



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 MF58-103F 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: MF58-103F 3950

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:

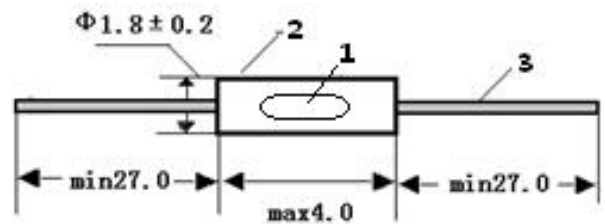
1. 电气性能

	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 _{25/50}	$B = \frac{(T_a \times T_b) / (T_b - T_a)}{\ln(R_a/R_b)}$ T _b =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 _{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	-55℃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: -55℃±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 3950

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 3950: B_{25/50} 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)

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:±1% B25/50=3950K B25/85=3986K 精度:±1%(F4-17)							
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	ΔR	$-\Delta R$	ΔT	$-\Delta T$
-55	1318.470	1399.250	1484.820	6.115	-5.772	0.724	-0.683
-54	1106.840	1172.570	1242.090	5.928	-5.606	0.722	-0.683
-53	944.750	999.260	1056.800	5.759	-5.455	0.720	-0.682
-52	818.224	864.178	912.621	5.605	-5.317	0.717	-0.681
-51	717.728	757.035	798.415	5.466	-5.192	0.715	-0.679
-50	636.617	670.669	706.472	5.338	-5.077	0.712	-0.677
-49	570.173	600.002	631.329	5.221	-4.971	0.709	-0.675
-48	514.985	541.371	569.051	5.112	-4.873	0.706	-0.673
-47	468.554	492.090	516.758	5.012	-4.782	0.702	-0.670
-46	429.016	450.165	472.310	4.919	-4.698	0.698	-0.667
-45	394.967	414.092	434.099	4.831	-4.618	0.695	-0.664
-44	365.335	382.723	400.899	4.749	-4.543	0.691	-0.661
-43	339.293	355.176	371.766	4.670	-4.471	0.686	-0.657
-42	316.197	330.764	345.967	4.596	-4.403	0.682	-0.653
-41	295.543	308.947	322.927	4.525	-4.338	0.677	-0.649
-40	276.930	289.300	302.192	4.456	-4.275	0.673	-0.645
-39	260.038	271.480	283.398	4.389	-4.214	0.668	-0.641
-38	244.611	255.217	266.257	4.325	-4.155	0.663	-0.637
-37	230.443	240.290	250.533	4.262	-4.097	0.658	-0.632
-36	217.365	226.520	236.036	4.201	-4.041	0.653	-0.628
-35	205.241	213.761	222.612	4.140	-3.985	0.648	-0.623
-34	193.957	201.893	210.133	4.081	-3.930	0.642	-0.619
-33	183.421	190.818	198.494	4.022	-3.876	0.637	-0.614
-32	173.554	180.452	187.606	3.964	-3.822	0.631	-0.609
-31	164.292	170.728	177.398	3.906	-3.769	0.626	-0.604
-30	155.581	161.587	167.807	3.849	-3.716	0.620	-0.599
-29	147.374	152.979	158.781	3.792	-3.663	0.614	-0.593
-28	139.631	144.862	150.275	3.736	-3.611	0.609	-0.588
-27	132.318	137.201	142.250	3.679	-3.559	0.603	-0.583
-26	125.405	129.963	134.672	3.623	-3.506	0.597	-0.578
-25	118.866	123.120	127.512	3.567	-3.454	0.591	-0.572
-24	112.678	116.647	120.743	3.511	-3.402	0.585	-0.567
-23	106.819	110.522	114.341	3.456	-3.350	0.579	-0.561
-22	101.271	104.725	108.286	3.400	-3.298	0.573	-0.555
-21	96.016	99.237	102.556	3.344	-3.246	0.566	-0.550
-20	91.038	94.042	97.135	3.289	-3.194	0.560	-0.544
-19	86.323	89.123	92.005	3.233	-3.142	0.554	-0.538
-18	81.857	84.467	87.151	3.178	-3.090	0.548	-0.532
-17	77.626	80.059	82.559	3.122	-3.038	0.541	-0.527

-16	73.620	75.886	78.214	3.067	-2.986	0.535	-0.521
-15	69.826	71.937	74.104	3.012	-2.934	0.528	-0.515
-14	66.233	68.199	70.216	2.957	-2.882	0.522	-0.508
-13	62.832	64.662	66.540	2.902	-2.830	0.515	-0.502
-12	59.612	61.316	63.062	2.848	-2.779	0.509	-0.496
-11	56.564	58.150	59.774	2.793	-2.727	0.502	-0.490
-10	53.678	55.155	56.665	2.739	-2.676	0.495	-0.484
-9	50.948	52.321	53.726	2.685	-2.624	0.488	-0.477
-8	48.364	49.641	50.948	2.631	-2.573	0.481	-0.471
-7	45.918	47.107	48.321	2.577	-2.522	0.475	-0.464
-6	43.604	44.709	45.838	2.523	-2.471	0.468	-0.458
-5	41.415	42.442	43.491	2.470	-2.420	0.461	-0.451
-4	39.343	40.298	41.272	2.417	-2.370	0.454	-0.445
-3	37.382	38.270	39.175	2.364	-2.319	0.447	-0.438
-2	35.527	36.352	37.192	2.312	-2.269	0.439	-0.431
-1	33.771	34.537	35.318	2.259	-2.219	0.432	-0.424
0	31.673	32.371	33.081	2.193	-2.156	0.427	-0.420
1	30.536	31.198	31.870	2.155	-2.120	0.418	-0.411
2	29.048	29.662	30.286	2.104	-2.070	0.410	-0.404
3	27.638	28.208	28.788	2.052	-2.021	0.403	-0.397
4	26.304	26.833	27.370	2.001	-1.972	0.395	-0.390
5	25.040	25.531	26.030	1.951	-1.923	0.388	-0.382
6	23.844	24.299	24.761	1.900	-1.875	0.380	-0.375
7	22.710	23.133	23.561	1.850	-1.826	0.373	-0.368
8	21.636	22.028	22.425	1.800	-1.778	0.365	-0.361
9	20.618	20.982	21.349	1.751	-1.730	0.357	-0.353
10	19.559	19.893	20.230	1.697	-1.678	0.351	-0.347
11	18.740	19.052	19.366	1.653	-1.636	0.342	-0.338
12	17.873	18.162	18.453	1.604	-1.589	0.334	-0.331
13	17.051	17.318	17.587	1.556	-1.542	0.326	-0.323
14	16.271	16.518	16.767	1.508	-1.495	0.318	-0.315
15	15.531	15.760	15.990	1.460	-1.449	0.310	-0.307
16	14.829	15.040	15.253	1.413	-1.403	0.302	-0.300
17	14.163	14.357	14.554	1.365	-1.357	0.294	-0.292
18	13.530	13.710	13.890	1.319	-1.311	0.285	-0.284
19	12.929	13.095	13.261	1.272	-1.266	0.277	-0.276
20	12.358	12.511	12.664	1.226	-1.221	0.269	-0.268
21	11.815	11.956	12.097	1.180	-1.176	0.260	-0.259
22	11.299	11.429	11.559	1.135	-1.132	0.252	-0.251
23	10.809	10.928	11.047	1.089	-1.087	0.243	-0.243
24	10.343	10.452	10.561	1.044	-1.043	0.235	-0.235
25	9.900	10.000	10.100	1.000	-1.000	0.226	-0.226
26	9.469	9.569	9.669	1.044	-1.043	0.238	-0.237
27	9.060	9.160	9.259	1.088	-1.086	0.249	-0.249
28	8.671	8.770	8.869	1.132	-1.129	0.261	-0.260

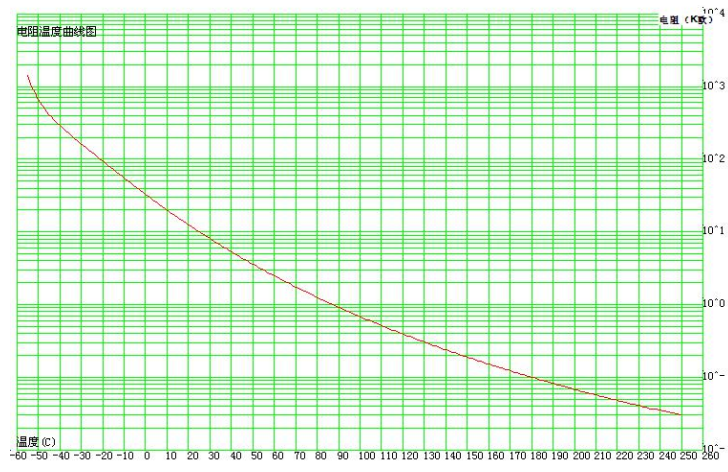
29	8.301	8.399	8.498	1.176	-1.172	0.273	-0.272
30	7.948	8.046	8.144	1.219	-1.214	0.285	-0.284
31	7.613	7.710	7.807	1.262	-1.257	0.297	-0.295
32	7.293	7.389	7.486	1.305	-1.298	0.309	-0.307
33	6.989	7.084	7.180	1.348	-1.340	0.321	-0.319
34	6.699	6.793	6.888	1.391	-1.381	0.333	-0.331
35	6.423	6.516	6.609	1.433	-1.423	0.345	-0.343
36	6.160	6.251	6.344	1.475	-1.463	0.358	-0.355
37	5.909	5.999	6.090	1.517	-1.504	0.370	-0.367
38	5.669	5.758	5.848	1.558	-1.544	0.383	-0.379
39	5.441	5.529	5.617	1.600	-1.584	0.395	-0.392
40	5.223	5.309	5.397	1.641	-1.624	0.408	-0.404
41	5.015	5.100	5.186	1.682	-1.664	0.421	-0.416
42	4.817	4.900	4.985	1.722	-1.703	0.434	-0.429
43	4.627	4.709	4.792	1.763	-1.742	0.446	-0.441
44	4.446	4.526	4.608	1.803	-1.781	0.459	-0.454
45	4.273	4.352	4.432	1.843	-1.820	0.473	-0.466
46	4.107	4.185	4.264	1.883	-1.858	0.486	-0.479
47	3.949	4.026	4.103	1.923	-1.896	0.499	-0.492
48	3.798	3.873	3.949	1.962	-1.934	0.512	-0.505
49	3.654	3.727	3.802	2.001	-1.972	0.525	-0.518
50	3.515	3.588	3.661	2.040	-2.009	0.539	-0.531
51	3.383	3.454	3.526	2.079	-2.046	0.552	-0.544
52	3.257	3.326	3.396	2.117	-2.083	0.566	-0.557
53	3.135	3.203	3.272	2.156	-2.120	0.580	-0.570
54	3.019	3.086	3.154	2.194	-2.157	0.593	-0.583
55	2.908	2.973	3.040	2.232	-2.193	0.607	-0.597
56	2.802	2.866	2.931	2.270	-2.229	0.621	-0.610
57	2.700	2.762	2.826	2.307	-2.265	0.635	-0.624
58	2.602	2.663	2.726	2.344	-2.300	0.649	-0.637
59	2.508	2.568	2.630	2.382	-2.336	0.663	-0.651
60	2.418	2.477	2.537	2.419	-2.371	0.678	-0.664
61	2.332	2.390	2.449	2.455	-2.406	0.692	-0.678
62	2.250	2.306	2.364	2.492	-2.441	0.706	-0.692
63	2.171	2.226	2.282	2.528	-2.476	0.721	-0.706
64	2.094	2.148	2.204	2.565	-2.510	0.735	-0.720
65	2.021	2.074	2.128	2.601	-2.544	0.750	-0.734
66	1.951	2.003	2.056	2.636	-2.578	0.764	-0.748
67	1.884	1.935	1.986	2.672	-2.612	0.779	-0.762
68	1.820	1.869	1.920	2.707	-2.646	0.794	-0.776
69	1.758	1.806	1.855	2.743	-2.679	0.809	-0.790
70	1.698	1.745	1.794	2.778	-2.712	0.824	-0.805
71	1.641	1.687	1.734	2.813	-2.745	0.839	-0.819
72	1.586	1.631	1.677	2.847	-2.778	0.854	-0.833
73	1.533	1.577	1.622	2.882	-2.811	0.869	-0.848

74	1.482	1.525	1.570	2.916	-2.843	0.885	-0.862
75	1.433	1.475	1.519	2.951	-2.876	0.900	-0.877
76	1.386	1.427	1.470	2.985	-2.908	0.915	-0.892
77	1.341	1.381	1.423	3.019	-2.940	0.931	-0.907
78	1.297	1.337	1.378	3.052	-2.971	0.947	-0.922
79	1.255	1.294	1.334	3.086	-3.003	0.962	-0.936
80	1.215	1.253	1.292	3.119	-3.034	0.978	-0.951
81	1.176	1.213	1.251	3.152	-3.066	0.994	-0.967
82	1.138	1.175	1.212	3.185	-3.097	1.010	-0.982
83	1.102	1.138	1.175	3.218	-3.127	1.026	-0.997
84	1.068	1.103	1.138	3.251	-3.158	1.042	-1.012
85	1.030	1.065	1.100	3.287	-3.192	1.057	-1.027
86	1.002	1.035	1.070	3.316	-3.219	1.074	-1.043
87	0.971	1.004	1.037	3.348	-3.249	1.091	-1.058
88	0.941	0.973	1.006	3.380	-3.279	1.107	-1.074
89	0.912	0.944	0.976	3.412	-3.309	1.123	-1.089
90	0.884	0.915	0.947	3.443	-3.338	1.140	-1.105
91	0.858	0.888	0.918	3.475	-3.368	1.157	-1.121
92	0.832	0.861	0.891	3.506	-3.397	1.173	-1.137
93	0.807	0.835	0.865	3.538	-3.426	1.190	-1.153
94	0.783	0.811	0.840	3.569	-3.455	1.207	-1.168
95	0.759	0.787	0.815	3.599	-3.484	1.224	-1.184
96	0.737	0.764	0.792	3.630	-3.513	1.241	-1.201
97	0.715	0.742	0.769	3.661	-3.541	1.258	-1.217
98	0.694	0.720	0.747	3.691	-3.569	1.275	-1.233
99	0.674	0.699	0.725	3.722	-3.598	1.292	-1.249
100	0.652	0.677	0.702	3.756	-3.630	1.309	-1.265
101	0.636	0.660	0.685	3.782	-3.654	1.327	-1.282
102	0.618	0.641	0.666	3.812	-3.681	1.344	-1.298
103	0.600	0.623	0.647	3.841	-3.709	1.362	-1.315
104	0.583	0.606	0.629	3.871	-3.736	1.380	-1.332
105	0.567	0.589	0.612	3.900	-3.763	1.397	-1.348
106	0.551	0.572	0.595	3.930	-3.791	1.415	-1.365
107	0.535	0.557	0.579	3.959	-3.817	1.433	-1.382
108	0.520	0.541	0.563	3.988	-3.844	1.451	-1.399
109	0.506	0.526	0.548	4.016	-3.871	1.469	-1.416
110	0.492	0.512	0.533	4.045	-3.897	1.487	-1.433
111	0.479	0.498	0.518	4.074	-3.924	1.505	-1.450
112	0.466	0.485	0.505	4.102	-3.950	1.523	-1.467
113	0.453	0.472	0.491	4.130	-3.976	1.542	-1.484
114	0.441	0.459	0.478	4.159	-4.002	1.560	-1.501
115	0.429	0.447	0.466	4.187	-4.028	1.579	-1.519
116	0.417	0.435	0.454	4.214	-4.054	1.597	-1.536
117	0.406	0.424	0.442	4.242	-4.079	1.616	-1.554
118	0.396	0.413	0.430	4.270	-4.104	1.635	-1.571

119	0.385	0.402	0.419	4.297	-4.130	1.653	-1.589
120	0.375	0.391	0.408	4.325	-4.155	1.672	-1.607
121	0.365	0.381	0.398	4.352	-4.180	1.691	-1.624
122	0.356	0.372	0.388	4.379	-4.205	1.710	-1.642
123	0.347	0.362	0.378	4.406	-4.229	1.729	-1.660
124	0.338	0.353	0.369	4.433	-4.254	1.748	-1.678
125	0.329	0.344	0.359	4.459	-4.279	1.768	-1.696
126	0.321	0.335	0.350	4.486	-4.303	1.787	-1.714
127	0.313	0.327	0.342	4.512	-4.327	1.806	-1.732
128	0.305	0.319	0.333	4.539	-4.351	1.826	-1.750
129	0.297	0.311	0.325	4.565	-4.375	1.846	-1.769
130	0.290	0.303	0.317	4.591	-4.399	1.865	-1.787
131	0.283	0.296	0.309	4.617	-4.423	1.885	-1.806
132	0.276	0.289	0.302	4.643	-4.446	1.905	-1.824
133	0.269	0.282	0.295	4.669	-4.470	1.925	-1.843
134	0.262	0.275	0.288	4.694	-4.493	1.945	-1.861
135	0.256	0.268	0.281	4.720	-4.516	1.965	-1.880
136	0.250	0.262	0.274	4.745	-4.540	1.985	-1.899
137	0.244	0.255	0.268	4.770	-4.563	2.005	-1.918
138	0.238	0.249	0.261	4.795	-4.585	2.025	-1.936
139	0.232	0.243	0.255	4.820	-4.608	2.045	-1.955
140	0.227	0.238	0.249	4.845	-4.631	2.066	-1.974
141	0.221	0.232	0.244	4.870	-4.653	2.086	-1.994
142	0.216	0.227	0.238	4.895	-4.676	2.107	-2.013
143	0.211	0.222	0.232	4.919	-4.698	2.128	-2.032
144	0.206	0.216	0.227	4.944	-4.720	2.148	-2.051
145	0.201	0.211	0.222	4.968	-4.743	2.169	-2.071
146	0.197	0.207	0.217	4.992	-4.765	2.190	-2.090
147	0.192	0.202	0.212	5.017	-4.786	2.211	-2.110
148	0.188	0.197	0.207	5.041	-4.808	2.232	-2.129
149	0.183	0.193	0.203	5.065	-4.830	2.253	-2.149
150	0.179	0.189	0.198	5.088	-4.851	2.274	-2.168
151	0.175	0.184	0.194	5.112	-4.873	2.296	-2.188
152	0.171	0.180	0.189	5.136	-4.894	2.317	-2.208
153	0.167	0.176	0.185	5.159	-4.916	2.338	-2.228
154	0.164	0.172	0.181	5.183	-4.937	2.360	-2.248
155	0.160	0.169	0.177	5.206	-4.958	2.382	-2.268
156	0.157	0.165	0.173	5.229	-4.979	2.403	-2.288
157	0.153	0.161	0.170	5.252	-5.000	2.425	-2.308
158	0.150	0.158	0.166	5.275	-5.020	2.447	-2.328
159	0.147	0.154	0.163	5.298	-5.041	2.469	-2.349
160	0.143	0.151	0.159	5.321	-5.062	2.491	-2.369
161	0.140	0.148	0.156	5.344	-5.082	2.513	-2.390
162	0.137	0.145	0.152	5.366	-5.103	2.535	-2.410
163	0.134	0.142	0.149	5.389	-5.123	2.557	-2.431

164	0.131	0.139	0.146	5.411	-5.143	2.579	-2.451
165	0.129	0.136	0.143	5.434	-5.163	2.602	-2.472
166	0.126	0.133	0.140	5.456	-5.183	2.624	-2.493
167	0.123	0.130	0.137	5.478	-5.203	2.647	-2.514
168	0.121	0.127	0.134	5.500	-5.223	2.669	-2.535
169	0.118	0.125	0.132	5.522	-5.243	2.692	-2.555
170	0.116	0.122	0.129	5.544	-5.262	2.715	-2.577
171	0.113	0.120	0.126	5.566	-5.282	2.737	-2.598
172	0.111	0.117	0.124	5.587	-5.301	2.760	-2.619
173	0.109	0.115	0.121	5.609	-5.321	2.783	-2.640
174	0.106	0.112	0.119	5.631	-5.340	2.806	-2.661
175	0.104	0.110	0.116	5.652	-5.359	2.829	-2.683
176	0.102	0.108	0.114	5.673	-5.378	2.853	-2.704
177	0.100	0.106	0.112	5.695	-5.397	2.876	-2.726
178	0.098	0.104	0.110	5.716	-5.416	2.899	-2.747
179	0.096	0.102	0.108	5.737	-5.435	2.923	-2.769
180	0.094	0.100	0.105	5.758	-5.454	2.946	-2.791
181	0.092	0.098	0.103	5.779	-5.473	2.970	-2.812
182	0.090	0.096	0.101	5.800	-5.491	2.993	-2.834
183	0.089	0.094	0.099	5.820	-5.510	3.017	-2.856
184	0.087	0.092	0.097	5.841	-5.528	3.041	-2.878
185	0.085	0.090	0.096	5.862	-5.546	3.065	-2.900
186	0.084	0.089	0.094	5.882	-5.565	3.089	-2.922
187	0.082	0.087	0.092	5.902	-5.583	3.113	-2.944
188	0.080	0.085	0.090	5.923	-5.601	3.137	-2.967
189	0.079	0.084	0.089	5.943	-5.619	3.161	-2.989
190	0.077	0.082	0.087	5.963	-5.637	3.186	-3.011
191	0.076	0.080	0.085	5.983	-5.655	3.210	-3.034
192	0.074	0.079	0.084	6.003	-5.673	3.234	-3.056
193	0.073	0.077	0.082	6.023	-5.690	3.259	-3.079
194	0.072	0.076	0.081	6.043	-5.708	3.284	-3.102
195	0.070	0.075	0.079	6.063	-5.726	3.308	-3.124
196	0.069	0.073	0.078	6.082	-5.743	3.333	-3.147
197	0.068	0.072	0.076	6.102	-5.760	3.358	-3.170
198	0.066	0.071	0.075	6.122	-5.778	3.383	-3.193
199	0.065	0.069	0.074	6.141	-5.795	3.408	-3.216
200	0.064	0.068	0.072	6.160	-5.812	3.433	-3.239
201	0.063	0.067	0.071	6.180	-5.829	3.458	-3.262
202	0.062	0.066	0.070	6.199	-5.846	3.483	-3.285
203	0.061	0.064	0.068	6.218	-5.863	3.508	-3.308
204	0.059	0.063	0.067	6.237	-5.880	3.534	-3.332
205	0.058	0.062	0.066	6.256	-5.897	3.559	-3.355
206	0.057	0.061	0.065	6.275	-5.914	3.585	-3.378
207	0.056	0.060	0.064	6.294	-5.930	3.610	-3.402
208	0.055	0.059	0.063	6.312	-5.947	3.636	-3.426

209	0.054	0.058	0.062	6.331	-5.963	3.662	-3.449
210	0.053	0.057	0.060	6.350	-5.980	3.688	-3.473
211	0.052	0.056	0.059	6.368	-5.996	3.714	-3.497
212	0.052	0.055	0.058	6.387	-6.012	3.740	-3.521
213	0.051	0.054	0.057	6.405	-6.029	3.766	-3.545
214	0.050	0.053	0.056	6.423	-6.045	3.792	-3.568
215	0.049	0.052	0.055	6.441	-6.061	3.818	-3.593
216	0.048	0.051	0.055	6.459	-6.077	3.844	-3.617
217	0.047	0.050	0.054	6.478	-6.093	3.871	-3.641
218	0.046	0.049	0.053	6.495	-6.109	3.897	-3.665
219	0.046	0.049	0.052	6.513	-6.124	3.924	-3.689
220	0.045	0.048	0.051	6.531	-6.140	3.950	-3.714
221	0.044	0.047	0.050	6.549	-6.156	3.977	-3.738
222	0.043	0.046	0.049	6.567	-6.171	4.004	-3.763
223	0.043	0.045	0.049	6.584	-6.187	4.031	-3.787
224	0.042	0.045	0.048	6.602	-6.202	4.058	-3.812
225	0.041	0.044	0.047	6.619	-6.217	4.085	-3.837
226	0.041	0.043	0.046	6.636	-6.233	4.112	-3.862
227	0.040	0.043	0.045	6.654	-6.248	4.139	-3.887
228	0.039	0.042	0.045	6.671	-6.263	4.166	-3.911
229	0.039	0.041	0.044	6.688	-6.278	4.194	-3.936
230	0.038	0.041	0.043	6.705	-6.293	4.221	-3.962
231	0.037	0.040	0.043	6.722	-6.308	4.248	-3.987
232	0.037	0.039	0.042	6.739	-6.323	4.276	-4.012
233	0.036	0.039	0.041	6.756	-6.338	4.304	-4.037
234	0.036	0.038	0.041	6.772	-6.352	4.331	-4.063
235	0.035	0.037	0.040	6.789	-6.367	4.359	-4.088
236	0.034	0.037	0.039	6.806	-6.381	4.387	-4.113
237	0.034	0.036	0.039	6.822	-6.396	4.415	-4.139
238	0.033	0.036	0.038	6.839	-6.410	4.443	-4.165
239	0.033	0.035	0.038	6.855	-6.425	4.471	-4.190
240	0.032	0.035	0.037	6.871	-6.439	4.499	-4.216
241	0.032	0.034	0.036	6.888	-6.453	4.528	-4.242
242	0.031	0.034	0.036	6.904	-6.467	4.556	-4.268
243	0.031	0.033	0.035	6.920	-6.481	4.584	-4.294
244	0.030	0.033	0.035	6.936	-6.495	4.613	-4.320
245	0.030	0.032	0.034	6.952	-6.509	4.641	-4.346
246	0.030	0.032	0.034	6.967	-6.523	4.670	-4.372
247	0.029	0.031	0.033	6.983	-6.537	4.699	-4.398
248	0.029	0.031	0.033	6.999	-6.550	4.728	-4.425
249	0.028	0.030	0.032	7.014	-6.564	4.757	-4.451
250	0.028	0.030	0.032	7.030	-6.577	4.786	-4.478



附表:2

南京时恒电阻误差曲线图

