



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 MF58-104 H 3950 (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: MF58-104H3950

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:

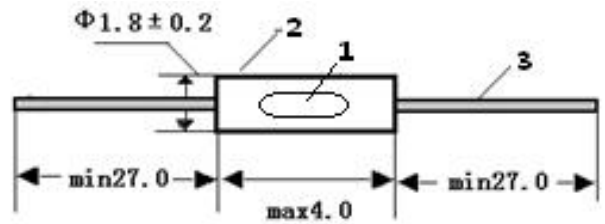
## 1. 电气性能

	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 <sub>25</sub>	T <sub>a</sub> =25±0.05℃ 测试功率≤0.1mw	KΩ	100KΩ±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	3950±2%
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	/	/	℃	-55~195
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: 260±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→195℃30min→25℃5min, 反复 5 次	R <sub>25</sub> ΔR/R≤±2%
2.6 高温储存	温度: 195℃±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 104 H 3950

① ② ③ ④

- ① MF58: 玻壳测温型 NTC 热敏电阻
- ② 104: 25℃的零功率电阻值 100KΩ
- ③ H: 阻值精度代码 F-±1% G-±2% H-±3% K-±10%
- ④ 3950: B<sub>25/50</sub> 值 3950K

## 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=100K  $\Omega$  精度:  $\pm 3\%$  B25/50=3950K B25/85=4092K 精度:  $\pm 1\%$  (P182-6B2)

温度( $^{\circ}\text{C}$ )	电阻(K $\Omega$ )			电阻精度(%)		温度精度( $^{\circ}\text{C}$ )	
	最小值	中心值	最大值	$\Delta R$	$-\Delta R$	$\Delta T$	$-\Delta T$
-55	6518.480	7011.860	7535.790	7.472	-7.036	1.029	-0.969
-54	6204.050	6670.290	7165.120	7.418	-6.989	1.025	-0.966
-53	5895.630	6335.440	6801.920	7.363	-6.941	1.022	-0.963
-52	5594.600	6008.770	6447.780	7.306	-6.892	1.018	-0.961
-51	5302.090	5691.510	6104.040	7.248	-6.842	1.015	-0.958
-50	5019.020	5384.660	5771.750	7.188	-6.790	1.012	-0.956
-49	4746.090	5088.980	5451.730	7.128	-6.737	1.009	-0.953
-48	4483.840	4805.020	5144.570	7.066	-6.684	1.006	-0.951
-47	4232.610	4533.160	4850.680	7.004	-6.629	1.002	-0.949
-46	3992.620	4273.610	4570.250	6.941	-6.574	0.999	-0.947
-45	3763.940	4026.430	4303.350	6.877	-6.519	0.996	-0.944
-44	3546.530	3791.580	4049.910	6.813	-6.462	0.993	-0.942
-43	3340.250	3568.880	3809.730	6.748	-6.406	0.990	-0.940
-42	3144.880	3358.100	3582.550	6.683	-6.349	0.987	-0.938
-41	2960.170	3158.930	3368.000	6.618	-6.292	0.985	-0.936
-40	2785.770	2971.000	3165.690	6.553	-6.234	0.982	-0.934
-39	2621.310	2793.890	2975.150	6.487	-6.176	0.979	-0.932
-38	2466.420	2627.180	2795.900	6.422	-6.119	0.976	-0.930
-37	2320.660	2470.400	2627.440	6.356	-6.061	0.973	-0.928
-36	2183.620	2323.090	2469.240	6.291	-6.003	0.970	-0.926
-35	2054.870	2184.770	2320.800	6.226	-5.945	0.967	-0.923
-34	1933.980	2054.980	2181.590	6.161	-5.888	0.964	-0.921
-33	1820.520	1933.240	2051.100	6.096	-5.830	0.961	-0.919
-32	1714.080	1819.110	1928.830	6.031	-5.773	0.958	-0.917
-31	1614.260	1712.140	1814.310	5.967	-5.716	0.955	-0.915
-30	1520.670	1611.900	1707.060	5.903	-5.659	0.952	-0.913
-29	1432.930	1517.980	1606.630	5.840	-5.602	0.949	-0.910
-28	1350.680	1430.000	1512.610	5.776	-5.546	0.946	-0.908
-27	1273.580	1347.570	1424.570	5.714	-5.490	0.943	-0.906
-26	1201.310	1270.350	1342.140	5.651	-5.434	0.939	-0.903
-25	1133.550	1198.000	1264.960	5.589	-5.379	0.936	-0.901
-24	1070.020	1130.190	1192.670	5.528	-5.323	0.933	-0.898
-23	1010.440	1066.650	1124.960	5.467	-5.269	0.930	-0.896
-22	954.563	1007.070	1061.520	5.406	-5.214	0.926	-0.893
-21	902.128	951.217	1002.070	5.346	-5.160	0.923	-0.891
-20	852.919	898.820	946.339	5.286	-5.106	0.919	-0.888
-19	806.721	849.657	894.074	5.227	-5.053	0.916	-0.885
-18	763.335	803.514	845.047	5.168	-5.000	0.912	-0.883
-17	722.577	760.189	799.039	5.110	-4.947	0.909	-0.880

-16	684.272	719.495	755.849	5.052	-4.895	0.905	-0.877
-15	648.260	681.256	715.288	4.995	-4.843	0.901	-0.874
-14	614.388	645.311	677.180	4.938	-4.791	0.897	-0.871
-13	582.517	611.507	641.361	4.882	-4.740	0.893	-0.868
-12	552.516	579.703	607.680	4.826	-4.689	0.890	-0.864
-11	524.263	549.768	575.995	4.770	-4.639	0.885	-0.861
-10	497.644	521.579	546.174	4.715	-4.588	0.881	-0.858
-9	472.554	495.024	518.095	4.660	-4.539	0.877	-0.854
-8	448.895	469.995	491.645	4.606	-4.489	0.873	-0.851
-7	426.574	446.396	466.718	4.552	-4.440	0.869	-0.847
-6	405.508	424.134	443.215	4.499	-4.391	0.864	-0.844
-5	385.616	403.123	421.046	4.445	-4.342	0.860	-0.840
-4	366.825	383.286	400.125	4.393	-4.294	0.855	-0.836
-3	349.067	364.548	380.373	4.340	-4.246	0.851	-0.832
-2	332.277	346.840	361.716	4.289	-4.198	0.846	-0.829
-1	316.395	330.099	344.087	4.237	-4.151	0.842	-0.825
0	302.709	315.680	328.909	4.190	-4.108	0.834	-0.818
1	287.140	299.283	311.659	4.135	-4.057	0.832	-0.816
2	273.666	285.101	296.747	4.084	-4.010	0.827	-0.812
3	260.900	271.671	282.632	4.034	-3.964	0.822	-0.808
4	248.800	258.947	269.266	3.984	-3.918	0.817	-0.803
5	237.328	246.889	256.604	3.935	-3.872	0.812	-0.799
6	226.445	235.457	244.606	3.885	-3.827	0.807	-0.795
7	216.119	224.614	233.232	3.836	-3.781	0.801	-0.790
8	206.317	214.326	222.445	3.788	-3.736	0.796	-0.785
9	197.009	204.561	212.211	3.739	-3.691	0.791	-0.781
10	188.167	195.290	202.499	3.691	-3.647	0.785	-0.776
11	179.765	186.484	193.279	3.643	-3.602	0.780	-0.771
12	171.779	178.117	184.523	3.596	-3.558	0.774	-0.766
13	164.185	170.165	176.205	3.549	-3.514	0.768	-0.761
14	156.962	162.605	168.300	3.501	-3.470	0.763	-0.756
15	150.090	155.416	160.786	3.455	-3.426	0.757	-0.751
16	143.550	148.577	153.641	3.408	-3.383	0.751	-0.745
17	137.323	142.068	146.845	3.362	-3.340	0.745	-0.740
18	131.394	135.874	140.380	3.316	-3.296	0.739	-0.735
19	125.746	129.976	134.226	3.270	-3.253	0.733	-0.729
20	120.365	124.358	128.369	3.224	-3.211	0.727	-0.724
21	115.237	119.008	122.791	3.179	-3.168	0.721	-0.718
22	110.348	113.909	117.479	3.134	-3.126	0.714	-0.712
23	105.686	109.049	112.418	3.089	-3.084	0.708	-0.707
24	101.241	104.417	107.596	3.044	-3.041	0.701	-0.701
25	97.000	100.000	103.000	3.000	-3.000	0.696	-0.696
26	92.873	95.786	98.703	3.044	-3.041	0.709	-0.709
27	88.938	91.767	94.602	3.088	-3.083	0.723	-0.722
28	85.185	87.932	90.687	3.132	-3.124	0.738	-0.736

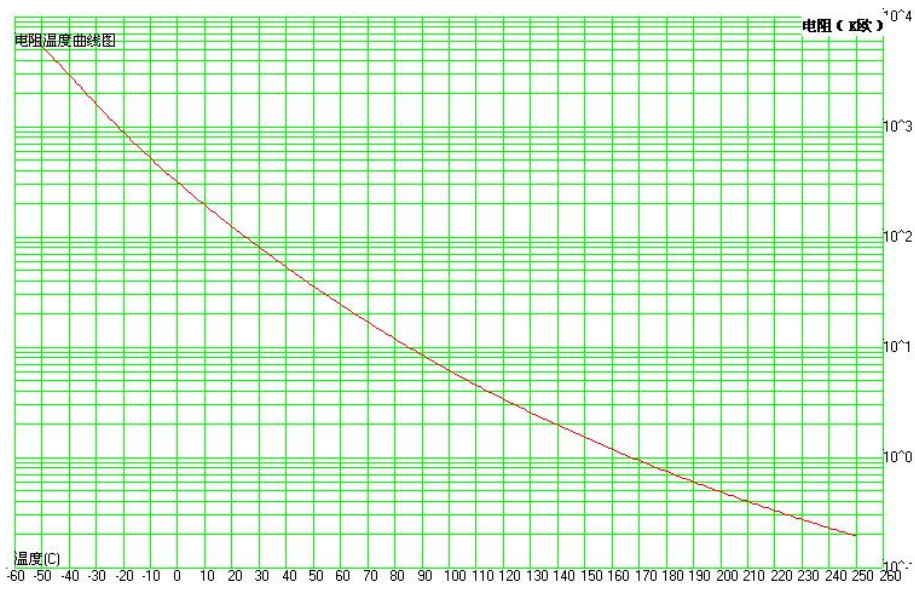
29	81.604	84.272	86.949	3.176	-3.165	0.752	-0.749
30	78.188	80.779	83.380	3.220	-3.206	0.766	-0.763
31	74.928	77.443	79.970	3.263	-3.247	0.781	-0.777
32	71.816	74.258	76.713	3.307	-3.288	0.796	-0.791
33	68.845	71.215	73.601	3.350	-3.328	0.810	-0.805
34	66.007	68.309	70.627	3.393	-3.368	0.825	-0.819
35	63.298	65.532	67.783	3.436	-3.409	0.840	-0.833
36	60.709	62.878	65.065	3.479	-3.449	0.855	-0.847
37	58.236	60.341	62.466	3.521	-3.488	0.870	-0.862
38	55.872	57.916	59.980	3.564	-3.528	0.885	-0.876
39	53.614	55.597	57.602	3.606	-3.567	0.900	-0.890
40	51.454	53.380	55.327	3.648	-3.606	0.915	-0.905
41	49.390	51.259	53.151	3.690	-3.646	0.931	-0.919
42	47.416	49.230	51.068	3.732	-3.684	0.946	-0.934
43	45.528	47.289	49.074	3.774	-3.723	0.961	-0.949
44	43.722	45.432	47.165	3.815	-3.762	0.977	-0.963
45	41.995	43.654	45.338	3.857	-3.800	0.993	-0.978
46	40.342	41.952	43.588	3.898	-3.838	1.008	-0.993
47	38.760	40.323	41.912	3.939	-3.876	1.024	-1.008
48	37.246	38.764	40.307	3.980	-3.914	1.040	-1.023
49	35.797	37.270	38.769	4.021	-3.952	1.056	-1.038
50	34.409	35.840	37.295	4.062	-3.990	1.072	-1.053
51	33.081	34.469	35.883	4.102	-4.027	1.088	-1.068
52	31.809	33.156	34.530	4.143	-4.064	1.105	-1.084
53	30.590	31.898	33.233	4.183	-4.102	1.121	-1.099
54	29.423	30.693	31.989	4.223	-4.138	1.137	-1.115
55	28.304	29.538	30.797	4.263	-4.175	1.154	-1.130
56	27.232	28.430	29.654	4.303	-4.212	1.171	-1.146
57	26.205	27.368	28.557	4.343	-4.248	1.187	-1.161
58	25.221	26.350	27.505	4.382	-4.285	1.204	-1.177
59	24.277	25.374	26.496	4.422	-4.321	1.221	-1.193
60	23.373	24.437	25.528	4.461	-4.357	1.238	-1.209
61	22.505	23.539	24.599	4.500	-4.392	1.255	-1.225
62	21.673	22.678	23.707	4.539	-4.428	1.272	-1.241
63	20.875	21.851	22.851	4.578	-4.464	1.289	-1.257
64	20.110	21.057	22.030	4.617	-4.499	1.307	-1.273
65	19.376	20.296	21.241	4.655	-4.534	1.324	-1.289
66	18.671	19.565	20.483	4.694	-4.569	1.341	-1.306
67	17.995	18.863	19.756	4.732	-4.604	1.359	-1.322
68	17.346	18.189	19.057	4.770	-4.639	1.377	-1.339
69	16.723	17.542	18.386	4.808	-4.673	1.394	-1.355
70	16.124	16.921	17.741	4.846	-4.708	1.412	-1.372
71	15.550	16.324	17.122	4.883	-4.742	1.430	-1.389
72	14.999	15.751	16.526	4.921	-4.776	1.448	-1.406
73	14.469	15.200	15.954	4.958	-4.810	1.466	-1.422

74	13.960	14.671	15.404	4.995	-4.843	1.485	-1.439
75	13.471	14.162	14.875	5.033	-4.877	1.503	-1.456
76	13.001	13.673	14.366	5.069	-4.910	1.521	-1.474
77	12.550	13.203	13.877	5.106	-4.944	1.540	-1.491
78	12.116	12.751	13.407	5.143	-4.977	1.558	-1.508
79	11.699	12.316	12.954	5.179	-5.010	1.577	-1.525
80	11.298	11.898	12.519	5.216	-5.043	1.596	-1.543
81	10.913	11.496	12.100	5.252	-5.075	1.615	-1.560
82	10.542	11.109	11.697	5.288	-5.108	1.634	-1.578
83	10.185	10.737	11.309	5.324	-5.140	1.653	-1.596
84	9.842	10.379	10.935	5.359	-5.172	1.672	-1.613
85	9.512	10.035	10.576	5.395	-5.204	1.691	-1.631
86	9.195	9.703	10.230	5.430	-5.236	1.710	-1.649
87	8.889	9.383	9.896	5.466	-5.268	1.730	-1.667
88	8.595	9.076	9.575	5.501	-5.299	1.749	-1.685
89	8.312	8.780	9.266	5.536	-5.331	1.769	-1.703
90	8.039	8.495	8.968	5.571	-5.362	1.788	-1.721
91	7.777	8.220	8.681	5.605	-5.393	1.808	-1.740
92	7.524	7.956	8.404	5.640	-5.424	1.828	-1.758
93	7.281	7.701	8.138	5.674	-5.455	1.848	-1.776
94	7.046	7.455	7.881	5.709	-5.485	1.868	-1.795
95	6.820	7.219	7.633	5.743	-5.516	1.888	-1.814
96	6.603	6.990	7.394	5.777	-5.546	1.908	-1.832
97	6.393	6.770	7.164	5.810	-5.576	1.929	-1.851
98	6.191	6.558	6.942	5.844	-5.606	1.949	-1.870
99	5.996	6.354	6.727	5.878	-5.636	1.970	-1.889
100	5.823	6.173	6.537	5.908	-5.664	1.991	-1.909
101	5.627	5.966	6.321	5.944	-5.696	2.011	-1.927
102	5.452	5.783	6.129	5.977	-5.725	2.032	-1.946
103	5.283	5.606	5.943	6.010	-5.754	2.052	-1.965
104	5.121	5.435	5.763	6.043	-5.784	2.073	-1.984
105	4.964	5.270	5.590	6.076	-5.813	2.094	-2.004
106	4.812	5.111	5.423	6.108	-5.842	2.116	-2.023
107	4.666	4.957	5.262	6.141	-5.870	2.137	-2.043
108	4.525	4.809	5.106	6.173	-5.899	2.158	-2.062
109	4.389	4.666	4.955	6.205	-5.927	2.180	-2.082
110	4.258	4.527	4.810	6.237	-5.956	2.201	-2.102
111	4.131	4.394	4.669	6.269	-5.984	2.223	-2.121
112	4.008	4.264	4.533	6.301	-6.012	2.244	-2.141
113	3.890	4.140	4.402	6.332	-6.040	2.266	-2.161
114	3.775	4.019	4.275	6.364	-6.068	2.288	-2.181
115	3.665	3.903	4.152	6.395	-6.095	2.310	-2.202
116	3.558	3.790	4.034	6.426	-6.123	2.332	-2.222
117	3.455	3.681	3.919	6.457	-6.150	2.354	-2.242
118	3.355	3.576	3.808	6.488	-6.177	2.376	-2.262

119	3.258	3.474	3.701	6.519	-6.204	2.399	-2.283
120	3.165	3.376	3.597	6.549	-6.231	2.421	-2.303
121	3.075	3.280	3.496	6.580	-6.258	2.443	-2.324
122	2.988	3.188	3.399	6.610	-6.285	2.466	-2.345
123	2.903	3.099	3.305	6.641	-6.311	2.489	-2.365
124	2.822	3.013	3.214	6.671	-6.338	2.512	-2.386
125	2.743	2.929	3.126	6.701	-6.364	2.534	-2.407
126	2.666	2.849	3.040	6.730	-6.390	2.557	-2.428
127	2.593	2.770	2.958	6.760	-6.416	2.580	-2.449
128	2.521	2.695	2.878	6.790	-6.442	2.603	-2.470
129	2.452	2.621	2.800	6.819	-6.468	2.627	-2.491
130	2.385	2.550	2.725	6.849	-6.494	2.650	-2.513
131	2.320	2.481	2.652	6.878	-6.519	2.673	-2.534
132	2.257	2.415	2.582	6.907	-6.545	2.697	-2.555
133	2.196	2.350	2.513	6.936	-6.570	2.720	-2.577
134	2.137	2.288	2.447	6.965	-6.595	2.744	-2.599
135	2.080	2.227	2.383	6.993	-6.620	2.768	-2.620
136	2.024	2.168	2.321	7.022	-6.645	2.792	-2.642
137	1.970	2.111	2.260	7.050	-6.670	2.816	-2.664
138	1.918	2.056	2.202	7.079	-6.695	2.840	-2.686
139	1.868	2.003	2.145	7.107	-6.719	2.864	-2.708
140	1.819	1.951	2.090	7.135	-6.744	2.888	-2.730
141	1.772	1.900	2.037	7.163	-6.768	2.912	-2.752
142	1.726	1.852	1.985	7.191	-6.793	2.937	-2.774
143	1.681	1.804	1.934	7.219	-6.817	2.961	-2.796
144	1.638	1.758	1.886	7.247	-6.841	2.986	-2.818
145	1.596	1.714	1.838	7.274	-6.865	3.010	-2.841
146	1.555	1.670	1.792	7.302	-6.889	3.035	-2.863
147	1.516	1.628	1.748	7.329	-6.912	3.060	-2.886
148	1.477	1.588	1.704	7.356	-6.936	3.085	-2.909
149	1.440	1.548	1.662	7.383	-6.959	3.110	-2.931
150	1.404	1.510	1.621	7.410	-6.983	3.135	-2.954
151	1.369	1.472	1.582	7.437	-7.006	3.160	-2.977
152	1.335	1.436	1.543	7.464	-7.029	3.185	-3.000
153	1.302	1.401	1.506	7.490	-7.052	3.211	-3.023
154	1.270	1.367	1.469	7.517	-7.075	3.236	-3.046
155	1.239	1.333	1.434	7.544	-7.098	3.262	-3.069
156	1.208	1.301	1.400	7.570	-7.121	3.287	-3.092
157	1.179	1.270	1.366	7.596	-7.143	3.313	-3.116
158	1.150	1.239	1.334	7.622	-7.166	3.339	-3.139
159	1.123	1.210	1.302	7.648	-7.188	3.365	-3.162
160	1.096	1.181	1.271	7.674	-7.211	3.391	-3.186
161	1.069	1.153	1.242	7.700	-7.233	3.417	-3.210
162	1.044	1.126	1.213	7.726	-7.255	3.443	-3.233
163	1.019	1.099	1.184	7.751	-7.277	3.469	-3.257

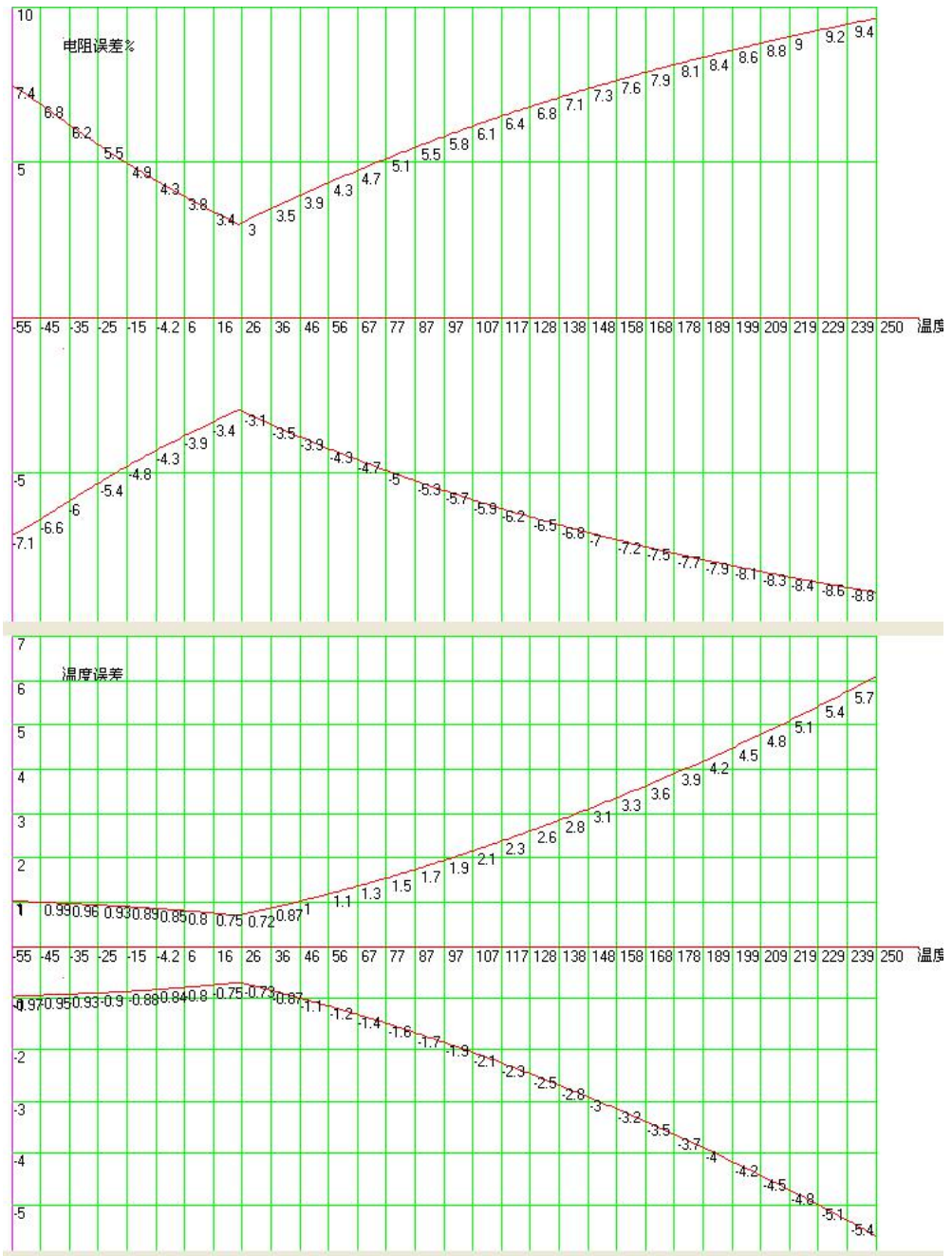
164	0.995	1.073	1.157	7.777	-7.299	3.496	-3.281
165	0.972	1.048	1.130	7.802	-7.321	3.522	-3.305
166	0.949	1.024	1.104	7.828	-7.343	3.548	-3.329
167	0.927	1.000	1.079	7.853	-7.364	3.575	-3.353
168	0.905	0.977	1.054	7.878	-7.386	3.602	-3.377
169	0.884	0.955	1.030	7.903	-7.407	3.629	-3.401
170	0.864	0.933	1.007	7.928	-7.429	3.655	-3.425
171	0.844	0.912	0.984	7.953	-7.450	3.682	-3.450
172	0.825	0.891	0.962	7.977	-7.471	3.709	-3.474
173	0.806	0.871	0.941	8.002	-7.492	3.736	-3.498
174	0.788	0.852	0.920	8.027	-7.513	3.764	-3.523
175	0.770	0.832	0.900	8.051	-7.534	3.791	-3.548
176	0.752	0.814	0.880	8.075	-7.555	3.818	-3.572
177	0.735	0.796	0.860	8.100	-7.576	3.846	-3.597
178	0.719	0.778	0.842	8.124	-7.597	3.873	-3.622
179	0.703	0.761	0.823	8.148	-7.617	3.901	-3.647
180	0.688	0.744	0.805	8.172	-7.638	3.929	-3.672
181	0.672	0.728	0.788	8.196	-7.658	3.957	-3.697
182	0.658	0.712	0.771	8.220	-7.678	3.985	-3.722
183	0.643	0.697	0.754	8.243	-7.699	4.013	-3.747
184	0.629	0.682	0.738	8.267	-7.719	4.041	-3.773
185	0.615	0.667	0.722	8.290	-7.739	4.069	-3.798
186	0.602	0.653	0.707	8.314	-7.759	4.097	-3.824
187	0.589	0.639	0.692	8.337	-7.779	4.125	-3.849
188	0.577	0.625	0.678	8.360	-7.798	4.154	-3.875
189	0.564	0.612	0.663	8.384	-7.818	4.182	-3.900
190	0.552	0.599	0.650	8.407	-7.838	4.211	-3.926
191	0.541	0.587	0.636	8.430	-7.857	4.240	-3.952
192	0.529	0.574	0.623	8.452	-7.877	4.269	-3.978
193	0.518	0.562	0.610	8.475	-7.896	4.298	-4.004
194	0.507	0.551	0.598	8.498	-7.915	4.326	-4.030
195	0.497	0.539	0.585	8.521	-7.935	4.356	-4.056





附表:2

### 南京时恒电阻误差曲线图



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