编码(Coding)：JK/JXD2600808002

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 103H3435（A1）
版次 REV.NO：	C0
日期 DATE：	2026-08-08

南京时恒电子科技有限公司
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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	H	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℃的零功率电阻值 10kΩ (Zero Power Resistance at 25℃is 10kΩ)

④ H：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)

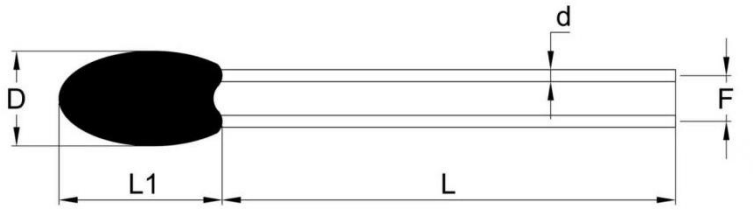
2、电气性能 Electrical Characteristics

No.	项目 Item	符号 Symbol	测试条件 Test conditions	单位 Unit	性能要求 Requirements
2.1	25℃的零功率电阻值 Zero Power Resistance at 25℃	R_{25}	Ta=25±0.01℃ (测试功率≤0.1mW 油槽中测试) (Test Power≤0.1mW，In the oil tank)	kΩ	10KΩ±3%
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℃ T_b=85±0.01℃	K	3435±1%
2.5	耗散系数 Thermal dissipation Coefficient	δ	静止空气中 In still air	mW/℃	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	/	/	℃	-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 103H3435(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±3% (Zero Power Resistance: R_{25}：10kΩ±3%)；
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℃，时间：2-3 秒 temperature: 245±5℃, 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℃，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±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℃±2℃，湿度：93±2%，时间：500 小时 Temp: 40℃±2℃, 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℃ 30min→25℃ 5min→125℃ 30min→25℃ 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℃±5℃ 时间：1000 小时 Temp: 125℃±5℃, 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℃，时间：1000 小时 Temp: -55℃, Time: 1000 hrs	无可见性损伤 No obvious damage $\|\Delta R_{25}/R_{25}\|\leqslant 2\%$

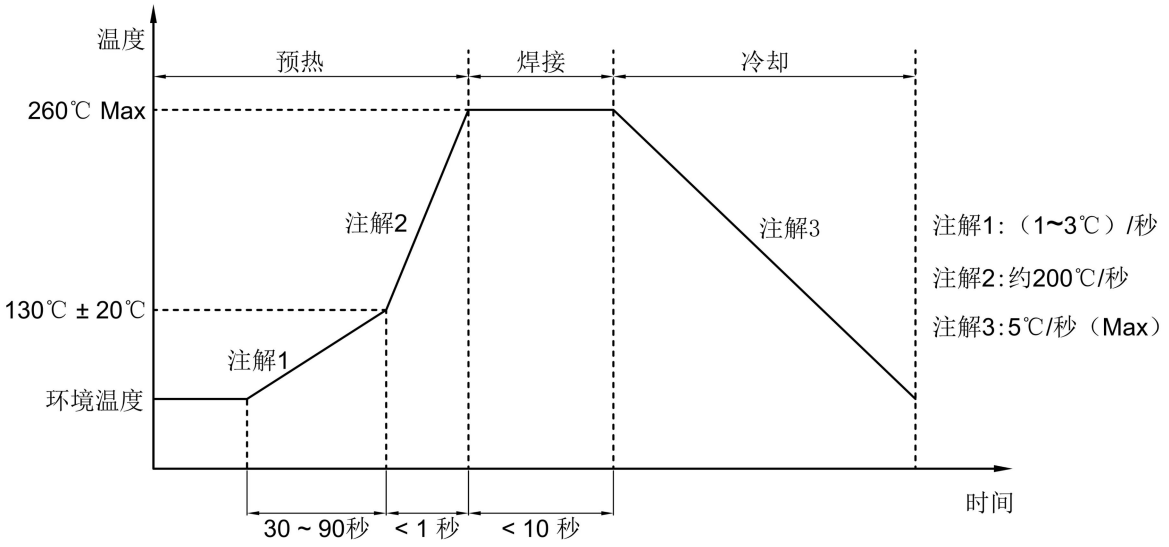
▲注： 1）稳态湿热及温度快速变化试验结束后，样品需在常温环境下静置 2 小时后再做性能测试；

▲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；

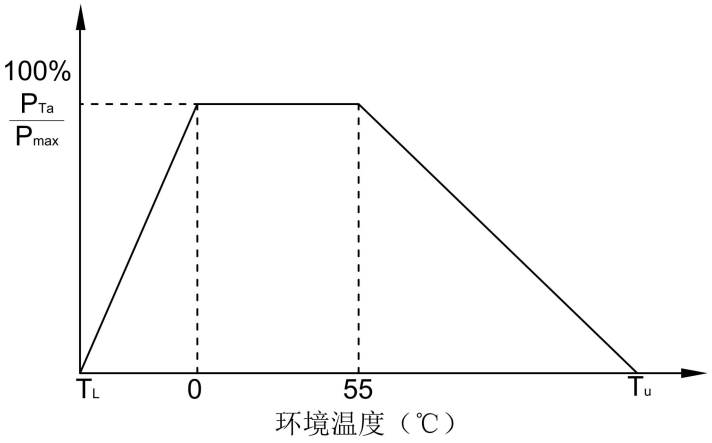
2）高温存储结束后，需随测试环境自然恢复至常温，再取出做性能测试。

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:±3% $B_{25/50}$=3380K B25/85=3435K 精度:±1%（P174-9A）

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	465.543	500.13	534.716	6.915	-6.915	1.034	-1.034
-54	439.596	471.961	504.325	6.857	-6.857	1.033	-1.033
-53	414.705	444.955	475.205	6.798	-6.798	1.031	-1.031
-52	390.943	419.191	447.439	6.738	-6.738	1.03	-1.03
-51	368.352	394.713	421.074	6.678	-6.678	1.028	-1.028
-50	346.946	371.534	396.121	6.617	-6.617	1.027	-1.027
-49	326.719	349.645	372.571	6.556	-6.556	1.026	-1.026
-48	307.647	329.02	350.393	6.496	-6.496	1.025	-1.025
-47	289.696	309.621	329.546	6.435	-6.435	1.023	-1.023
-46	272.827	291.402	309.977	6.374	-6.374	1.022	-1.022
-45	256.99	274.309	291.629	6.313	-6.313	1.021	-1.021
-44	242.135	258.287	274.44	6.253	-6.253	1.019	-1.019
-43	228.21	243.278	258.346	6.193	-6.193	1.018	-1.018
-42	215.163	229.223	243.284	6.134	-6.134	1.017	-1.017
-41	202.94	216.066	229.192	6.074	-6.074	1.015	-1.015
-40	191.492	203.75	216.007	6.016	-6.016	1.014	-1.014
-39	180.768	192.22	203.673	5.957	-5.957	1.013	-1.013
-38	170.723	181.427	192.131	5.899	-5.899	1.011	-1.011
-37	161.311	171.32	181.33	5.842	-5.842	1.009	-1.009
-36	152.489	161.854	171.218	5.785	-5.785	1.008	-1.008
-35	144.219	152.984	161.749	5.729	-5.729	1.006	-1.006
-34	136.462	144.67	152.877	5.673	-5.673	1.004	-1.004
-33	129.184	136.874	144.563	5.617	-5.617	1.003	-1.003
-32	122.352	129.559	136.767	5.562	-5.562	1.001	-1.001
-31	115.936	122.694	129.453	5.508	-5.508	0.999	-0.999
-30	109.906	116.247	122.587	5.454	-5.454	0.997	-0.997
-29	104.238	110.189	116.14	5.4	-5.4	0.995	-0.995

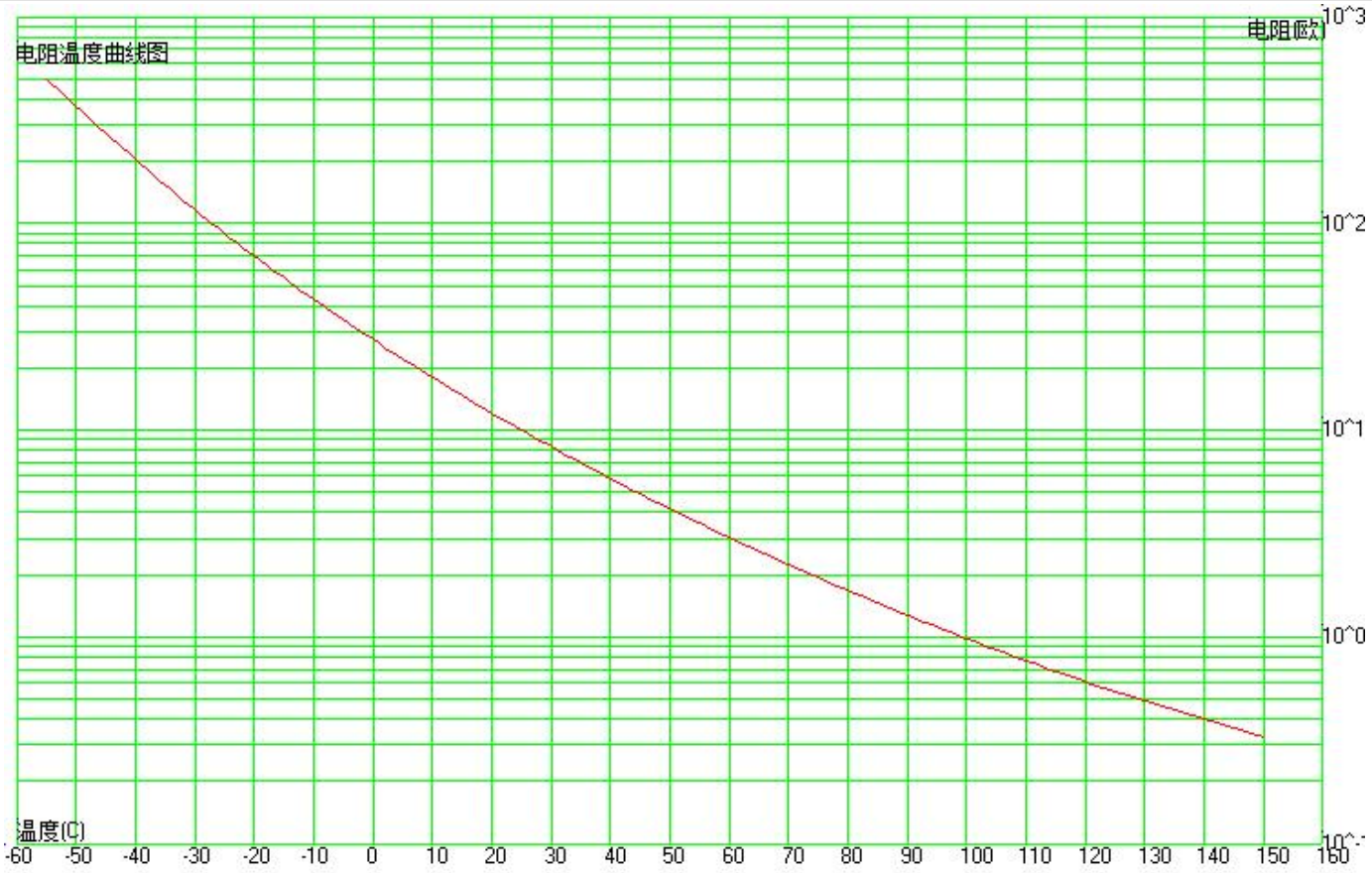
-28	98.906	104.494	110.082	5.347	-5.347	0.993	-0.993
-27	93.888	99.137	104.387	5.294	-5.294	0.99	-0.99
-26	89.163	94.096	99.03	5.242	-5.242	0.988	-0.988
-25	84.711	89.35	93.988	5.19	-5.19	0.986	-0.986
-24	80.515	84.877	89.24	5.139	-5.139	0.984	-0.984
-23	76.558	80.662	84.767	5.088	-5.088	0.981	-0.981
-22	72.823	76.687	80.55	5.037	-5.037	0.979	-0.979
-21	69.297	72.935	76.573	4.987	-4.987	0.976	-0.976
-20	65.967	69.394	72.821	4.937	-4.937	0.973	-0.973
-19	62.82	66.049	69.278	4.888	-4.888	0.971	-0.971
-18	59.845	62.888	65.931	4.839	-4.839	0.968	-0.968
-17	57.03	59.9	62.769	4.79	-4.79	0.965	-0.965
-16	54.366	57.073	59.78	4.742	-4.742	0.962	-0.962
-15	51.845	54.398	56.952	4.694	-4.694	0.959	-0.959
-14	49.456	51.866	54.276	4.646	-4.646	0.956	-0.956
-13	47.193	49.468	51.743	4.599	-4.599	0.953	-0.953
-12	45.047	47.196	49.344	4.552	-4.552	0.95	-0.95
-11	43.012	45.042	47.071	4.505	-4.505	0.947	-0.947
-10	41.082	43	44.917	4.458	-4.458	0.944	-0.944
-9	39.25	41.062	42.874	4.412	-4.412	0.941	-0.941
-8	37.511	39.224	40.937	4.367	-4.367	0.937	-0.937
-7	35.859	37.479	39.098	4.321	-4.321	0.934	-0.934
-6	34.29	35.822	37.353	4.276	-4.276	0.93	-0.93
-5	32.798	34.247	35.696	4.231	-4.231	0.927	-0.927
-4	31.38	32.751	34.123	4.186	-4.186	0.923	-0.923
-3	30.032	31.329	32.627	4.142	-4.142	0.92	-0.92
-2	28.749	29.977	31.206	4.098	-4.098	0.916	-0.916
-1	27.528	28.691	29.855	4.054	-4.054	0.912	-0.912
0	26.409	27.513	28.616	4.012	-4.012	0.907	-0.907
1	25.26	26.303	27.347	3.967	-3.967	0.905	-0.905
2	24.206	25.195	26.184	3.924	-3.924	0.901	-0.901
3	23.202	24.139	25.076	3.881	-3.881	0.897	-0.897
4	22.246	23.134	24.022	3.838	-3.838	0.893	-0.893
5	21.334	22.176	23.018	3.796	-3.796	0.889	-0.889

6	20.464	21.263	22.061	3.754	-3.754	0.885	-0.885
7	19.635	20.392	21.149	3.712	-3.712	0.881	-0.881
8	18.844	19.562	20.281	3.671	-3.671	0.876	-0.876
9	18.089	18.771	19.452	3.629	-3.629	0.872	-0.872
10	17.369	18.016	18.662	3.588	-3.588	0.868	-0.868
11	16.681	17.295	17.908	3.547	-3.547	0.864	-0.864
12	16.024	16.607	17.189	3.507	-3.507	0.859	-0.859
13	15.397	15.95	16.503	3.466	-3.466	0.855	-0.855
14	14.798	15.323	15.848	3.426	-3.426	0.85	-0.85
15	14.225	14.724	15.222	3.386	-3.386	0.846	-0.846
16	13.678	14.151	14.625	3.347	-3.347	0.841	-0.841
17	13.154	13.604	14.054	3.307	-3.307	0.836	-0.836
18	12.654	13.081	13.509	3.268	-3.268	0.831	-0.831
19	12.175	12.581	12.988	3.229	-3.229	0.826	-0.826
20	11.717	12.103	12.489	3.19	-3.19	0.821	-0.821
21	11.279	11.646	12.013	3.152	-3.152	0.816	-0.816
22	10.859	11.208	11.557	3.114	-3.114	0.81	-0.81
23	10.458	10.789	11.121	3.076	-3.076	0.803	-0.803
24	10.073	10.389	10.704	3.038	-3.038	0.793	-0.793
25	9.7	10	10.3	3	-3	0.788	-0.788
26	9.344	9.637	9.93	3.036	-3.036	0.825	-0.825
27	9	9.285	9.571	3.074	-3.074	0.835	-0.835
28	8.669	8.948	9.226	3.111	-3.111	0.848	-0.848
29	8.353	8.624	8.896	3.147	-3.147	0.862	-0.862
30	8.05	8.315	8.579	3.184	-3.184	0.877	-0.877
31	7.759	8.018	8.276	3.22	-3.22	0.892	-0.892
32	7.481	7.733	7.985	3.257	-3.257	0.907	-0.907
33	7.214	7.459	7.705	3.293	-3.293	0.923	-0.923
34	6.958	7.197	7.437	3.328	-3.328	0.938	-0.938
35	6.712	6.946	7.179	3.364	-3.364	0.954	-0.954
36	6.476	6.704	6.932	3.399	-3.399	0.97	-0.97
37	6.25	6.473	6.695	3.434	-3.434	0.985	-0.985
38	6.033	6.25	6.467	3.469	-3.469	1.001	-1.001
39	5.825	6.036	6.248	3.504	-3.504	1.017	-1.017

40	5.625	5.831	6.037	3.539	-3.539	1.033	-1.033
41	5.432	5.634	5.835	3.573	-3.573	1.05	-1.05
42	5.248	5.444	5.641	3.607	-3.607	1.066	-1.066
43	5.07	5.262	5.454	3.642	-3.642	1.082	-1.082
44	4.9	5.087	5.274	3.675	-3.675	1.099	-1.099
45	4.736	4.918	5.101	3.709	-3.709	1.115	-1.115
46	4.578	4.756	4.935	3.743	-3.743	1.132	-1.132
47	4.427	4.601	4.774	3.776	-3.776	1.149	-1.149
48	4.281	4.451	4.62	3.809	-3.809	1.166	-1.166
49	4.141	4.306	4.472	3.842	-3.842	1.182	-1.182
50	4.006	4.168	4.329	3.875	-3.875	1.199	-1.199
51	3.876	4.034	4.191	3.907	-3.907	1.216	-1.216
52	3.751	3.905	4.059	3.94	-3.94	1.234	-1.234
53	3.631	3.781	3.931	3.972	-3.972	1.251	-1.251
54	3.515	3.662	3.808	4.004	-4.004	1.268	-1.268
55	3.403	3.546	3.69	4.036	-4.036	1.285	-1.285
56	3.296	3.436	3.575	4.068	-4.068	1.303	-1.303
57	3.192	3.329	3.465	4.1	-4.1	1.32	-1.32
58	3.092	3.226	3.359	4.131	-4.131	1.338	-1.338
59	2.996	3.126	3.256	4.162	-4.162	1.356	-1.356
60	2.903	3.03	3.158	4.193	-4.193	1.374	-1.374
61	2.814	2.938	3.062	4.224	-4.224	1.391	-1.391
62	2.728	2.849	2.97	4.255	-4.255	1.409	-1.409
63	2.644	2.763	2.881	4.286	-4.286	1.427	-1.427
64	2.564	2.68	2.796	4.316	-4.316	1.445	-1.445
65	2.487	2.6	2.713	4.347	-4.347	1.464	-1.464
66	2.412	2.522	2.633	4.377	-4.377	1.482	-1.482
67	2.34	2.448	2.556	4.407	-4.407	1.5	-1.5
68	2.27	2.376	2.481	4.437	-4.437	1.519	-1.519
69	2.203	2.306	2.409	4.467	-4.467	1.537	-1.537
70	2.138	2.239	2.339	4.496	-4.496	1.556	-1.556
71	2.075	2.174	2.272	4.526	-4.526	1.575	-1.575
72	2.015	2.111	2.207	4.555	-4.555	1.593	-1.593
73	1.956	2.05	2.144	4.584	-4.584	1.612	-1.612

74	1.9	1.992	2.083	4.613	-4.613	1.631	-1.631
75	1.845	1.935	2.025	4.642	-4.642	1.65	-1.65
76	1.792	1.88	1.968	4.671	-4.671	1.669	-1.669
77	1.741	1.827	1.913	4.7	-4.7	1.688	-1.688
78	1.692	1.776	1.86	4.728	-4.728	1.708	-1.708
79	1.644	1.726	1.808	4.756	-4.756	1.727	-1.727
80	1.598	1.678	1.758	4.785	-4.785	1.746	-1.746
81	1.553	1.632	1.71	4.813	-4.813	1.766	-1.766
82	1.51	1.587	1.664	4.841	-4.841	1.785	-1.785
83	1.468	1.543	1.618	4.868	-4.868	1.805	-1.805
84	1.428	1.501	1.575	4.896	-4.896	1.825	-1.825
85	1.389	1.461	1.532	4.924	-4.924	1.845	-1.845
86	1.351	1.421	1.491	4.951	-4.951	1.865	-1.865
87	1.314	1.383	1.452	4.978	-4.978	1.885	-1.885
88	1.279	1.346	1.413	5.005	-5.005	1.905	-1.905
89	1.244	1.31	1.376	5.032	-5.032	1.925	-1.925
90	1.211	1.275	1.34	5.059	-5.059	1.945	-1.945
91	1.179	1.242	1.305	5.086	-5.086	1.965	-1.965
92	1.147	1.209	1.271	5.112	-5.112	1.986	-1.986
93	1.117	1.178	1.238	5.139	-5.139	2.006	-2.006
94	1.088	1.147	1.206	5.165	-5.165	2.027	-2.027
95	1.059	1.118	1.176	5.191	-5.191	2.048	-2.048
96	1.032	1.089	1.146	5.217	-5.217	2.068	-2.068
97	1.005	1.061	1.117	5.243	-5.243	2.089	-2.089
98	0.98	1.034	1.089	5.269	-5.269	2.11	-2.11
99	0.954	1.008	1.061	5.295	-5.295	2.131	-2.131
100	0.93	0.983	1.035	5.32	-5.32	2.153	-2.153
101	0.907	0.958	1.009	5.346	-5.346	2.174	-2.174
102	0.884	0.934	0.984	5.371	-5.371	2.195	-2.195
103	0.862	0.911	0.96	5.396	-5.396	2.216	-2.216
104	0.84	0.888	0.937	5.421	-5.421	2.238	-2.238
105	0.819	0.867	0.914	5.446	-5.446	2.26	-2.26
106	0.799	0.846	0.892	5.47	-5.47	2.281	-2.281
107	0.78	0.825	0.87	5.495	-5.495	2.303	-2.303

108	0.761	0.805	0.85	5.519	-5.519	2.325	-2.325
109	0.742	0.786	0.829	5.544	-5.544	2.347	-2.347
110	0.724	0.767	0.81	5.568	-5.568	2.369	-2.369
111	0.707	0.749	0.791	5.592	-5.592	2.391	-2.391
112	0.69	0.731	0.772	5.616	-5.616	2.413	-2.413
113	0.674	0.714	0.755	5.639	-5.639	2.436	-2.436
114	0.658	0.698	0.737	5.663	-5.663	2.458	-2.458
115	0.643	0.681	0.72	5.686	-5.686	2.481	-2.481
116	0.628	0.666	0.704	5.71	-5.71	2.503	-2.503
117	0.613	0.651	0.688	5.733	-5.733	2.526	-2.526
118	0.599	0.636	0.672	5.756	-5.756	2.549	-2.549
119	0.585	0.621	0.657	5.779	-5.779	2.572	-2.572
120	0.572	0.607	0.643	5.801	-5.801	2.595	-2.595
121	0.559	0.594	0.629	5.824	-5.824	2.618	-2.618
122	0.547	0.581	0.615	5.846	-5.846	2.641	-2.641
123	0.535	0.568	0.601	5.869	-5.869	2.665	-2.665
124	0.523	0.556	0.588	5.891	-5.891	2.688	-2.688
125	0.511	0.544	0.576	5.913	-5.913	2.712	-2.712



附表 II Attachment II

