



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 MF58-103J 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: MF58-103J3950

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:

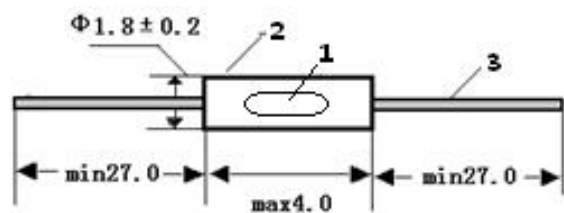
1. 电气性能

项目	符号	测试条件	单位	性能要求
1.1	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	$B_{25/50}$	$B = [(T_a \times T_b) / (T_b - T_a)] \times \ln(R_a/R_b)$ $T_b = 50^\circ\text{C} \pm 0.05^\circ\text{C}$	K	$3950 \pm 1\%$
1.3	δ	静止空气中	$\text{mW}/^\circ\text{C}$	≥ 2
1.4	τ	静止空气中	sec	≤ 20
1.5	/	1500V/AC 1min	/	无击穿或飞弧
1.6	/	500V/DC 1min	$\text{M}\Omega$	≥ 500
1.7	/	/	$^\circ\text{C}$	-55~250
1.8	P_{max}	/	mW	50
1.9	/	/	/	见附表 1
1.10	/	/	/	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 \pm 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	1	
2	外壳	玻璃	1	
3	导线	$\Phi 0.5 \pm 0.05$ 镀锡钢线	2	

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°C 的零功率电阻值 $10\text{K}\Omega$
- ③ H: 阻值精度代码 F $\pm 1\%$ G $\pm 2\%$ H $\pm 3\%$ J $\pm 5\%$
- 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°C , 焊接时间 $< 3\text{ses}$;
- 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: $\pm 1\%$ (F4-17)							
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	1265.200	1399.250	1543.630	10.310	-9.579	1.222	-1.134
-54	1062.120	1172.570	1291.280	10.120	-9.420	1.233	-1.148
-53	906.578	999.260	1098.660	9.947	-9.275	1.244	-1.160
-52	785.164	864.178	948.764	9.788	-9.143	1.253	-1.171
-51	688.729	757.035	830.035	9.642	-9.022	1.262	-1.180
-50	610.895	670.669	734.451	9.510	-8.912	1.269	-1.189
-49	547.135	600.002	656.332	9.388	-8.811	1.275	-1.197
-48	494.178	541.371	591.588	9.275	-8.717	1.281	-1.203
-47	449.623	492.090	537.223	9.171	-8.630	1.285	-1.209
-46	411.682	450.165	491.015	9.074	-8.548	1.289	-1.214
-45	379.009	414.092	451.291	8.983	-8.472	1.292	-1.218
-44	350.574	382.723	416.776	8.897	-8.400	1.294	-1.222
-43	325.584	355.176	386.489	8.816	-8.331	1.296	-1.225
-42	303.422	330.764	359.669	8.738	-8.266	1.297	-1.227
-41	283.602	308.947	335.717	8.664	-8.203	1.297	-1.228
-40	265.740	289.300	314.160	8.593	-8.143	1.298	-1.230
-39	249.531	271.480	294.622	8.524	-8.085	1.297	-1.230
-38	234.728	255.217	276.801	8.457	-8.028	1.297	-1.231
-37	221.132	240.290	260.455	8.391	-7.972	1.296	-1.231
-36	208.583	226.520	245.384	8.327	-7.918	1.294	-1.231
-35	196.948	213.761	231.428	8.265	-7.865	1.293	-1.230
-34	186.120	201.893	218.455	8.203	-7.812	1.291	-1.230
-33	176.010	190.818	206.355	8.142	-7.760	1.289	-1.229
-32	166.542	180.452	195.036	8.081	-7.708	1.287	-1.228
-31	157.654	170.728	184.424	8.022	-7.657	1.285	-1.227
-30	149.295	161.587	174.453	7.962	-7.606	1.283	-1.226
-29	141.419	152.979	165.070	7.903	-7.556	1.281	-1.224
-28	133.989	144.862	156.226	7.844	-7.505	1.278	-1.223
-27	126.972	137.201	147.884	7.786	-7.455	1.276	-1.222
-26	120.338	129.963	140.006	7.727	-7.405	1.273	-1.220
-25	114.064	123.120	132.562	7.669	-7.355	1.271	-1.219
-24	108.125	116.647	125.525	7.611	-7.305	1.268	-1.217
-23	102.503	110.522	118.870	7.553	-7.255	1.266	-1.216
-22	97.179	104.725	112.574	7.495	-7.205	1.263	-1.214
-21	92.136	99.237	106.618	7.437	-7.155	1.260	-1.212
-20	87.360	94.042	100.982	7.379	-7.105	1.258	-1.211
-19	82.835	89.123	95.649	7.322	-7.055	1.255	-1.209
-18	78.549	84.467	90.603	7.264	-7.005	1.252	-1.208
-17	74.490	80.059	85.829	7.207	-6.955	1.250	-1.206

-16	70.645	75.886	81.312	7.149	-6.905	1.247	-1.204
-15	67.005	71.937	77.039	7.092	-6.856	1.244	-1.203
-14	63.557	68.199	72.997	7.035	-6.806	1.242	-1.201
-13	60.293	64.662	69.175	6.978	-6.756	1.239	-1.200
-12	57.203	61.316	65.560	6.921	-6.707	1.236	-1.198
-11	54.278	58.150	62.142	6.864	-6.657	1.234	-1.197
-10	51.510	55.155	58.910	6.808	-6.608	1.231	-1.195
-9	48.889	52.321	55.854	6.752	-6.559	1.229	-1.193
-8	46.410	49.641	52.965	6.695	-6.510	1.226	-1.192
-7	44.063	47.107	50.235	6.640	-6.460	1.223	-1.190
-6	41.843	44.709	47.653	6.584	-6.412	1.221	-1.189
-5	39.741	42.442	45.213	6.528	-6.363	1.218	-1.187
-4	37.753	40.298	42.907	6.473	-6.314	1.215	-1.186
-3	35.872	38.270	40.726	6.418	-6.266	1.213	-1.184
-2	34.091	36.352	38.665	6.363	-6.218	1.210	-1.183
-1	32.406	34.537	36.717	6.309	-6.170	1.208	-1.181
0	30.393	32.371	34.391	6.240	-6.109	1.216	-1.191
1	29.303	31.198	33.133	6.201	-6.074	1.202	-1.178
2	27.874	29.662	31.485	6.147	-6.027	1.200	-1.176
3	26.522	28.208	29.928	6.094	-5.980	1.197	-1.175
4	25.241	26.833	28.454	6.041	-5.933	1.194	-1.173
5	24.029	25.531	27.060	5.988	-5.886	1.192	-1.171
6	22.880	24.299	25.742	5.936	-5.839	1.189	-1.170
7	21.792	23.133	24.494	5.884	-5.793	1.186	-1.168
8	20.762	22.028	23.313	5.832	-5.747	1.183	-1.166
9	19.785	20.982	22.195	5.781	-5.701	1.181	-1.164
10	18.768	19.893	21.031	5.724	-5.651	1.185	-1.170
11	17.983	19.052	20.133	5.679	-5.610	1.175	-1.161
12	17.151	18.162	19.184	5.628	-5.565	1.172	-1.159
13	16.362	17.318	18.284	5.578	-5.520	1.169	-1.157
14	15.614	16.518	17.431	5.528	-5.475	1.166	-1.155
15	14.904	15.760	16.623	5.478	-5.431	1.163	-1.153
16	14.230	15.040	15.857	5.429	-5.386	1.161	-1.151
17	13.590	14.357	15.130	5.380	-5.343	1.158	-1.149
18	12.983	13.710	14.441	5.331	-5.299	1.155	-1.147
19	12.406	13.095	13.786	5.283	-5.255	1.151	-1.145
20	11.858	12.511	13.166	5.235	-5.212	1.148	-1.143
21	11.338	11.956	12.576	5.187	-5.169	1.145	-1.141
22	10.843	11.429	12.016	5.140	-5.126	1.142	-1.139
23	10.372	10.928	11.485	5.093	-5.084	1.139	-1.137
24	9.925	10.452	10.980	5.046	-5.042	1.136	-1.135
25	9.500	10.000	10.500	5.000	-5.000	1.133	-1.133
26	9.087	9.569	10.052	5.046	-5.041	1.150	-1.149
27	8.694	9.160	9.626	5.092	-5.083	1.168	-1.166
28	8.320	8.770	9.221	5.137	-5.124	1.186	-1.183

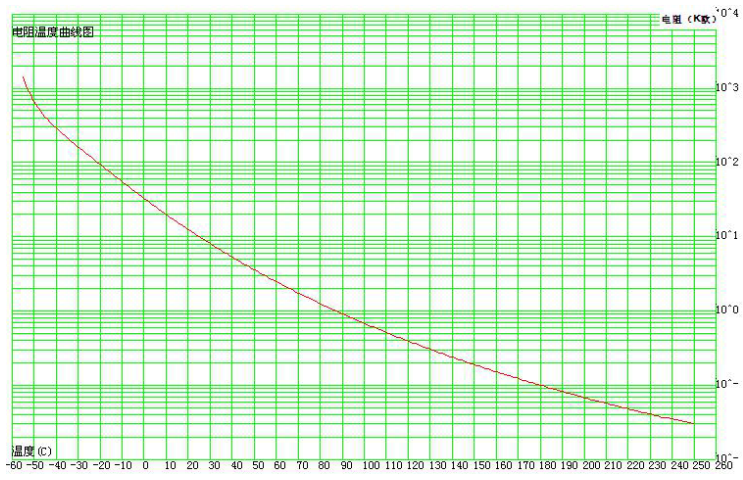
29	7.965	8.399	8.834	5.183	-5.165	1.204	-1.200
30	7.627	8.046	8.467	5.228	-5.206	1.222	-1.217
31	7.305	7.710	8.116	5.273	-5.246	1.241	-1.234
32	6.999	7.389	7.782	5.318	-5.286	1.259	-1.252
33	6.707	7.084	7.464	5.362	-5.326	1.278	-1.269
34	6.429	6.793	7.161	5.406	-5.366	1.296	-1.287
35	6.164	6.516	6.871	5.450	-5.405	1.315	-1.304
36	5.911	6.251	6.595	5.494	-5.445	1.334	-1.322
37	5.670	5.999	6.331	5.537	-5.484	1.353	-1.339
38	5.440	5.758	6.080	5.581	-5.522	1.372	-1.357
39	5.221	5.529	5.840	5.624	-5.561	1.391	-1.375
40	5.012	5.309	5.610	5.666	-5.599	1.410	-1.393
41	4.813	5.100	5.391	5.709	-5.637	1.429	-1.411
42	4.622	4.900	5.182	5.751	-5.675	1.449	-1.429
43	4.440	4.709	4.982	5.793	-5.712	1.468	-1.448
44	4.266	4.526	4.791	5.835	-5.749	1.488	-1.466
45	4.100	4.352	4.608	5.877	-5.786	1.507	-1.484
46	3.941	4.185	4.433	5.918	-5.823	1.527	-1.503
47	3.790	4.026	4.266	5.959	-5.860	1.547	-1.521
48	3.645	3.873	4.106	6.000	-5.896	1.567	-1.540
49	3.506	3.727	3.952	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	3.454	3.665	6.122	-6.004	1.628	-1.596
52	3.125	3.326	3.531	6.162	-6.039	1.648	-1.615
53	3.009	3.203	3.402	6.202	-6.075	1.668	-1.634
54	2.897	3.086	3.278	6.241	-6.110	1.689	-1.653
55	2.791	2.973	3.160	6.281	-6.145	1.710	-1.673
56	2.688	2.866	3.047	6.320	-6.179	1.730	-1.692
57	2.591	2.762	2.938	6.359	-6.214	1.751	-1.711
58	2.497	2.663	2.834	6.398	-6.248	1.772	-1.731
59	2.407	2.568	2.734	6.436	-6.282	1.793	-1.750
60	2.321	2.477	2.638	6.475	-6.316	1.815	-1.770
61	2.238	2.390	2.546	6.513	-6.349	1.836	-1.790
62	2.159	2.306	2.457	6.551	-6.383	1.857	-1.809
63	2.083	2.226	2.372	6.589	-6.416	1.879	-1.829
64	2.010	2.148	2.291	6.626	-6.449	1.900	-1.849
65	1.940	2.074	2.213	6.664	-6.482	1.922	-1.869
66	1.873	2.003	2.137	6.701	-6.515	1.944	-1.890
67	1.808	1.935	2.065	6.738	-6.547	1.966	-1.910
68	1.746	1.869	1.996	6.775	-6.579	1.988	-1.930
69	1.686	1.806	1.929	6.812	-6.611	2.010	-1.950
70	1.629	1.745	1.865	6.848	-6.643	2.032	-1.971
71	1.574	1.687	1.803	6.885	-6.675	2.054	-1.991
72	1.521	1.631	1.744	6.921	-6.706	2.076	-2.012
73	1.471	1.577	1.687	6.957	-6.738	2.099	-2.033

74	1.422	1.525	1.632	6.992	-6.769	2.121	-2.054
75	1.375	1.475	1.579	7.028	-6.800	2.144	-2.075
76	1.330	1.427	1.528	7.063	-6.831	2.167	-2.096
77	1.286	1.381	1.479	7.098	-6.861	2.190	-2.117
78	1.245	1.337	1.432	7.133	-6.892	2.213	-2.138
79	1.204	1.294	1.387	7.168	-6.922	2.236	-2.159
80	1.166	1.253	1.343	7.203	-6.952	2.259	-2.180
81	1.128	1.213	1.301	7.237	-6.982	2.282	-2.202
82	1.092	1.175	1.260	7.272	-7.012	2.306	-2.223
83	1.058	1.138	1.221	7.306	-7.041	2.329	-2.245
84	1.025	1.103	1.184	7.340	-7.071	2.353	-2.267
85	0.989	1.065	1.143	7.378	-7.103	2.374	-2.286
86	0.962	1.035	1.112	7.407	-7.129	2.400	-2.310
87	0.932	1.004	1.078	7.441	-7.158	2.424	-2.332
88	0.903	0.973	1.046	7.474	-7.187	2.448	-2.354
89	0.875	0.944	1.014	7.507	-7.215	2.472	-2.376
90	0.849	0.915	0.984	7.540	-7.244	2.497	-2.398
91	0.823	0.888	0.955	7.573	-7.272	2.521	-2.421
92	0.798	0.861	0.927	7.606	-7.300	2.545	-2.443
93	0.774	0.835	0.899	7.638	-7.328	2.570	-2.465
94	0.751	0.811	0.873	7.670	-7.356	2.594	-2.488
95	0.729	0.787	0.848	7.702	-7.384	2.619	-2.511
96	0.707	0.764	0.823	7.734	-7.411	2.644	-2.533
97	0.686	0.742	0.799	7.766	-7.438	2.669	-2.556
98	0.666	0.720	0.776	7.798	-7.466	2.694	-2.579
99	0.647	0.699	0.754	7.829	-7.493	2.719	-2.602
100	0.626	0.677	0.730	7.865	-7.523	2.741	-2.622
101	0.610	0.660	0.712	7.892	-7.546	2.769	-2.648
102	0.593	0.641	0.692	7.923	-7.573	2.795	-2.671
103	0.576	0.623	0.673	7.954	-7.599	2.820	-2.695
104	0.559	0.606	0.654	7.985	-7.626	2.846	-2.718
105	0.544	0.589	0.636	8.015	-7.652	2.872	-2.742
106	0.528	0.572	0.618	8.046	-7.678	2.898	-2.765
107	0.514	0.557	0.601	8.076	-7.704	2.924	-2.789
108	0.499	0.541	0.585	8.106	-7.729	2.950	-2.813
109	0.486	0.526	0.569	8.136	-7.755	2.976	-2.836
110	0.472	0.512	0.554	8.166	-7.780	3.002	-2.860
111	0.459	0.498	0.539	8.195	-7.806	3.028	-2.884
112	0.447	0.485	0.525	8.225	-7.831	3.055	-2.908
113	0.435	0.472	0.511	8.254	-7.856	3.081	-2.933
114	0.423	0.459	0.497	8.284	-7.881	3.108	-2.957
115	0.412	0.447	0.484	8.313	-7.906	3.135	-2.981
116	0.401	0.435	0.471	8.342	-7.930	3.162	-3.006
117	0.390	0.424	0.459	8.371	-7.955	3.189	-3.030
118	0.380	0.413	0.447	8.399	-7.979	3.216	-3.055

119	0.370	0.402	0.436	8.428	-8.003	3.243	-3.079
120	0.360	0.391	0.425	8.456	-8.027	3.270	-3.104
121	0.351	0.381	0.414	8.485	-8.051	3.297	-3.129
122	0.342	0.372	0.403	8.513	-8.075	3.325	-3.154
123	0.333	0.362	0.393	8.541	-8.099	3.352	-3.179
124	0.324	0.353	0.383	8.569	-8.123	3.380	-3.204
125	0.316	0.344	0.374	8.596	-8.146	3.408	-3.229
126	0.308	0.335	0.364	8.624	-8.169	3.436	-3.255
127	0.300	0.327	0.355	8.652	-8.193	3.464	-3.280
128	0.293	0.319	0.347	8.679	-8.216	3.492	-3.305
129	0.285	0.311	0.338	8.706	-8.239	3.520	-3.331
130	0.278	0.303	0.330	8.733	-8.262	3.548	-3.357
131	0.271	0.296	0.322	8.760	-8.284	3.577	-3.382
132	0.265	0.289	0.314	8.787	-8.307	3.605	-3.408
133	0.258	0.282	0.306	8.814	-8.330	3.634	-3.434
134	0.252	0.275	0.299	8.840	-8.352	3.662	-3.460
135	0.246	0.268	0.292	8.867	-8.374	3.691	-3.486
136	0.240	0.262	0.285	8.893	-8.396	3.720	-3.512
137	0.234	0.255	0.278	8.920	-8.419	3.749	-3.538
138	0.228	0.249	0.272	8.946	-8.441	3.778	-3.565
139	0.223	0.243	0.265	8.972	-8.462	3.807	-3.591
140	0.218	0.238	0.259	8.998	-8.484	3.837	-3.618
141	0.212	0.232	0.253	9.023	-8.506	3.866	-3.644
142	0.207	0.227	0.247	9.049	-8.527	3.895	-3.671
143	0.203	0.222	0.242	9.075	-8.549	3.925	-3.698
144	0.198	0.216	0.236	9.100	-8.570	3.955	-3.724
145	0.193	0.211	0.231	9.125	-8.591	3.984	-3.751
146	0.189	0.207	0.226	9.151	-8.612	4.014	-3.778
147	0.184	0.202	0.220	9.176	-8.633	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	9.300	-8.737	4.196	-3.942
153	0.161	0.176	0.193	9.324	-8.757	4.226	-3.969
154	0.157	0.172	0.188	9.348	-8.778	4.257	-3.997
155	0.154	0.169	0.184	9.373	-8.798	4.288	-4.025
156	0.150	0.165	0.180	9.397	-8.818	4.319	-4.053
157	0.147	0.161	0.176	9.421	-8.838	4.350	-4.081
158	0.144	0.158	0.173	9.445	-8.858	4.381	-4.109
159	0.141	0.154	0.169	9.468	-8.878	4.412	-4.137
160	0.138	0.151	0.165	9.492	-8.898	4.443	-4.165
161	0.135	0.148	0.162	9.516	-8.917	4.475	-4.193
162	0.132	0.145	0.158	9.539	-8.937	4.506	-4.221
163	0.129	0.142	0.155	9.563	-8.956	4.538	-4.250

164	0.126	0.139	0.152	9.586	-8.976	4.569	-4.278
165	0.123	0.136	0.149	9.609	-8.995	4.601	-4.307
166	0.121	0.133	0.146	9.632	-9.014	4.633	-4.335
167	0.118	0.130	0.143	9.655	-9.033	4.665	-4.364
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	9.724	-9.090	4.761	-4.451
171	0.109	0.120	0.131	9.747	-9.109	4.794	-4.480
172	0.106	0.117	0.129	9.769	-9.127	4.826	-4.509
173	0.104	0.115	0.126	9.792	-9.146	4.859	-4.538
174	0.102	0.112	0.124	9.814	-9.165	4.891	-4.568
175	0.100	0.110	0.121	9.836	-9.183	4.924	-4.597
176	0.098	0.108	0.119	9.859	-9.201	4.957	-4.627
177	0.096	0.106	0.116	9.881	-9.220	4.990	-4.656
178	0.094	0.104	0.114	9.903	-9.238	5.023	-4.686
179	0.092	0.102	0.112	9.925	-9.256	5.056	-4.716
180	0.090	0.100	0.110	9.946	-9.274	5.090	-4.745
181	0.089	0.098	0.107	9.968	-9.292	5.123	-4.775
182	0.087	0.096	0.105	9.990	-9.310	5.156	-4.805
183	0.085	0.094	0.103	10.010	-9.327	5.190	-4.835
184	0.083	0.092	0.101	10.030	-9.345	5.224	-4.866
185	0.082	0.090	0.099	10.050	-9.363	5.257	-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	-9.398	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	5.393	-5.018
190	0.074	0.082	0.090	10.160	-9.450	5.428	-5.048
191	0.073	0.080	0.089	10.180	-9.467	5.462	-5.079
192	0.071	0.079	0.087	10.200	-9.484	5.496	-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	-9.535	5.600	-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	-5.455
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	5.954	-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	6.062	-5.615

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	-9.794	6.170	-5.712
212	0.049	0.055	0.061	10.600	-9.810	6.207	-5.744
213	0.049	0.054	0.060	10.610	-9.826	6.243	-5.777
214	0.048	0.053	0.059	10.630	-9.841	6.280	-5.810
215	0.047	0.052	0.058	10.650	-9.856	6.317	-5.842
216	0.046	0.051	0.057	10.670	-9.872	6.354	-5.875
217	0.045	0.050	0.056	10.690	-9.887	6.391	-5.908
218	0.045	0.049	0.055	10.710	-9.902	6.428	-5.941
219	0.044	0.049	0.054	10.730	-9.917	6.465	-5.975
220	0.043	0.048	0.053	10.750	-9.932	6.502	-6.008
221	0.042	0.047	0.052	10.760	-9.947	6.540	-6.041
222	0.042	0.046	0.051	10.780	-9.962	6.577	-6.075
223	0.041	0.045	0.050	10.800	-9.977	6.615	-6.108
224	0.040	0.045	0.050	10.820	-9.992	6.653	-6.142
225	0.040	0.044	0.049	10.840	-10.000	6.691	-6.175
226	0.039	0.043	0.048	10.860	-10.020	6.729	-6.209
227	0.038	0.043	0.047	10.870	-10.030	6.767	-6.243
228	0.038	0.042	0.047	10.890	-10.050	6.805	-6.277
229	0.037	0.041	0.046	10.910	-10.060	6.843	-6.311
230	0.036	0.041	0.045	10.930	-10.070	6.881	-6.345
231	0.036	0.040	0.044	10.940	-10.090	6.920	-6.379
232	0.035	0.039	0.044	10.960	-10.100	6.958	-6.414
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	7.036	-6.483
235	0.034	0.037	0.042	11.010	-10.150	7.075	-6.517
236	0.033	0.037	0.041	11.030	-10.160	7.114	-6.552
237	0.033	0.036	0.040	11.050	-10.170	7.153	-6.587
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	-10.210	7.271	-6.692
241	0.031	0.034	0.038	11.120	-10.230	7.310	-6.727
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	7.430	-6.833
245	0.029	0.032	0.036	11.180	-10.280	7.470	-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	-6.940
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

