编码(Coding)：JK/JXE220830013

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：	MF58 玻壳型 NTC 热敏电阻器 MF58 Glass shell NTC Thermistor
产品规格 PART NUMBER：	MF58- 502F3470
产品编号 PRODUCTCODE：	
版次 REV.NO：	B0
日期 DATE：	2022-8-30

确认

CONFIRM

客户 CLIENT			供货商/制造商 MANUFACTOR	
品保部 Quality Dep.			规格书制作 Design	吴迎丽
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

版次 REV. NO	变更日期 REV.DATE	变更内容 CHANGE CONTENT	申请人 APPLICANT	批准人 APPROVED
A0	2015/10/11	版本制定。 Version formulation	鞠晓丽	李少媛
B0	2022/4/1	更新规格书版本格式，增加版次管控，细化规格纸。 Update for version form of datasheet,add to management and control for number of edition,refine to PN and draw.	王月婷	李少媛

1、产品型号说明 Product model specification

MF58	502	F	3470
①	②	③	④

① MF58：玻壳型 NTC 热敏电阻器系列 (Series Glass shell NTC Thermistor)

② 502： 25℃的零功率电阻值 5KΩ(Zero Power Resistance at 25℃is 5KΩ)

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 3470：B25/50 值 3470K（B25/50:3470K）

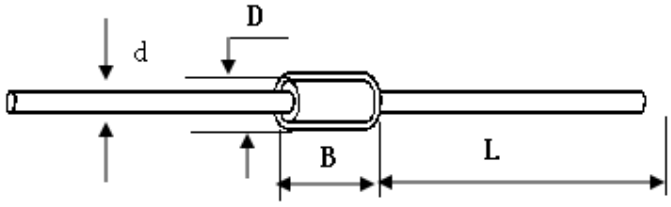
2、电气性能 Electrical Characteristics

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℃	$R_{25℃}$	Ta=25±0.01℃ Test Power≤0.1mW	KΩ	5KΩ±1%
2.2	B 值 B-value	$B_{25/50}$	$B=[(T_a \times T_b)/(T_b-T_a)] \times \ln(R_a/R_b)$ Ta=25±0.01℃ T_b=50℃ ±0.01℃	K	3470±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	/	/	℃	-55℃～250℃
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.	MF58-502F3470		审核 Approve:		日期 DATE	

尺寸 Dimensions： （Unit：mm）



D±0.2	B±0.3	L±1.0	d±0.05
1.8	3.7	28	0.5

技术要求 Technical requirements：

1）零功率阻值：R25：5KΩ ±1%(Zero Power Resistance: R25：5KΩ±1%)；
2）B25/50 数值：3470K±1%(B-value:B25/50: 3470K ±1%)；
3) 引线：φ 0.5 镀锡铜包钢线（Φ 0.5tinned 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. 4. 10	版本制定。 ersion formulation	王月婷	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	王月婷	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} ΔR/R≤±2%
4.2	可焊性 Solderability	IEC60068-2-20	温度 245±5℃时间 2-3 秒 temperature : 245±5℃ for 2-3sec	着锡面积≥95% Coverage area ≥ 95%.
4.3	耐焊接热 Withstand weiling temp	IEC60068-2-20	锡锅温度：260±5℃，浸入深度距电阻体 6mm，时间 5±1 秒 Temperature of tin pot:260±5℃, insert deepth from body of resistance 6mm, time 5±1senconds	R_{25} ΔR/R≤±2%
4.4	稳态湿热 Steady humidity and heat	IEC60068-2-78	温度：40℃±2℃，湿度：93±2%，时间：500 小时 Temp：40℃±2℃，humidity：93±2%， Time ： 500hrs	R_{25} ΔR/R≤±2%
4.5	温度快速变化 Rapid changes in temperature	IEC60068-2-14	-55℃30min→25℃5min→250℃ 30min→25℃5min，5cycles	R_{25} ΔR/R≤±2%
4.6	高温储存 High temperature storage	IEC60068-2-2	温度: 250℃±5℃ 时间:1000 小时 Temp : 250℃±5℃， Time :1000hrs	R_{25} ΔR/R≤±2%
4.7	低温储存 Low temperature storage	IEC60068-2-1	温度:-55℃时间:1000 小时 Temp : -55℃， Time :1000hrs	R_{25} ΔR/R≤±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.

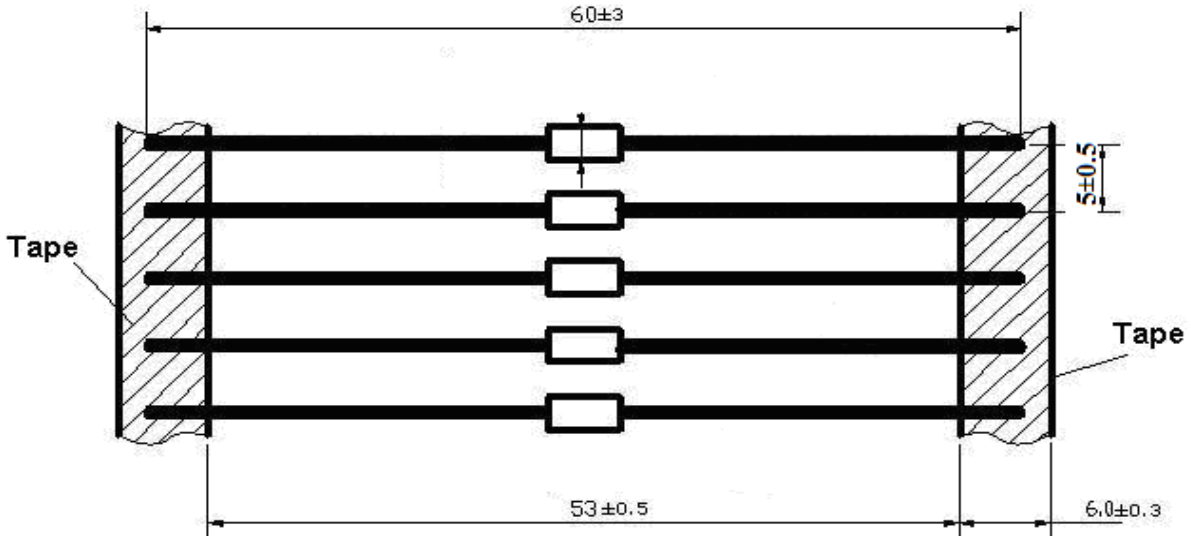
5、产品包装 Product packaging

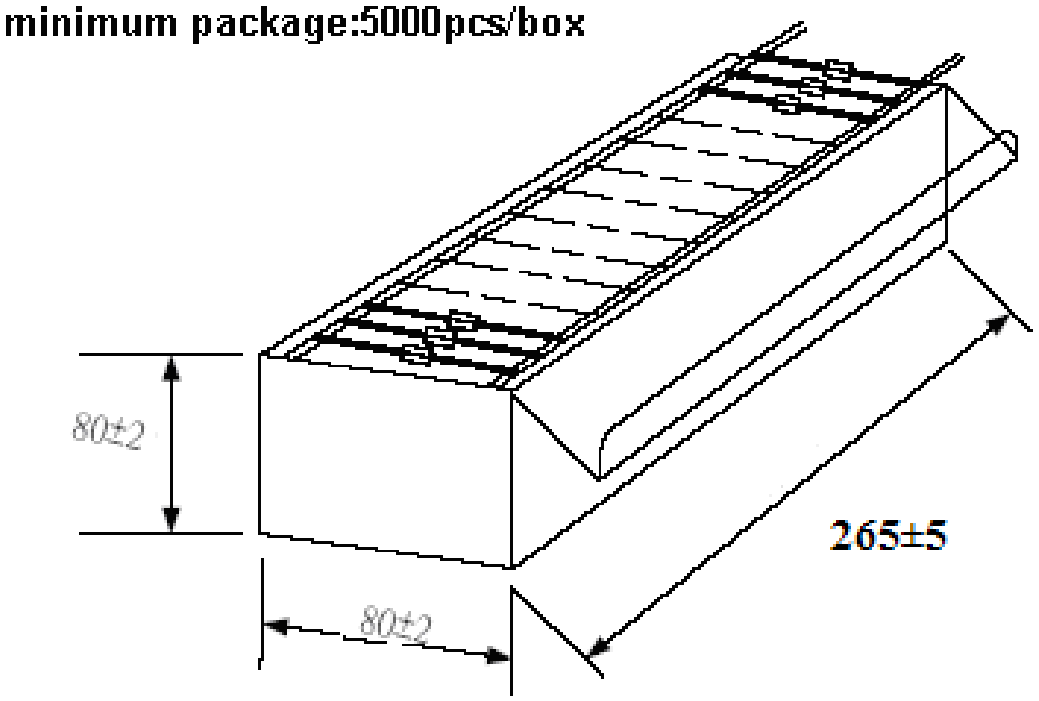
5.1 包装方式 Packing Type

☐ 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×H＝125mm×90mm	**500**
2	编编带包装盒 Reel Packing box	265mm*80mm*75mm	**5000**





编编带方式 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 CQC certificate	
8.5	UL 认证 UL certificate	E240991
8.6	TUV 认证 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	产品通过 AEC-Q200 测试 Passed by AECQ-200	

附表Ⅰ（Attachment I）

南京时恒阻温特性表 SHIHENG R-T Table

R25=5KΩ 精度:±1% B25/50=3470K 精度:±1%(SH-27A)							
温度(℃)	电阻(KΩ)			电阻精度(%)		温度精度(℃)	
	最小值	中心值	最大值	△R	-△R	△T	-△T
-55	1507.850	1613.660	1726.720	7.006	-6.557	0.709	-0.664
-54	990.075	1055.050	1124.190	6.552	-6.159	0.710	-0.668
-53	687.572	730.006	774.981	6.160	-5.812	0.712	-0.671
-52	501.194	530.429	561.313	5.822	-5.511	0.712	-0.674
-51	380.922	402.026	424.256	5.529	-5.249	0.713	-0.677
-50	300.107	315.972	332.642	5.275	-5.020	0.714	-0.679
-49	243.846	256.198	269.149	5.055	-4.821	0.714	-0.681
-48	203.433	213.347	223.722	4.863	-4.647	0.714	-0.682
-47	173.586	181.754	190.287	4.695	-4.494	0.713	-0.683
-46	150.985	157.867	165.047	4.547	-4.359	0.712	-0.683
-45	133.481	139.391	145.549	4.417	-4.240	0.711	-0.682
-44	119.638	124.798	130.167	4.302	-4.134	0.709	-0.681
-43	108.478	113.045	117.792	4.199	-4.039	0.706	-0.679
-42	99.318	103.407	107.653	4.106	-3.953	0.704	-0.678
-41	91.670	95.366	99.202	4.022	-3.876	0.701	-0.675
-40	85.180	88.550	92.043	3.944	-3.804	0.697	-0.672
-39	79.590	82.682	85.885	3.873	-3.738	0.693	-0.669
-38	74.706	77.558	80.511	3.807	-3.677	0.690	-0.666
-37	70.382	73.025	75.760	3.744	-3.619	0.685	-0.662
-36	66.508	68.966	71.508	3.685	-3.564	0.681	-0.658
-35	62.999	65.291	67.661	3.628	-3.511	0.676	-0.654

-34	59.789	61.932	64.146	3.574	-3.460	0.672	-0.650
-33	56.829	58.836	60.907	3.520	-3.410	0.667	-0.646
-32	54.079	55.960	57.902	3.469	-3.362	0.662	-0.641
-31	51.508	53.274	55.095	3.418	-3.314	0.657	-0.637
-30	49.094	50.753	52.462	3.368	-3.267	0.651	-0.632
-29	46.817	48.376	49.981	3.318	-3.221	0.646	-0.627
-28	44.663	46.128	47.636	3.269	-3.175	0.641	-0.622
-27	42.620	43.997	45.414	3.220	-3.129	0.635	-0.617
-26	40.679	41.974	43.305	3.171	-3.084	0.630	-0.612
-25	38.833	40.050	41.300	3.123	-3.038	0.624	-0.607
-24	37.074	38.218	39.394	3.075	-2.993	0.619	-0.602
-23	35.399	36.474	37.578	3.027	-2.947	0.613	-0.597
-22	33.803	34.813	35.850	2.979	-2.902	0.607	-0.592
-21	32.281	33.231	34.205	2.931	-2.857	0.602	-0.586
-20	30.831	31.723	32.638	2.883	-2.812	0.596	-0.581
-19	29.449	30.287	31.146	2.835	-2.767	0.590	-0.576
-18	28.133	28.920	29.726	2.788	-2.722	0.584	-0.570
-17	26.879	27.618	28.375	2.740	-2.677	0.578	-0.565
-16	25.685	26.380	27.090	2.693	-2.632	0.572	-0.559
-15	24.549	25.201	25.868	2.646	-2.588	0.566	-0.554
-14	23.467	24.080	24.706	2.600	-2.544	0.560	-0.548
-13	22.438	23.013	23.601	2.553	-2.499	0.554	-0.542
-12	21.459	22.000	22.551	2.507	-2.455	0.548	-0.537
-11	20.528	21.036	21.554	2.461	-2.412	0.542	-0.531
-10	19.643	20.120	20.606	2.416	-2.368	0.536	-0.525
-9	18.801	19.249	19.705	2.370	-2.325	0.529	-0.519
-8	18.000	18.421	18.849	2.325	-2.282	0.523	-0.513

-7	17.238	17.633	18.036	2.281	-2.239	0.516	-0.507
-6	16.514	16.885	17.263	2.236	-2.197	0.510	-0.501
-5	15.825	16.174	16.528	2.192	-2.155	0.503	-0.495
-4	15.169	15.497	15.830	2.149	-2.113	0.497	-0.489
-3	14.545	14.853	15.166	2.105	-2.072	0.490	-0.482
-2	13.951	14.240	14.534	2.062	-2.030	0.483	-0.476
-1	13.386	13.657	13.933	2.020	-1.989	0.477	-0.469
0	13.001	13.262	13.525	1.990	-1.961	0.467	-0.460
1	12.333	12.573	12.817	1.935	-1.908	0.463	-0.456
2	11.844	12.069	12.298	1.894	-1.868	0.456	-0.450
3	11.377	11.589	11.804	1.852	-1.828	0.449	-0.443
4	10.932	11.131	11.332	1.811	-1.789	0.441	-0.436
5	10.506	10.693	10.883	1.770	-1.749	0.434	-0.429
6	10.100	10.276	10.454	1.730	-1.710	0.427	-0.422
7	9.712	9.878	10.044	1.690	-1.671	0.419	-0.415
8	9.342	9.497	9.653	1.650	-1.633	0.412	-0.408
9	8.987	9.133	9.280	1.610	-1.594	0.404	-0.400
10	8.831	8.973	9.115	1.592	-1.577	0.387	-0.384
11	8.323	8.451	8.581	1.531	-1.518	0.389	-0.385
12	8.012	8.132	8.254	1.492	-1.480	0.381	-0.378
13	7.714	7.827	7.941	1.453	-1.442	0.373	-0.370
14	7.429	7.534	7.641	1.415	-1.405	0.365	-0.362
15	7.155	7.254	7.354	1.376	-1.367	0.357	-0.355
16	6.892	6.985	7.079	1.338	-1.330	0.349	-0.347
17	6.640	6.727	6.815	1.300	-1.293	0.341	-0.339
18	6.398	6.480	6.561	1.262	-1.256	0.332	-0.331
19	6.166	6.242	6.318	1.224	-1.219	0.324	-0.323

20	5.943	6.014	6.085	1.186	-1.182	0.315	-0.314
21	5.728	5.794	5.861	1.149	-1.145	0.307	-0.306
22	5.522	5.584	5.646	1.111	-1.109	0.298	-0.298
23	5.324	5.381	5.439	1.074	-1.072	0.290	-0.289
24	5.133	5.187	5.240	1.037	-1.036	0.281	-0.281
25	4.950	5.000	5.050	1.000	-1.000	0.273	-0.273
26	4.770	4.819	4.869	1.037	-1.036	0.283	-0.283
27	4.596	4.646	4.696	1.074	-1.072	0.295	-0.294
28	4.430	4.480	4.529	1.110	-1.108	0.306	-0.305
29	4.270	4.319	4.369	1.147	-1.144	0.318	-0.317
30	4.116	4.165	4.214	1.184	-1.180	0.329	-0.328
31	3.967	4.016	4.065	1.221	-1.216	0.341	-0.340
32	3.825	3.873	3.922	1.258	-1.252	0.353	-0.351
33	3.687	3.735	3.784	1.294	-1.288	0.364	-0.363
34	3.555	3.603	3.651	1.331	-1.323	0.376	-0.374
35	3.428	3.475	3.523	1.367	-1.359	0.388	-0.386
36	3.305	3.352	3.399	1.404	-1.394	0.400	-0.398
37	3.187	3.234	3.280	1.440	-1.430	0.412	-0.409
38	3.074	3.120	3.166	1.477	-1.465	0.425	-0.421
39	2.965	3.010	3.055	1.513	-1.501	0.437	-0.433
40	2.859	2.904	2.949	1.550	-1.536	0.449	-0.445
41	2.758	2.802	2.846	1.586	-1.571	0.461	-0.457
42	2.660	2.704	2.748	1.622	-1.606	0.474	-0.469
43	2.567	2.609	2.653	1.658	-1.641	0.486	-0.481
44	2.476	2.518	2.561	1.694	-1.676	0.499	-0.494
45	2.389	2.431	2.473	1.730	-1.711	0.512	-0.506
46	2.305	2.346	2.388	1.766	-1.746	0.525	-0.518

47	2.225	2.265	2.306	1.802	-1.780	0.537	-0.531
48	2.147	2.187	2.227	1.838	-1.815	0.550	-0.543
49	2.072	2.111	2.151	1.874	-1.849	0.563	-0.556
50	2.000	2.039	2.077	1.910	-1.884	0.576	-0.569
51	1.931	1.969	2.007	1.945	-1.918	0.590	-0.581
52	1.864	1.901	1.939	1.981	-1.952	0.603	-0.594
53	1.800	1.836	1.873	2.016	-1.986	0.616	-0.607
54	1.738	1.774	1.810	2.051	-2.020	0.630	-0.620
55	1.679	1.714	1.750	2.086	-2.054	0.643	-0.633
56	1.621	1.656	1.691	2.121	-2.087	0.657	-0.646
57	1.566	1.600	1.635	2.156	-2.121	0.671	-0.659
58	1.513	1.547	1.581	2.191	-2.154	0.684	-0.673
59	1.462	1.495	1.528	2.226	-2.187	0.698	-0.686
60	1.413	1.445	1.478	2.260	-2.220	0.712	-0.699
61	1.366	1.397	1.430	2.295	-2.253	0.726	-0.713
62	1.320	1.351	1.383	2.329	-2.286	0.740	-0.727
63	1.277	1.307	1.338	2.363	-2.319	0.755	-0.740
64	1.235	1.264	1.295	2.397	-2.351	0.769	-0.754
65	1.194	1.223	1.253	2.431	-2.383	0.783	-0.768
66	1.155	1.184	1.213	2.465	-2.415	0.798	-0.782
67	1.117	1.145	1.174	2.498	-2.447	0.812	-0.796
68	1.081	1.109	1.137	2.532	-2.479	0.827	-0.810
69	1.046	1.073	1.101	2.565	-2.511	0.842	-0.824
70	1.013	1.039	1.066	2.598	-2.542	0.857	-0.838
71	0.981	1.007	1.033	2.631	-2.573	0.871	-0.852
72	0.950	0.975	1.001	2.664	-2.604	0.887	-0.867
73	0.920	0.945	0.970	2.696	-2.635	0.902	-0.881

74	0.891	0.915	0.940	2.728	-2.666	0.917	-0.896
75	0.863	0.887	0.912	2.760	-2.696	0.932	-0.910
76	0.837	0.860	0.884	2.792	-2.726	0.947	-0.925
77	0.811	0.834	0.858	2.824	-2.756	0.963	-0.940
78	0.786	0.809	0.832	2.856	-2.786	0.979	-0.955
79	0.762	0.784	0.807	2.887	-2.816	0.994	-0.970
80	0.739	0.761	0.783	2.918	-2.845	1.010	-0.985
81	0.717	0.739	0.760	2.949	-2.874	1.026	-1.000
82	0.696	0.717	0.738	2.980	-2.903	1.042	-1.015
83	0.675	0.696	0.717	3.010	-2.932	1.058	-1.030
84	0.656	0.676	0.696	3.041	-2.961	1.074	-1.045
85	0.667	0.688	0.708	3.023	-2.944	1.098	-1.069
86	0.618	0.637	0.657	3.101	-3.017	1.106	-1.076
87	0.600	0.619	0.639	3.130	-3.045	1.123	-1.092
88	0.583	0.602	0.621	3.160	-3.073	1.139	-1.108
89	0.567	0.585	0.604	3.189	-3.100	1.156	-1.123
90	0.551	0.569	0.587	3.218	-3.128	1.172	-1.139
91	0.535	0.553	0.571	3.247	-3.155	1.189	-1.155
92	0.521	0.538	0.555	3.276	-3.182	1.206	-1.171
93	0.506	0.523	0.540	3.304	-3.208	1.223	-1.187
94	0.492	0.509	0.526	3.333	-3.235	1.240	-1.203
95	0.479	0.495	0.512	3.361	-3.261	1.257	-1.219
96	0.466	0.482	0.498	3.389	-3.287	1.274	-1.236
97	0.454	0.469	0.485	3.416	-3.313	1.291	-1.252
98	0.442	0.457	0.473	3.444	-3.339	1.308	-1.268
99	0.430	0.445	0.461	3.471	-3.364	1.326	-1.285
100	0.440	0.456	0.471	3.447	-3.342	1.351	-1.310

101	0.408	0.423	0.437	3.525	-3.415	1.361	-1.318
102	0.398	0.412	0.426	3.552	-3.439	1.379	-1.335
103	0.387	0.401	0.416	3.578	-3.464	1.396	-1.352
104	0.378	0.391	0.405	3.604	-3.489	1.414	-1.369
105	0.368	0.382	0.395	3.631	-3.513	1.432	-1.386
106	0.359	0.372	0.386	3.657	-3.537	1.450	-1.403
107	0.350	0.363	0.376	3.682	-3.561	1.468	-1.420
108	0.341	0.354	0.367	3.708	-3.585	1.486	-1.437
109	0.333	0.346	0.358	3.733	-3.608	1.505	-1.454
110	0.325	0.337	0.350	3.758	-3.632	1.523	-1.472
111	0.317	0.329	0.342	3.783	-3.655	1.542	-1.489
112	0.310	0.321	0.334	3.808	-3.678	1.560	-1.507
113	0.302	0.314	0.326	3.833	-3.701	1.579	-1.524
114	0.295	0.306	0.318	3.858	-3.724	1.597	-1.542
115	0.288	0.299	0.311	3.882	-3.747	1.616	-1.560
116	0.281	0.292	0.304	3.906	-3.769	1.635	-1.577
117	0.275	0.286	0.297	3.930	-3.791	1.654	-1.595
118	0.269	0.279	0.290	3.954	-3.813	1.673	-1.613
119	0.262	0.273	0.284	3.978	-3.835	1.692	-1.631
120	0.256	0.267	0.277	4.002	-3.857	1.711	-1.649
121	0.251	0.261	0.271	4.025	-3.879	1.730	-1.668
122	0.245	0.255	0.265	4.049	-3.901	1.750	-1.686
123	0.240	0.249	0.259	4.072	-3.922	1.769	-1.704
124	0.234	0.244	0.254	4.095	-3.943	1.789	-1.722
125	0.229	0.239	0.248	4.118	-3.965	1.808	-1.741
126	0.224	0.233	0.243	4.141	-3.986	1.828	-1.759
127	0.219	0.228	0.238	4.163	-4.007	1.848	-1.778

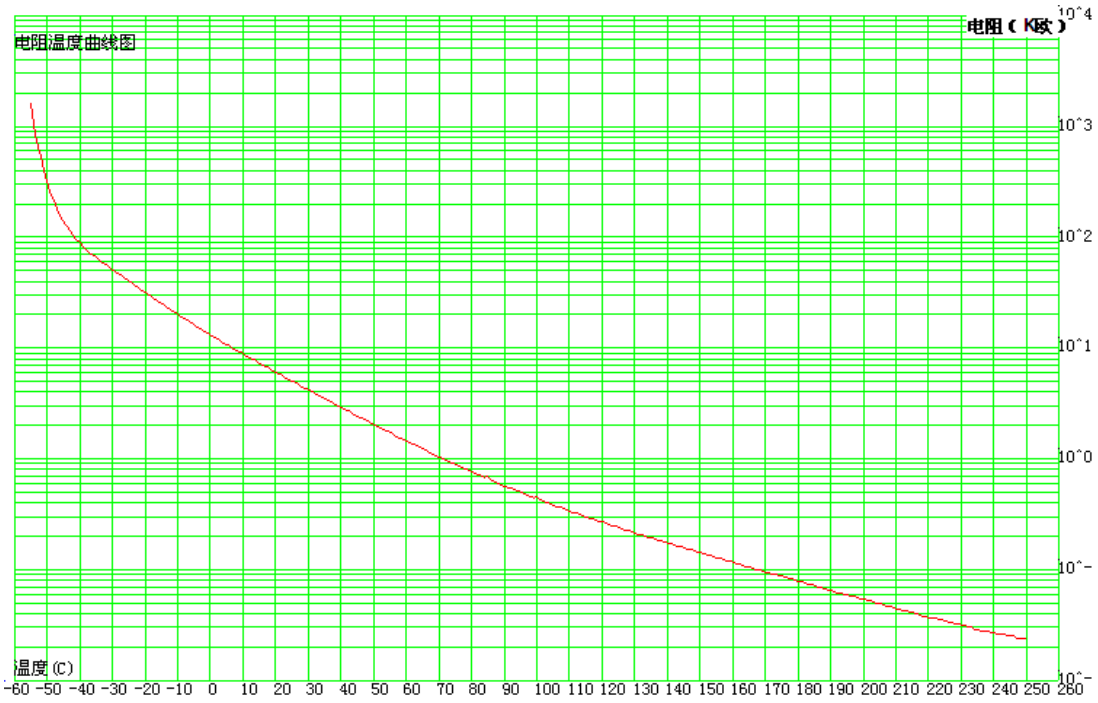
128	0.214	0.223	0.233	4.186	-4.027	1.867	-1.797
129	0.210	0.219	0.228	4.209	-4.048	1.887	-1.815
130	0.205	0.214	0.223	4.231	-4.069	1.907	-1.834
131	0.201	0.209	0.218	4.253	-4.089	1.927	-1.853
132	0.197	0.205	0.214	4.275	-4.110	1.947	-1.872
133	0.192	0.201	0.209	4.297	-4.130	1.967	-1.891
134	0.188	0.196	0.205	4.319	-4.150	1.988	-1.910
135	0.184	0.192	0.201	4.341	-4.170	2.008	-1.929
136	0.180	0.188	0.197	4.363	-4.190	2.028	-1.948
137	0.177	0.184	0.193	4.385	-4.210	2.049	-1.967
138	0.173	0.181	0.189	4.407	-4.230	2.069	-1.987
139	0.169	0.177	0.185	4.428	-4.250	2.090	-2.006
140	0.166	0.173	0.181	4.450	-4.270	2.111	-2.025
141	0.163	0.170	0.177	4.471	-4.289	2.132	-2.045
142	0.159	0.166	0.174	4.493	-4.309	2.152	-2.064
143	0.156	0.163	0.170	4.514	-4.328	2.173	-2.084
144	0.153	0.160	0.167	4.535	-4.348	2.194	-2.104
145	0.150	0.157	0.164	4.556	-4.367	2.215	-2.123
146	0.147	0.153	0.160	4.577	-4.387	2.236	-2.143
147	0.144	0.150	0.157	4.598	-4.406	2.258	-2.163
148	0.141	0.147	0.154	4.619	-4.425	2.279	-2.183
149	0.138	0.144	0.151	4.640	-4.444	2.300	-2.203
150	0.135	0.142	0.148	4.661	-4.463	2.322	-2.223
151	0.132	0.139	0.145	4.682	-4.482	2.343	-2.243
152	0.130	0.136	0.142	4.703	-4.501	2.365	-2.263
153	0.127	0.133	0.140	4.724	-4.520	2.386	-2.284
154	0.125	0.131	0.137	4.745	-4.539	2.408	-2.304

155	0.122	0.128	0.134	4.765	-4.558	2.430	-2.324
156	0.120	0.126	0.132	4.786	-4.577	2.452	-2.345
157	0.117	0.123	0.129	4.807	-4.596	2.474	-2.365
158	0.115	0.121	0.127	4.827	-4.614	2.496	-2.386
159	0.113	0.118	0.124	4.848	-4.633	2.518	-2.406
160	0.111	0.116	0.122	4.868	-4.652	2.540	-2.427
161	0.108	0.114	0.119	4.889	-4.671	2.562	-2.448
162	0.106	0.112	0.117	4.910	-4.689	2.584	-2.468
163	0.104	0.109	0.115	4.930	-4.708	2.607	-2.489
164	0.102	0.107	0.113	4.951	-4.727	2.629	-2.510
165	0.100	0.105	0.110	4.971	-4.745	2.651	-2.531
166	0.098	0.103	0.108	4.991	-4.764	2.674	-2.552
167	0.096	0.101	0.106	5.012	-4.782	2.697	-2.573
168	0.094	0.099	0.104	5.032	-4.801	2.719	-2.594
169	0.093	0.097	0.102	5.053	-4.819	2.742	-2.615
170	0.091	0.095	0.100	5.073	-4.838	2.765	-2.637
171	0.089	0.094	0.098	5.094	-4.856	2.788	-2.658
172	0.087	0.092	0.096	5.114	-4.875	2.811	-2.679
173	0.086	0.090	0.095	5.134	-4.893	2.834	-2.701
174	0.084	0.088	0.093	5.155	-4.911	2.857	-2.722
175	0.082	0.087	0.091	5.175	-4.930	2.880	-2.744
176	0.081	0.085	0.089	5.195	-4.948	2.903	-2.765
177	0.079	0.083	0.088	5.216	-4.967	2.927	-2.787
178	0.078	0.082	0.086	5.236	-4.985	2.950	-2.808
179	0.076	0.080	0.084	5.256	-5.003	2.973	-2.830
180	0.075	0.079	0.083	5.277	-5.021	2.997	-2.852
181	0.073	0.077	0.081	5.297	-5.040	3.020	-2.874

182	0.072	0.076	0.080	5.317	-5.058	3.044	-2.896
183	0.070	0.074	0.078	5.337	-5.076	3.068	-2.918
184	0.069	0.073	0.077	5.357	-5.094	3.092	-2.940
185	0.068	0.071	0.075	5.378	-5.113	3.116	-2.962
186	0.066	0.070	0.074	5.398	-5.131	3.139	-2.984
187	0.065	0.069	0.072	5.418	-5.149	3.163	-3.006
188	0.064	0.067	0.071	5.438	-5.167	3.188	-3.029
189	0.063	0.066	0.070	5.458	-5.185	3.212	-3.051
190	0.061	0.065	0.068	5.478	-5.203	3.236	-3.073
191	0.060	0.064	0.067	5.499	-5.221	3.260	-3.096
192	0.059	0.062	0.066	5.519	-5.239	3.285	-3.118
193	0.058	0.061	0.065	5.539	-5.257	3.309	-3.141
194	0.057	0.060	0.063	5.559	-5.275	3.334	-3.164
195	0.056	0.059	0.062	5.579	-5.293	3.358	-3.186
196	0.055	0.058	0.061	5.599	-5.311	3.383	-3.209
197	0.054	0.057	0.060	5.619	-5.329	3.408	-3.232
198	0.053	0.056	0.059	5.638	-5.347	3.432	-3.255
199	0.052	0.055	0.058	5.658	-5.365	3.457	-3.278
200	0.051	0.054	0.057	5.678	-5.382	3.482	-3.301
201	0.050	0.052	0.056	5.698	-5.400	3.507	-3.324
202	0.049	0.052	0.054	5.718	-5.418	3.532	-3.347
203	0.048	0.051	0.053	5.737	-5.435	3.558	-3.370
204	0.047	0.050	0.053	5.757	-5.453	3.583	-3.394
205	0.046	0.049	0.052	5.776	-5.470	3.608	-3.417
206	0.045	0.048	0.051	5.796	-5.488	3.634	-3.440
207	0.044	0.047	0.050	5.815	-5.505	3.659	-3.464
208	0.043	0.046	0.049	5.835	-5.523	3.685	-3.487

209	0.043	0.045	0.048	5.854	-5.540	3.710	-3.511
210	0.042	0.044	0.047	5.873	-5.557	3.736	-3.535
211	0.041	0.044	0.046	5.893	-5.574	3.762	-3.558
212	0.040	0.043	0.045	5.912	-5.591	3.788	-3.582
213	0.040	0.042	0.045	5.931	-5.608	3.814	-3.606
214	0.039	0.041	0.044	5.950	-5.625	3.840	-3.630
215	0.038	0.041	0.043	5.969	-5.642	3.866	-3.654
216	0.038	0.040	0.042	5.987	-5.659	3.892	-3.678
217	0.037	0.039	0.041	6.006	-5.675	3.918	-3.702
218	0.036	0.038	0.041	6.025	-5.692	3.945	-3.727
219	0.036	0.038	0.040	6.043	-5.708	3.971	-3.751
220	0.035	0.037	0.039	6.062	-5.725	3.998	-3.775
221	0.034	0.036	0.039	6.080	-5.741	4.024	-3.800
222	0.034	0.036	0.038	6.098	-5.757	4.051	-3.824
223	0.033	0.035	0.037	6.116	-5.773	4.078	-3.849
224	0.033	0.035	0.037	6.134	-5.789	4.105	-3.874
225	0.032	0.034	0.036	6.152	-5.805	4.132	-3.898
226	0.031	0.033	0.036	6.170	-5.820	4.159	-3.923
227	0.031	0.033	0.035	6.187	-5.836	4.186	-3.948
228	0.030	0.032	0.034	6.205	-5.851	4.213	-3.973
229	0.030	0.032	0.034	6.222	-5.867	4.240	-3.998
230	0.029	0.031	0.033	6.239	-5.882	4.268	-4.023
231	0.029	0.031	0.033	6.256	-5.897	4.295	-4.049
232	0.028	0.030	0.032	6.273	-5.912	4.323	-4.074
233	0.028	0.030	0.032	6.289	-5.927	4.350	-4.099
234	0.028	0.029	0.031	6.306	-5.941	4.378	-4.125
235	0.027	0.029	0.031	6.322	-5.956	4.406	-4.150

236	0.027	0.028	0.030	6.338	-5.970	4.434	-4.176
237	0.026	0.028	0.030	6.354	-5.984	4.462	-4.202
238	0.026	0.028	0.029	6.370	-5.998	4.490	-4.227
239	0.026	0.027	0.029	6.386	-6.012	4.518	-4.253
240	0.025	0.027	0.029	6.401	-6.025	4.546	-4.279
241	0.025	0.026	0.028	6.416	-6.039	4.575	-4.305
242	0.024	0.026	0.028	6.431	-6.052	4.603	-4.332
243	0.024	0.026	0.027	6.446	-6.065	4.632	-4.358
244	0.024	0.025	0.027	6.461	-6.078	4.660	-4.384
245	0.023	0.025	0.027	6.475	-6.090	4.689	-4.411
246	0.023	0.025	0.026	6.489	-6.103	4.718	-4.437
247	0.023	0.024	0.026	6.503	-6.115	4.747	-4.464
248	0.023	0.024	0.026	6.516	-6.127	4.776	-4.491
249	0.022	0.024	0.025	6.530	-6.139	4.805	-4.517
250	0.022	0.023	0.025	6.543	-6.151	4.834	-4.544



附表Ⅱ（**Attachment Ⅱ**）

南京时恒电阻误差曲线图

Nanjing The curve of resistance tolerance