编码(Coding)：JK/JXD260410002

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 503H3950(A1)
版次 REV.NO:	C0
日期 DATE:	2026-04-10

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	503	H	3950	(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)

③ 503：25°C的零功率电阻值 50kΩ (Zero Power Resistance at 25°Cis 50kΩ)

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 3950：$B_{25/50}$ 值 3950K ($B_{25/50}$:3950K)

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

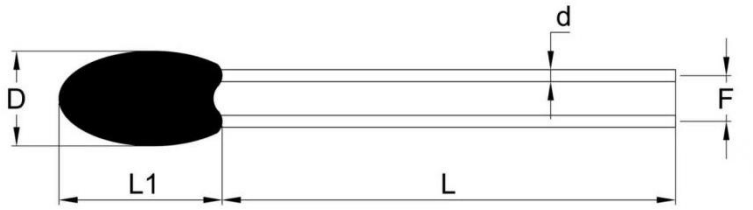
2、电气性能 Electrical Characteristics

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±0.01°C (测试功率≤0.1mW 油槽中测试) (Test Power≤0.1mW，In the oil tank)	kΩ	50kΩ±3%
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±0.01°C T_b=50±0.01°C	K	3950K±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 503H3950(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}：50kΩ±3% (Zero Power Resistance: R_{25}：50kΩ±3%)；
2) $B_{25/50}$ 数值：3950K±1% (B-value:$B_{25/50}$: 3950K±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 $\|\Delta R_{25}/R_{25}\|\leqslant 2\%$

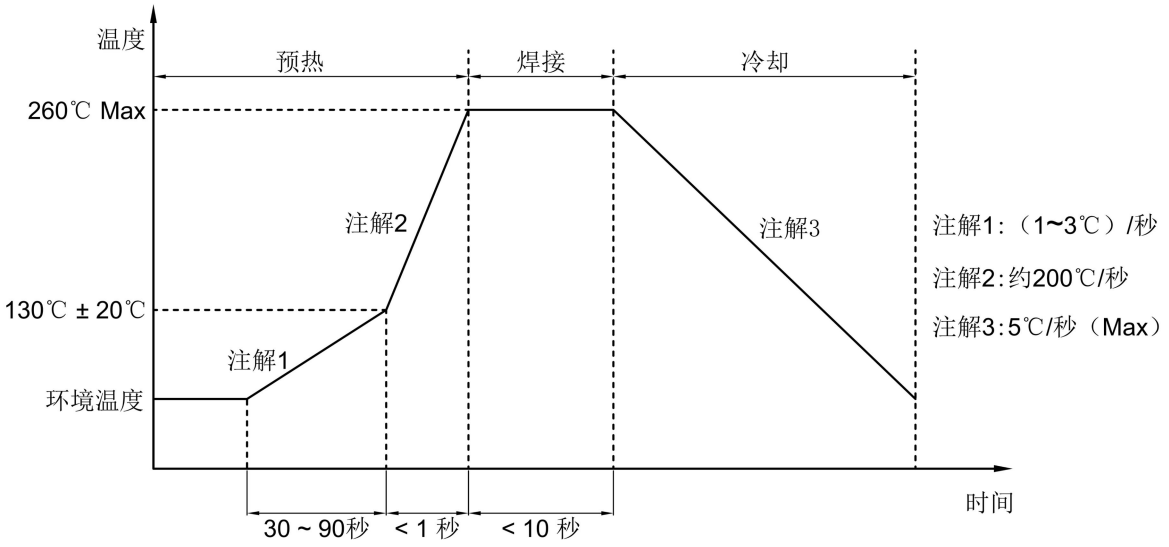
▲注： 1）稳态湿热及温度快速变化试验结束后，样品需在常温环境下静置 2 小时后再做性能测试；

▲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；

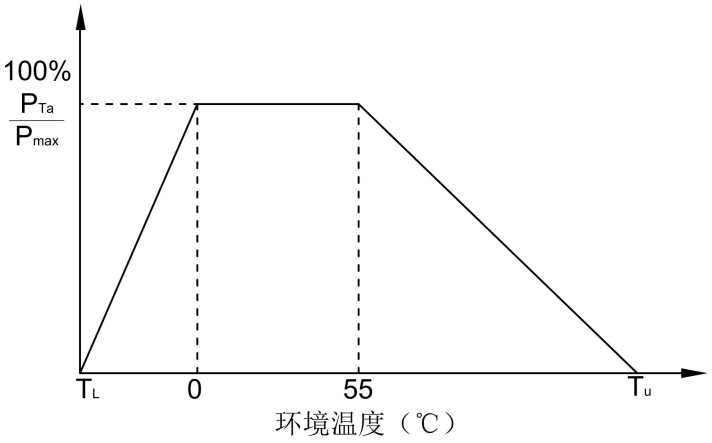
2）高温存储结束后，需随测试环境自然恢复至常温，再取出做性能测试。

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}=50kΩ 精度:±3% $B_{25/50}$=3950K 精度:±1% (P182-6B)

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	3786.98	4090	4393.01	7.408	-7.408	0.984	-0.984
-54	3482.37	3757.56	4032.75	7.323	-7.323	0.984	-0.984
-53	3217.02	3468.24	3719.46	7.243	-7.243	0.984	-0.984
-52	2983.28	3213.59	3443.91	7.166	-7.166	0.983	-0.983
-51	2775.27	2987.17	3199.07	7.093	-7.093	0.982	-0.982
-50	2588.46	2783.99	2979.51	7.023	-7.023	0.98	-0.98
-49	2419.35	2600.19	2781.02	6.954	-6.954	0.979	-0.979
-48	2265.17	2432.74	2600.31	6.887	-6.887	0.977	-0.977
-47	2123.75	2279.26	2434.77	6.822	-6.822	0.975	-0.975
-46	1993.36	2137.85	2282.33	6.758	-6.758	0.973	-0.973
-45	1872.61	2006.98	2141.35	6.695	-6.695	0.971	-0.971
-44	1760.38	1885.44	2010.5	6.632	-6.632	0.969	-0.969
-43	1655.78	1772.23	1888.67	6.57	-6.57	0.966	-0.966
-42	1558.04	1666.52	1774.99	6.509	-6.509	0.964	-0.964
-41	1466.55	1567.63	1668.71	6.447	-6.447	0.961	-0.961
-40	1380.79	1475	1569.2	6.386	-6.386	0.959	-0.959
-39	1300.31	1388.12	1475.93	6.325	-6.325	0.956	-0.956
-38	1224.72	1306.58	1388.45	6.265	-6.265	0.954	-0.954
-37	1153.7	1230.02	1306.34	6.204	-6.204	0.951	-0.951
-36	1086.93	1158.09	1229.25	6.144	-6.144	0.948	-0.948
-35	1024.16	1090.51	1156.86	6.084	-6.084	0.945	-0.945
-34	965.14	1027	1088.87	6.024	-6.024	0.943	-0.943
-33	909.642	967.336	1025.03	5.964	-5.964	0.94	-0.94
-32	857.46	911.266	965.071	5.904	-5.904	0.937	-0.937
-31	808.403	858.586	908.769	5.844	-5.844	0.934	-0.934
-30	762.287	809.097	855.907	5.785	-5.785	0.932	-0.932
-29	718.943	762.611	806.28	5.726	-5.726	0.929	-0.929
-28	678.208	718.952	759.696	5.667	-5.667	0.926	-0.926
-27	639.929	677.951	715.973	5.608	-5.608	0.923	-0.923

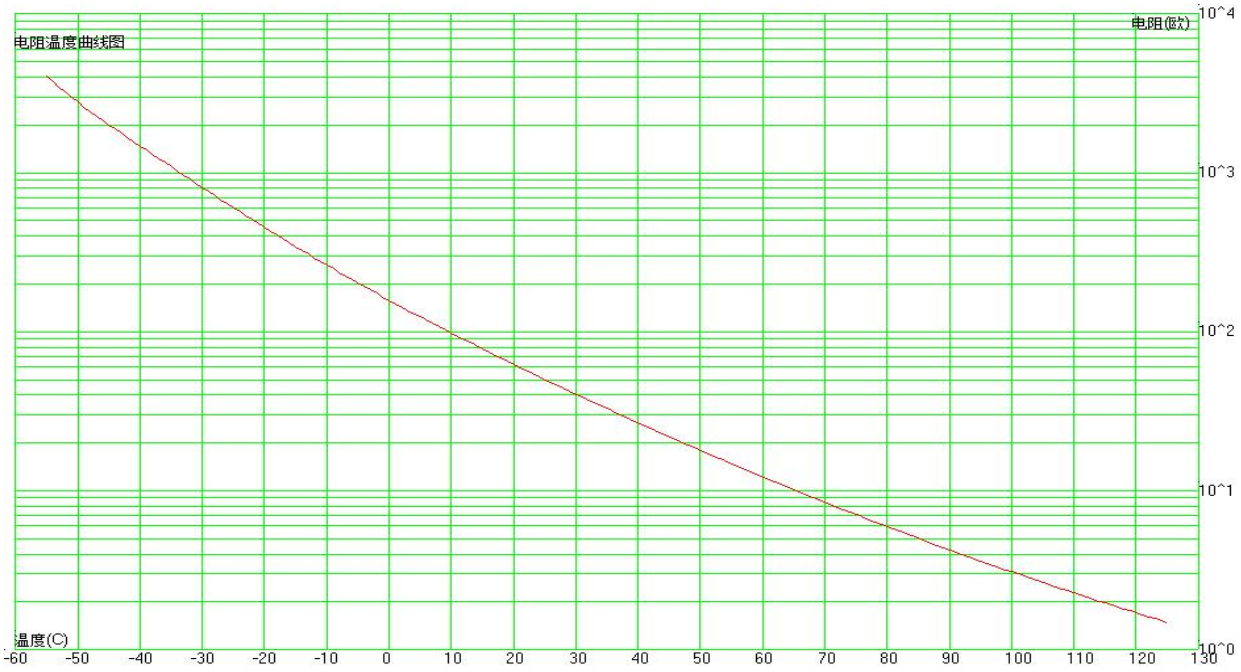
-26	603.962	639.45	674.939	5.549	-5.549	0.92	-0.92
-25	570.169	603.3	636.43	5.491	-5.491	0.917	-0.917
-24	538.419	569.356	600.293	5.433	-5.433	0.914	-0.914
-23	508.59	537.485	566.38	5.375	-5.375	0.911	-0.911
-22	480.565	507.56	534.555	5.318	-5.318	0.908	-0.908
-21	454.232	479.459	504.686	5.261	-5.261	0.905	-0.905
-20	429.487	453.069	476.651	5.204	-5.204	0.902	-0.902
-19	406.231	428.282	450.333	5.148	-5.148	0.899	-0.899
-18	384.372	404.998	425.623	5.092	-5.092	0.895	-0.895
-17	363.822	383.12	402.418	5.037	-5.037	0.892	-0.892
-16	344.498	362.56	380.622	4.981	-4.981	0.889	-0.889
-15	326.322	343.233	360.144	4.927	-4.927	0.885	-0.885
-14	309.221	325.06	340.899	4.872	-4.872	0.882	-0.882
-13	293.128	307.968	322.807	4.818	-4.818	0.878	-0.878
-12	277.978	291.886	305.794	4.764	-4.764	0.875	-0.875
-11	263.711	276.75	289.79	4.711	-4.711	0.871	-0.871
-10	250.27	262.5	274.729	4.658	-4.658	0.867	-0.867
-9	237.604	249.077	260.55	4.606	-4.606	0.864	-0.864
-8	225.663	236.43	247.197	4.554	-4.554	0.86	-0.86
-7	214.401	224.509	234.617	4.502	-4.502	0.856	-0.856
-6	203.775	213.267	222.759	4.45	-4.45	0.852	-0.852
-5	193.745	202.661	211.578	4.399	-4.399	0.848	-0.848
-4	184.273	192.652	201.031	4.349	-4.349	0.844	-0.844
-3	175.326	183.201	191.077	4.298	-4.298	0.839	-0.839
-2	166.869	174.274	181.679	4.248	-4.248	0.835	-0.835
-1	158.874	165.838	172.802	4.199	-4.199	0.831	-0.831
0	151.356	157.91	164.463	4.15	-4.15	0.826	-0.826
1	144.153	150.318	156.482	4.1	-4.1	0.822	-0.822
2	137.377	143.179	148.982	4.052	-4.052	0.817	-0.817
3	130.96	136.422	141.884	4.003	-4.003	0.812	-0.812
4	124.879	130.023	135.166	3.955	-3.955	0.808	-0.808
5	119.115	123.959	128.804	3.908	-3.908	0.803	-0.803
6	113.649	118.213	122.776	3.86	-3.86	0.798	-0.798
7	108.464	112.764	117.064	3.813	-3.813	0.793	-0.793
8	103.542	107.595	111.647	3.766	-3.766	0.787	-0.787
9	98.87	102.69	106.51	3.719	-3.719	0.782	-0.782

10	94.432	98.034	101.635	3.673	-3.673	0.777	-0.777
11	90.216	93.612	97.007	3.627	-3.627	0.771	-0.771
12	86.209	89.411	92.613	3.581	-3.581	0.766	-0.766
13	82.398	85.419	88.439	3.535	-3.535	0.76	-0.76
14	78.775	81.623	84.472	3.49	-3.49	0.754	-0.754
15	75.327	78.014	80.702	3.444	-3.444	0.748	-0.748
16	72.045	74.581	77.116	3.399	-3.399	0.742	-0.742
17	68.921	71.314	73.706	3.355	-3.355	0.735	-0.735
18	65.946	68.204	70.462	3.31	-3.31	0.728	-0.728
19	63.112	65.243	67.374	3.266	-3.266	0.721	-0.721
20	60.411	62.422	64.434	3.221	-3.221	0.713	-0.713
21	57.837	59.736	61.634	3.177	-3.177	0.704	-0.704
22	55.384	57.175	58.967	3.134	-3.134	0.694	-0.694
23	53.043	54.735	56.427	3.09	-3.09	0.678	-0.678
24	50.811	52.408	54.005	3.047	-3.047	0.645	-0.645
25	48.5	50	51.5	3	-3	0.639	-0.639
26	46.612	48.073	49.534	3.039	-3.039	0.776	-0.776
27	44.634	46.054	47.473	3.082	-3.082	0.754	-0.754
28	42.748	44.127	45.506	3.124	-3.124	0.757	-0.757
29	40.948	42.288	43.627	3.167	-3.167	0.766	-0.766
30	39.231	40.532	41.833	3.209	-3.209	0.777	-0.777
31	37.591	38.855	40.119	3.252	-3.252	0.789	-0.789
32	36.027	37.254	38.481	3.294	-3.294	0.802	-0.802
33	34.533	35.724	36.916	3.336	-3.336	0.815	-0.815
34	33.106	34.263	35.421	3.377	-3.377	0.828	-0.828
35	31.743	32.867	33.991	3.419	-3.419	0.842	-0.842
36	30.441	31.532	32.624	3.461	-3.461	0.856	-0.856
37	29.197	30.257	31.317	3.502	-3.502	0.87	-0.87
38	28.009	29.037	30.066	3.543	-3.543	0.884	-0.884
39	26.873	27.872	28.871	3.584	-3.584	0.899	-0.899
40	25.787	26.757	27.727	3.625	-3.625	0.913	-0.913
41	24.748	25.69	26.632	3.665	-3.665	0.928	-0.928
42	23.756	24.67	25.584	3.706	-3.706	0.942	-0.942
43	22.806	23.694	24.582	3.746	-3.746	0.957	-0.957
44	21.898	22.76	23.622	3.787	-3.787	0.972	-0.972
45	21.03	21.867	22.704	3.827	-3.827	0.987	-0.987

46	20.199	21.011	21.824	3.867	-3.867	1.002	-1.002
47	19.404	20.193	20.981	3.906	-3.906	1.017	-1.017
48	18.643	19.409	20.175	3.946	-3.946	1.033	-1.033
49	17.914	18.658	19.402	3.985	-3.985	1.048	-1.048
50	17.217	17.94	18.662	4.025	-4.025	1.064	-1.064
51	16.55	17.251	17.952	4.064	-4.064	1.079	-1.079
52	15.911	16.592	17.273	4.103	-4.103	1.095	-1.095
53	15.299	15.96	16.621	4.142	-4.142	1.111	-1.111
54	14.713	15.355	15.997	4.18	-4.18	1.126	-1.126
55	14.152	14.775	15.399	4.219	-4.219	1.142	-1.142
56	13.614	14.219	14.825	4.257	-4.257	1.158	-1.158
57	13.099	13.687	14.275	4.295	-4.295	1.174	-1.174
58	12.605	13.176	13.747	4.333	-4.333	1.191	-1.191
59	12.132	12.687	13.241	4.371	-4.371	1.207	-1.207
60	11.679	12.217	12.756	4.409	-4.409	1.223	-1.223
61	11.244	11.767	12.291	4.447	-4.447	1.24	-1.24
62	10.827	11.336	11.844	4.484	-4.484	1.256	-1.256
63	10.428	10.921	11.415	4.521	-4.521	1.273	-1.273
64	10.044	10.524	11.004	4.558	-4.558	1.29	-1.29
65	9.677	10.143	10.609	4.595	-4.595	1.306	-1.306
66	9.324	9.777	10.23	4.632	-4.632	1.323	-1.323
67	8.986	9.426	9.866	4.668	-4.668	1.34	-1.34
68	8.662	9.089	9.517	4.705	-4.705	1.357	-1.357
69	8.35	8.766	9.181	4.741	-4.741	1.375	-1.375
70	8.051	8.455	8.859	4.777	-4.777	1.392	-1.392
71	7.764	8.157	8.55	4.813	-4.813	1.409	-1.409
72	7.489	7.871	8.252	4.849	-4.849	1.427	-1.427
73	7.224	7.595	7.966	4.885	-4.885	1.444	-1.444
74	6.97	7.331	7.692	4.92	-4.92	1.462	-1.462
75	6.726	7.077	7.428	4.955	-4.955	1.479	-1.479
76	6.492	6.833	7.174	4.99	-4.99	1.497	-1.497
77	6.267	6.599	6.93	5.025	-5.025	1.515	-1.515
78	6.051	6.373	6.696	5.06	-5.06	1.533	-1.533
79	5.843	6.156	6.47	5.095	-5.095	1.551	-1.551
80	5.643	5.948	6.253	5.129	-5.129	1.569	-1.569
81	5.451	5.748	6.044	5.164	-5.164	1.587	-1.587

82	5.266	5.555	5.844	5.198	-5.198	1.606	-1.606
83	5.089	5.37	5.65	5.232	-5.232	1.624	-1.624
84	4.918	5.191	5.465	5.265	-5.265	1.643	-1.643
85	4.753	5.02	5.286	5.299	-5.299	1.661	-1.661
86	4.595	4.854	5.113	5.333	-5.333	1.68	-1.68
87	4.443	4.695	4.947	5.366	-5.366	1.699	-1.699
88	4.297	4.542	4.788	5.399	-5.399	1.717	-1.717
89	4.156	4.395	4.634	5.432	-5.432	1.736	-1.736
90	4.021	4.253	4.485	5.465	-5.465	1.755	-1.755
91	3.89	4.116	4.343	5.498	-5.498	1.774	-1.774
92	3.764	3.985	4.205	5.53	-5.53	1.794	-1.794
93	3.643	3.858	4.072	5.563	-5.563	1.813	-1.813
94	3.527	3.736	3.945	5.595	-5.595	1.832	-1.832
95	3.414	3.618	3.821	5.627	-5.627	1.852	-1.852
96	3.306	3.504	3.703	5.659	-5.659	1.871	-1.871
97	3.202	3.395	3.588	5.691	-5.691	1.891	-1.891
98	3.101	3.289	3.478	5.722	-5.722	1.911	-1.911
99	3.004	3.188	3.371	5.754	-5.754	1.93	-1.93
100	2.911	3.09	3.268	5.785	-5.785	1.95	-1.95
101	2.821	2.995	3.169	5.816	-5.816	1.97	-1.97
102	2.734	2.904	3.073	5.847	-5.847	1.99	-1.99
103	2.65	2.815	2.981	5.878	-5.878	2.01	-2.01
104	2.569	2.73	2.892	5.909	-5.909	2.031	-2.031
105	2.491	2.648	2.806	5.939	-5.939	2.051	-2.051
106	2.416	2.569	2.722	5.97	-5.97	2.071	-2.071
107	2.343	2.493	2.642	6	-6	2.092	-2.092
108	2.273	2.419	2.565	6.03	-6.03	2.112	-2.112
109	2.205	2.347	2.49	6.06	-6.06	2.133	-2.133
110	2.14	2.278	2.417	6.09	-6.09	2.154	-2.154
111	2.076	2.212	2.347	6.119	-6.119	2.174	-2.174
112	2.015	2.147	2.28	6.149	-6.149	2.195	-2.195
113	1.956	2.085	2.214	6.178	-6.178	2.216	-2.216
114	1.899	2.025	2.151	6.208	-6.208	2.237	-2.237
115	1.844	1.967	2.09	6.237	-6.237	2.258	-2.258
116	1.791	1.911	2.031	6.266	-6.266	2.28	-2.28
117	1.74	1.857	1.974	6.295	-6.295	2.301	-2.301

118	1.69	1.804	1.918	6.323	-6.323	2.322	-2.322
119	1.642	1.753	1.865	6.352	-6.352	2.344	-2.344
120	1.595	1.704	1.813	6.38	-6.38	2.365	-2.365
121	1.551	1.657	1.763	6.409	-6.409	2.387	-2.387
122	1.507	1.611	1.714	6.437	-6.437	2.409	-2.409
123	1.465	1.566	1.668	6.465	-6.465	2.431	-2.431
124	1.424	1.523	1.622	6.493	-6.493	2.452	-2.452
125	1.385	1.482	1.578	6.521	-6.521	2.474	-2.474



附表 II Attachment II

