



南京时恒电子科技有限公司
Nanjing Shiheng Electronics Co.,Ltd.
规格承认书

APPROVAL SHEET

客户名称 CUSTOMER :

产品名称 PART NAME :

产品规格 PART NUMBER :

产品编号 PRODUCTCODE:

版次 REV.NO:

日期 DATE:

MF58 玻壳型 NTC 热敏电阻器
MF58 Glass shell NTC Thermistor

MF58- 503J3950

B0

2023-6-6

确认
CONFIRM

客户 CLIENT		供货商/制造商 MANUFACTOR	
品保部 Quality Dep.		规格书制作 Design	吴雨
制造部 Production Dep.		业务部审核 Checked by sales	
工程部 Engineering Dep.		技术部审核 Checked by R&D	程鹏
		品质部审核 Checked by QA	李少媛

南京时恒电子科技有限公司

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变 更 记 录 表

REVISED RECORD SHEET

[illegible]

1、产品型号说明 Product model specification

MF58 503 J 3950

① ② ③ ④

- ① MF58: 玻壳型 NTC 热敏电阻器系列 (Series Glass shell NTC Thermistor)
- ② 503: 25℃ 的零功率电阻值 50KΩ (Zero Power Resistance at 25℃ is 50KΩ)
- ③ J: 阻值精度代码 F-±1% G-±2% H-±3% J-±5% (Resistance precision code F-±1% G-±2% H-±3% J-±5%)
- ④ 3950: B25/50 值 3950K (B25/50:3950K)

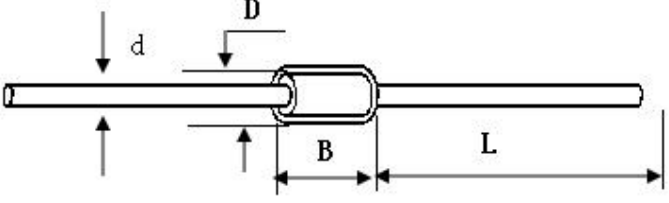
2、电气性能 Electrical Characteristics

No.	项目 Item	符号 Symbol	测试条件 Test conditions	单位 Unit	性能要求 Requirements
2.1	25℃ 的零功率电阻值 Zero Power Resistance at 25℃	$R_{25^{\circ}\text{C}}$	$T_a=25\pm0.01^{\circ}\text{C}$ Test Power $\leq 0.1\text{mW}$	KΩ	$50\text{K}\Omega\pm 5\%$
2.2	B 值 B-value	$B_{25/50}$	$B=[(T_a\times T_b)/(T_b-T_a)]\times \ln(R_a/R_b)$ $T_a=25\pm0.01^{\circ}\text{C}$ $T_b=50^{\circ}\text{C}\pm 0.01^{\circ}\text{C}$	K	$3950\pm 1\%$
2.3	耗散系数 Thermal dissipation Coefficient	δ	静止空气中 In still air	mW/ ℃	≥ 2
2.4	时间常数 Thermal time constant	τ	静止空气中 In still air	sec	≤ 20
2.5	耐电压 withstand voltage	/	1500V/AC 1min	/	无击穿或飞弧 No breakthrough and flash over
2.6	绝缘电阻 Insulation resistance	/	500V/DC 1min	MΩ	≥ 500
2.7	工作温度范围 Operating temperature range	/	/	℃	$-40^{\circ}\text{C}\sim 250^{\circ}\text{C}$
2.8	最大额定功率 Maximum rated power	Pmax	/	mW	50
2.9	阻温特性 R&T-table	/	/	/	见附表 I See attached table I
2.10	阻值误差&B 值误差 Resistance tolerance& B-value tolerance	/	/	/	见附表 II See attached table II

3、产品图纸 Product drawing

 产品图纸 Product drawing		客户 确认 Customer confirm	客户名称 Customer:			
			确认 Confirm		日期 DATE	
产品型号 MODEL NO.	MF58-503J3950		审核 Approve:		日期 DATE	

尺寸 Dimensions: (Unit: mm)



$D \pm 0.2$	$B \pm 0.3$	$L \pm 1.0$	$d \pm 0.05$
1.8	3.7	28	0.5

技术要求 Technical requirements:

- 1) 零功率阻值: R25: $50K\Omega \pm 5\%$ (Zero Power Resistance: R25: $50K\Omega \pm 5\%$);
- 2) B25/50 数值: $3950K \pm 1\%$ (B-value: B25/50: $3950K \pm 1\%$);
- 3) 引线: $\Phi 0.5$ 镀锡铜包钢线 ($\Phi 0.5$ tinned copper-weld steel wire);
- 4) 封装: 玻壳封装 (Glass shell package);
- 5) 符合 RoHS 环保要求 (Meet environmental protection requirements: RoHS)。

更新履历 Revised record sheet				
版本 REV. NO	更新时间 REV. DATE	更新内容 Change content	申请人 Applicant	批准人 Approved
A0	2015/10/11	版本制定。 Version formulation	吴仪	李少媛
B0	2022/4/1	更新规格书版本格式, 增加版次管控 Update for version form of datasheet, add to management and control for number of edition	吴仪	李少媛

4、可靠性 Reliability

No.	项目 Item	试验标准	试验条件及方法 Test conditions and methods	性能要求 Requirements
4.1	引出端强度 Terminal strength	IEC60068-2-21	固定电阻端, 拉力: 10 ± 1 N, 时间: 10 ± 1 秒 Fixed resistor end, Pull strength: 10 ± 1 N, time: 10 ± 1 sec	无可见性损伤 No obvious damage $R_{25} \Delta R/R \leq \pm 2\%$
4.2	可焊性 Solderability	IEC60068-2-20	温度 $245 \pm 5^\circ\text{C}$ 时间 2-3 秒 temperature : $245 \pm 5^\circ\text{C}$ for 2-3sec	着锡面积 $\geq 95\%$ Coverage area $\geq 95\%$.
4.3	耐焊接热 Withstand weiling temp	IEC60068-2-20	锡锅温度: $260 \pm 5^\circ\text{C}$, 浸入深度距电阻体 6mm, 时间 5 ± 1 秒 Temperature of tin pot: $260 \pm 5^\circ\text{C}$, insert depth from body of resistance 6mm, time 5 ± 1 seconds	$R_{25} \Delta R/R \leq \pm 2\%$
4.4	稳态湿热 Steady humidity and heat	IEC60068-2-78	温度: $40^\circ\text{C} \pm 2^\circ\text{C}$, 湿度: $93 \pm 2\%$, 时间: 500 小时 Temp: $40^\circ\text{C} \pm 2^\circ\text{C}$, humidity: $93 \pm 2\%$, Time : 500hrs	$R_{25} \Delta R/R \leq \pm 2\%$
4.5	温度快速变化 Rapid changes in temperature	IEC60068-2-14	-40°C 30min $\rightarrow$ 25°C 5min $\rightarrow$ 250°C 30min $\rightarrow$ 25°C 5min, 5cycles	$R_{25} \Delta R/R \leq \pm 2\%$
4.6	高温储存 High temperature storage	IEC60068-2-2	温度: $250^\circ\text{C} \pm 5^\circ\text{C}$ 时间: 1000 小时 Temp : $250^\circ\text{C} \pm 5^\circ\text{C}$, Time : 1000hrs	$R_{25} \Delta R/R \leq \pm 2\%$
4.7	低温储存 Low temperature storage	IEC60068-2-1	温度: -40°C 时间: 1000 小时 Temp : -40°C , Time : 1000hrs	$R_{25} \Delta R/R \leq \pm 2\%$

▲注: 1) 稳态湿热及温度快速变化试验结束后, 样品需在常温环境下静置 2 小时后再做性能测试;

▲Note: 1) After the test of steady-state humid heat and rapid temperature change, the sample should be kept for 2 hours at room temperature before performance test ;

2) 高温存储及低温存储结束后, 需随测试环境自然恢复至常温, 再取出做性能测试。

2) After the test of high - and low-temperature storage is complete, and then take it out for performance test when the test environment naturally regain to normal temperature.

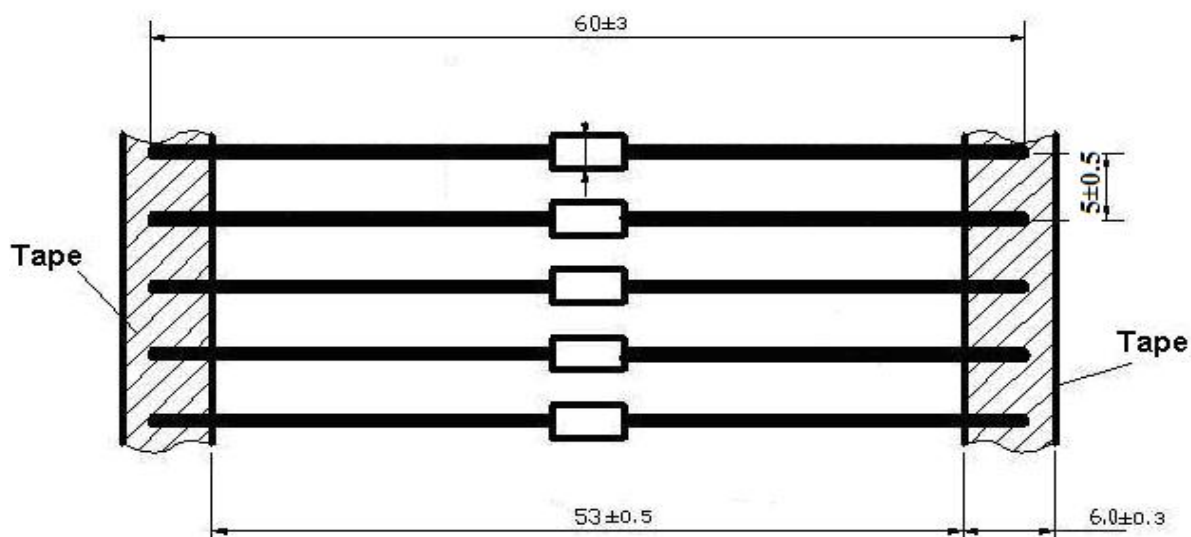
5、产品包装 Product packaging

5.1 包装方式 Packing Type

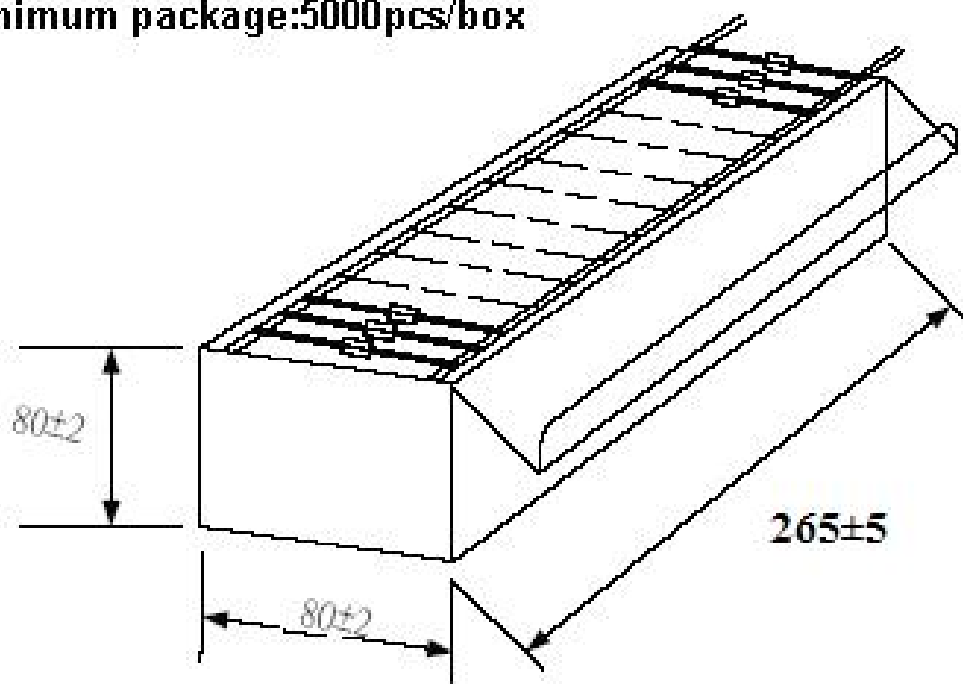
☒ 散装方式 Bulk Type ☐ 编带方式 Reel Type

5.2 包装规格 Packing specification

No.	包装规格 Packing specification	包装材料、尺寸 Packing material, size	产品数量 Quantity
1	包装袋 Packing bag	自封口袋(self sealing bag) $W \times H = 125\text{mm} \times 90\text{mm}$	
2	编带包装盒 Reel Packing box	265mm*80mm*75mm	



minimum package:5000pcs/box



编带方式 Reel Type

6、安装&使用注意事项 Installation & Use precautions

6.1 本产品的用途：温度测量与控制；application:test and control for temperature

6.2 避免过大的电流引起元件自身发热而产生测量误差；

To avoid of testing tolerance caused by huge current upon the self-heat of component.

6.3 烙铁焊接时，焊接处距包封头部距离至少 2mm，焊接温度应低于 360℃，焊接时间<3ses；

When welded by soldering iron,weld spot should be 2mm at least from head,weld temperature should be under 360℃,time<3ses

6.4 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；

In case of lead bending,the dot of bending should be above 2mm from glass shell to avoid of damaging for glass shell.

6.5 储存温度：-10℃ ~ 40℃；储存湿度：≤75% RH；

storage temp:-10℃ ~ 40℃；storage humidity:≤75% RH

6.6 避免存放在具有腐蚀性气体及光照的环境下；To avoid of leaving with such environment as corrosive gases and illumination

6.6 包装打开后需重新密封保存，贮存期 1 年，超过贮存期，可按本标准规定的项目重新检验，如符合要求仍可使用；

The packing need to be resealed since opened,storage period 1 year.once valid,it should be retest according to regulated of criterion and can be still used if meet the requirement.

6.7 如在加工过程中需使用热缩管，热缩管热缩时不可使用电吹风进行吹制，建议热缩工艺，将套好热缩管后的产品放入恒温烘箱中，按 110℃/10-12min 进行热缩；

In case of useing heat-shrink tube,hair drier is prohibited.we suggest that put the product with heat shrink into constant-temperature box and heat shrink under 110℃/10-12min

7、产品认证 Product certification

No.	项目 Projects	产品认证 Product certification
8.1	质量管理体系认证 Quality Management System Certification	ISO9001:2015
		IATF16949: 2016
8.2	环境管理体系认证 Environmental Management System Certification	ISO14001:2015
8.3	环保检测报告 Environmental test report	RoHS 2.0
8.4	CQC 认证 (CQC09001033986) CQC certificate (CQC09001033986)	
8.5	UL 认证 (E240991) UL certificate (E240991)	
8.6	TUV 认证 (R50245892) UL certificate (R50245892)	
8.7	江苏省高新技术产品认证 High-tech product certificate in Jiangsu Province	
8.8		

附表 I (Attachment I)

南京时恒电子科技有限公司

R25=50K Ω 精度: $\pm 5\%$ B25/50=3950K 精度: $\pm 1\%$ (P214-9)

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	3451.47	3807	4162.52	9.338	-9.338	1.261	-1.261
-54	3135.19	3454.42	3773.65	9.241	-9.241	1.266	-1.266
-53	2877.02	3166.92	3456.82	9.153	-9.153	1.27	-1.27
-52	2661.76	2927.42	3193.09	9.075	-9.075	1.273	-1.273
-51	2478.44	2723.64	2968.85	9.002	-9.002	1.275	-1.275
-50	2319.12	2546.68	2774.23	8.935	-8.935	1.276	-1.276
-49	2177.98	2390.02	2602.05	8.871	-8.871	1.276	-1.276
-48	2050.76	2248.91	2447.05	8.81	-8.81	1.276	-1.276
-47	1934.36	2119.88	2305.4	8.751	-8.751	1.275	-1.275
-46	1826.53	2000.43	2174.34	8.693	-8.693	1.274	-1.274
-45	1725.65	1888.75	2051.86	8.635	-8.635	1.273	-1.273
-44	1630.58	1783.58	1936.58	8.578	-8.578	1.272	-1.272
-43	1540.53	1684.02	1827.51	8.52	-8.52	1.271	-1.271
-42	1454.96	1589.48	1723.99	8.462	-8.462	1.27	-1.27
-41	1373.53	1499.56	1625.59	8.404	-8.404	1.269	-1.269
-40	1295.99	1414	1532	8.345	-8.345	1.269	-1.269
-39	1222.19	1332.61	1443.04	8.286	-8.286	1.268	-1.268
-38	1152.03	1255.29	1358.56	8.226	-8.226	1.268	-1.268
-37	1085.42	1181.94	1278.45	8.165	-8.165	1.267	-1.267
-36	1022.3	1112.46	1202.63	8.105	-8.105	1.267	-1.267
-35	962.586	1046.79	1130.99	8.044	-8.044	1.267	-1.267
-34	906.2	984.819	1063.43	7.983	-7.983	1.267	-1.267
-33	853.048	926.44	999.831	7.921	-7.921	1.267	-1.267
-32	803.029	871.537	940.046	7.86	-7.86	1.267	-1.267



-31	756.024	819.979	883.934	7.799	-7.799	1.268	-1.268
-30	711.91	771.623	831.337	7.738	-7.738	1.268	-1.268
-29	670.553	726.321	782.088	7.678	-7.678	1.268	-1.268
-28	631.816	683.915	736.015	7.617	-7.617	1.269	-1.269
-27	595.557	644.249	692.941	7.557	-7.557	1.269	-1.269
-26	561.634	607.163	652.691	7.498	-7.498	1.269	-1.269
-25	529.907	572.5	615.092	7.439	-7.439	1.269	-1.269
-24	500.238	540.105	579.972	7.381	-7.381	1.27	-1.27
-23	472.492	509.83	547.168	7.323	-7.323	1.27	-1.27
-22	446.541	481.531	516.521	7.266	-7.266	1.27	-1.27
-21	422.26	455.07	487.88	7.209	-7.209	1.27	-1.27
-20	399.534	430.318	461.103	7.153	-7.153	1.269	-1.269
-19	378.251	407.153	436.054	7.098	-7.098	1.269	-1.269
-18	358.309	385.459	412.609	7.043	-7.043	1.269	-1.269
-17	339.609	365.129	390.649	6.989	-6.989	1.268	-1.268
-16	322.061	346.063	370.065	6.935	-6.935	1.267	-1.267
-15	305.583	328.169	350.755	6.882	-6.882	1.266	-1.266
-14	290.095	311.361	332.627	6.829	-6.829	1.265	-1.265
-13	275.528	295.56	315.592	6.777	-6.777	1.264	-1.264
-12	261.814	280.693	299.573	6.726	-6.726	1.263	-1.263
-11	248.892	266.694	284.495	6.674	-6.674	1.262	-1.262
-10	236.707	253.5	270.292	6.624	-6.624	1.26	-1.26
-9	225.208	241.054	256.901	6.573	-6.573	1.258	-1.258
-8	214.348	229.307	244.266	6.523	-6.523	1.257	-1.257
-7	204.082	218.209	232.336	6.474	-6.474	1.255	-1.255
-6	194.372	207.717	221.062	6.424	-6.424	1.253	-1.253
-5	185.18	197.791	210.401	6.375	-6.375	1.25	-1.25
-4	176.475	188.394	200.314	6.326	-6.326	1.248	-1.248
-3	168.224	179.493	190.763	6.278	-6.278	1.246	-1.246





-2	160.399	171.057	181.714	6.23	-6.23	1.243	-1.243
-1	152.975	163.056	173.137	6.182	-6.182	1.241	-1.241
0	145.928	155.466	165.003	6.134	-6.134	1.238	-1.238
1	139.235	148.26	157.285	6.087	-6.087	1.235	-1.235
2	132.876	141.418	149.959	6.039	-6.039	1.233	-1.233
3	126.832	134.918	143.003	5.992	-5.992	1.23	-1.23
4	121.085	128.74	136.395	5.946	-5.946	1.227	-1.227
5	115.62	122.868	130.116	5.899	-5.899	1.224	-1.224
6	110.42	117.284	124.149	5.852	-5.852	1.221	-1.221
7	105.471	111.973	118.475	5.806	-5.806	1.218	-1.218
8	100.761	106.92	113.079	5.76	-5.76	1.214	-1.214
9	96.277	102.112	107.947	5.714	-5.714	1.211	-1.211
10	91.788	97.302	102.815	5.665	-5.665	1.212	-1.212
11	87.941	93.18	98.419	5.622	-5.622	1.205	-1.205
12	84.067	89.033	93.998	5.577	-5.577	1.201	-1.201
13	80.377	85.083	89.79	5.531	-5.531	1.198	-1.198
14	76.861	81.322	85.784	5.486	-5.486	1.194	-1.194
15	73.51	77.74	81.97	5.441	-5.441	1.191	-1.191
16	70.316	74.328	78.339	5.396	-5.396	1.188	-1.188
17	67.273	71.076	74.88	5.351	-5.351	1.184	-1.184
18	64.371	67.979	71.586	5.307	-5.307	1.181	-1.181
19	61.605	65.027	68.449	5.262	-5.262	1.177	-1.177
20	58.967	62.213	65.46	5.218	-5.218	1.173	-1.173
21	56.451	59.532	62.612	5.174	-5.174	1.17	-1.17
22	54.053	56.976	59.899	5.13	-5.13	1.166	-1.166
23	51.765	54.539	57.313	5.086	-5.086	1.162	-1.162
24	49.582	52.215	54.849	5.043	-5.043	1.159	-1.159
25	47.5	50	52.5	5	-5	1.156	-1.156
26	45.471	47.886	50.301	5.043	-5.043	1.171	-1.171





27	43.537	45.871	48.204	5.086	-5.086	1.188	-1.188
28	41.694	43.948	46.202	5.129	-5.129	1.204	-1.204
29	39.935	42.113	44.291	5.171	-5.171	1.221	-1.221
30	38.258	40.362	42.467	5.214	-5.214	1.238	-1.238
31	36.658	38.691	40.725	5.256	-5.256	1.254	-1.254
32	35.131	37.096	39.062	5.298	-5.298	1.271	-1.271
33	33.674	35.574	37.474	5.34	-5.34	1.288	-1.288
34	32.284	34.12	35.956	5.382	-5.382	1.305	-1.305
35	30.956	32.732	34.507	5.423	-5.423	1.323	-1.323
36	29.689	31.405	33.122	5.465	-5.465	1.34	-1.34
37	28.479	30.139	31.798	5.506	-5.506	1.357	-1.357
38	27.323	28.928	30.533	5.547	-5.547	1.375	-1.375
39	26.219	27.771	29.323	5.588	-5.588	1.392	-1.392
40	25.165	26.666	28.167	5.628	-5.628	1.41	-1.41
41	24.157	25.609	27.061	5.669	-5.669	1.428	-1.428
42	23.194	24.598	26.003	5.709	-5.709	1.446	-1.446
43	22.273	23.632	24.991	5.749	-5.749	1.464	-1.464
44	21.393	22.707	24.022	5.789	-5.789	1.482	-1.482
45	20.551	21.823	23.095	5.829	-5.829	1.5	-1.5
46	19.746	20.977	22.208	5.868	-5.868	1.518	-1.518
47	18.976	20.167	21.359	5.908	-5.908	1.537	-1.537
48	18.239	19.392	20.545	5.947	-5.947	1.555	-1.555
49	17.534	18.65	19.767	5.986	-5.986	1.574	-1.574
50	16.859	17.94	19.02	6.025	-6.025	1.592	-1.592
51	16.212	17.259	18.306	6.063	-6.063	1.611	-1.611
52	15.594	16.607	17.621	6.102	-6.102	1.63	-1.63
53	15.001	15.983	16.964	6.14	-6.14	1.649	-1.649
54	14.434	15.385	16.335	6.179	-6.179	1.668	-1.668
55	13.89	14.811	15.732	6.217	-6.217	1.687	-1.687





56	13.369	14.262	15.154	6.254	-6.254	1.706	-1.706
57	12.87	13.735	14.599	6.292	-6.292	1.725	-1.725
58	12.392	13.229	14.067	6.33	-6.33	1.745	-1.745
59	11.933	12.745	13.557	6.367	-6.367	1.764	-1.764
60	11.494	12.28	13.067	6.404	-6.404	1.784	-1.784
61	11.072	11.835	12.597	6.441	-6.441	1.803	-1.803
62	10.668	11.407	12.146	6.478	-6.478	1.823	-1.823
63	10.28	10.997	11.713	6.515	-6.515	1.843	-1.843
64	9.908	10.603	11.297	6.551	-6.551	1.863	-1.863
65	9.551	10.225	10.898	6.587	-6.587	1.883	-1.883
66	9.208	9.862	10.515	6.624	-6.624	1.903	-1.903
67	8.88	9.513	10.147	6.66	-6.66	1.923	-1.923
68	8.564	9.179	9.793	6.695	-6.695	1.943	-1.943
69	8.261	8.857	9.454	6.731	-6.731	1.963	-1.963
70	7.97	8.549	9.127	6.767	-6.767	1.984	-1.984
71	7.691	8.252	8.813	6.802	-6.802	2.004	-2.004
72	7.422	7.967	8.512	6.837	-6.837	2.025	-2.025
73	7.164	7.693	8.222	6.872	-6.872	2.046	-2.046
74	6.917	7.43	7.943	6.907	-6.907	2.067	-2.067
75	6.679	7.177	7.675	6.942	-6.942	2.088	-2.088
76	6.45	6.934	7.418	6.976	-6.976	2.109	-2.109
77	6.23	6.7	7.17	7.01	-7.01	2.13	-2.13
78	6.019	6.475	6.931	7.045	-7.045	2.151	-2.151
79	5.816	6.259	6.702	7.079	-7.079	2.172	-2.172
80	5.62	6.051	6.481	7.113	-7.113	2.194	-2.194
81	5.432	5.851	6.269	7.146	-7.146	2.215	-2.215
82	5.252	5.658	6.064	7.18	-7.18	2.237	-2.237
83	5.078	5.473	5.867	7.213	-7.213	2.259	-2.259
84	4.911	5.294	5.678	7.246	-7.246	2.281	-2.281





85	4.75	5.123	5.495	7.279	-7.279	2.302	-2.302
86	4.595	4.957	5.32	7.312	-7.312	2.325	-2.325
87	4.446	4.798	5.15	7.345	-7.345	2.347	-2.347
88	4.302	4.645	4.987	7.377	-7.377	2.369	-2.369
89	4.164	4.497	4.83	7.41	-7.41	2.391	-2.391
90	4.031	4.355	4.679	7.442	-7.442	2.414	-2.414
91	3.903	4.218	4.533	7.474	-7.474	2.436	-2.436
92	3.779	4.086	4.393	7.506	-7.506	2.459	-2.459
93	3.66	3.959	4.257	7.537	-7.537	2.482	-2.482
94	3.545	3.836	4.126	7.569	-7.569	2.505	-2.505
95	3.435	3.718	4	7.6	-7.6	2.527	-2.527
96	3.329	3.604	3.879	7.631	-7.631	2.551	-2.551
97	3.226	3.494	3.761	7.663	-7.663	2.574	-2.574
98	3.127	3.388	3.648	7.693	-7.693	2.597	-2.597
99	3.031	3.285	3.539	7.724	-7.724	2.62	-2.62
100	2.939	3.187	3.434	7.755	-7.755	2.644	-2.644
101	2.851	3.091	3.332	7.785	-7.785	2.667	-2.667
102	2.765	2.999	3.234	7.815	-7.815	2.691	-2.691
103	2.682	2.91	3.139	7.845	-7.845	2.715	-2.715
104	2.602	2.825	3.047	7.875	-7.875	2.739	-2.739
105	2.525	2.742	2.959	7.905	-7.905	2.763	-2.763
106	2.451	2.662	2.873	7.935	-7.935	2.787	-2.787
107	2.379	2.585	2.791	7.964	-7.964	2.811	-2.811
108	2.31	2.51	2.711	7.994	-7.994	2.835	-2.835
109	2.242	2.438	2.634	8.023	-8.023	2.859	-2.859
110	2.178	2.368	2.559	8.052	-8.052	2.884	-2.884
111	2.115	2.301	2.487	8.081	-8.081	2.908	-2.908
112	2.054	2.236	2.417	8.11	-8.11	2.933	-2.933
113	1.996	2.173	2.35	8.138	-8.138	2.958	-2.958





114	1.939	2.112	2.284	8.167	-8.167	2.982	-2.982
115	1.885	2.053	2.221	8.195	-8.195	3.007	-3.007
116	1.832	1.996	2.16	8.223	-8.223	3.032	-3.032
117	1.781	1.941	2.101	8.251	-8.251	3.057	-3.057
118	1.731	1.887	2.044	8.279	-8.279	3.083	-3.083
119	1.683	1.836	1.988	8.307	-8.307	3.108	-3.108
120	1.637	1.785	1.934	8.335	-8.335	3.133	-3.133
121	1.592	1.737	1.882	8.363	-8.363	3.159	-3.159
122	1.548	1.69	1.832	8.39	-8.39	3.184	-3.184
123	1.506	1.644	1.783	8.417	-8.417	3.21	-3.21
124	1.465	1.6	1.735	8.445	-8.445	3.236	-3.236
125	1.426	1.558	1.689	8.472	-8.472	3.261	-3.261
126	1.387	1.516	1.645	8.499	-8.499	3.287	-3.287
127	1.35	1.476	1.602	8.526	-8.526	3.313	-3.313
128	1.314	1.437	1.56	8.553	-8.553	3.339	-3.339
129	1.279	1.399	1.519	8.579	-8.579	3.365	-3.365
130	1.245	1.363	1.48	8.606	-8.606	3.392	-3.392
131	1.212	1.327	1.442	8.632	-8.632	3.418	-3.418
132	1.181	1.292	1.404	8.659	-8.659	3.444	-3.444
133	1.15	1.259	1.368	8.685	-8.685	3.471	-3.471
134	1.12	1.227	1.333	8.711	-8.711	3.497	-3.497
135	1.091	1.195	1.299	8.737	-8.737	3.524	-3.524
136	1.062	1.164	1.266	8.763	-8.763	3.55	-3.55
137	1.035	1.135	1.234	8.789	-8.789	3.577	-3.577
138	1.008	1.106	1.203	8.815	-8.815	3.604	-3.604
139	0.982	1.078	1.173	8.841	-8.841	3.631	-3.631
140	0.957	1.051	1.144	8.866	-8.866	3.658	-3.658
141	0.933	1.024	1.115	8.892	-8.892	3.685	-3.685
142	0.909	0.999	1.088	8.917	-8.917	3.712	-3.712





143	0.886	0.974	1.061	8.943	-8.943	3.74	-3.74
144	0.864	0.949	1.034	8.968	-8.968	3.767	-3.767
145	0.842	0.926	1.009	8.993	-8.993	3.794	-3.794
146	0.821	0.903	0.984	9.018	-9.018	3.822	-3.822
147	0.801	0.881	0.96	9.043	-9.043	3.849	-3.849
148	0.781	0.859	0.937	9.068	-9.068	3.877	-3.877
149	0.762	0.838	0.914	9.093	-9.093	3.905	-3.905
150	0.743	0.818	0.892	9.118	-9.118	3.933	-3.933
151	0.725	0.798	0.871	9.142	-9.142	3.96	-3.96
152	0.707	0.778	0.85	9.167	-9.167	3.988	-3.988
153	0.69	0.76	0.829	9.192	-9.192	4.017	-4.017
154	0.673	0.741	0.81	9.216	-9.216	4.045	-4.045
155	0.657	0.723	0.79	9.24	-9.24	4.073	-4.073
156	0.641	0.706	0.772	9.265	-9.265	4.101	-4.101
157	0.625	0.689	0.753	9.289	-9.289	4.13	-4.13
158	0.61	0.673	0.736	9.313	-9.313	4.158	-4.158
159	0.596	0.657	0.718	9.337	-9.337	4.187	-4.187
160	0.582	0.642	0.702	9.361	-9.361	4.215	-4.215
161	0.568	0.627	0.685	9.384	-9.384	4.244	-4.244
162	0.554	0.612	0.67	9.408	-9.408	4.273	-4.273
163	0.541	0.598	0.654	9.432	-9.432	4.302	-4.302
164	0.529	0.584	0.639	9.455	-9.455	4.331	-4.331
165	0.516	0.57	0.624	9.479	-9.479	4.36	-4.36
166	0.504	0.557	0.61	9.502	-9.502	4.389	-4.389
167	0.493	0.544	0.596	9.525	-9.525	4.418	-4.418
168	0.481	0.532	0.583	9.548	-9.548	4.448	-4.448
169	0.47	0.52	0.57	9.571	-9.571	4.477	-4.477
170	0.459	0.508	0.557	9.594	-9.594	4.507	-4.507
171	0.449	0.497	0.545	9.617	-9.617	4.536	-4.536





172	0.439	0.486	0.533	9.64	-9.64	4.566	-4.566
173	0.429	0.475	0.521	9.662	-9.662	4.596	-4.596
174	0.419	0.464	0.509	9.685	-9.685	4.626	-4.626
175	0.41	0.454	0.498	9.707	-9.707	4.656	-4.656
176	0.401	0.444	0.487	9.73	-9.73	4.686	-4.686
177	0.392	0.434	0.477	9.752	-9.752	4.716	-4.716
178	0.383	0.425	0.466	9.774	-9.774	4.747	-4.747
179	0.375	0.416	0.456	9.796	-9.796	4.777	-4.777
180	0.367	0.407	0.447	9.817	-9.817	4.808	-4.808
181	0.359	0.398	0.437	9.839	-9.839	4.838	-4.838
182	0.351	0.39	0.428	9.861	-9.861	4.869	-4.869
183	0.344	0.381	0.419	9.882	-9.882	4.9	-4.9
184	0.336	0.373	0.41	9.903	-9.903	4.931	-4.931
185	0.329	0.366	0.402	9.925	-9.925	4.962	-4.962
186	0.322	0.358	0.394	9.946	-9.946	4.993	-4.993
187	0.316	0.351	0.386	9.967	-9.967	5.025	-5.025
188	0.309	0.343	0.378	9.987	-9.987	5.056	-5.056
189	0.303	0.336	0.37	10	-10	5.088	-5.088
190	0.296	0.33	0.363	10.02	-10.02	5.12	-5.12
191	0.29	0.323	0.355	10.04	-10.04	5.151	-5.151
192	0.285	0.316	0.348	10.06	-10.06	5.183	-5.183
193	0.279	0.31	0.341	10.08	-10.08	5.215	-5.215
194	0.273	0.304	0.335	10.1	-10.1	5.247	-5.247
195	0.268	0.298	0.328	10.12	-10.12	5.28	-5.28
196	0.263	0.292	0.322	10.14	-10.14	5.312	-5.312
197	0.257	0.287	0.316	10.16	-10.16	5.345	-5.345
198	0.252	0.281	0.31	10.18	-10.18	5.377	-5.377
199	0.248	0.276	0.304	10.2	-10.2	5.41	-5.41
200	0.243	0.271	0.298	10.22	-10.22	5.443	-5.443





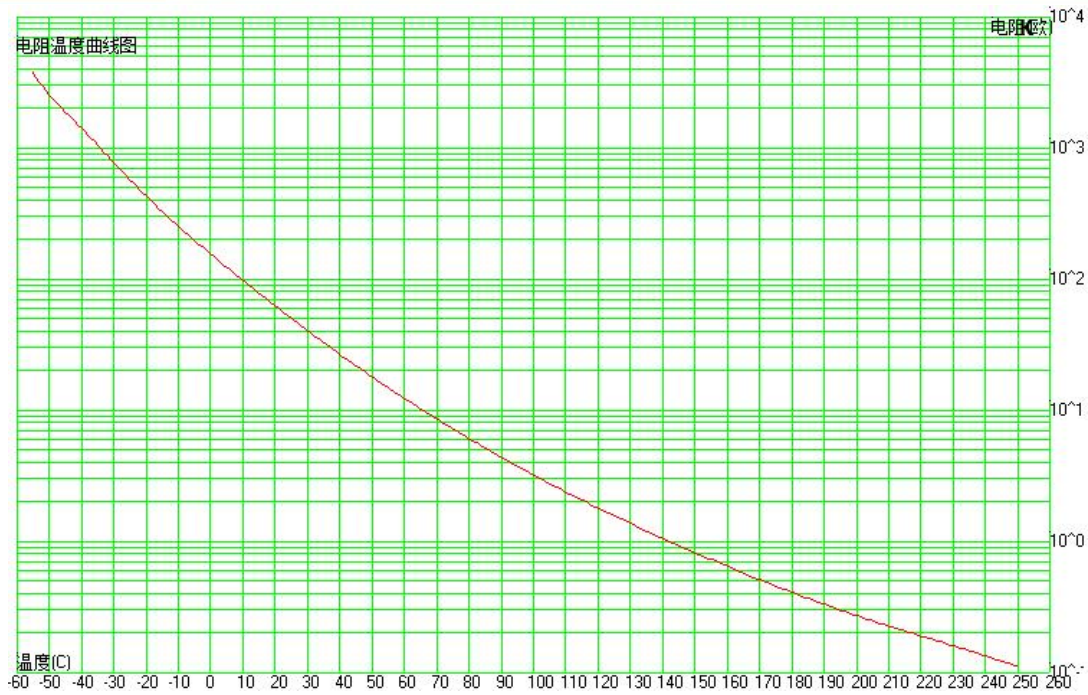
201	0.238	0.265	0.293	10.24	-10.24	5.476	-5.476
202	0.234	0.26	0.287	10.26	-10.26	5.509	-5.509
203	0.229	0.256	0.282	10.28	-10.28	5.542	-5.542
204	0.225	0.251	0.277	10.3	-10.3	5.576	-5.576
205	0.221	0.246	0.272	10.32	-10.32	5.609	-5.609
206	0.217	0.242	0.267	10.33	-10.33	5.643	-5.643
207	0.213	0.237	0.262	10.35	-10.35	5.676	-5.676
208	0.209	0.233	0.257	10.37	-10.37	5.71	-5.71
209	0.205	0.229	0.253	10.39	-10.39	5.744	-5.744
210	0.201	0.225	0.248	10.41	-10.41	5.778	-5.778
211	0.198	0.221	0.244	10.42	-10.42	5.812	-5.812
212	0.194	0.217	0.24	10.44	-10.44	5.846	-5.846
213	0.191	0.213	0.236	10.46	-10.46	5.881	-5.881
214	0.188	0.21	0.232	10.48	-10.48	5.915	-5.915
215	0.184	0.206	0.228	10.49	-10.49	5.95	-5.95
216	0.181	0.202	0.224	10.51	-10.51	5.984	-5.984
217	0.178	0.199	0.22	10.53	-10.53	6.019	-6.019
218	0.175	0.196	0.216	10.55	-10.55	6.054	-6.054
219	0.172	0.192	0.213	10.56	-10.56	6.089	-6.089
220	0.169	0.189	0.209	10.58	-10.58	6.124	-6.124
221	0.166	0.186	0.206	10.6	-10.6	6.159	-6.159
222	0.163	0.183	0.202	10.61	-10.61	6.194	-6.194
223	0.16	0.18	0.199	10.63	-10.63	6.229	-6.229
224	0.158	0.177	0.195	10.65	-10.65	6.264	-6.264
225	0.155	0.174	0.192	10.67	-10.67	6.3	-6.3
226	0.152	0.171	0.189	10.68	-10.68	6.335	-6.335
227	0.15	0.168	0.186	10.7	-10.7	6.37	-6.37
228	0.147	0.165	0.183	10.72	-10.72	6.406	-6.406
229	0.145	0.162	0.18	10.73	-10.73	6.441	-6.441





230	0.142	0.16	0.177	10.75	-10.75	6.477	-6.477
231	0.14	0.157	0.174	10.77	-10.77	6.513	-6.513
232	0.137	0.154	0.171	10.79	-10.79	6.548	-6.548
233	0.135	0.151	0.168	10.8	-10.8	6.584	-6.584
234	0.133	0.149	0.165	10.82	-10.82	6.619	-6.619
235	0.13	0.146	0.162	10.84	-10.84	6.655	-6.655
236	0.128	0.144	0.159	10.86	-10.86	6.691	-6.691
237	0.126	0.141	0.157	10.87	-10.87	6.726	-6.726
238	0.124	0.139	0.154	10.89	-10.89	6.762	-6.762
239	0.121	0.136	0.151	10.91	-10.91	6.797	-6.797
240	0.119	0.134	0.148	10.93	-10.93	6.833	-6.833
241	0.117	0.131	0.146	10.95	-10.95	6.868	-6.868
242	0.115	0.129	0.143	10.97	-10.97	6.903	-6.903
243	0.112	0.126	0.14	10.98	-10.98	6.939	-6.939
244	0.11	0.124	0.138	11	-11	6.974	-6.974
245	0.108	0.122	0.135	11.02	-11.02	7.009	-7.009
246	0.106	0.119	0.132	11.04	-11.04	7.044	-7.044
247	0.104	0.117	0.13	11.06	-11.06	7.078	-7.078
248	0.102	0.114	0.127	11.08	-11.08	7.113	-7.113
249	0.099	0.112	0.124	11.11	-11.11	7.147	-7.147
250	0.097	0.11	0.122	11.13	-11.13	7.182	-7.182





附表 II (Attachment II)

南京时恒电阻误差曲线图

Nanjing Shiheng The curve of resistance tolerance

