编码(Coding)：JK/JXD260323001

南京时恒电子科技有限公司

Nanjing Shiheng Electronics Co.,Ltd.

产品承认书

APPROVAL SHEET

客户名称 CUSTOMER：	
产品名称 PART NAME：	MF52 测温型 NTC 热敏电阻器 MF52 Series Temp Measurement NTC Thermistor
产品型号 PART NUMBER：	MF52A 103F3435（A1）
版次 REV.NO:	C0
日期 DATE:	2026-3-23

南京时恒电子科技有限公司
NANJING SHIHENG ELECTRONICS CO.,LTD.
地址：南京市江宁区湖熟镇金阳路 18 号
Address: No.18 Jinyang Road Hushu Town Jiangning District Nanjing China
邮编 Postcode：211121
TEL: 025-52121868
Http: //www.shiheng.com.cn E-MAIL: sales@shiheng.com.cn

变更登记表

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 data sheet, add to management and control for number of edition, refine to PN and draw.	吴迎丽	李少媛
C0	2025/12/01	更新规格书版本格式，去掉：产品图纸此一页的变更履历表。 Update for version form of data sheet, Remove: Change history table on this page of the product drawing.	刘星月	李少媛

1、产品型号说明 Product model specification

MF52	A	103	F	3435	(A1)
①	②	③	④	⑤	⑥

① MF52：测温型 NTC 热敏电阻器系列 (Series Temp Measurement NTC Thermistor)

② A：指引线为镀锡线 (Refers to tinned lead)

③ 103：25°C的零功率电阻值 10kΩ (Zero Power Resistance at 25°Cis 10kΩ)

④ 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%)

⑤ 3435：$B_{25/85}$ 值 3435K ($B_{25/85}$:3435K)

⑥ (A1)：线材规格：引线外径Φ0.3mm (Wire dimension: The outer diameter of lead wire is Φ0.3mm)

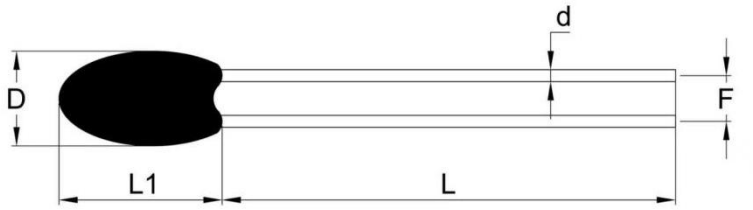
2、电气性能 Electrical Characteristics

No.	项目 Item	符号 Symbol	测试条件 Test conditions	单位 Unit	性能要求 Requirements
2.1	25°C的零功率电阻值 Zero Power Resistance at 25°C	R_{25}	Ta=25±0.5°C (测试功率≤0.1mW 空气中测试) (Test Power≤0.1mW，in air)	kΩ	10kΩ±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±0.01°C T_b=85±0.01°C	K	3435K±1%
2.5	耗散系数 Thermal dissipation Coefficient	δ	静止空气中 In still air	mW/°C	约 2
2.6	时间常数 Thermal time constant	τ	静止空气中 In still air	sec	约 12
2.8	绝缘电阻 Insulation resistance	/	100V/DC 1min	MΩ	≥100
2.9	工作温度范围 Operating temperature range	/	/	°C	-55 ~ 125
2.10	最大额定功率 Maximum rated power	Pmax	/	mW	50
2.11	阻温特性 R&T-table	/	/	/	见附表 I See attached table I
2.12	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.	MF52A 103F3435(A1)		审核 Approve:		日期 DATE	

尺寸 Dimensions：　　（Unit：mm）



DMax	L1Max	LMin	d±0.05	F±0.5
2.5	4.0	25	0.3	1.7

技术要求 Technical requirements：

1) 零功率阻值：R_{25}：10kΩ±1% (Zero Power Resistance: R_{25}：10kΩ±1%)；
2) $B_{25/85}$ 数值：3435K±1% (B-value:$B_{25/85}$: 3435K±1%)；
3) 线材：ϕ0.3 镀锡铜包钢线 (Φ0.3 tinned copper-weld steel wire)；
4) 封装：黑色环氧树脂包封 (Black Epoxy)；
5) 符合 RoHS 环保要求 (Meet environmental protection requirements:RoHS)。

4、可靠性 Reliability

No.	项目 Test Item	试验标准 Test Standard	试验条件及方法 Test Conditions / Methods	性能要求 Acceptance Criteria
4.1	引出端强度 Terminal strength	IEC60068-2-21	固定电阻端，拉力：5±1 N，时间：10±1 秒 Fixed resistor end, Pull strength: 5±1 N, time: 10±1 sec	无可见性损伤 No obvious damage $\|\Delta R_{25}/R_{25}\|\leqslant 2\%$
4.2	可焊性 Solder ability	IEC60068-2-20	温度：245±5°C，时间：2-3 秒 temperature: 245±5°C, for 2-3 sec	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°C，浸入深度距电阻体 6mm，时间 5±1 秒 Temperature of tin pot: 260±5°C, insert deepth from body of resistance 6mm, time 5±1 senconds	无可见性损伤 No obvious damage $\|\Delta R_{25}/R_{25}\|\leqslant 2\%$
4.4	稳态湿热 Steady humidity and heat	IEC60068-2-78	温度：40°C±2°C，湿度：93±2%，时间：500 小时 Temp: 40°C±2°C, humidity: 93±2%, Time: 500 hrs	无可见性损伤 No obvious damage $\|\Delta R_{25}/R_{25}\|\leqslant 2\%$
4.5	温度快速变化 Rapid changes in temperature	IEC60068-2-14	-55°C 30min→25°C 5min→125°C 30min→25°C 5min, 5 cycles	无可见性损伤 No obvious damage $\|\Delta R_{25}/R_{25}\|\leqslant 2\%$
4.6	高温储存 High temperature storage	IEC60068-2-2	温度：125°C±5°C 时间：1000 小时 Temp: 125°C±5°C, Time: 1000 hrs	无可见性损伤 No obvious damage $\|\Delta R_{25}/R_{25}\|\leqslant 2\%$
4.7	低温储存 Low temperature storage	IEC60068-2-1	温度：-55°C，时间：1000 小时 Temp: -55°C, Time: 1000 hrs	无可见性损伤 No obvious damage $\|\Delta R_{25}/R_{25}\|\leqslant 2\%$

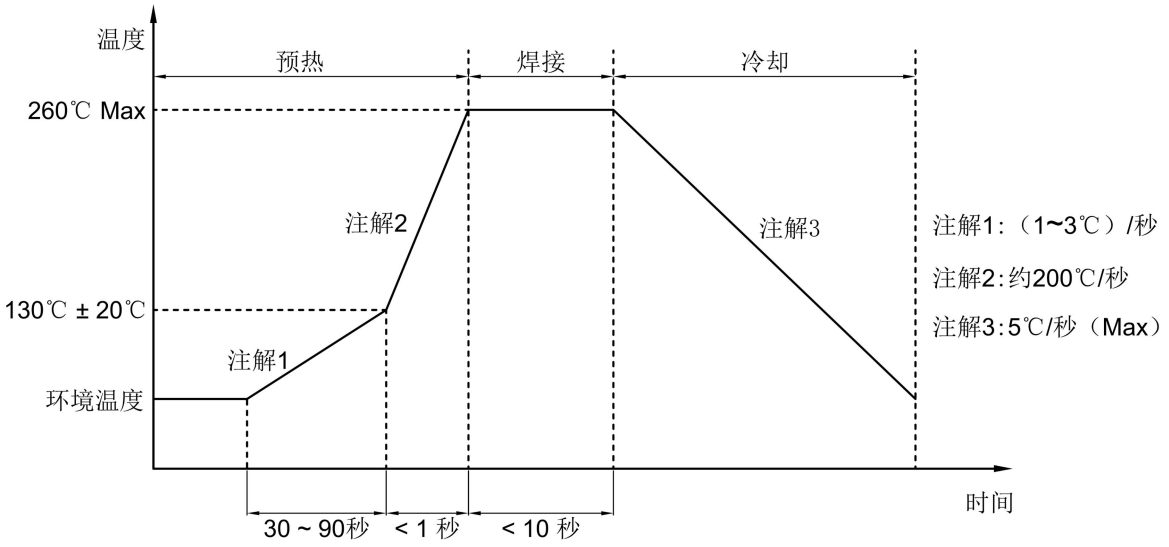
▲注： 1）稳态湿热及温度快速变化试验结束后，样品需在常温环境下静置 2 小时后再做性能测试；

▲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；

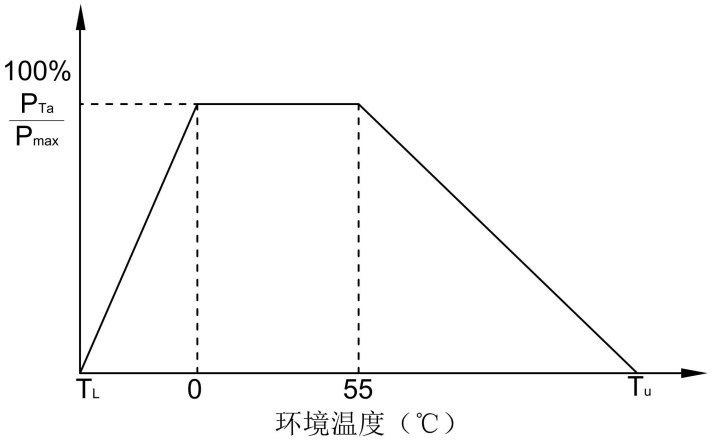
2）高温存储结束后，需随测试环境自然恢复至常温，再取出做性能测试。

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

5、推荐波峰焊曲线 Recommended wave soldering profile



6、降功耗曲线 Power Derating Curve



例如：
环境温度（T_a）=90℃
最大工作温度(T_u)=125℃
For example:
Ambient temperature（T_a）=90℃
Maximum operating temperature（T_u）=125℃

$$P_{Ta} = \frac{T_u - T_a}{T_u - 55} \times P_{max} = 50\%P_{max}$$

7、产品包装 Product packaging

7.1 包装方式 Packing Type

☑ 散装方式 Bulk Type　　☐编编带方式 Reel Type

7.2 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=11cm×12cm	
2	编编带包装盒 reel packing box	包装盒 packing box W×G×H=335mm×240mm×50mm	

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

8.1 本产品的用途：温度测量与控制；
Usage of this product: Temperature measurement and control；
8.2 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；
8.3 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 soldering by soldering iron, the distance between the welding place and the coating head should be at least 2mm, the welding temperature should be lower than 360℃, and the welding time should be less than 3sec;
8.4 储存温度：-10℃～40℃；储存湿度：≤75% RH；
Storage temperature: -10℃～ 40℃; storage humidity: ≤75% RH；
8.5 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；
8.6 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；
8.7 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；
If the heat shrinkable tube is used in the manufacturing process, do not use a hair dryer to shrink the tube. This is a recommended heat shrinkable process that puts the product covered shrinkable tube into a constant temperature oven, and shrink them at 110℃/10 ~ 12min；
8.8 对于 MF52A、B、C、D 等型号的测温型 NTC 热敏电阻器，其均为径向引出线结构，不得将其两引线拉成 180°轴向使用；
For the MF52A, B, C, D Type NTC thermistors, they are all radial lead-out structure, shall not be used to pull its two leads into 180°axial；
8.9 芯片为陶瓷半导体，在使用过程中避免挤压或对环氧端头物理撞击，以免造成产品损伤。
The core chip of the product is a ceramic semiconductor. Avoid extrusion or physical impact on the epoxy end in the process of use, so as not to cause product damage。

8、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	知识产权管理体系认证 Intellectual Property Management System Certification	GB/T29490-2013
8.4	环保检测报告 Environmental test report	RoHS 2.0
8.5	CQC 认证（CQC07001019009） CQC certificate（CQC07001019009）	
8.6	TUV 认证（R50245892） TUV certificate（R50245892）	
8.7	UL/cUL 认证（E240991） UL/cUL certificate（E240991）	

附表 I Attachment I

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R_{25}=10KΩ 精度:±1%　　$B_{25/85}$=3435K 精度:±1%（P174-9A）

温度(°C)	电阻(KΩ)			电阻精度(%)		温度精度(°C)	
	最小值	中心值	最大值	△R	-△R	△T	-△T
-55	475.553	500.13	524.706	4.914	-4.914	0.735	-0.735
-54	449.042	471.961	494.879	4.856	-4.856	0.731	-0.731
-53	423.61	444.955	466.299	4.797	-4.797	0.727	-0.727
-52	399.333	419.191	439.05	4.737	-4.737	0.724	-0.724
-51	376.252	394.713	413.174	4.677	-4.677	0.72	-0.72
-50	354.382	371.534	388.686	4.616	-4.616	0.716	-0.716
-49	333.716	349.645	365.574	4.555	-4.555	0.713	-0.713
-48	314.231	329.02	343.809	4.494	-4.494	0.709	-0.709
-47	295.893	309.621	323.35	4.434	-4.434	0.705	-0.705
-46	278.658	291.402	304.146	4.373	-4.373	0.701	-0.701
-45	262.479	274.309	286.14	4.312	-4.312	0.697	-0.697
-44	247.303	258.287	269.271	4.252	-4.252	0.693	-0.693
-43	233.078	243.278	253.478	4.192	-4.192	0.689	-0.689
-42	219.749	229.223	238.697	4.133	-4.133	0.685	-0.685
-41	207.263	216.066	224.868	4.073	-4.073	0.681	-0.681
-40	195.568	203.75	211.931	4.015	-4.015	0.677	-0.677
-39	184.614	192.22	199.826	3.956	-3.956	0.672	-0.672
-38	174.353	181.427	188.501	3.899	-3.899	0.668	-0.668
-37	164.738	171.32	177.902	3.841	-3.841	0.664	-0.664
-36	155.728	161.854	167.98	3.784	-3.784	0.659	-0.659
-35	147.28	152.984	158.688	3.728	-3.728	0.655	-0.655
-34	139.357	144.67	149.983	3.672	-3.672	0.65	-0.65
-33	131.923	136.874	141.825	3.617	-3.617	0.645	-0.645
-32	124.944	129.559	134.175	3.562	-3.562	0.641	-0.641
-31	118.39	122.694	126.998	3.507	-3.507	0.636	-0.636
-30	112.232	116.247	120.262	3.453	-3.453	0.631	-0.631
-29	106.442	110.189	113.936	3.4	-3.4	0.626	-0.626
-28	100.997	104.494	107.992	3.347	-3.347	0.621	-0.621
-27	95.871	99.137	102.403	3.294	-3.294	0.616	-0.616

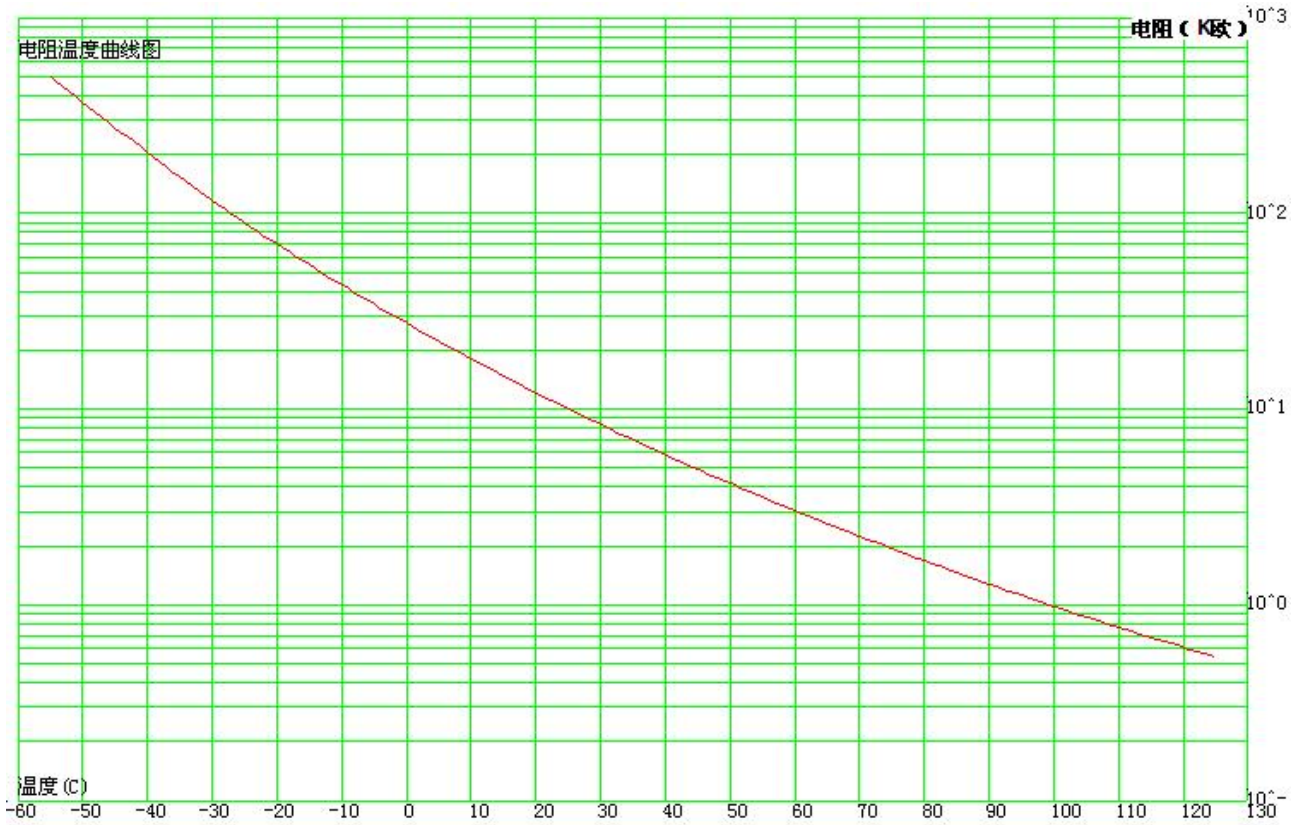
-26	91.046	94.096	97.147	3.242	-3.242	0.611	-0.611
-25	86.499	89.35	92.2	3.19	-3.19	0.606	-0.606
-24	82.213	84.877	87.542	3.139	-3.139	0.601	-0.601
-23	78.171	80.662	83.153	3.088	-3.088	0.595	-0.595
-22	74.357	76.687	79.016	3.037	-3.037	0.59	-0.59
-21	70.756	72.935	75.114	2.987	-2.987	0.584	-0.584
-20	67.355	69.394	71.432	2.937	-2.937	0.579	-0.579
-19	64.141	66.049	67.957	2.888	-2.888	0.573	-0.573
-18	61.103	62.888	64.673	2.839	-2.839	0.568	-0.568
-17	58.228	59.9	61.571	2.79	-2.79	0.562	-0.562
-16	55.508	57.073	58.638	2.741	-2.741	0.556	-0.556
-15	52.933	54.398	55.864	2.693	-2.693	0.55	-0.55
-14	50.494	51.866	53.239	2.646	-2.646	0.544	-0.544
-13	48.182	49.468	50.753	2.598	-2.598	0.539	-0.539
-12	45.991	47.196	48.4	2.551	-2.551	0.532	-0.532
-11	43.913	45.042	46.17	2.505	-2.505	0.526	-0.526
-10	41.942	43	44.057	2.458	-2.458	0.52	-0.52
-9	40.072	41.062	42.053	2.412	-2.412	0.514	-0.514
-8	38.295	39.224	40.152	2.366	-2.366	0.508	-0.508
-7	36.609	37.479	38.349	2.321	-2.321	0.501	-0.501
-6	35.006	35.822	36.637	2.276	-2.276	0.495	-0.495
-5	33.483	34.247	35.011	2.231	-2.231	0.489	-0.489
-4	32.035	32.751	33.468	2.186	-2.186	0.482	-0.482
-3	30.658	31.329	32.001	2.142	-2.142	0.475	-0.475
-2	29.349	29.977	30.606	2.097	-2.097	0.469	-0.469
-1	28.102	28.691	29.281	2.054	-2.054	0.462	-0.462
0	26.959	27.513	28.066	2.012	-2.012	0.455	-0.455
1	25.786	26.303	26.821	1.967	-1.967	0.448	-0.448
2	24.71	25.195	25.68	1.924	-1.924	0.441	-0.441
3	23.685	24.139	24.593	1.881	-1.881	0.434	-0.434
4	22.708	23.134	23.559	1.838	-1.838	0.427	-0.427
5	21.777	22.176	22.574	1.796	-1.796	0.42	-0.42
6	20.89	21.263	21.636	1.754	-1.754	0.413	-0.413
7	20.043	20.392	20.742	1.712	-1.712	0.406	-0.406

8	19.235	19.562	19.889	1.671	-1.671	0.399	-0.399
9	18.465	18.771	19.077	1.629	-1.629	0.391	-0.391
10	17.729	18.016	18.302	1.588	-1.588	0.384	-0.384
11	17.027	17.295	17.563	1.547	-1.547	0.376	-0.376
12	16.357	16.607	16.857	1.507	-1.507	0.369	-0.369
13	15.716	15.95	16.184	1.466	-1.466	0.361	-0.361
14	15.104	15.323	15.542	1.426	-1.426	0.354	-0.354
15	14.52	14.724	14.928	1.386	-1.386	0.346	-0.346
16	13.961	14.151	14.342	1.347	-1.347	0.338	-0.338
17	13.426	13.604	13.782	1.307	-1.307	0.33	-0.33
18	12.915	13.081	13.247	1.268	-1.268	0.322	-0.322
19	12.427	12.581	12.736	1.229	-1.229	0.314	-0.314
20	11.959	12.103	12.247	1.19	-1.19	0.306	-0.306
21	11.512	11.646	11.78	1.152	-1.152	0.298	-0.298
22	11.083	11.208	11.333	1.114	-1.114	0.289	-0.289
23	10.673	10.789	10.906	1.076	-1.076	0.281	-0.281
24	10.281	10.389	10.496	1.038	-1.038	0.271	-0.271
25	9.9	10	10.1	1	-1	0.262	-0.262
26	9.537	9.637	9.737	1.036	-1.036	0.281	-0.281
27	9.185	9.285	9.385	1.074	-1.074	0.291	-0.291
28	8.848	8.948	9.047	1.111	-1.111	0.302	-0.302
29	8.525	8.624	8.723	1.147	-1.147	0.314	-0.314
30	8.216	8.315	8.413	1.184	-1.184	0.326	-0.326
31	7.92	8.018	8.115	1.22	-1.22	0.338	-0.338
32	7.635	7.733	7.83	1.257	-1.257	0.35	-0.35
33	7.363	7.459	7.556	1.293	-1.293	0.362	-0.362
34	7.102	7.197	7.293	1.328	-1.328	0.374	-0.374
35	6.851	6.946	7.041	1.364	-1.364	0.386	-0.386
36	6.61	6.704	6.798	1.399	-1.399	0.399	-0.399
37	6.38	6.473	6.565	1.434	-1.434	0.411	-0.411
38	6.158	6.25	6.342	1.469	-1.469	0.424	-0.424
39	5.945	6.036	6.127	1.504	-1.504	0.436	-0.436
40	5.741	5.831	5.921	1.539	-1.539	0.449	-0.449
41	5.545	5.634	5.722	1.573	-1.573	0.462	-0.462

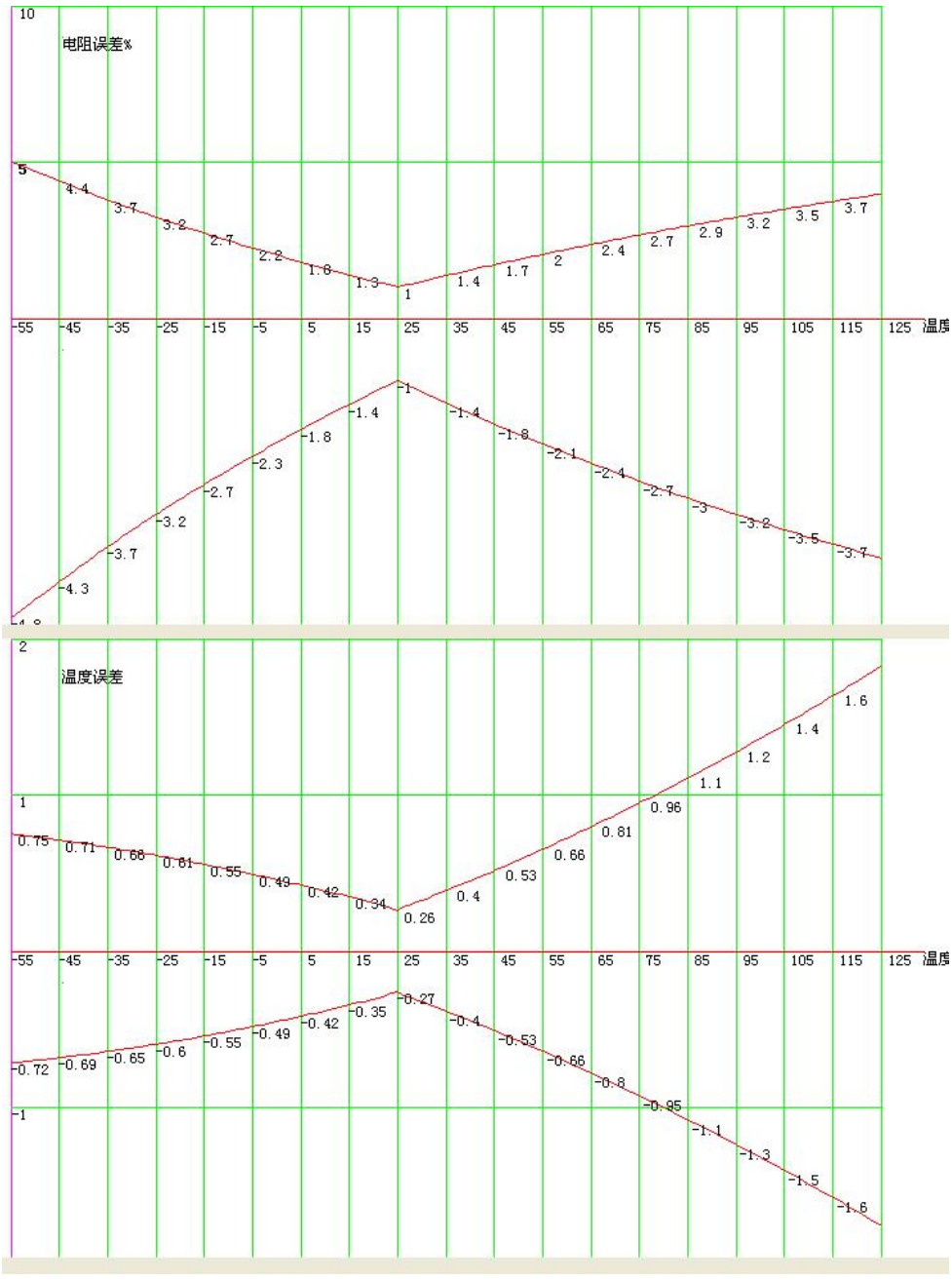
42	5.357	5.444	5.532	1.607	-1.607	0.475	-0.475
43	5.176	5.262	5.348	1.641	-1.641	0.488	-0.488
44	5.002	5.087	5.172	1.675	-1.675	0.501	-0.501
45	4.834	4.918	5.003	1.709	-1.709	0.514	-0.514
46	4.674	4.756	4.839	1.743	-1.743	0.527	-0.527
47	4.519	4.601	4.682	1.776	-1.776	0.54	-0.54
48	4.37	4.451	4.531	1.809	-1.809	0.553	-0.553
49	4.227	4.306	4.386	1.842	-1.842	0.567	-0.567
50	4.089	4.168	4.246	1.875	-1.875	0.58	-0.58
51	3.957	4.034	4.111	1.907	-1.907	0.594	-0.594
52	3.829	3.905	3.981	1.94	-1.94	0.607	-0.607
53	3.706	3.781	3.856	1.972	-1.972	0.621	-0.621
54	3.588	3.662	3.735	2.004	-2.004	0.634	-0.634
55	3.474	3.546	3.619	2.036	-2.036	0.648	-0.648
56	3.364	3.436	3.507	2.068	-2.068	0.662	-0.662
57	3.259	3.329	3.399	2.099	-2.099	0.676	-0.676
58	3.157	3.226	3.294	2.131	-2.131	0.69	-0.69
59	3.059	3.126	3.194	2.162	-2.162	0.704	-0.704
60	2.964	3.03	3.097	2.193	-2.193	0.718	-0.718
61	2.873	2.938	3.003	2.224	-2.224	0.732	-0.732
62	2.785	2.849	2.913	2.255	-2.255	0.747	-0.747
63	2.7	2.763	2.826	2.286	-2.286	0.761	-0.761
64	2.618	2.68	2.742	2.316	-2.316	0.776	-0.776
65	2.539	2.6	2.661	2.347	-2.347	0.79	-0.79
66	2.462	2.522	2.582	2.377	-2.377	0.805	-0.805
67	2.389	2.448	2.507	2.407	-2.407	0.819	-0.819
68	2.318	2.376	2.434	2.437	-2.437	0.834	-0.834
69	2.249	2.306	2.363	2.467	-2.467	0.849	-0.849
70	2.183	2.239	2.295	2.496	-2.496	0.864	-0.864
71	2.119	2.174	2.229	2.526	-2.526	0.878	-0.878
72	2.057	2.111	2.165	2.555	-2.555	0.893	-0.893
73	1.997	2.05	2.103	2.584	-2.584	0.909	-0.909
74	1.939	1.992	2.044	2.613	-2.613	0.924	-0.924
75	1.884	1.935	1.986	2.642	-2.642	0.939	-0.939

76	1.83	1.88	1.93	2.671	-2.671	0.954	-0.954
77	1.778	1.827	1.876	2.699	-2.699	0.97	-0.97
78	1.727	1.776	1.824	2.728	-2.728	0.985	-0.985
79	1.679	1.726	1.774	2.756	-2.756	1.001	-1.001
80	1.631	1.678	1.725	2.784	-2.784	1.016	-1.016
81	1.586	1.632	1.678	2.812	-2.812	1.032	-1.032
82	1.542	1.587	1.632	2.84	-2.84	1.047	-1.047
83	1.499	1.543	1.588	2.868	-2.868	1.063	-1.063
84	1.458	1.501	1.545	2.896	-2.896	1.079	-1.079
85	1.418	1.461	1.503	2.923	-2.923	1.095	-1.095
86	1.379	1.421	1.463	2.951	-2.951	1.111	-1.111
87	1.342	1.383	1.424	2.978	-2.978	1.127	-1.127
88	1.305	1.346	1.386	3.005	-3.005	1.143	-1.143
89	1.27	1.31	1.35	3.032	-3.032	1.16	-1.16
90	1.236	1.275	1.314	3.059	-3.059	1.176	-1.176
91	1.203	1.242	1.28	3.085	-3.085	1.192	-1.192
92	1.172	1.209	1.247	3.112	-3.112	1.209	-1.209
93	1.141	1.178	1.215	3.138	-3.138	1.225	-1.225
94	1.111	1.147	1.183	3.165	-3.165	1.242	-1.242
95	1.082	1.118	1.153	3.191	-3.191	1.259	-1.259
96	1.054	1.089	1.124	3.217	-3.217	1.275	-1.275
97	1.027	1.061	1.095	3.243	-3.243	1.292	-1.292
98	1	1.034	1.068	3.269	-3.269	1.309	-1.309
99	0.975	1.008	1.041	3.294	-3.294	1.326	-1.326
100	0.95	0.983	1.015	3.32	-3.32	1.343	-1.343
101	0.926	0.958	0.99	3.345	-3.345	1.36	-1.36
102	0.903	0.934	0.966	3.37	-3.37	1.377	-1.377
103	0.88	0.911	0.942	3.395	-3.395	1.395	-1.395
104	0.858	0.888	0.919	3.42	-3.42	1.412	-1.412
105	0.837	0.867	0.897	3.445	-3.445	1.429	-1.429
106	0.816	0.846	0.875	3.47	-3.47	1.447	-1.447
107	0.796	0.825	0.854	3.494	-3.494	1.464	-1.464
108	0.777	0.805	0.834	3.519	-3.519	1.482	-1.482
109	0.758	0.786	0.814	3.543	-3.543	1.5	-1.5

110	0.74	0.767	0.795	3.567	-3.567	1.518	-1.518
111	0.722	0.749	0.776	3.591	-3.591	1.535	-1.535
112	0.705	0.731	0.758	3.615	-3.615	1.553	-1.553
113	0.688	0.714	0.74	3.639	-3.639	1.571	-1.571
114	0.672	0.698	0.723	3.662	-3.662	1.59	-1.59
115	0.656	0.681	0.707	3.686	-3.686	1.608	-1.608
116	0.641	0.666	0.69	3.709	-3.709	1.626	-1.626
117	0.626	0.651	0.675	3.732	-3.732	1.644	-1.644
118	0.612	0.636	0.66	3.755	-3.755	1.663	-1.663
119	0.598	0.621	0.645	3.778	-3.778	1.681	-1.681
120	0.584	0.607	0.631	3.8	-3.8	1.7	-1.7
121	0.571	0.594	0.617	3.823	-3.823	1.719	-1.719
122	0.558	0.581	0.603	3.845	-3.845	1.737	-1.737
123	0.546	0.568	0.59	3.868	-3.868	1.756	-1.756
124	0.534	0.556	0.577	3.89	-3.89	1.775	-1.775
125	0.522	0.544	0.565	3.912	-3.912	1.794	-1.794



附表 II Attachment II


电阻误差%
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