



南京时恒电子科技有限公司

规格承认书

APPROVAL SHEET

客户名称:

CUSTOMER

深圳立创电子商务 20161011011

产品名称:

PART NAME

MF58 玻壳测温型 NTC 热敏电阻器

产品规格:

PART NUMBER

MF58-103J 3950

日期:

DATE

2016 年 10 月 11 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: MF58-103J 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:

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审核:

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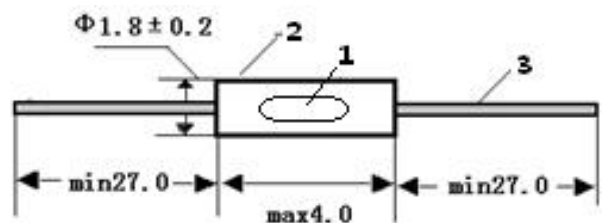
1. 电气性能

	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}	$T_a = 25 \pm 0.05^\circ\text{C}$ 测试功率 $\leq 0.1\text{mw}$	$\text{K}\Omega$	$10\text{K}\Omega \pm 5\%$
1.2	B 值	$B_{25/50}$	$B = [(T_a \times T_b) / (T_b - T_a)] \times \ln(R_a/R_b)$ $T_b = 50^\circ\text{C} \pm 0.05^\circ\text{C}$	K	$3950 \pm 1\%$
1.3	耗散系数	δ	静止空气中	$\text{mW}/^\circ\text{C}$	≥ 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	$\text{M}\Omega$	≥ 500
1.7	工作温度范围	/	/	$^\circ\text{C}$	-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: $10 \pm 1\text{N}$, 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±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 (芯片)	1	
2	外壳	玻璃	1	
3	导线	$\Phi 0.5 \pm 0.05$ 镀锡钢线	2	
4				

5. 产品型号说明

MF58 103 J 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 J: 阻值精度代码 F-±1% G-±2% H-±3% J-±5%

④ 3950: B25/50 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 < 3s;
- 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=10K Ω 精度: $\pm 5\%$ B25/50=3950K B25/85=3986K 精度: $\pm 1\%$ (PF4-17)							
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	796.153	876.395	962.313	9.803	-9.155	1.282	-1.198
-54	721.272	793.175	870.066	9.694	-9.065	1.287	-1.203
-53	657.460	722.326	791.607	9.591	-8.980	1.290	-1.208
-52	602.504	661.364	724.160	9.494	-8.899	1.293	-1.212
-51	554.708	608.391	665.601	9.403	-8.823	1.296	-1.216
-50	512.760	561.937	614.290	9.316	-8.751	1.298	-1.219
-49	475.633	520.853	568.947	9.233	-8.681	1.299	-1.221
-48	442.517	484.235	528.563	9.154	-8.615	1.300	-1.224
-47	412.768	451.365	492.337	9.077	-8.551	1.301	-1.225
-46	385.873	421.667	459.631	9.003	-8.488	1.301	-1.227
-45	361.413	394.677	429.926	8.931	-8.428	1.301	-1.228
-44	339.051	370.019	402.806	8.860	-8.369	1.301	-1.229
-43	318.512	347.384	377.927	8.792	-8.311	1.300	-1.229
-42	299.567	326.520	355.008	8.724	-8.254	1.300	-1.230
-41	282.029	307.216	333.817	8.658	-8.198	1.299	-1.230
-40	265.740	289.300	314.160	8.593	-8.143	1.298	-1.230
-39	250.571	272.623	295.874	8.528	-8.088	1.296	-1.229
-38	236.408	257.063	278.823	8.465	-8.034	1.295	-1.229
-37	223.159	242.515	262.890	8.401	-7.981	1.294	-1.229
-36	210.742	228.888	247.976	8.339	-7.928	1.292	-1.228
-35	199.088	216.106	233.993	8.276	-7.875	1.290	-1.228
-34	188.136	204.101	220.869	8.215	-7.822	1.289	-1.227
-33	177.833	192.814	208.536	8.153	-7.770	1.287	-1.226
-32	168.132	182.193	196.937	8.092	-7.717	1.285	-1.225
-31	158.992	172.192	186.021	8.031	-7.665	1.283	-1.225
-30	150.376	162.768	175.742	7.970	-7.613	1.281	-1.224
-29	142.249	153.885	166.058	7.909	-7.561	1.279	-1.223
-28	134.581	145.509	156.931	7.849	-7.510	1.277	-1.222
-27	127.345	137.608	148.327	7.789	-7.458	1.275	-1.221
-26	120.513	130.154	140.214	7.729	-7.406	1.273	-1.220
-25	114.064	123.120	132.562	7.669	-7.355	1.271	-1.219
-24	107.973	116.481	125.345	7.609	-7.303	1.269	-1.218
-23	102.222	110.216	118.538	7.550	-7.252	1.267	-1.217
-22	96.791	104.302	112.115	7.491	-7.201	1.264	-1.216
-21	91.661	98.720	106.057	7.431	-7.150	1.262	-1.214
-20	86.816	93.450	100.341	7.373	-7.099	1.260	-1.213
-19	82.240	88.476	94.947	7.314	-7.048	1.258	-1.212
-18	77.917	83.780	89.859	7.255	-6.998	1.256	-1.211
-17	73.834	79.347	85.058	7.197	-6.947	1.253	-1.210
-16	69.977	75.161	80.527	7.139	-6.897	1.251	-1.209
-15	66.334	71.209	76.252	7.081	-6.846	1.249	-1.207
-14	62.892	67.478	72.218	7.023	-6.796	1.247	-1.206

-13	59.641	63.955	68.411	6.966	-6.746	1.244	-1.205
-12	56.569	60.629	64.818	6.909	-6.696	1.242	-1.204
-11	53.666	57.487	61.427	6.852	-6.647	1.240	-1.202
-10	50.923	54.520	58.226	6.795	-6.597	1.237	-1.201
-9	48.331	51.718	55.204	6.739	-6.548	1.235	-1.200
-8	45.882	49.071	52.351	6.683	-6.499	1.233	-1.199
-7	43.566	46.570	49.657	6.627	-6.450	1.230	-1.197
-6	41.377	44.207	47.113	6.572	-6.401	1.228	-1.196
-5	39.308	41.974	44.710	6.517	-6.353	1.225	-1.194
-4	37.351	39.864	42.440	6.462	-6.304	1.223	-1.193
-3	35.500	37.869	40.296	6.407	-6.256	1.220	-1.192
-2	33.749	35.983	38.269	6.353	-6.208	1.218	-1.190
-1	32.093	34.200	36.354	6.299	-6.161	1.215	-1.189
0	30.393	32.371	34.391	6.240	-6.109	1.216	-1.191
1	29.042	30.918	32.832	6.191	-6.066	1.210	-1.186
2	27.638	29.408	31.214	6.138	-6.019	1.207	-1.184
3	26.309	27.980	29.683	6.085	-5.972	1.205	-1.182
4	25.050	26.628	28.234	6.033	-5.925	1.202	-1.181
5	23.857	25.348	26.864	5.981	-5.879	1.199	-1.179
6	22.728	24.136	25.567	5.929	-5.833	1.197	-1.177
7	21.657	22.988	24.339	5.877	-5.787	1.194	-1.175
8	20.643	21.900	23.176	5.826	-5.741	1.191	-1.174
9	19.681	20.869	22.075	5.775	-5.696	1.188	-1.172
10	18.768	19.893	21.031	5.724	-5.651	1.185	-1.170
11	17.903	18.966	20.043	5.674	-5.606	1.182	-1.168
12	17.082	18.088	19.106	5.624	-5.561	1.179	-1.166
13	16.303	17.255	18.217	5.574	-5.516	1.176	-1.164
14	15.564	16.465	17.375	5.524	-5.472	1.173	-1.162
15	14.862	15.715	16.575	5.475	-5.428	1.170	-1.160
16	14.195	15.003	15.817	5.426	-5.384	1.167	-1.158
17	13.562	14.327	15.098	5.378	-5.340	1.164	-1.156
18	12.960	13.685	14.414	5.329	-5.297	1.161	-1.154
19	12.388	13.075	13.766	5.281	-5.254	1.158	-1.151
20	11.844	12.496	13.150	5.234	-5.211	1.154	-1.149
21	11.328	11.945	12.565	5.186	-5.168	1.151	-1.147
22	10.836	11.421	12.008	5.139	-5.126	1.148	-1.145
23	10.368	10.924	11.480	5.092	-5.083	1.144	-1.142
24	9.923	10.450	10.977	5.046	-5.041	1.141	-1.140
25	9.500	10.000	10.500	5.000	-5.000	1.138	-1.138
26	9.088	9.571	10.054	5.046	-5.041	1.155	-1.154
27	8.697	9.163	9.629	5.091	-5.082	1.173	-1.171
28	8.325	8.774	9.225	5.137	-5.124	1.190	-1.187
29	7.970	8.404	8.840	5.182	-5.164	1.208	-1.204
30	7.632	8.052	8.473	5.227	-5.205	1.226	-1.221
31	7.311	7.716	8.123	5.272	-5.245	1.244	-1.238
32	7.005	7.396	7.789	5.317	-5.286	1.262	-1.255
33	6.713	7.091	7.471	5.361	-5.325	1.281	-1.272
34	6.435	6.800	7.167	5.405	-5.365	1.299	-1.290
35	6.170	6.522	6.878	5.449	-5.405	1.318	-1.307
36	5.917	6.258	6.601	5.493	-5.444	1.336	-1.324

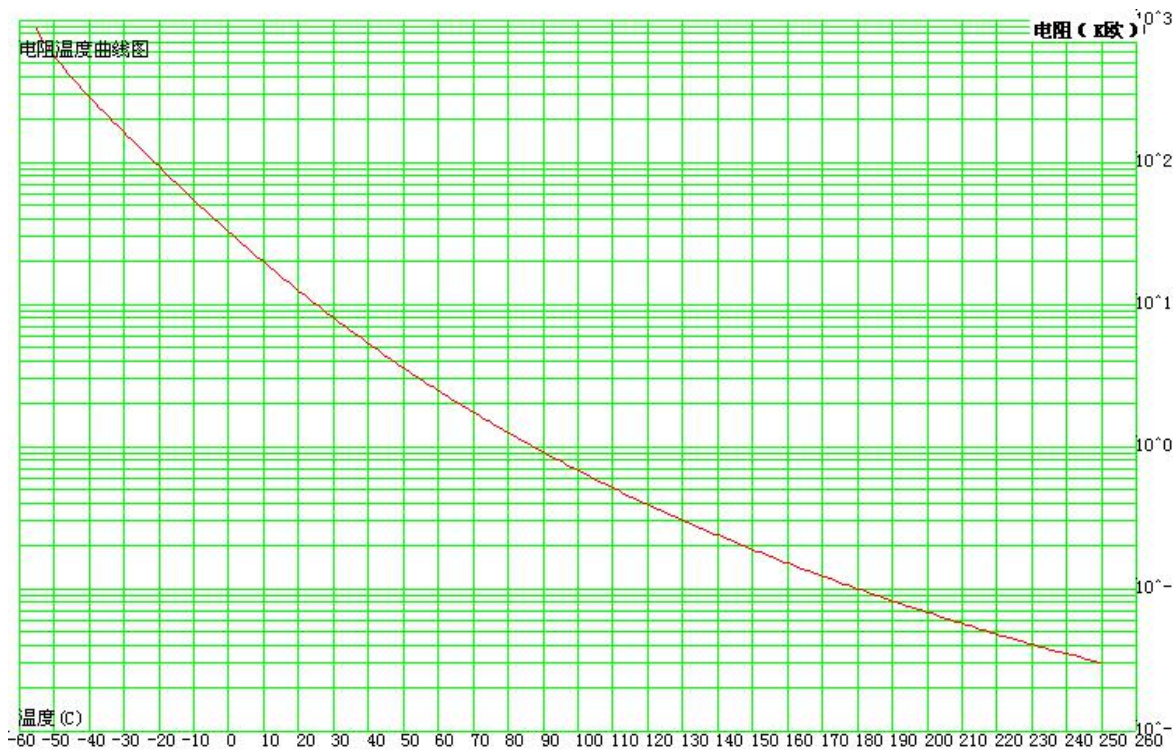
37	5.676	6.005	6.337	5.536	-5.483	1.355	-1.342
38	5.446	5.764	6.086	5.580	-5.521	1.374	-1.359
39	5.226	5.534	5.845	5.623	-5.560	1.393	-1.377
40	5.017	5.314	5.615	5.665	-5.598	1.412	-1.395
41	4.817	5.104	5.396	5.708	-5.636	1.431	-1.413
42	4.626	4.904	5.186	5.750	-5.674	1.450	-1.431
43	4.443	4.712	4.985	5.792	-5.711	1.469	-1.449
44	4.269	4.529	4.794	5.834	-5.749	1.489	-1.467
45	4.102	4.354	4.610	5.876	-5.786	1.508	-1.485
46	3.943	4.187	4.435	5.917	-5.823	1.528	-1.503
47	3.791	4.027	4.267	5.959	-5.860	1.547	-1.522
48	3.646	3.874	4.107	6.000	-5.896	1.567	-1.540
49	3.506	3.728	3.953	6.041	-5.932	1.587	-1.559
50	3.373	3.588	3.806	6.081	-5.968	1.607	-1.577
51	3.246	3.453	3.665	6.122	-6.004	1.627	-1.596
52	3.124	3.325	3.530	6.162	-6.040	1.648	-1.615
53	3.007	3.202	3.401	6.202	-6.075	1.668	-1.634
54	2.896	3.084	3.277	6.242	-6.110	1.688	-1.653
55	2.789	2.971	3.158	6.281	-6.145	1.709	-1.672
56	2.686	2.863	3.044	6.321	-6.180	1.730	-1.691
57	2.588	2.760	2.935	6.360	-6.215	1.750	-1.710
58	2.494	2.660	2.831	6.399	-6.249	1.771	-1.730
59	2.404	2.565	2.730	6.438	-6.283	1.792	-1.749
60	2.318	2.474	2.634	6.476	-6.317	1.813	-1.769
61	2.235	2.386	2.542	6.515	-6.351	1.834	-1.788
62	2.155	2.302	2.453	6.553	-6.384	1.856	-1.808
63	2.079	2.222	2.368	6.591	-6.418	1.877	-1.828
64	2.006	2.144	2.287	6.628	-6.451	1.899	-1.848
65	1.936	2.070	2.208	6.666	-6.484	1.920	-1.868
66	1.869	1.999	2.133	6.703	-6.516	1.942	-1.888
67	1.804	1.930	2.061	6.741	-6.549	1.964	-1.908
68	1.742	1.865	1.991	6.778	-6.581	1.985	-1.928
69	1.682	1.802	1.924	6.814	-6.614	2.007	-1.948
70	1.625	1.741	1.860	6.851	-6.646	2.030	-1.969
71	1.570	1.682	1.798	6.887	-6.677	2.052	-1.989
72	1.517	1.626	1.739	6.924	-6.709	2.074	-2.010
73	1.466	1.573	1.682	6.960	-6.740	2.097	-2.031
74	1.418	1.521	1.627	6.995	-6.772	2.119	-2.051
75	1.371	1.471	1.574	7.031	-6.803	2.142	-2.072
76	1.326	1.423	1.523	7.067	-6.834	2.164	-2.093
77	1.282	1.377	1.475	7.102	-6.864	2.187	-2.114
78	1.240	1.332	1.427	7.137	-6.895	2.210	-2.135
79	1.200	1.290	1.382	7.172	-6.925	2.233	-2.157
80	1.162	1.248	1.338	7.207	-6.955	2.257	-2.178
81	1.124	1.209	1.296	7.241	-6.985	2.280	-2.199
82	1.089	1.171	1.256	7.276	-7.015	2.303	-2.221
83	1.054	1.134	1.217	7.310	-7.045	2.327	-2.242
84	1.021	1.099	1.179	7.344	-7.074	2.350	-2.264
85	0.989	1.065	1.143	7.378	-7.103	2.374	-2.286
86	0.958	1.032	1.108	7.411	-7.133	2.398	-2.308

87	0.928	1.000	1.074	7.445	-7.162	2.422	-2.329
88	0.900	0.969	1.042	7.478	-7.190	2.446	-2.351
89	0.872	0.940	1.011	7.511	-7.219	2.470	-2.374
90	0.845	0.912	0.980	7.544	-7.247	2.494	-2.396
91	0.820	0.884	0.951	7.577	-7.276	2.518	-2.418
92	0.795	0.858	0.923	7.610	-7.304	2.543	-2.440
93	0.771	0.832	0.896	7.642	-7.332	2.567	-2.463
94	0.748	0.808	0.870	7.674	-7.359	2.592	-2.485
95	0.726	0.784	0.844	7.706	-7.387	2.617	-2.508
96	0.705	0.761	0.820	7.738	-7.415	2.641	-2.531
97	0.684	0.739	0.796	7.770	-7.442	2.666	-2.554
98	0.664	0.717	0.773	7.802	-7.469	2.691	-2.577
99	0.645	0.697	0.751	7.833	-7.496	2.717	-2.600
100	0.626	0.677	0.730	7.865	-7.523	2.741	-2.622
101	0.608	0.658	0.710	7.896	-7.550	2.767	-2.646
102	0.590	0.639	0.690	7.927	-7.576	2.793	-2.669
103	0.574	0.621	0.670	7.958	-7.603	2.818	-2.692
104	0.557	0.604	0.652	7.988	-7.629	2.844	-2.716
105	0.542	0.587	0.634	8.019	-7.655	2.870	-2.739
106	0.527	0.570	0.616	8.049	-7.681	2.896	-2.763
107	0.512	0.555	0.600	8.079	-7.707	2.922	-2.787
108	0.498	0.539	0.583	8.109	-7.732	2.948	-2.811
109	0.484	0.525	0.567	8.139	-7.758	2.974	-2.834
110	0.471	0.510	0.552	8.169	-7.783	3.000	-2.858
111	0.458	0.497	0.537	8.199	-7.808	3.026	-2.882
112	0.445	0.483	0.523	8.228	-7.834	3.053	-2.907
113	0.433	0.470	0.509	8.258	-7.859	3.080	-2.931
114	0.422	0.458	0.496	8.287	-7.883	3.106	-2.955
115	0.410	0.446	0.483	8.316	-7.908	3.133	-2.979
116	0.400	0.434	0.470	8.345	-7.933	3.160	-3.004
117	0.389	0.423	0.458	8.373	-7.957	3.187	-3.029
118	0.379	0.412	0.446	8.402	-7.981	3.214	-3.053
119	0.369	0.401	0.435	8.431	-8.006	3.241	-3.078
120	0.359	0.391	0.424	8.459	-8.030	3.269	-3.103
121	0.350	0.381	0.413	8.487	-8.053	3.296	-3.128
122	0.341	0.371	0.402	8.515	-8.077	3.324	-3.153
123	0.332	0.361	0.392	8.543	-8.101	3.351	-3.178
124	0.324	0.352	0.382	8.571	-8.124	3.379	-3.203
125	0.315	0.343	0.373	8.598	-8.148	3.407	-3.228
126	0.307	0.335	0.364	8.626	-8.171	3.435	-3.254
127	0.300	0.326	0.355	8.653	-8.194	3.463	-3.279
128	0.292	0.318	0.346	8.681	-8.217	3.491	-3.304
129	0.285	0.310	0.337	8.708	-8.240	3.519	-3.330
130	0.278	0.303	0.329	8.735	-8.263	3.547	-3.356
131	0.271	0.295	0.321	8.762	-8.286	3.576	-3.382
132	0.264	0.288	0.314	8.789	-8.308	3.604	-3.407
133	0.258	0.281	0.306	8.815	-8.331	3.633	-3.433
134	0.251	0.274	0.299	8.842	-8.353	3.662	-3.459
135	0.245	0.268	0.292	8.868	-8.375	3.691	-3.485
136	0.239	0.261	0.285	8.894	-8.397	3.719	-3.512

137	0.234	0.255	0.278	8.921	-8.419	3.748	-3.538
138	0.228	0.249	0.272	8.947	-8.441	3.778	-3.564
139	0.223	0.243	0.265	8.973	-8.463	3.807	-3.591
140	0.217	0.238	0.259	8.998	-8.485	3.836	-3.617
141	0.212	0.232	0.253	9.024	-8.506	3.866	-3.644
142	0.207	0.227	0.247	9.050	-8.528	3.895	-3.670
143	0.202	0.221	0.242	9.075	-8.549	3.925	-3.697
144	0.198	0.216	0.236	9.100	-8.570	3.954	-3.724
145	0.193	0.211	0.231	9.126	-8.592	3.984	-3.751
146	0.189	0.207	0.225	9.151	-8.613	4.014	-3.778
147	0.184	0.202	0.220	9.176	-8.634	4.044	-3.805
148	0.180	0.197	0.215	9.201	-8.654	4.074	-3.832
149	0.176	0.193	0.211	9.226	-8.675	4.105	-3.860
150	0.172	0.189	0.206	9.250	-8.696	4.135	-3.887
151	0.168	0.184	0.201	9.275	-8.716	4.165	-3.914
152	0.164	0.180	0.197	9.299	-8.737	4.196	-3.942
153	0.161	0.176	0.193	9.324	-8.757	4.226	-3.970
154	0.157	0.172	0.188	9.348	-8.777	4.257	-3.997
155	0.154	0.169	0.184	9.372	-8.798	4.288	-4.025
156	0.150	0.165	0.180	9.396	-8.818	4.319	-4.053
157	0.147	0.161	0.177	9.420	-8.838	4.350	-4.081
158	0.144	0.158	0.173	9.444	-8.858	4.381	-4.109
159	0.141	0.154	0.169	9.468	-8.877	4.412	-4.137
160	0.138	0.151	0.165	9.492	-8.897	4.443	-4.165
161	0.135	0.148	0.162	9.515	-8.917	4.475	-4.193
162	0.132	0.145	0.159	9.539	-8.936	4.506	-4.222
163	0.129	0.142	0.155	9.562	-8.956	4.538	-4.250
164	0.126	0.139	0.152	9.585	-8.975	4.570	-4.279
165	0.123	0.136	0.149	9.609	-8.994	4.601	-4.307
166	0.121	0.133	0.146	9.632	-9.014	4.633	-4.336
167	0.118	0.130	0.143	9.655	-9.033	4.665	-4.365
168	0.116	0.127	0.140	9.678	-9.052	4.697	-4.393
169	0.113	0.125	0.137	9.701	-9.071	4.729	-4.422
170	0.111	0.122	0.134	9.723	-9.089	4.762	-4.451
171	0.109	0.120	0.131	9.746	-9.108	4.794	-4.480
172	0.107	0.117	0.129	9.768	-9.127	4.827	-4.510
173	0.104	0.115	0.126	9.791	-9.145	4.859	-4.539
174	0.102	0.113	0.124	9.813	-9.164	4.892	-4.568
175	0.100	0.110	0.121	9.836	-9.182	4.925	-4.597
176	0.098	0.108	0.119	9.858	-9.201	4.957	-4.627
177	0.096	0.106	0.116	9.880	-9.219	4.990	-4.657
178	0.094	0.104	0.114	9.902	-9.237	5.023	-4.686
179	0.092	0.102	0.112	9.924	-9.255	5.057	-4.716
180	0.090	0.100	0.110	9.946	-9.273	5.090	-4.746
181	0.089	0.098	0.108	9.967	-9.291	5.123	-4.776
182	0.087	0.096	0.105	9.989	-9.309	5.157	-4.806
183	0.085	0.094	0.103	10.010	-9.327	5.190	-4.836
184	0.083	0.092	0.101	10.030	-9.345	5.224	-4.866
185	0.082	0.090	0.099	10.050	-9.362	5.258	-4.896
186	0.080	0.089	0.098	10.070	-9.380	5.291	-4.926

187	0.079	0.087	0.096	10.090	-9.397	5.325	-4.957
188	0.077	0.085	0.094	10.110	-9.415	5.359	-4.987
189	0.076	0.084	0.092	10.130	-9.432	5.394	-5.018
190	0.074	0.082	0.090	10.150	-9.449	5.428	-5.048
191	0.073	0.080	0.089	10.180	-9.466	5.462	-5.079
192	0.071	0.079	0.087	10.200	-9.484	5.497	-5.110
193	0.070	0.077	0.085	10.220	-9.501	5.531	-5.141
194	0.069	0.076	0.084	10.240	-9.518	5.566	-5.172
195	0.067	0.075	0.082	10.260	-9.534	5.601	-5.203
196	0.066	0.073	0.081	10.280	-9.551	5.635	-5.234
197	0.065	0.072	0.079	10.300	-9.568	5.670	-5.265
198	0.064	0.071	0.078	10.320	-9.585	5.705	-5.297
199	0.063	0.069	0.076	10.340	-9.601	5.741	-5.328
200	0.061	0.068	0.075	10.360	-9.618	5.776	-5.360
201	0.060	0.067	0.074	10.380	-9.634	5.811	-5.391
202	0.059	0.066	0.072	10.400	-9.651	5.847	-5.423
203	0.058	0.064	0.071	10.420	-9.667	5.882	-5.454
204	0.057	0.063	0.070	10.440	-9.683	5.918	-5.486
205	0.056	0.062	0.069	10.460	-9.699	5.953	-5.518
206	0.055	0.061	0.067	10.480	-9.715	5.989	-5.550
207	0.054	0.060	0.066	10.500	-9.731	6.025	-5.582
208	0.053	0.059	0.065	10.520	-9.747	6.061	-5.614
209	0.052	0.058	0.064	10.540	-9.763	6.098	-5.647
210	0.051	0.057	0.063	10.560	-9.779	6.134	-5.679
211	0.050	0.056	0.062	10.580	-9.795	6.170	-5.711
212	0.049	0.055	0.061	10.600	-9.810	6.207	-5.744
213	0.049	0.054	0.060	10.620	-9.826	6.243	-5.777
214	0.048	0.053	0.059	10.630	-9.842	6.280	-5.809
215	0.047	0.052	0.058	10.650	-9.857	6.317	-5.842
216	0.046	0.051	0.057	10.670	-9.872	6.353	-5.875
217	0.045	0.050	0.056	10.690	-9.888	6.390	-5.908
218	0.044	0.049	0.055	10.710	-9.903	6.428	-5.941
219	0.044	0.049	0.054	10.730	-9.918	6.465	-5.974
220	0.043	0.048	0.053	10.750	-9.933	6.502	-6.007
221	0.042	0.047	0.052	10.770	-9.948	6.539	-6.041
222	0.042	0.046	0.051	10.780	-9.963	6.577	-6.074
223	0.041	0.045	0.050	10.800	-9.978	6.615	-6.108
224	0.040	0.045	0.050	10.820	-9.993	6.652	-6.141
225	0.040	0.044	0.049	10.840	-10.000	6.690	-6.175
226	0.039	0.043	0.048	10.860	-10.020	6.728	-6.209
227	0.038	0.043	0.047	10.870	-10.030	6.766	-6.242
228	0.038	0.042	0.046	10.890	-10.050	6.804	-6.276
229	0.037	0.041	0.046	10.910	-10.060	6.842	-6.310
230	0.036	0.041	0.045	10.930	-10.080	6.881	-6.345
231	0.036	0.040	0.044	10.950	-10.090	6.919	-6.379
232	0.035	0.039	0.044	10.960	-10.100	6.958	-6.413
233	0.035	0.039	0.043	10.980	-10.120	6.997	-6.448
234	0.034	0.038	0.042	11.000	-10.130	7.035	-6.482
235	0.034	0.037	0.042	11.010	-10.150	7.074	-6.517
236	0.033	0.037	0.041	11.030	-10.160	7.113	-6.551

237	0.033	0.036	0.040	11.050	-10.170	7.152	-6.586
238	0.032	0.036	0.040	11.070	-10.190	7.192	-6.621
239	0.032	0.035	0.039	11.080	-10.200	7.231	-6.656
240	0.031	0.035	0.039	11.100	-10.220	7.271	-6.691
241	0.031	0.034	0.038	11.120	-10.230	7.310	-6.726
242	0.030	0.034	0.037	11.130	-10.240	7.350	-6.762
243	0.030	0.033	0.037	11.150	-10.260	7.390	-6.797
244	0.029	0.033	0.036	11.170	-10.270	7.429	-6.832
245	0.029	0.032	0.036	11.180	-10.280	7.469	-6.868
246	0.028	0.032	0.035	11.200	-10.300	7.510	-6.904
247	0.028	0.031	0.035	11.220	-10.310	7.550	-6.939
248	0.027	0.031	0.034	11.230	-10.320	7.590	-6.975
249	0.027	0.030	0.034	11.250	-10.330	7.631	-7.011
250	0.027	0.030	0.033	11.260	-10.350	7.671	-7.047



附表:2

南京时恒电阻误差曲线图

