-4.876
218	0.060	0.065	0.071	8.307	-7.753	5.256	-4.906
219	0.059	0.064	0.070	8.323	-7.766	5.289	-4.935
220	0.058	0.063	0.069	8.339	-7.780	5.322	-4.965
221	0.058	0.062	0.068	8.355	-7.794	5.354	-4.995
222	0.057	0.061	0.067	8.371	-7.807	5.387	-5.025
223	0.056	0.061	0.066	8.387	-7.821	5.420	-5.054
224	0.055	0.060	0.065	8.403	-7.834	5.453	-5.084
225	0.054	0.059	0.064	8.419	-7.848	5.486	-5.114
226	0.053	0.058	0.063	8.435	-7.862	5.519	-5.144
227	0.053	0.057	0.062	8.451	-7.875	5.552	-5.174
228	0.052	0.056	0.061	8.467	-7.889	5.586	-5.204
229	0.051	0.055	0.060	8.484	-7.903	5.619	-5.234
230	0.050	0.055	0.059	8.500	-7.917	5.652	-5.264
231	0.049	0.054	0.058	8.517	-7.931	5.685	-5.294
232	0.049	0.053	0.057	8.534	-7.946	5.718	-5.324
233	0.048	0.052	0.056	8.551	-7.960	5.752	-5.354
234	0.047	0.051	0.056	8.568	-7.975	5.785	-5.384
235	0.046	0.050	0.055	8.586	-7.990	5.818	-5.414
236	0.045	0.049	0.054	8.604	-8.005	5.851	-5.444
237	0.045	0.049	0.053	8.622	-8.021	5.884	-5.474
238	0.044	0.048	0.052	8.641	-8.037	5.917	-5.503
239	0.043	0.047	0.051	8.660	-8.053	5.950	-5.533
240	0.042	0.046	0.050	8.680	-8.069	5.983	-5.562
241	0.042	0.045	0.049	8.700	-8.086	6.016	-5.592
242	0.041	0.044	0.048	8.720	-8.103	6.049	-5.621
243	0.040	0.044	0.047	8.741	-8.121	6.081	-5.650
244	0.039	0.043	0.047	8.762	-8.139	6.114	-5.679
245	0.038	0.042	0.046	8.784	-8.158	6.146	-5.708
246	0.038	0.041	0.045	8.807	-8.177	6.178	-5.736
247	0.037	0.040	0.044	8.831	-8.197	6.210	-5.765
248	0.036	0.039	0.043	8.855	-8.217	6.242	-5.793
249	0.035	0.038	0.042	8.880	-8.238	6.274	-5.821
250	0.034	0.037	0.041	8.905	-8.260	6.306	-5.849



附表:2

南京时恒电阻误差曲线图



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