



南京时恒电子科技有限公司

## 规格承认书

### APPROVAL SHEET

客户名称:

CUSTOMER \_\_\_\_\_

产品名称:

PART NAME

MF58 玻壳测温型 NTC 热敏电阻器

产品规格:

PART NUMBER

MF58-502 H 3470(UL:E240991)

日期:

DATE

2017年07月20日

确 认

CONFIRM

客户

品保部: \_\_\_\_\_

制造部: \_\_\_\_\_

工程部: \_\_\_\_\_

供货商/制造商

规格书制作: 鞠晓丽

技术部审核: \_\_\_\_\_

品质部审核: \_\_\_\_\_

生产部审核: \_\_\_\_\_

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南京时恒电子科技有限公司

# MF58 玻壳测温型 NTC 热敏电阻器

型号: MF58-502H3470

本规格书提供了南京时恒电子科技有限公司生产的 MF58 系列 NTC 热敏电阻的结构尺寸、产品性能、试验条件、使用要求的描述, 敬请贵司确认。  
对本规格书产生疑义时, 请速与我们联系 (025-52121868), 若无疑义请确认回传, 若无回传, 我司将视为默认。  
贵公司改变使用用途, 作用方法时, 请与我们联系。

客户名称:		
客户确认	确认:	时间:
	审核:	时间:

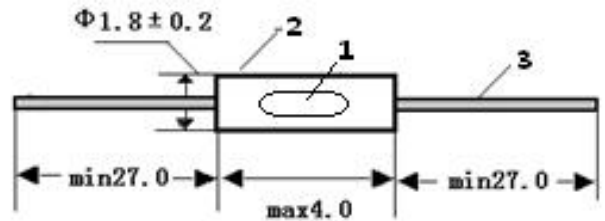
## 1. 电气性能

	项目	符号	测试条件	单位	性能要求
1.1	25℃的零功率电阻值	R <sub>25</sub>	T <sub>a</sub> =25±0.05℃ 测试功率≤0.1mw	KΩ	5KΩ±3%
1.2	B 值	B <sub>25/50</sub>	$B = [(T_a \times T_b) / (T_b - T_a)] \times \ln(R_a / R_b)$ T <sub>b</sub> =50℃±0.05℃	K	3470±1%
1.3	耗散系数	δ	静止空气中	mW/℃	≥2
1.4	时间常数	τ	静止空气中	sec	≤20
1.5	耐电压	/	1500V/AC 1min	/	无击穿或飞弧
1.6	绝缘电阻	/	500V/DC 1min	MΩ	≥500
1.7	工作温度范围	/	/	℃	-55~250
1.8	最大额定功率	P <sub>max</sub>	/	mW	50
1.9	阻温特性	/	/	/	见附表 1
1.10	阻值误差	/	/	/	见附表 2

## 2. 可靠性

项目	测试条件及方法	技术要求
2.1 引出端强度	固定电阻端, 拉力: 10±1 N, 时间: 10±1 秒	无可见性损伤 R <sub>25</sub> ΔR/R ≤ ±2%
2.2 可焊性	温度 245±5℃ 时间 2-3 秒	着锡面积 ≥95%
2.3 耐焊接热	锡锅温度: 260±5℃, 浸入深度距电阻体 6mm, 时间 5±1 秒	R <sub>25</sub> ΔR/R ≤ ±2%
2.4 稳态湿热	温度: 40℃±2℃, 湿度: 93±2%, 时间: 500 小时	R <sub>25</sub> ΔR/R ≤ ±2%
2.5 温度快速变化	-55℃30min→25℃5min→250℃30min→25℃5min, 反复 5 次	R <sub>25</sub> ΔR/R ≤ ±2%
2.6 高温储存	温度: 250℃±5℃, 时间: 1000 小时	R <sub>25</sub> ΔR/R ≤ ±2%
2.7 低温储存	温度: -55℃±5℃, 时间: 1000 小时	R <sub>25</sub> ΔR/R ≤ ±2%

## 4. 外形尺寸: (单位: mm)



序号	名称	材料规格	数量	备注
1	元件	NTC 热敏电阻	1	
2	外壳	玻璃	1	
3	导线	Φ0.5±0.05 镀锡钢线	2	

## 5. 产品型号说明

MF58 502 H 3470

① ② ③ ④

- ① MF58: 玻壳测温型 NTC 热敏电阻
- ② 502: 25℃的零功率电阻值 5KΩ
- ③ H: 阻值精度代码 F-±1% G-±2% H-±3% J-±5%
- ④ 3470: B<sub>25/50</sub> 值 3470K

## 6. 认证

- 6.1 质量管理体系认证 ISO9001:2008 (01115Q20270R5M)  
ISO/TS16949: 2009 (0192416)
- 6.2 环境管理体系认证 ISO14001:2004 (01113E20060R2M)
- 6.3 环保检测报告 ROHS
- 6.4 产品 CQC 认证 (CQC09001033986)
- 6.5 江苏省高新技术产品认证 (150115G0377N)
- 6.6 安规认证 UL 1434 认证 (File # E240991)

## 3. 使用注意事项

- 3.1 本产品的用途: 温度测量与控制;
- 3.2 避免流过热敏电阻芯片的电流引起元件自身发热而产生测量误差;
- 3.3 烙铁焊接时, 焊接处距玻壳端距离至少 2mm, 焊接温度应低于 360℃, 焊接时间 < 3ses;
- 3.4 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;
- 3.5 储存温度: -10℃ ~ 40℃; 储存湿度: ≤75% RH;
- 3.6 避免存放在具有腐蚀性气体及光照的环境下;
- 3.7 包装打开后需重新密封保存。

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附表:1

## 南京时恒阻温特性表

R25=5K $\Omega$  精度: $\pm 3\%$  B25/50=3470K B25/85=3530K 精度: $\pm 1\%$ (SH-27A)

温度( $^{\circ}\text{C}$ )	电阻(K $\Omega$ )			电阻精度(%)		温度精度( $^{\circ}\text{C}$ )	
	最小值	中心值	最大值	$\Delta R$	$-\Delta R$	$\Delta T$	$-\Delta T$
-55	1477.390	1613.660	1760.910	9.125	-8.444	0.924	-0.855
-54	970.073	1055.050	1146.450	8.662	-8.054	0.939	-0.873
-53	673.681	730.006	790.328	8.263	-7.715	0.954	-0.891
-52	491.069	530.429	572.428	7.917	-7.420	0.969	-0.908
-51	373.227	402.026	432.657	7.619	-7.163	0.983	-0.924
-50	294.045	315.972	339.229	7.360	-6.939	0.996	-0.939
-49	238.919	256.198	274.479	7.135	-6.744	1.008	-0.953
-48	199.323	213.347	228.152	6.939	-6.573	1.019	-0.965
-47	170.079	181.754	194.055	6.768	-6.423	1.028	-0.976
-46	147.935	157.867	168.315	6.617	-6.291	1.036	-0.985
-45	130.784	139.391	148.431	6.485	-6.174	1.043	-0.993
-44	117.221	124.798	132.744	6.367	-6.071	1.049	-1.000
-43	106.287	113.045	120.124	6.262	-5.978	1.054	-1.006
-42	97.312	103.407	109.785	6.167	-5.894	1.057	-1.010
-41	89.818	95.366	101.166	6.081	-5.818	1.060	-1.014
-40	83.459	88.550	93.865	6.003	-5.748	1.061	-1.016
-39	77.982	82.682	87.585	5.930	-5.683	1.062	-1.018
-38	73.197	77.558	82.105	5.862	-5.623	1.062	-1.019
-37	68.960	73.025	77.260	5.799	-5.566	1.062	-1.019
-36	65.165	68.966	72.924	5.738	-5.512	1.061	-1.019
-35	61.726	65.291	69.000	5.680	-5.460	1.059	-1.018
-34	58.581	61.932	65.416	5.625	-5.410	1.057	-1.017
-33	55.681	58.836	62.113	5.570	-5.362	1.055	-1.016
-32	52.986	55.960	59.048	5.517	-5.314	1.053	-1.014
-31	50.468	53.274	56.186	5.466	-5.268	1.050	-1.012
-30	48.102	50.753	53.501	5.414	-5.222	1.048	-1.010
-29	45.871	48.376	50.971	5.364	-5.176	1.045	-1.008
-28	43.761	46.128	48.579	5.314	-5.131	1.042	-1.006
-27	41.759	43.997	46.313	5.264	-5.086	1.039	-1.004
-26	39.857	41.974	44.163	5.214	-5.041	1.036	-1.001
-25	38.048	40.050	42.118	5.165	-4.997	1.033	-0.999
-24	36.325	38.218	40.174	5.116	-4.952	1.030	-0.997
-23	34.684	36.474	38.323	5.067	-4.908	1.026	-0.994
-22	33.120	34.813	36.560	5.018	-4.864	1.023	-0.992
-21	31.629	33.231	34.882	4.969	-4.819	1.020	-0.989
-20	30.208	31.723	33.284	4.920	-4.775	1.017	-0.987
-19	28.854	30.287	31.763	4.872	-4.731	1.014	-0.985
-18	27.564	28.920	30.315	4.823	-4.687	1.011	-0.982
-17	26.336	27.618	28.937	4.775	-4.643	1.008	-0.980

-16	25.166	26.380	27.627	4.727	-4.599	1.005	-0.978
-15	24.053	25.201	26.380	4.679	-4.556	1.001	-0.975
-14	22.993	24.080	25.195	4.631	-4.512	0.998	-0.973
-13	21.985	23.013	24.069	4.584	-4.469	0.995	-0.970
-12	21.026	22.000	22.998	4.537	-4.426	0.992	-0.968
-11	20.114	21.036	21.980	4.490	-4.383	0.989	-0.965
-10	19.246	20.120	21.014	4.444	-4.341	0.986	-0.963
-9	18.421	19.249	20.095	4.397	-4.298	0.982	-0.960
-8	17.636	18.421	19.222	4.351	-4.256	0.979	-0.957
-7	16.890	17.633	18.393	4.306	-4.214	0.976	-0.955
-6	16.180	16.885	17.605	4.261	-4.173	0.972	-0.952
-5	15.505	16.174	16.856	4.216	-4.132	0.969	-0.949
-4	14.863	15.497	16.143	4.171	-4.091	0.965	-0.946
-3	14.251	14.853	15.466	4.127	-4.050	0.961	-0.943
-2	13.669	14.240	14.822	4.083	-4.009	0.958	-0.940
-1	13.115	13.657	14.209	4.040	-3.969	0.954	-0.937
0	12.739	13.262	13.793	4.009	-3.941	0.941	-0.925
1	12.084	12.573	13.070	3.954	-3.890	0.946	-0.930
2	11.604	12.069	12.541	3.911	-3.851	0.942	-0.927
3	11.147	11.589	12.037	3.869	-3.812	0.937	-0.924
4	10.711	11.131	11.557	3.827	-3.773	0.933	-0.920
5	10.294	10.693	11.098	3.786	-3.734	0.929	-0.916
6	9.896	10.276	10.661	3.744	-3.696	0.924	-0.912
7	9.516	9.878	10.243	3.703	-3.658	0.920	-0.908
8	9.153	9.497	9.845	3.662	-3.620	0.915	-0.904
9	8.805	9.133	9.463	3.622	-3.582	0.910	-0.900
10	8.653	8.973	9.296	3.604	-3.565	0.877	-0.868
11	8.155	8.451	8.751	3.542	-3.507	0.900	-0.891
12	7.850	8.132	8.417	3.502	-3.470	0.895	-0.887
13	7.558	7.827	8.098	3.462	-3.433	0.889	-0.882
14	7.278	7.534	7.792	3.423	-3.396	0.884	-0.877
15	7.010	7.254	7.499	3.384	-3.360	0.878	-0.872
16	6.753	6.985	7.219	3.345	-3.323	0.873	-0.867
17	6.506	6.727	6.949	3.306	-3.287	0.867	-0.862
18	6.269	6.480	6.691	3.267	-3.251	0.861	-0.857
19	6.041	6.242	6.443	3.228	-3.215	0.855	-0.851
20	5.822	6.014	6.206	3.190	-3.178	0.849	-0.846
21	5.612	5.794	5.977	3.152	-3.143	0.843	-0.840
22	5.410	5.584	5.758	3.113	-3.107	0.836	-0.834
23	5.216	5.381	5.547	3.075	-3.071	0.830	-0.829
24	5.029	5.187	5.344	3.037	-3.035	0.823	-0.823
25	4.850	5.000	5.150	3.000	-3.000	0.819	-0.819
26	4.673	4.819	4.966	3.037	-3.035	0.831	-0.830
27	4.504	4.646	4.789	3.075	-3.071	0.845	-0.843
28	4.340	4.480	4.619	3.113	-3.106	0.859	-0.857

29	4.184	4.319	4.455	3.150	-3.141	0.873	-0.870
30	4.033	4.165	4.298	3.188	-3.176	0.887	-0.884
31	3.887	4.016	4.146	3.225	-3.212	0.901	-0.897
32	3.747	3.873	4.000	3.263	-3.247	0.916	-0.911
33	3.613	3.735	3.859	3.300	-3.282	0.930	-0.925
34	3.483	3.603	3.723	3.337	-3.317	0.944	-0.938
35	3.359	3.475	3.592	3.375	-3.352	0.959	-0.952
36	3.239	3.352	3.467	3.412	-3.386	0.973	-0.966
37	3.123	3.234	3.345	3.449	-3.421	0.988	-0.980
38	3.012	3.120	3.228	3.486	-3.456	1.003	-0.994
39	2.905	3.010	3.116	3.523	-3.490	1.017	-1.008
40	2.802	2.904	3.007	3.561	-3.525	1.032	-1.022
41	2.702	2.802	2.903	3.598	-3.559	1.047	-1.036
42	2.607	2.704	2.802	3.634	-3.594	1.062	-1.050
43	2.515	2.609	2.705	3.671	-3.628	1.077	-1.065
44	2.426	2.518	2.612	3.708	-3.662	1.093	-1.079
45	2.341	2.431	2.522	3.745	-3.696	1.108	-1.094
46	2.259	2.346	2.435	3.782	-3.730	1.123	-1.108
47	2.180	2.265	2.351	3.818	-3.764	1.139	-1.123
48	2.103	2.187	2.271	3.855	-3.798	1.155	-1.138
49	2.030	2.111	2.193	3.891	-3.832	1.170	-1.152
50	1.960	2.039	2.119	3.928	-3.866	1.186	-1.167
51	1.892	1.969	2.047	3.964	-3.899	1.202	-1.182
52	1.826	1.901	1.977	4.000	-3.933	1.218	-1.198
53	1.764	1.836	1.911	4.036	-3.966	1.234	-1.213
54	1.703	1.774	1.846	4.072	-3.999	1.250	-1.228
55	1.645	1.714	1.784	4.108	-4.032	1.267	-1.243
56	1.589	1.656	1.725	4.144	-4.065	1.283	-1.259
57	1.535	1.600	1.667	4.179	-4.098	1.300	-1.275
58	1.483	1.547	1.612	4.215	-4.131	1.317	-1.290
59	1.433	1.495	1.559	4.250	-4.163	1.333	-1.306
60	1.385	1.445	1.507	4.285	-4.196	1.350	-1.322
61	1.338	1.397	1.458	4.321	-4.228	1.367	-1.338
62	1.294	1.351	1.410	4.356	-4.260	1.385	-1.354
63	1.251	1.307	1.364	4.390	-4.292	1.402	-1.371
64	1.210	1.264	1.320	4.425	-4.324	1.419	-1.387
65	1.170	1.223	1.278	4.460	-4.355	1.437	-1.403
66	1.132	1.184	1.237	4.494	-4.387	1.455	-1.420
67	1.095	1.145	1.197	4.528	-4.418	1.472	-1.437
68	1.059	1.109	1.159	4.562	-4.449	1.490	-1.453
69	1.025	1.073	1.123	4.596	-4.480	1.508	-1.470
70	0.993	1.039	1.088	4.630	-4.511	1.527	-1.487
71	0.961	1.007	1.054	4.663	-4.541	1.545	-1.505
72	0.931	0.975	1.021	4.696	-4.572	1.563	-1.522
73	0.901	0.945	0.989	4.730	-4.602	1.582	-1.539

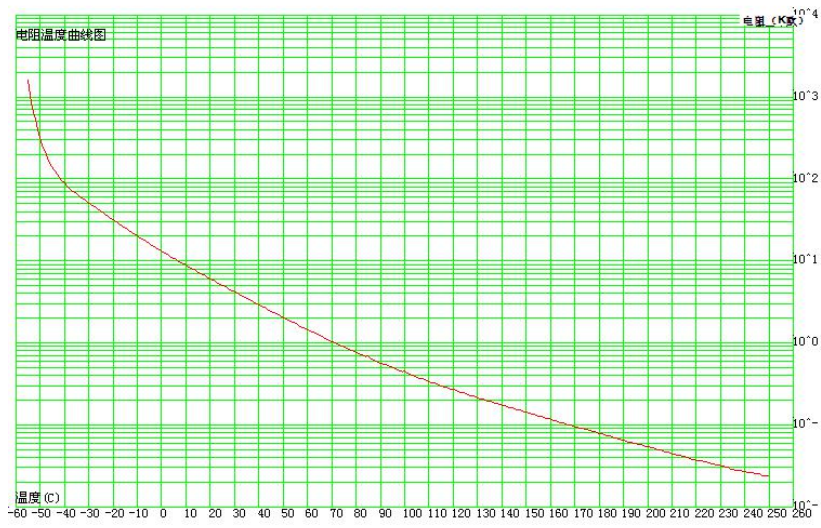
74	0.873	0.915	0.959	4.763	-4.632	1.601	-1.557
75	0.846	0.887	0.930	4.795	-4.662	1.619	-1.574
76	0.820	0.860	0.902	4.828	-4.691	1.638	-1.592
77	0.795	0.834	0.875	4.860	-4.721	1.657	-1.610
78	0.770	0.809	0.848	4.892	-4.750	1.677	-1.628
79	0.747	0.784	0.823	4.924	-4.779	1.696	-1.646
80	0.724	0.761	0.799	4.956	-4.808	1.715	-1.664
81	0.703	0.739	0.775	4.988	-4.836	1.735	-1.682
82	0.682	0.717	0.753	5.019	-4.865	1.755	-1.701
83	0.662	0.696	0.731	5.050	-4.893	1.775	-1.719
84	0.642	0.676	0.710	5.081	-4.921	1.794	-1.738
85	0.654	0.688	0.722	5.063	-4.904	1.839	-1.782
86	0.606	0.637	0.670	5.142	-4.976	1.835	-1.776
87	0.588	0.619	0.651	5.173	-5.004	1.855	-1.795
88	0.571	0.602	0.633	5.203	-5.031	1.876	-1.814
89	0.555	0.585	0.616	5.233	-5.058	1.896	-1.833
90	0.540	0.569	0.599	5.262	-5.085	1.917	-1.852
91	0.525	0.553	0.582	5.292	-5.111	1.938	-1.872
92	0.510	0.538	0.566	5.321	-5.138	1.959	-1.891
93	0.496	0.523	0.551	5.350	-5.164	1.980	-1.911
94	0.483	0.509	0.536	5.379	-5.190	2.001	-1.930
95	0.469	0.495	0.522	5.408	-5.215	2.022	-1.950
96	0.457	0.482	0.508	5.436	-5.241	2.044	-1.970
97	0.445	0.469	0.495	5.464	-5.266	2.065	-1.990
98	0.433	0.457	0.482	5.492	-5.292	2.087	-2.011
99	0.421	0.445	0.470	5.520	-5.316	2.109	-2.031
100	0.431	0.456	0.481	5.496	-5.295	2.154	-2.075
101	0.400	0.423	0.446	5.575	-5.366	2.153	-2.072
102	0.390	0.412	0.435	5.602	-5.390	2.175	-2.092
103	0.380	0.401	0.424	5.629	-5.414	2.197	-2.113
104	0.370	0.391	0.413	5.656	-5.438	2.219	-2.134
105	0.361	0.382	0.403	5.683	-5.462	2.242	-2.155
106	0.352	0.372	0.393	5.709	-5.486	2.264	-2.176
107	0.343	0.363	0.384	5.735	-5.509	2.287	-2.197
108	0.334	0.354	0.375	5.761	-5.533	2.310	-2.218
109	0.326	0.346	0.366	5.787	-5.556	2.333	-2.239
110	0.318	0.337	0.357	5.813	-5.579	2.356	-2.261
111	0.311	0.329	0.348	5.839	-5.601	2.379	-2.282
112	0.303	0.321	0.340	5.864	-5.624	2.402	-2.304
113	0.296	0.314	0.332	5.889	-5.647	2.426	-2.326
114	0.289	0.306	0.325	5.914	-5.669	2.449	-2.347
115	0.282	0.299	0.317	5.939	-5.691	2.473	-2.369
116	0.276	0.292	0.310	5.964	-5.713	2.496	-2.391
117	0.269	0.286	0.303	5.988	-5.735	2.520	-2.413
118	0.263	0.279	0.296	6.013	-5.757	2.544	-2.435

119	0.257	0.273	0.289	6.037	-5.778	2.568	-2.458
120	0.251	0.267	0.283	6.061	-5.800	2.592	-2.480
121	0.246	0.261	0.277	6.085	-5.821	2.616	-2.502
122	0.240	0.255	0.271	6.109	-5.842	2.640	-2.525
123	0.235	0.249	0.265	6.133	-5.863	2.665	-2.547
124	0.229	0.244	0.259	6.156	-5.884	2.689	-2.570
125	0.224	0.239	0.253	6.180	-5.905	2.714	-2.593
126	0.219	0.233	0.248	6.203	-5.925	2.738	-2.616
127	0.215	0.228	0.243	6.226	-5.946	2.763	-2.639
128	0.210	0.223	0.237	6.249	-5.966	2.788	-2.662
129	0.205	0.219	0.232	6.272	-5.987	2.813	-2.685
130	0.201	0.214	0.227	6.295	-6.007	2.838	-2.708
131	0.197	0.209	0.223	6.318	-6.027	2.863	-2.731
132	0.193	0.205	0.218	6.340	-6.047	2.888	-2.754
133	0.188	0.201	0.213	6.363	-6.067	2.913	-2.778
134	0.184	0.196	0.209	6.385	-6.087	2.938	-2.801
135	0.181	0.192	0.205	6.408	-6.106	2.964	-2.824
136	0.177	0.188	0.201	6.430	-6.126	2.989	-2.848
137	0.173	0.184	0.196	6.452	-6.145	3.015	-2.872
138	0.170	0.181	0.192	6.474	-6.165	3.040	-2.895
139	0.166	0.177	0.188	6.496	-6.184	3.066	-2.919
140	0.163	0.173	0.185	6.518	-6.204	3.092	-2.943
141	0.159	0.170	0.181	6.540	-6.223	3.118	-2.967
142	0.156	0.166	0.177	6.562	-6.242	3.144	-2.991
143	0.153	0.163	0.174	6.583	-6.261	3.170	-3.015
144	0.150	0.160	0.170	6.605	-6.280	3.196	-3.039
145	0.147	0.157	0.167	6.627	-6.299	3.222	-3.063
146	0.144	0.153	0.164	6.648	-6.318	3.248	-3.087
147	0.141	0.150	0.160	6.670	-6.337	3.275	-3.111
148	0.138	0.147	0.157	6.691	-6.356	3.301	-3.136
149	0.135	0.144	0.154	6.712	-6.375	3.328	-3.160
150	0.132	0.142	0.151	6.734	-6.393	3.354	-3.184
151	0.130	0.139	0.148	6.755	-6.412	3.381	-3.209
152	0.127	0.136	0.145	6.776	-6.431	3.407	-3.234
153	0.125	0.133	0.142	6.798	-6.449	3.434	-3.258
154	0.122	0.131	0.140	6.819	-6.468	3.461	-3.283
155	0.120	0.128	0.137	6.840	-6.486	3.488	-3.307
156	0.117	0.126	0.134	6.861	-6.505	3.515	-3.332
157	0.115	0.123	0.132	6.882	-6.523	3.542	-3.357
158	0.113	0.121	0.129	6.903	-6.541	3.569	-3.382
159	0.111	0.118	0.127	6.924	-6.560	3.596	-3.407
160	0.108	0.116	0.124	6.945	-6.578	3.623	-3.432
161	0.106	0.114	0.122	6.966	-6.596	3.651	-3.457
162	0.104	0.112	0.119	6.987	-6.615	3.678	-3.482
163	0.102	0.109	0.117	7.008	-6.633	3.705	-3.507

164	0.100	0.107	0.115	7.029	-6.651	3.733	-3.532
165	0.098	0.105	0.113	7.050	-6.669	3.760	-3.557
166	0.096	0.103	0.110	7.071	-6.688	3.788	-3.583
167	0.094	0.101	0.108	7.091	-6.706	3.816	-3.608
168	0.092	0.099	0.106	7.112	-6.724	3.843	-3.633
169	0.091	0.097	0.104	7.133	-6.742	3.871	-3.659
170	0.089	0.095	0.102	7.154	-6.760	3.899	-3.684
171	0.087	0.094	0.100	7.175	-6.778	3.927	-3.710
172	0.085	0.092	0.098	7.195	-6.796	3.955	-3.735
173	0.084	0.090	0.096	7.216	-6.814	3.983	-3.761
174	0.082	0.088	0.095	7.237	-6.832	4.011	-3.787
175	0.081	0.087	0.093	7.258	-6.850	4.039	-3.813
176	0.079	0.085	0.091	7.278	-6.868	4.067	-3.838
177	0.077	0.083	0.089	7.299	-6.886	4.096	-3.864
178	0.076	0.082	0.088	7.320	-6.904	4.124	-3.890
179	0.074	0.080	0.086	7.341	-6.922	4.153	-3.916
180	0.073	0.079	0.084	7.361	-6.940	4.181	-3.942
181	0.072	0.077	0.083	7.382	-6.958	4.210	-3.968
182	0.070	0.076	0.081	7.403	-6.976	4.238	-3.994
183	0.069	0.074	0.080	7.423	-6.994	4.267	-4.020
184	0.068	0.073	0.078	7.444	-7.012	4.296	-4.046
185	0.066	0.071	0.077	7.464	-7.030	4.325	-4.073
186	0.065	0.070	0.075	7.485	-7.047	4.353	-4.099
187	0.064	0.069	0.074	7.506	-7.065	4.382	-4.125
188	0.062	0.067	0.072	7.526	-7.083	4.411	-4.152
189	0.061	0.066	0.071	7.547	-7.101	4.441	-4.178
190	0.060	0.065	0.070	7.567	-7.118	4.470	-4.205
191	0.059	0.064	0.068	7.588	-7.136	4.499	-4.231
192	0.058	0.062	0.067	7.608	-7.154	4.528	-4.258
193	0.057	0.061	0.066	7.629	-7.171	4.558	-4.285
194	0.056	0.060	0.065	7.649	-7.189	4.587	-4.311
195	0.055	0.059	0.063	7.669	-7.207	4.617	-4.338
196	0.054	0.058	0.062	7.690	-7.224	4.646	-4.365
197	0.052	0.057	0.061	7.710	-7.242	4.676	-4.392
198	0.051	0.056	0.060	7.730	-7.259	4.706	-4.419
199	0.051	0.055	0.059	7.751	-7.277	4.736	-4.446
200	0.050	0.054	0.058	7.771	-7.294	4.766	-4.473
201	0.049	0.052	0.057	7.791	-7.311	4.796	-4.500
202	0.048	0.052	0.056	7.811	-7.329	4.826	-4.528
203	0.047	0.051	0.055	7.831	-7.346	4.856	-4.555
204	0.046	0.050	0.054	7.851	-7.363	4.886	-4.582
205	0.045	0.049	0.053	7.871	-7.380	4.917	-4.610
206	0.044	0.048	0.052	7.891	-7.397	4.947	-4.637
207	0.043	0.047	0.051	7.911	-7.414	4.978	-4.665
208	0.043	0.046	0.050	7.931	-7.431	5.008	-4.693



209	0.042	0.045	0.049	7.950	-7.448	5.039	-4.720
210	0.041	0.044	0.048	7.970	-7.465	5.070	-4.748
211	0.040	0.044	0.047	7.990	-7.482	5.100	-4.776
212	0.040	0.043	0.046	8.009	-7.498	5.131	-4.804
213	0.039	0.042	0.045	8.028	-7.515	5.163	-4.832
214	0.038	0.041	0.045	8.048	-7.532	5.194	-4.861
215	0.037	0.041	0.044	8.067	-7.548	5.225	-4.889
216	0.037	0.040	0.043	8.086	-7.564	5.256	-4.917
217	0.036	0.039	0.042	8.105	-7.581	5.288	-4.946
218	0.035	0.038	0.042	8.124	-7.597	5.319	-4.974
219	0.035	0.038	0.041	8.143	-7.613	5.351	-5.003
220	0.034	0.037	0.040	8.162	-7.629	5.383	-5.031
221	0.034	0.036	0.039	8.181	-7.645	5.415	-5.060
222	0.033	0.036	0.039	8.199	-7.661	5.447	-5.089
223	0.032	0.035	0.038	8.217	-7.677	5.479	-5.118
224	0.032	0.035	0.038	8.236	-7.692	5.511	-5.147
225	0.031	0.034	0.037	8.254	-7.708	5.543	-5.176
226	0.031	0.033	0.036	8.272	-7.723	5.576	-5.206
227	0.030	0.033	0.036	8.290	-7.738	5.608	-5.235
228	0.030	0.032	0.035	8.308	-7.753	5.641	-5.265
229	0.029	0.032	0.035	8.325	-7.768	5.674	-5.294
230	0.029	0.031	0.034	8.343	-7.783	5.707	-5.324
231	0.028	0.031	0.033	8.360	-7.798	5.740	-5.354
232	0.028	0.030	0.033	8.377	-7.813	5.773	-5.384
233	0.027	0.030	0.032	8.394	-7.827	5.806	-5.414
234	0.027	0.029	0.032	8.411	-7.841	5.839	-5.444
235	0.027	0.029	0.031	8.428	-7.855	5.873	-5.474
236	0.026	0.028	0.031	8.444	-7.869	5.907	-5.505
237	0.026	0.028	0.030	8.460	-7.883	5.940	-5.535
238	0.025	0.028	0.030	8.476	-7.897	5.974	-5.566
239	0.025	0.027	0.030	8.492	-7.910	6.008	-5.597
240	0.025	0.027	0.029	8.508	-7.924	6.043	-5.628
241	0.024	0.026	0.029	8.523	-7.937	6.077	-5.659
242	0.024	0.026	0.028	8.539	-7.950	6.112	-5.690
243	0.024	0.026	0.028	8.554	-7.963	6.146	-5.721
244	0.023	0.025	0.028	8.569	-7.975	6.181	-5.753
245	0.023	0.025	0.027	8.583	-7.988	6.216	-5.785
246	0.023	0.025	0.027	8.598	-8.000	6.251	-5.816
247	0.022	0.024	0.026	8.612	-8.012	6.286	-5.848
248	0.022	0.024	0.026	8.626	-8.024	6.322	-5.880
249	0.022	0.024	0.026	8.639	-8.035	6.357	-5.913
250	0.021	0.023	0.025	8.653	-8.046	6.393	-5.945



附表:2

南京时恒电阻误差曲线图

