



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

MF58-103F3435

B0

2024-11-6

确认

CONFIRM

客户 CLIENT		供货商/制造商 MANUFACTOR	
品保部 Quality Dep.		规格书制作 Design	刘星月
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 103 F 3435

① ② ③ ④

- ① MF58: 玻壳型 NTC 热敏电阻器系列 (Series Glass shell NTC Thermistor)
- ② 103: 25℃ 的零功率电阻值 10KΩ (Zero Power Resistance at 25℃ is 10KΩ)
- ③ F: 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 3435: B25/85 值 3435K (B25/85:3435K)

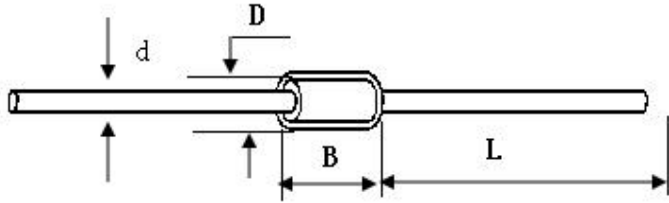
2、电气性能 Electrical Characteristics

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	$10\text{K}\Omega\pm 1\%$
2.2	B 值 B-value	$B_{25/85}$	$B=[(T_a\times T_b)/(T_b-T_a)]\times \ln(R_a/R_b)$ $T_a=25\pm0.01^{\circ}\text{C}$ $T_b=85^{\circ}\text{C}\pm 0.01^{\circ}\text{C}$	K	$3435\pm 1\%$
2.3	耗散系数 Thermal dissipation Coefficient	δ	静止空气中 In still air	mW/ ℃	约 1.8
2.4	时间常数 Thermal time constant	τ	静止空气中 In still air	sec	约 12
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	P_{max}	/	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.	MF58-103F3435		审核 Approve:		日期 DATE	

尺寸 Dimensions: (Unit: mm)



$D \pm 0.2$	$B \pm 0.3$	$L \pm 1$	$d \pm 0.05$
1.8	3.7	28	0.5

技术要求 Technical requirements:

- 1) 零功率阻值: R25: $10K\Omega \pm 1\%$ (Zero Power Resistance: R25: $10K\Omega \pm 1\%$);
- 2) B25/85 数值: $3435K \pm 1\%$ (B-value: B25/85: $3435K \pm 1\%$);
- 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。 ersion 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 $ \Delta R_{25}/R_{25} \leq 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	$ \Delta R_{25}/R_{25} \leq 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	$ \Delta R_{25}/R_{25} \leq 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	$ \Delta R_{25}/R_{25} \leq 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	$ \Delta R_{25}/R_{25} \leq 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	$ \Delta R_{25}/R_{25} \leq 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.

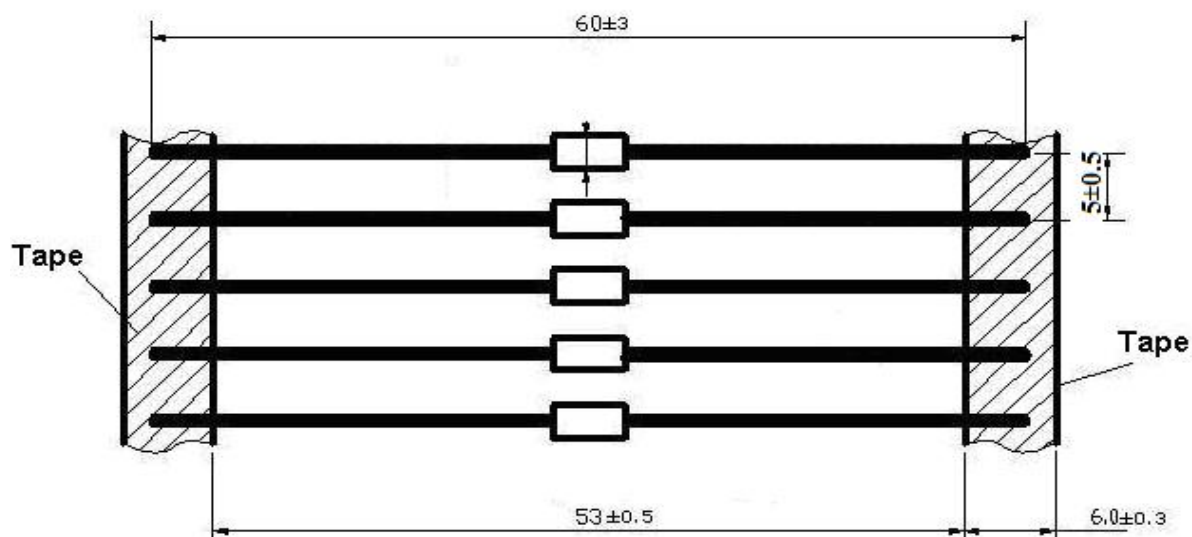
5、产品包装 Product packaging

5.1 包装方式 Packing Type

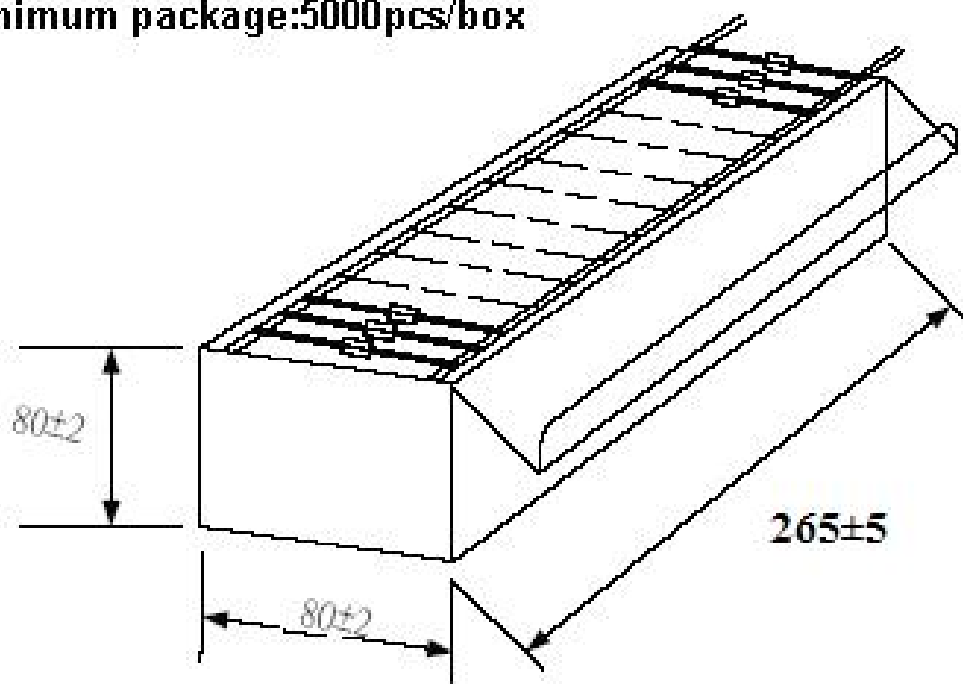
☐ 散装方式 Bulk Type ☐ 编带方式 Reel Type

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) $W \times H = 125\text{mm} \times 90\text{mm}$	500
2	编带包装盒 Reel Packing box	265mm*80mm*75mm	5000



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) TUV certificate (R50245892)	
8.7	江苏省高新技术产品认证 High-tech product certificate in Jiangsu Province	

附表 I (Attachment I)

南京时恒电子科技有限公司

R25=10K Ω 精度: $\pm 1\%$ B25/50=3435K 精度: $\pm 1\%$ (P447-17)

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	$-\Delta T$
-60	727.711	768.8	809.888	5.344	-5.344	0.747	-0.747
-59	678.249	716.006	753.764	5.273	-5.273	0.744	-0.744
-58	633.582	668.366	703.15	5.204	-5.204	0.741	-0.741
-57	592.726	624.822	656.919	5.136	-5.136	0.738	-0.738
-56	555.041	584.687	614.334	5.07	-5.07	0.735	-0.735
-55	520.099	547.5	574.9	5.004	-5.004	0.731	-0.731
-54	487.601	512.937	538.273	4.939	-4.939	0.728	-0.728
-53	457.326	480.761	504.195	4.874	-4.874	0.724	-0.724
-52	429.1	450.782	472.465	4.81	-4.81	0.721	-0.721
-51	402.775	422.843	442.911	4.745	-4.745	0.717	-0.717
-50	378.22	396.8	415.379	4.682	-4.682	0.714	-0.714
-49	355.315	372.523	389.73	4.619	-4.619	0.71	-0.71
-48	333.947	349.889	365.832	4.556	-4.556	0.706	-0.706
-47	314.009	328.785	343.561	4.494	-4.494	0.702	-0.702
-46	295.399	309.099	322.799	4.432	-4.432	0.698	-0.698
-45	278.022	290.73	303.437	4.371	-4.371	0.694	-0.694
-44	261.788	273.58	285.372	4.31	-4.31	0.69	-0.69
-43	246.614	257.56	268.506	4.249	-4.249	0.686	-0.686
-42	232.423	242.587	252.751	4.189	-4.189	0.682	-0.682
-41	219.143	228.584	238.025	4.13	-4.13	0.678	-0.678
-40	205.814	214.54	223.265	4.066	-4.066	0.674	-0.674
-39	195.056	203.21	211.363	4.012	-4.012	0.669	-0.669
-38	184.133	191.714	199.294	3.954	-3.954	0.665	-0.665
-37	173.887	180.937	187.987	3.896	-3.896	0.66	-0.66



-36	164.273	170.831	177.389	3.838	-3.838	0.656	-0.656
-35	155.246	161.348	167.45	3.781	-3.781	0.651	-0.651
-34	146.769	152.447	158.126	3.724	-3.724	0.647	-0.647
-33	138.804	144.09	149.376	3.668	-3.668	0.642	-0.642
-32	131.318	136.239	141.161	3.612	-3.612	0.637	-0.637
-31	124.28	128.863	133.447	3.556	-3.556	0.632	-0.632
-30	117.662	121.931	126.2	3.501	-3.501	0.627	-0.627
-29	111.436	115.414	119.392	3.446	-3.446	0.623	-0.623
-28	105.579	109.286	112.993	3.391	-3.391	0.618	-0.618
-27	100.068	103.523	106.978	3.337	-3.337	0.613	-0.613
-26	94.88	98.101	101.323	3.283	-3.283	0.607	-0.607
-25	89.995	93	96.004	3.23	-3.23	0.602	-0.602
-24	85.395	88.198	91	3.177	-3.177	0.597	-0.597
-23	81.063	83.677	86.292	3.124	-3.124	0.592	-0.592
-22	76.98	79.42	81.861	3.072	-3.072	0.587	-0.587
-21	73.132	75.41	77.688	3.02	-3.02	0.581	-0.581
-20	69.505	71.632	73.759	2.969	-2.969	0.576	-0.576
-19	66.084	68.071	70.057	2.918	-2.918	0.57	-0.57
-18	62.857	64.713	66.569	2.867	-2.867	0.565	-0.565
-17	59.811	61.546	63.28	2.817	-2.817	0.559	-0.559
-16	56.936	58.557	60.178	2.767	-2.767	0.553	-0.553
-15	54.221	55.736	57.251	2.718	-2.718	0.547	-0.547
-14	51.655	53.072	54.488	2.669	-2.669	0.542	-0.542
-13	49.23	50.555	51.879	2.62	-2.62	0.536	-0.536
-12	46.936	48.176	49.415	2.572	-2.572	0.53	-0.53
-11	44.767	45.926	47.086	2.524	-2.524	0.524	-0.524
-10	42.782	43.87	44.957	2.478	-2.478	0.517	-0.517
-9	40.768	41.784	42.799	2.43	-2.43	0.511	-0.511
-8	38.926	39.876	40.827	2.383	-2.383	0.505	-0.505



-7	37.18	38.069	38.959	2.336	-2.336	0.499	-0.499
-6	35.524	36.357	37.19	2.29	-2.29	0.492	-0.492
-5	33.953	34.733	35.513	2.245	-2.245	0.486	-0.486
-4	32.462	33.192	33.922	2.199	-2.199	0.48	-0.48
-3	31.046	31.73	32.414	2.154	-2.154	0.473	-0.473
-2	29.701	30.342	30.982	2.11	-2.11	0.466	-0.466
-1	28.423	29.023	29.622	2.065	-2.065	0.46	-0.46
0	27.208	27.77	28.331	2.021	-2.021	0.453	-0.453
1	26.052	26.578	27.104	1.977	-1.977	0.446	-0.446
2	24.953	25.445	25.937	1.933	-1.933	0.439	-0.439
3	23.906	24.366	24.827	1.89	-1.89	0.432	-0.432
4	22.909	23.34	23.771	1.847	-1.847	0.425	-0.425
5	21.959	22.363	22.766	1.804	-1.804	0.418	-0.418
6	21.054	21.432	21.81	1.762	-1.762	0.411	-0.411
7	20.192	20.545	20.898	1.72	-1.72	0.404	-0.404
8	19.369	19.7	20.03	1.678	-1.678	0.396	-0.396
9	18.585	18.894	19.203	1.636	-1.636	0.389	-0.389
10	17.811	18.1	18.388	1.593	-1.593	0.382	-0.382
11	17.122	17.392	17.663	1.553	-1.553	0.374	-0.374
12	16.441	16.693	16.946	1.512	-1.512	0.366	-0.366
13	15.79	16.026	16.261	1.471	-1.471	0.359	-0.359
14	15.168	15.388	15.609	1.431	-1.431	0.351	-0.351
15	14.574	14.78	14.985	1.39	-1.39	0.344	-0.344
16	14.007	14.199	14.39	1.35	-1.35	0.336	-0.336
17	13.465	13.644	13.822	1.31	-1.31	0.328	-0.328
18	12.947	13.113	13.28	1.271	-1.271	0.32	-0.32
19	12.451	12.606	12.762	1.231	-1.231	0.312	-0.312
20	11.977	12.122	12.266	1.192	-1.192	0.304	-0.304
21	11.524	11.659	11.793	1.153	-1.153	0.296	-0.296





22	11.091	11.216	11.341	1.114	-1.114	0.288	-0.288
23	10.676	10.792	10.908	1.076	-1.076	0.28	-0.28
24	10.279	10.387	10.495	1.038	-1.038	0.272	-0.272
25	9.9	10	10.1	1	-1	0.263	-0.263
26	9.529	9.629	9.729	1.037	-1.037	0.275	-0.275
27	9.174	9.274	9.373	1.075	-1.075	0.287	-0.287
28	8.834	8.934	9.033	1.112	-1.112	0.299	-0.299
29	8.509	8.608	8.707	1.149	-1.149	0.311	-0.311
30	8.198	8.297	8.395	1.186	-1.186	0.323	-0.323
31	7.9	7.998	8.096	1.223	-1.223	0.335	-0.335
32	7.615	7.712	7.81	1.259	-1.259	0.347	-0.347
33	7.342	7.438	7.535	1.295	-1.295	0.359	-0.359
34	7.08	7.176	7.271	1.331	-1.331	0.372	-0.372
35	6.829	6.924	7.019	1.367	-1.367	0.384	-0.384
36	6.589	6.683	6.777	1.402	-1.402	0.397	-0.397
37	6.359	6.451	6.544	1.438	-1.438	0.409	-0.409
38	6.138	6.229	6.321	1.473	-1.473	0.422	-0.422
39	5.926	6.016	6.107	1.508	-1.508	0.435	-0.435
40	5.722	5.812	5.902	1.542	-1.542	0.447	-0.447
41	5.527	5.616	5.704	1.576	-1.576	0.46	-0.46
42	5.34	5.427	5.515	1.611	-1.611	0.473	-0.473
43	5.16	5.246	5.333	1.644	-1.644	0.486	-0.486
44	4.987	5.073	5.158	1.678	-1.678	0.499	-0.499
45	4.822	4.906	4.99	1.712	-1.712	0.513	-0.513
46	4.662	4.745	4.828	1.745	-1.745	0.526	-0.526
47	4.509	4.591	4.673	1.778	-1.778	0.539	-0.539
48	4.362	4.442	4.523	1.811	-1.811	0.553	-0.553
49	4.22	4.3	4.379	1.843	-1.843	0.566	-0.566
50	4.084	4.163	4.241	1.876	-1.876	0.58	-0.58





51	3.953	4.03	4.107	1.908	-1.908	0.593	-0.593
52	3.827	3.903	3.979	1.94	-1.94	0.607	-0.607
53	3.706	3.781	3.855	1.972	-1.972	0.621	-0.621
54	3.589	3.663	3.736	2.004	-2.004	0.635	-0.635
55	3.477	3.549	3.621	2.035	-2.035	0.649	-0.649
56	3.369	3.44	3.511	2.067	-2.067	0.662	-0.662
57	3.264	3.334	3.404	2.098	-2.098	0.677	-0.677
58	3.164	3.232	3.301	2.129	-2.129	0.691	-0.691
59	3.066	3.134	3.202	2.16	-2.16	0.705	-0.705
60	2.973	3.04	3.106	2.19	-2.19	0.719	-0.719
61	2.883	2.948	3.014	2.221	-2.221	0.733	-0.733
62	2.796	2.86	2.924	2.251	-2.251	0.748	-0.748
63	2.711	2.775	2.838	2.281	-2.281	0.762	-0.762
64	2.63	2.693	2.755	2.312	-2.312	0.777	-0.777
65	2.552	2.613	2.674	2.341	-2.341	0.791	-0.791
66	2.476	2.536	2.597	2.371	-2.371	0.806	-0.806
67	2.403	2.462	2.521	2.401	-2.401	0.821	-0.821
68	2.333	2.391	2.449	2.43	-2.43	0.835	-0.835
69	2.264	2.321	2.378	2.46	-2.46	0.85	-0.85
70	2.198	2.254	2.31	2.489	-2.489	0.865	-0.865
71	2.134	2.19	2.245	2.518	-2.518	0.88	-0.88
72	2.073	2.127	2.181	2.547	-2.547	0.895	-0.895
73	2.013	2.066	2.119	2.576	-2.576	0.91	-0.91
74	1.955	2.007	2.06	2.605	-2.605	0.925	-0.925
75	1.899	1.951	2.002	2.634	-2.634	0.941	-0.941
76	1.845	1.895	1.946	2.663	-2.663	0.956	-0.956
77	1.793	1.842	1.892	2.691	-2.691	0.971	-0.971
78	1.742	1.79	1.839	2.72	-2.72	0.987	-0.987
79	1.693	1.74	1.788	2.748	-2.748	1.002	-1.002





80	1.645	1.692	1.739	2.776	-2.776	1.018	-1.018
81	1.599	1.645	1.691	2.804	-2.804	1.033	-1.033
82	1.554	1.599	1.645	2.832	-2.832	1.049	-1.049
83	1.511	1.555	1.6	2.86	-2.86	1.065	-1.065
84	1.469	1.513	1.556	2.888	-2.888	1.081	-1.081
85	1.419	1.462	1.504	2.923	-2.923	1.095	-1.095
86	1.389	1.431	1.473	2.944	-2.944	1.112	-1.112
87	1.35	1.392	1.433	2.971	-2.971	1.128	-1.128
88	1.313	1.354	1.395	2.999	-2.999	1.144	-1.144
89	1.277	1.317	1.357	3.026	-3.026	1.161	-1.161
90	1.242	1.282	1.321	3.054	-3.054	1.177	-1.177
91	1.209	1.247	1.286	3.081	-3.081	1.193	-1.193
92	1.176	1.214	1.251	3.108	-3.108	1.209	-1.209
93	1.144	1.181	1.218	3.136	-3.136	1.226	-1.226
94	1.113	1.149	1.186	3.163	-3.163	1.242	-1.242
95	1.083	1.119	1.154	3.19	-3.19	1.259	-1.259
96	1.054	1.089	1.124	3.217	-3.217	1.275	-1.275
97	1.026	1.06	1.095	3.244	-3.244	1.292	-1.292
98	0.998	1.032	1.066	3.27	-3.27	1.309	-1.309
99	0.972	1.005	1.038	3.297	-3.297	1.325	-1.325
100	0.946	0.979	1.011	3.324	-3.324	1.342	-1.342
101	0.921	0.953	0.985	3.35	-3.35	1.359	-1.359
102	0.897	0.928	0.959	3.377	-3.377	1.376	-1.376
103	0.873	0.904	0.935	3.403	-3.403	1.393	-1.393
104	0.85	0.88	0.91	3.43	-3.43	1.41	-1.41
105	0.828	0.857	0.887	3.456	-3.456	1.428	-1.428
106	0.806	0.835	0.864	3.482	-3.482	1.445	-1.445
107	0.785	0.814	0.842	3.508	-3.508	1.462	-1.462
108	0.765	0.793	0.821	3.534	-3.534	1.48	-1.48





109	0.745	0.773	0.8	3.56	-3.56	1.497	-1.497
110	0.726	0.753	0.78	3.586	-3.586	1.515	-1.515
111	0.707	0.734	0.76	3.612	-3.612	1.532	-1.532
112	0.689	0.715	0.741	3.637	-3.637	1.55	-1.55
113	0.672	0.697	0.723	3.663	-3.663	1.568	-1.568
114	0.654	0.68	0.705	3.688	-3.688	1.585	-1.585
115	0.638	0.663	0.687	3.714	-3.714	1.603	-1.603
116	0.622	0.646	0.67	3.739	-3.739	1.621	-1.621
117	0.606	0.63	0.654	3.764	-3.764	1.639	-1.639
118	0.591	0.614	0.638	3.789	-3.789	1.657	-1.657
119	0.576	0.599	0.622	3.814	-3.814	1.676	-1.676
120	0.562	0.584	0.607	3.839	-3.839	1.694	-1.694
121	0.548	0.57	0.592	3.864	-3.864	1.712	-1.712
122	0.534	0.556	0.578	3.889	-3.889	1.73	-1.73
123	0.521	0.542	0.564	3.914	-3.914	1.749	-1.749
124	0.508	0.529	0.55	3.938	-3.938	1.767	-1.767
125	0.496	0.517	0.537	3.963	-3.963	1.786	-1.786
126	0.484	0.504	0.524	3.987	-3.987	1.805	-1.805
127	0.472	0.492	0.512	4.011	-4.011	1.824	-1.824
128	0.461	0.48	0.5	4.035	-4.035	1.842	-1.842
129	0.45	0.469	0.488	4.06	-4.06	1.861	-1.861
130	0.439	0.458	0.476	4.083	-4.083	1.88	-1.88
131	0.429	0.447	0.465	4.107	-4.107	1.899	-1.899
132	0.418	0.436	0.454	4.131	-4.131	1.918	-1.918
133	0.408	0.426	0.444	4.155	-4.155	1.938	-1.938
134	0.399	0.416	0.434	4.178	-4.178	1.957	-1.957
135	0.39	0.407	0.424	4.202	-4.202	1.976	-1.976
136	0.38	0.397	0.414	4.225	-4.225	1.996	-1.996
137	0.372	0.388	0.405	4.248	-4.248	2.015	-2.015





138	0.363	0.379	0.395	4.272	-4.272	2.035	-2.035
139	0.355	0.371	0.387	4.295	-4.295	2.054	-2.054
140	0.347	0.362	0.378	4.317	-4.317	2.074	-2.074
141	0.339	0.354	0.369	4.34	-4.34	2.094	-2.094
142	0.331	0.346	0.361	4.363	-4.363	2.114	-2.114
143	0.323	0.338	0.353	4.386	-4.386	2.134	-2.134
144	0.316	0.331	0.345	4.408	-4.408	2.154	-2.154
145	0.309	0.323	0.338	4.431	-4.431	2.174	-2.174
146	0.302	0.316	0.33	4.453	-4.453	2.194	-2.194
147	0.295	0.309	0.323	4.475	-4.475	2.214	-2.214
148	0.289	0.303	0.316	4.497	-4.497	2.234	-2.234
149	0.283	0.296	0.309	4.519	-4.519	2.255	-2.255
150	0.276	0.29	0.303	4.541	-4.541	2.275	-2.275
151	0.27	0.283	0.296	4.563	-4.563	2.296	-2.296
152	0.264	0.277	0.29	4.585	-4.585	2.316	-2.316
153	0.259	0.271	0.284	4.607	-4.607	2.337	-2.337
154	0.253	0.265	0.278	4.628	-4.628	2.358	-2.358
155	0.248	0.26	0.272	4.65	-4.65	2.379	-2.379
156	0.242	0.254	0.266	4.671	-4.671	2.4	-2.4
157	0.237	0.249	0.261	4.692	-4.692	2.421	-2.421
158	0.232	0.244	0.255	4.713	-4.713	2.442	-2.442
159	0.227	0.239	0.25	4.735	-4.735	2.463	-2.463
160	0.222	0.234	0.245	4.756	-4.756	2.484	-2.484
161	0.218	0.229	0.24	4.777	-4.777	2.505	-2.505
162	0.213	0.224	0.235	4.797	-4.797	2.527	-2.527
163	0.209	0.219	0.23	4.818	-4.818	2.548	-2.548
164	0.204	0.215	0.225	4.839	-4.839	2.569	-2.569
165	0.2	0.211	0.221	4.86	-4.86	2.591	-2.591
166	0.196	0.206	0.216	4.88	-4.88	2.613	-2.613





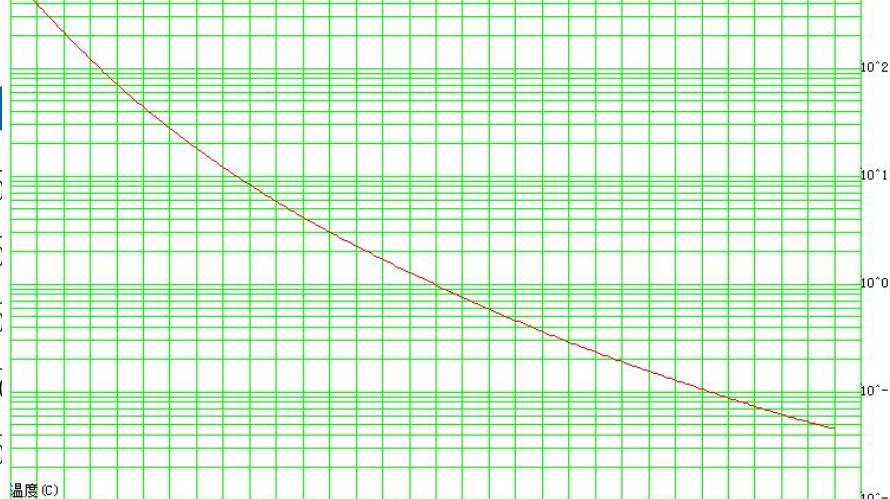
167	0.192	0.202	0.212	4.901	-4.901	2.634	-2.634
168	0.188	0.198	0.208	4.921	-4.921	2.656	-2.656
169	0.184	0.194	0.204	4.941	-4.941	2.678	-2.678
170	0.181	0.19	0.2	4.962	-4.962	2.7	-2.7
171	0.177	0.186	0.196	4.982	-4.982	2.722	-2.722
172	0.173	0.183	0.192	5.002	-5.002	2.744	-2.744
173	0.17	0.179	0.188	5.022	-5.022	2.766	-2.766
174	0.166	0.175	0.184	5.042	-5.042	2.788	-2.788
175	0.163	0.172	0.181	5.062	-5.062	2.81	-2.81
176	0.16	0.169	0.177	5.082	-5.082	2.833	-2.833
177	0.157	0.165	0.174	5.102	-5.102	2.855	-2.855
178	0.154	0.162	0.17	5.121	-5.121	2.878	-2.878
179	0.151	0.159	0.167	5.141	-5.141	2.9	-2.9
180	0.148	0.156	0.164	5.161	-5.161	2.923	-2.923
181	0.145	0.153	0.161	5.18	-5.18	2.946	-2.946
182	0.142	0.15	0.158	5.2	-5.2	2.968	-2.968
183	0.139	0.147	0.154	5.22	-5.22	2.991	-2.991
184	0.136	0.144	0.152	5.239	-5.239	3.014	-3.014
185	0.134	0.141	0.149	5.258	-5.258	3.037	-3.037
186	0.131	0.138	0.146	5.278	-5.278	3.06	-3.06
187	0.129	0.136	0.143	5.297	-5.297	3.083	-3.083
188	0.126	0.133	0.14	5.316	-5.316	3.106	-3.106
189	0.124	0.131	0.138	5.336	-5.336	3.13	-3.13
190	0.121	0.128	0.135	5.355	-5.355	3.153	-3.153
191	0.119	0.126	0.133	5.374	-5.374	3.176	-3.176
192	0.117	0.123	0.13	5.393	-5.393	3.2	-3.2
193	0.114	0.121	0.128	5.412	-5.412	3.223	-3.223
194	0.112	0.119	0.125	5.431	-5.431	3.247	-3.247
195	0.11	0.117	0.123	5.45	-5.45	3.27	-3.27





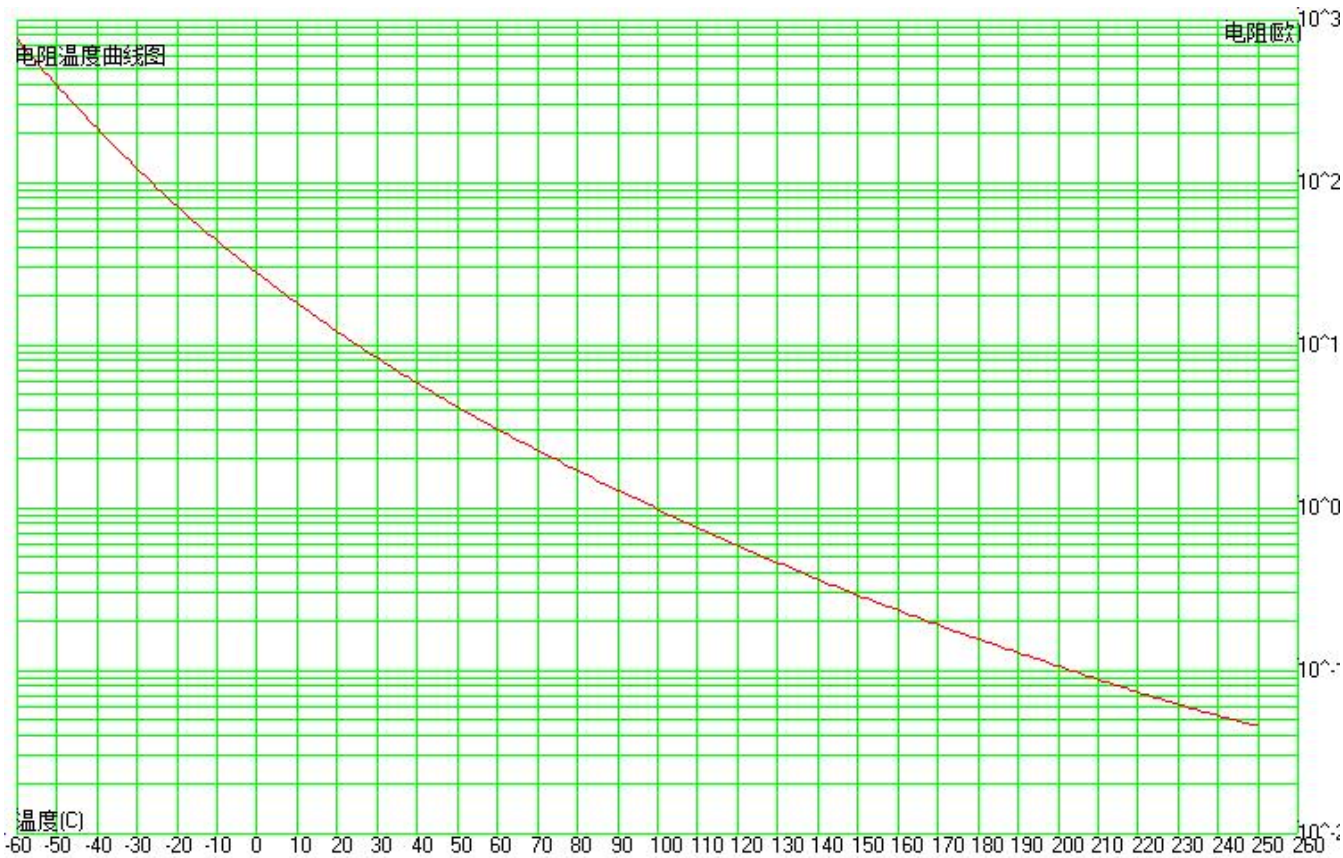
196	0.108	0.114	0.121	5.469	-5.469	3.294	-3.294
197	0.106	0.112	0.118	5.488	-5.488	3.318	-3.318
198	0.104	0.11	0.116	5.507	-5.507	3.342	-3.342
199	0.102	0.108	0.114	5.526	-5.526	3.366	-3.366
200	0.1	0.106	0.112	5.544	-5.544	3.39	-3.39
201	0.098	0.104	0.11	5.563	-5.563	3.414	-3.414
202	0.096	0.102	0.108	5.582	-5.582	3.438	-3.438
203	0.095	0.1	0.106	5.6	-5.6	3.462	-3.462
204	0.093	0.098	0.104	5.619	-5.619	3.486	-3.486
205	0.091	0.097	0.102	5.637	-5.637	3.511	-3.511
206	0.089	0.095	0.1	5.656	-5.656	3.535	-3.535
207	0.088	0.093	0.098	5.674	-5.674	3.56	-3.56
208	0.086	0.091	0.097	5.693	-5.693	3.584	-3.584
209	0.084	0.09	0.095	5.711	-5.711	3.609	-3.609
210	0.083	0.088	0.093	5.73	-5.73	3.633	-3.633
211	0.081	0.086	0.091	5.748	-5.748	3.658	-3.658
212	0.08	0.085	0.09	5.766	-5.766	3.683	-3.683
213	0.078	0.083	0.088	5.784	-5.784	3.708	-3.708
214	0.077	0.082	0.087	5.802	-5.802	3.733	-3.733
215	0.076	0.08	0.085	5.82	-5.82	3.758	-3.758
216	0.074	0.079	0.084	5.838	-5.838	3.783	-3.783
217	0.073	0.078	0.082	5.856	-5.856	3.808	-3.808
218	0.072	0.076	0.081	5.874	-5.874	3.834	-3.834
219	0.07	0.075	0.079	5.892	-5.892	3.859	-3.859
220	0.069	0.073	0.078	5.909	-5.909	3.884	-3.884
221	0.068	0.072	0.076	5.927	-5.927	3.91	-3.91
222	0.067	0.071	0.075	5.944	-5.944	3.935	-3.935
223	0.066	0.07	0.074	5.962	-5.962	3.961	-3.961
224	0.064	0.068	0.073	5.979	-5.979	3.987	-3.987





225	C						-4.013
226	C						-4.038
227	C						-4.064
228	C						-4.09
229	C						-4.117
230	0.058	0.062	0.066	6.081	-6.081	4.143	-4.143
231	0.057	0.061	0.065	6.097	-6.097	4.169	-4.169
232	0.056	0.06	0.064	6.113	-6.113	4.195	-4.195
233	0.055	0.059	0.063	6.13	-6.13	4.222	-4.222
234	0.054	0.058	0.062	6.146	-6.146	4.248	-4.248
235	0.053	0.057	0.061	6.162	-6.162	4.275	-4.275
236	0.053	0.056	0.06	6.177	-6.177	4.302	-4.302
237	0.052	0.055	0.059	6.193	-6.193	4.328	-4.328
238	0.051	0.054	0.058	6.208	-6.208	4.355	-4.355
239	0.05	0.054	0.057	6.224	-6.224	4.382	-4.382
240	0.049	0.053	0.056	6.239	-6.239	4.409	-4.409
241	0.049	0.052	0.055	6.253	-6.253	4.437	-4.437
242	0.048	0.051	0.054	6.268	-6.268	4.464	-4.464
243	0.047	0.05	0.054	6.282	-6.282	4.491	-4.491
244	0.047	0.05	0.053	6.297	-6.297	4.519	-4.519
245	0.046	0.049	0.052	6.311	-6.311	4.546	-4.546
246	0.045	0.048	0.051	6.324	-6.324	4.574	-4.574
247	0.045	0.048	0.051	6.338	-6.338	4.601	-4.601
248	0.044	0.047	0.05	6.351	-6.351	4.629	-4.629
249	0.043	0.046	0.049	6.364	-6.364	4.657	-4.657
250	0.043	0.046	0.049	6.377	-6.377	4.685	-4.685





附表 II (Attachment II)

南京时恒电阻误差曲线图
Nanjing Shiheng The curve of resistance tolerance

