



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 MF58-503 F 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: MF58-503F3950

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:

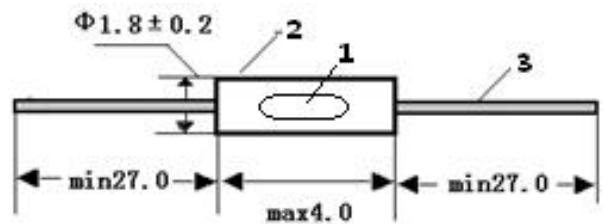
## 1. 电气性能

	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	50KΩ±1%
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±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±1 N, 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→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 503 F 3950

① ② ③ ④

- ① MF58: 玻壳测温型 NTC 热敏电阻
- ② 503: 25℃的零功率电阻值 50KΩ
- ③ F: 阻值精度代码 F-±1% G-±2% H-±3% J-±5%
- 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=50K  $\Omega$  精度:  $\pm 1\%$  B25/50=3950K B25/85=4055K 精度:  $\pm 1\%$  (P214-9)

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	3609.120	3807.000	4015.320	5.472	-5.197	0.739	-0.702
-54	3278.060	3454.420	3639.910	5.369	-5.105	0.736	-0.699
-53	3007.850	3166.920	3334.080	5.278	-5.022	0.732	-0.697
-52	2782.570	2927.420	3079.510	5.195	-4.948	0.729	-0.694
-51	2590.740	2723.640	2863.080	5.119	-4.879	0.725	-0.691
-50	2424.030	2546.680	2675.260	5.048	-4.815	0.721	-0.687
-49	2276.360	2390.020	2509.090	4.982	-4.755	0.716	-0.684
-48	2143.270	2248.910	2359.520	4.918	-4.697	0.712	-0.680
-47	2021.500	2119.880	2222.830	4.856	-4.640	0.707	-0.676
-46	1908.700	2000.430	2096.360	4.795	-4.585	0.703	-0.672
-45	1803.180	1888.750	1978.190	4.735	-4.530	0.698	-0.668
-44	1703.740	1783.580	1866.970	4.675	-4.476	0.693	-0.664
-43	1609.560	1684.020	1761.740	4.615	-4.421	0.688	-0.659
-42	1520.080	1589.480	1661.880	4.554	-4.365	0.683	-0.655
-41	1434.920	1499.560	1566.950	4.493	-4.310	0.679	-0.651
-40	1353.840	1414.000	1476.670	4.432	-4.254	0.674	-0.646
-39	1276.680	1332.610	1390.860	4.370	-4.197	0.669	-0.642
-38	1203.320	1255.290	1309.370	4.308	-4.139	0.664	-0.638
-37	1133.690	1181.940	1232.120	4.245	-4.082	0.659	-0.633
-36	1067.700	1112.460	1158.990	4.182	-4.024	0.654	-0.629
-35	1005.270	1046.790	1089.910	4.119	-3.965	0.649	-0.624
-34	946.341	984.819	1024.750	4.055	-3.907	0.643	-0.620
-33	890.787	926.440	963.423	3.991	-3.848	0.638	-0.615
-32	838.510	871.537	905.775	3.928	-3.789	0.633	-0.611
-31	789.386	819.979	851.672	3.865	-3.730	0.628	-0.606
-30	743.286	771.623	800.961	3.802	-3.672	0.623	-0.601
-29	700.071	726.321	753.479	3.739	-3.614	0.617	-0.597
-28	659.595	683.915	709.062	3.676	-3.556	0.612	-0.592
-27	621.710	644.249	667.538	3.614	-3.498	0.607	-0.587
-26	586.269	607.163	628.738	3.553	-3.441	0.601	-0.582
-25	553.124	572.500	592.495	3.492	-3.384	0.596	-0.577
-24	522.130	540.105	558.643	3.432	-3.328	0.590	-0.572
-23	493.147	509.830	527.025	3.372	-3.272	0.584	-0.567
-22	466.040	481.531	497.487	3.313	-3.217	0.579	-0.562
-21	440.679	455.070	469.884	3.255	-3.162	0.573	-0.557
-20	416.943	430.318	444.078	3.197	-3.108	0.567	-0.551
-19	394.716	407.153	419.940	3.140	-3.054	0.561	-0.546
-18	373.889	385.459	397.346	3.084	-3.001	0.555	-0.540

-17	354.361	365.129	376.186	3.028	-2.948	0.549	-0.535
-16	336.038	346.063	356.351	2.972	-2.896	0.543	-0.529
-15	318.832	328.169	337.746	2.918	-2.845	0.537	-0.523
-14	302.661	311.361	320.279	2.864	-2.794	0.530	-0.517
-13	287.451	295.560	303.867	2.810	-2.743	0.524	-0.511
-12	273.133	280.693	288.434	2.757	-2.693	0.518	-0.505
-11	259.643	266.694	273.908	2.705	-2.643	0.511	-0.499
-10	246.923	253.500	260.225	2.652	-2.594	0.504	-0.493
-9	234.919	241.054	247.325	2.601	-2.545	0.498	-0.487
-8	223.582	229.307	235.154	2.550	-2.496	0.491	-0.481
-7	212.867	218.209	223.662	2.499	-2.448	0.484	-0.474
-6	202.732	207.717	212.803	2.448	-2.399	0.477	-0.468
-5	193.139	197.791	202.535	2.398	-2.352	0.470	-0.461
-4	184.053	188.394	192.819	2.348	-2.304	0.463	-0.454
-3	175.442	179.493	183.620	2.299	-2.257	0.456	-0.448
-2	167.276	171.057	174.905	2.249	-2.210	0.449	-0.441
-1	159.529	163.056	166.645	2.200	-2.163	0.441	-0.434
0	152.175	155.466	158.812	2.152	-2.116	0.434	-0.427
1	145.191	148.260	151.379	2.103	-2.070	0.427	-0.420
2	138.555	141.418	144.325	2.055	-2.023	0.419	-0.413
3	132.249	134.918	137.626	2.007	-1.977	0.412	-0.406
4	126.253	128.740	131.263	1.959	-1.931	0.404	-0.398
5	120.551	122.868	125.217	1.912	-1.886	0.396	-0.391
6	115.126	117.284	119.471	1.864	-1.840	0.389	-0.384
7	109.963	111.973	114.008	1.817	-1.794	0.381	-0.376
8	105.050	106.920	108.813	1.770	-1.749	0.373	-0.369
9	100.372	102.112	103.872	1.723	-1.704	0.365	-0.361
10	95.689	97.302	98.931	1.674	-1.656	0.358	-0.354
11	91.676	93.180	94.699	1.630	-1.614	0.349	-0.346
12	87.635	89.033	90.443	1.584	-1.569	0.341	-0.338
13	83.786	85.083	86.392	1.538	-1.524	0.333	-0.330
14	80.118	81.322	82.536	1.492	-1.480	0.325	-0.322
15	76.624	77.740	78.865	1.446	-1.435	0.316	-0.314
16	73.293	74.328	75.369	1.401	-1.391	0.308	-0.306
17	70.119	71.076	72.040	1.355	-1.347	0.300	-0.298
18	67.092	67.979	68.870	1.310	-1.303	0.291	-0.290
19	64.208	65.027	65.850	1.265	-1.259	0.283	-0.281
20	61.457	62.213	62.973	1.220	-1.216	0.274	-0.273
21	58.834	59.532	60.232	1.176	-1.172	0.266	-0.265
22	56.332	56.976	57.621	1.132	-1.129	0.257	-0.256
23	53.947	54.539	55.132	1.087	-1.085	0.248	-0.248
24	51.671	52.215	52.760	1.043	-1.042	0.239	-0.239
25	49.500	50.000	50.500	1.000	-1.000	0.231	-0.231
26	47.387	47.886	48.386	1.043	-1.042	0.242	-0.242
27	45.373	45.871	46.369	1.087	-1.085	0.253	-0.253

28	43.452	43.948	44.444	1.130	-1.127	0.265	-0.264
29	41.620	42.113	42.607	1.173	-1.169	0.277	-0.276
30	39.873	40.362	40.853	1.216	-1.211	0.288	-0.287
31	38.206	38.691	39.179	1.259	-1.253	0.300	-0.299
32	36.616	37.096	37.579	1.301	-1.295	0.312	-0.310
33	35.098	35.574	36.052	1.344	-1.336	0.324	-0.322
34	33.650	34.120	34.593	1.386	-1.377	0.336	-0.334
35	32.267	32.732	33.199	1.428	-1.418	0.348	-0.346
36	30.947	31.405	31.867	1.470	-1.459	0.360	-0.357
37	29.687	30.139	30.594	1.512	-1.499	0.372	-0.369
38	28.483	28.928	29.378	1.554	-1.540	0.385	-0.381
39	27.332	27.771	28.215	1.595	-1.580	0.397	-0.393
40	26.234	26.666	27.102	1.636	-1.620	0.410	-0.406
41	25.184	25.609	26.039	1.678	-1.660	0.422	-0.418
42	24.180	24.598	25.021	1.718	-1.699	0.435	-0.430
43	23.221	23.632	24.048	1.759	-1.739	0.448	-0.442
44	22.304	22.707	23.116	1.800	-1.778	0.460	-0.455
45	21.426	21.823	22.225	1.840	-1.817	0.473	-0.467
46	20.588	20.977	21.372	1.881	-1.856	0.486	-0.480
47	19.785	20.167	20.555	1.921	-1.894	0.499	-0.492
48	19.017	19.392	19.772	1.961	-1.933	0.512	-0.505
49	18.282	18.650	19.023	2.000	-1.971	0.526	-0.518
50	17.579	17.940	18.306	2.040	-2.009	0.539	-0.531
51	16.906	17.259	17.618	2.080	-2.047	0.552	-0.544
52	16.261	16.607	16.959	2.119	-2.085	0.566	-0.557
53	15.644	15.983	16.328	2.158	-2.122	0.579	-0.570
54	15.052	15.385	15.723	2.197	-2.159	0.593	-0.583
55	14.486	14.811	15.142	2.236	-2.197	0.606	-0.596
56	13.943	14.262	14.586	2.274	-2.234	0.620	-0.609
57	13.423	13.735	14.052	2.313	-2.270	0.634	-0.622
58	12.924	13.229	13.541	2.351	-2.307	0.648	-0.636
59	12.446	12.745	13.050	2.389	-2.343	0.662	-0.649
60	11.988	12.280	12.579	2.428	-2.380	0.676	-0.663
61	11.549	11.835	12.126	2.465	-2.416	0.690	-0.676
62	11.127	11.407	11.693	2.503	-2.452	0.704	-0.690
63	10.723	10.997	11.276	2.541	-2.487	0.718	-0.703
64	10.335	10.603	10.876	2.578	-2.523	0.733	-0.717
65	9.963	10.225	10.492	2.615	-2.558	0.747	-0.731
66	9.606	9.862	10.123	2.652	-2.594	0.762	-0.745
67	9.263	9.513	9.769	2.689	-2.629	0.776	-0.759
68	8.934	9.179	9.429	2.726	-2.663	0.791	-0.773
69	8.618	8.857	9.102	2.763	-2.698	0.806	-0.787
70	8.315	8.549	8.788	2.799	-2.733	0.820	-0.801
71	8.024	8.252	8.486	2.836	-2.767	0.835	-0.815
72	7.744	7.967	8.196	2.872	-2.801	0.850	-0.829

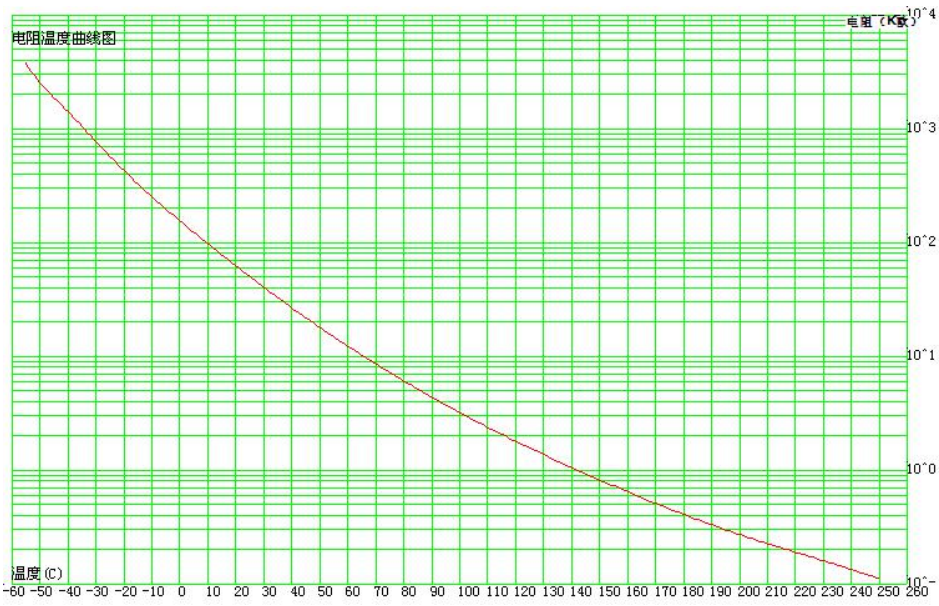
73	7.475	7.693	7.917	2.908	-2.835	0.865	-0.844
74	7.217	7.430	7.649	2.943	-2.869	0.881	-0.858
75	6.969	7.177	7.391	2.979	-2.903	0.896	-0.873
76	6.730	6.934	7.143	3.015	-2.936	0.911	-0.887
77	6.501	6.700	6.904	3.050	-2.969	0.926	-0.902
78	6.281	6.475	6.675	3.085	-3.003	0.942	-0.917
79	6.069	6.259	6.454	3.120	-3.035	0.957	-0.931
80	5.865	6.051	6.242	3.155	-3.068	0.973	-0.946
81	5.669	5.851	6.037	3.190	-3.101	0.989	-0.961
82	5.481	5.658	5.840	3.224	-3.133	1.004	-0.976
83	5.299	5.473	5.651	3.259	-3.166	1.020	-0.991
84	5.125	5.294	5.469	3.293	-3.198	1.036	-1.006
85	4.957	5.123	5.293	3.327	-3.230	1.052	-1.021
86	4.795	4.957	5.124	3.361	-3.261	1.068	-1.037
87	4.640	4.798	4.961	3.395	-3.293	1.084	-1.052
88	4.490	4.645	4.804	3.428	-3.324	1.101	-1.067
89	4.346	4.497	4.653	3.462	-3.355	1.117	-1.083
90	4.207	4.355	4.507	3.495	-3.386	1.133	-1.098
91	4.074	4.218	4.367	3.528	-3.417	1.150	-1.114
92	3.945	4.086	4.231	3.561	-3.448	1.166	-1.129
93	3.821	3.959	4.101	3.594	-3.479	1.183	-1.145
94	3.701	3.836	3.975	3.626	-3.509	1.200	-1.161
95	3.586	3.718	3.854	3.659	-3.539	1.217	-1.177
96	3.475	3.604	3.737	3.691	-3.569	1.233	-1.193
97	3.368	3.494	3.624	3.723	-3.599	1.250	-1.209
98	3.265	3.388	3.515	3.755	-3.629	1.267	-1.225
99	3.165	3.285	3.410	3.787	-3.658	1.284	-1.241
100	3.069	3.187	3.308	3.819	-3.688	1.302	-1.257
101	2.976	3.091	3.210	3.850	-3.717	1.319	-1.273
102	2.887	2.999	3.116	3.881	-3.746	1.336	-1.290
103	2.801	2.910	3.024	3.913	-3.775	1.354	-1.306
104	2.717	2.825	2.936	3.944	-3.804	1.371	-1.323
105	2.637	2.742	2.851	3.975	-3.832	1.389	-1.339
106	2.559	2.662	2.769	4.005	-3.861	1.406	-1.356
107	2.484	2.585	2.689	4.036	-3.889	1.424	-1.372
108	2.412	2.510	2.612	4.067	-3.917	1.442	-1.389
109	2.342	2.438	2.538	4.097	-3.945	1.460	-1.406
110	2.274	2.368	2.466	4.127	-3.973	1.478	-1.423
111	2.209	2.301	2.397	4.157	-4.001	1.496	-1.440
112	2.146	2.236	2.330	4.187	-4.028	1.514	-1.457
113	2.085	2.173	2.265	4.217	-4.056	1.532	-1.474
114	2.026	2.112	2.202	4.246	-4.083	1.551	-1.491
115	1.969	2.053	2.141	4.276	-4.110	1.569	-1.508
116	1.913	1.996	2.082	4.305	-4.137	1.587	-1.525
117	1.860	1.941	2.025	4.335	-4.164	1.606	-1.543

118	1.808	1.887	1.970	4.364	-4.191	1.625	-1.560
119	1.758	1.836	1.916	4.393	-4.217	1.643	-1.578
120	1.710	1.785	1.864	4.422	-4.244	1.662	-1.595
121	1.663	1.737	1.814	4.450	-4.270	1.681	-1.613
122	1.617	1.690	1.766	4.479	-4.297	1.700	-1.630
123	1.573	1.644	1.719	4.508	-4.323	1.719	-1.648
124	1.531	1.600	1.673	4.536	-4.349	1.738	-1.666
125	1.489	1.558	1.629	4.564	-4.375	1.757	-1.684
126	1.449	1.516	1.586	4.592	-4.400	1.776	-1.702
127	1.411	1.476	1.544	4.621	-4.426	1.795	-1.720
128	1.373	1.437	1.504	4.649	-4.452	1.815	-1.738
129	1.336	1.399	1.465	4.676	-4.477	1.834	-1.756
130	1.301	1.363	1.427	4.704	-4.502	1.854	-1.774
131	1.267	1.327	1.390	4.732	-4.528	1.873	-1.792
132	1.234	1.292	1.354	4.759	-4.553	1.893	-1.811
133	1.201	1.259	1.319	4.787	-4.578	1.913	-1.829
134	1.170	1.227	1.286	4.814	-4.603	1.933	-1.848
135	1.140	1.195	1.253	4.842	-4.627	1.952	-1.866
136	1.110	1.164	1.221	4.869	-4.652	1.972	-1.885
137	1.082	1.135	1.190	4.896	-4.677	1.992	-1.903
138	1.054	1.106	1.160	4.923	-4.701	2.013	-1.922
139	1.027	1.078	1.131	4.950	-4.726	2.033	-1.941
140	1.001	1.051	1.103	4.977	-4.750	2.053	-1.960
141	0.975	1.024	1.075	5.003	-4.774	2.073	-1.979
142	0.951	0.999	1.049	5.030	-4.799	2.094	-1.998
143	0.927	0.974	1.023	5.057	-4.823	2.114	-2.017
144	0.903	0.949	0.998	5.083	-4.847	2.135	-2.036
145	0.881	0.926	0.973	5.109	-4.871	2.156	-2.055
146	0.859	0.903	0.949	5.136	-4.894	2.176	-2.074
147	0.837	0.881	0.926	5.162	-4.918	2.197	-2.093
148	0.816	0.859	0.904	5.188	-4.942	2.218	-2.113
149	0.796	0.838	0.882	5.214	-4.965	2.239	-2.132
150	0.777	0.818	0.860	5.240	-4.989	2.260	-2.152
151	0.758	0.798	0.840	5.266	-5.012	2.281	-2.171
152	0.739	0.778	0.820	5.292	-5.035	2.302	-2.191
153	0.721	0.760	0.800	5.318	-5.059	2.324	-2.210
154	0.704	0.741	0.781	5.343	-5.082	2.345	-2.230
155	0.686	0.723	0.762	5.369	-5.105	2.366	-2.250
156	0.670	0.706	0.744	5.394	-5.128	2.388	-2.270
157	0.654	0.689	0.727	5.420	-5.150	2.409	-2.290
158	0.638	0.673	0.710	5.445	-5.173	2.431	-2.310
159	0.623	0.657	0.693	5.470	-5.196	2.453	-2.330
160	0.608	0.642	0.677	5.495	-5.218	2.474	-2.350
161	0.594	0.627	0.661	5.520	-5.241	2.496	-2.370
162	0.580	0.612	0.646	5.545	-5.263	2.518	-2.390

163	0.566	0.598	0.631	5.570	-5.286	2.540	-2.411
164	0.553	0.584	0.617	5.595	-5.308	2.562	-2.431
165	0.540	0.570	0.602	5.619	-5.330	2.585	-2.451
166	0.527	0.557	0.589	5.644	-5.352	2.607	-2.472
167	0.515	0.544	0.575	5.668	-5.374	2.629	-2.493
168	0.503	0.532	0.562	5.693	-5.396	2.652	-2.513
169	0.492	0.520	0.550	5.717	-5.417	2.674	-2.534
170	0.481	0.508	0.537	5.741	-5.439	2.697	-2.555
171	0.470	0.497	0.525	5.765	-5.460	2.719	-2.576
172	0.459	0.486	0.514	5.789	-5.482	2.742	-2.596
173	0.449	0.475	0.502	5.813	-5.503	2.765	-2.617
174	0.439	0.464	0.491	5.837	-5.524	2.788	-2.638
175	0.429	0.454	0.481	5.860	-5.545	2.811	-2.660
176	0.419	0.444	0.470	5.884	-5.566	2.834	-2.681
177	0.410	0.434	0.460	5.907	-5.587	2.857	-2.702
178	0.401	0.425	0.450	5.931	-5.608	2.880	-2.723
179	0.392	0.416	0.440	5.954	-5.628	2.903	-2.745
180	0.384	0.407	0.431	5.977	-5.649	2.927	-2.766
181	0.375	0.398	0.422	6.000	-5.669	2.950	-2.788
182	0.367	0.390	0.413	6.022	-5.690	2.974	-2.809
183	0.360	0.381	0.404	6.045	-5.710	2.997	-2.831
184	0.352	0.373	0.396	6.067	-5.730	3.021	-2.853
185	0.344	0.366	0.388	6.090	-5.750	3.045	-2.875
186	0.337	0.358	0.380	6.112	-5.769	3.069	-2.897
187	0.330	0.351	0.372	6.134	-5.789	3.093	-2.919
188	0.323	0.343	0.365	6.156	-5.809	3.117	-2.941
189	0.317	0.336	0.357	6.178	-5.828	3.141	-2.963
190	0.310	0.330	0.350	6.200	-5.847	3.165	-2.985
191	0.304	0.323	0.343	6.221	-5.866	3.189	-3.007
192	0.298	0.316	0.336	6.243	-5.885	3.213	-3.029
193	0.292	0.310	0.330	6.264	-5.904	3.238	-3.052
194	0.286	0.304	0.323	6.285	-5.923	3.262	-3.074
195	0.280	0.298	0.317	6.306	-5.942	3.287	-3.097
196	0.275	0.292	0.311	6.327	-5.960	3.312	-3.119
197	0.269	0.287	0.305	6.348	-5.978	3.336	-3.142
198	0.264	0.281	0.299	6.368	-5.997	3.361	-3.165
199	0.259	0.276	0.293	6.389	-6.015	3.386	-3.188
200	0.254	0.271	0.288	6.409	-6.033	3.411	-3.211
201	0.249	0.265	0.283	6.429	-6.050	3.436	-3.234
202	0.245	0.260	0.277	6.449	-6.068	3.461	-3.257
203	0.240	0.256	0.272	6.469	-6.086	3.487	-3.280
204	0.236	0.251	0.267	6.489	-6.103	3.512	-3.303
205	0.231	0.246	0.262	6.509	-6.120	3.537	-3.326
206	0.227	0.242	0.258	6.528	-6.138	3.563	-3.350
207	0.223	0.237	0.253	6.548	-6.155	3.588	-3.373

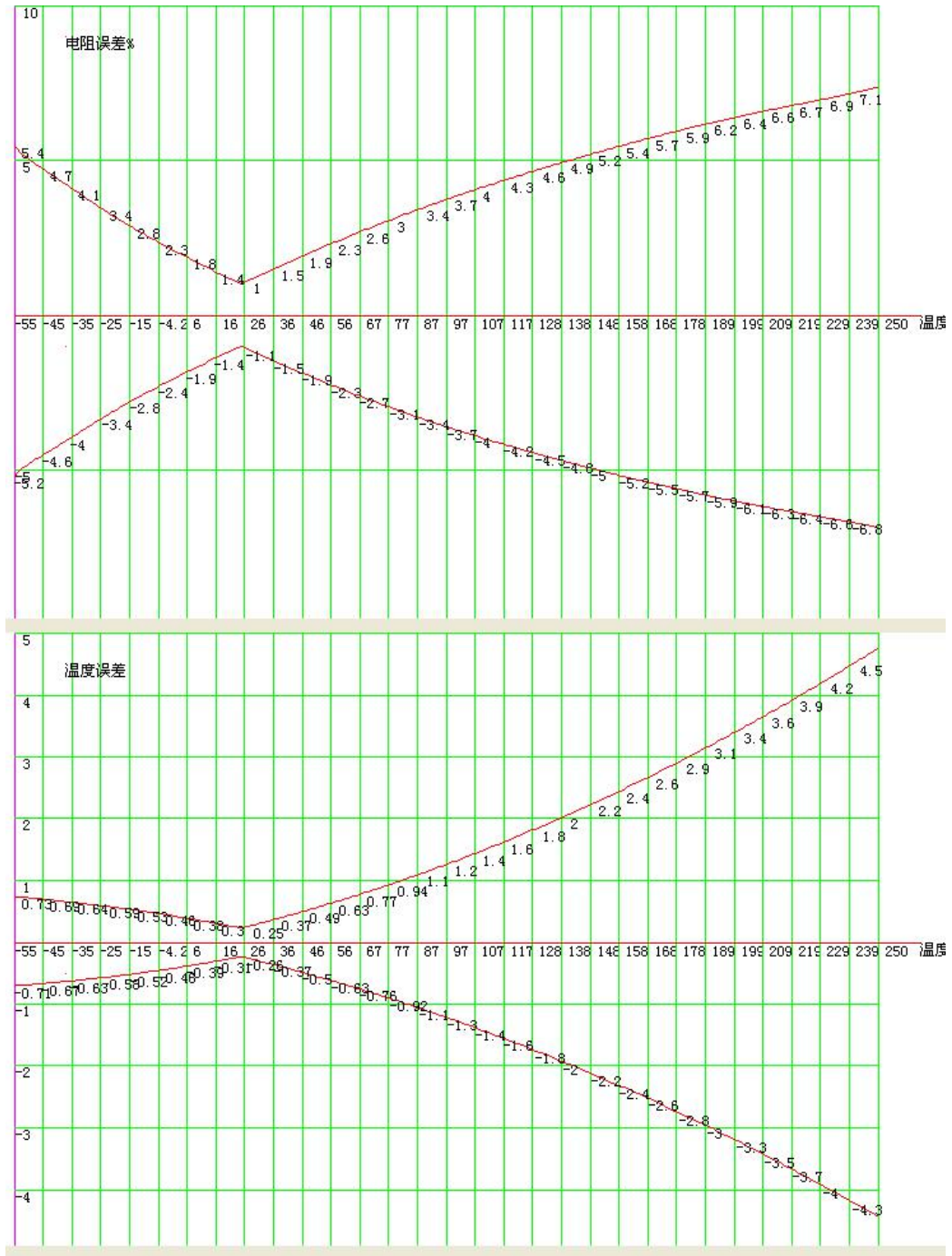


208	0.219	0.233	0.249	6.567	-6.172	3.614	-3.397
209	0.215	0.229	0.244	6.586	-6.189	3.640	-3.420
210	0.211	0.225	0.240	6.605	-6.205	3.666	-3.444
211	0.207	0.221	0.236	6.624	-6.222	3.692	-3.467
212	0.204	0.217	0.232	6.643	-6.238	3.718	-3.491
213	0.200	0.213	0.228	6.662	-6.255	3.744	-3.515
214	0.196	0.210	0.224	6.680	-6.271	3.770	-3.539
215	0.193	0.206	0.220	6.699	-6.288	3.796	-3.563
216	0.190	0.202	0.216	6.717	-6.304	3.822	-3.587
217	0.186	0.199	0.212	6.736	-6.320	3.849	-3.611
218	0.183	0.196	0.209	6.754	-6.336	3.875	-3.635
219	0.180	0.192	0.205	6.772	-6.352	3.902	-3.659
220	0.177	0.189	0.202	6.790	-6.368	3.928	-3.684
221	0.174	0.186	0.199	6.809	-6.384	3.955	-3.708
222	0.171	0.183	0.195	6.827	-6.400	3.982	-3.733
223	0.168	0.180	0.192	6.845	-6.416	4.008	-3.757
224	0.165	0.177	0.189	6.863	-6.431	4.035	-3.782
225	0.162	0.174	0.186	6.881	-6.447	4.062	-3.806
226	0.160	0.171	0.183	6.899	-6.463	4.089	-3.831
227	0.157	0.168	0.180	6.917	-6.479	4.116	-3.856
228	0.154	0.165	0.177	6.935	-6.495	4.144	-3.880
229	0.152	0.162	0.174	6.953	-6.510	4.171	-3.905
230	0.149	0.160	0.171	6.971	-6.526	4.198	-3.930
231	0.147	0.157	0.168	6.990	-6.542	4.226	-3.955
232	0.144	0.154	0.165	7.008	-6.558	4.253	-3.980
233	0.141	0.151	0.162	7.026	-6.574	4.281	-4.005
234	0.139	0.149	0.159	7.045	-6.591	4.308	-4.030
235	0.137	0.146	0.157	7.064	-6.607	4.336	-4.055
236	0.134	0.144	0.154	7.083	-6.623	4.363	-4.081
237	0.132	0.141	0.151	7.102	-6.640	4.391	-4.106
238	0.129	0.139	0.149	7.121	-6.657	4.419	-4.131
239	0.127	0.136	0.146	7.140	-6.674	4.447	-4.156
240	0.125	0.134	0.143	7.160	-6.691	4.475	-4.182
241	0.122	0.131	0.141	7.180	-6.708	4.503	-4.207
242	0.120	0.129	0.138	7.200	-6.725	4.531	-4.232
243	0.118	0.126	0.136	7.220	-6.743	4.559	-4.258
244	0.116	0.124	0.133	7.241	-6.761	4.587	-4.283
245	0.113	0.122	0.130	7.262	-6.779	4.615	-4.309
246	0.111	0.119	0.128	7.283	-6.798	4.643	-4.334
247	0.109	0.117	0.125	7.305	-6.817	4.672	-4.360
248	0.106	0.114	0.123	7.327	-6.836	4.700	-4.385
249	0.104	0.112	0.120	7.350	-6.856	4.728	-4.410
250	0.102	0.110	0.118	7.373	-6.876	4.757	-4.436



附表:2

### 南京时恒电阻误差曲线图



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