



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 MF58-503 H 3950 (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:

南京时恒电子科技有限公司

地址: 南京市江宁区湖熟镇金阳路 18 号

TEL: 025-52121868

Http: //www.shiheng.com.cn

邮编: 211121

FAX: 025-52122373

[E-MAIL:sales@shiheng.com.cn](mailto:sales@shiheng.com.cn)





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: MF58-503H3950

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:

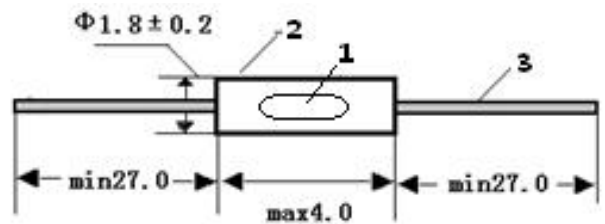
## 1. 电气性能

	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	50KΩ±3%
1.2	B 值	B <sub>25/50</sub>	$B = \frac{(T_a \times T_b) / (T_b - T_a)}{\ln(R_a/R_b)}$ T <sub>b</sub> =50℃±0.05℃	K	3950±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	/	/	℃	-55~195
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→195℃30min→25℃5min, 反复 5 次	R <sub>25</sub> ΔR/R≤±2%
2.6 高温储存	温度: 195℃±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 503 H 3950

① ② ③ ④

- ① MF58: 玻壳测温型 NTC 热敏电阻
- ② 503: 25℃的零功率电阻值 50KΩ
- ③ H: 阻值精度代码 F-±1% G-±2% H-±3% J-±5%
- ④ 3950: B<sub>25/50</sub> 值 3950K

## 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。

电话: 025-52121868

传真: 025-52122373

邮编: 211121

地址: 南京市江宁区湖熟镇金阳路 18 号

邮箱: sales@shiheng.com.cn

网址: Http://www.shiheng.com.cn



附表:1

## 南京时恒阻温特性表

R25=50K $\Omega$  精度:  $\pm 3\%$  B25/50=3950K B25/85=4055K 精度:  $\pm 1\%$  (P214-9)

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	3536.210	3807.000	4094.830	7.560	-7.112	1.021	-0.960
-54	3211.830	3454.420	3711.990	7.456	-7.022	1.022	-0.962
-53	2947.080	3166.920	3400.100	7.362	-6.941	1.022	-0.963
-52	2726.350	2927.420	3140.490	7.278	-6.868	1.021	-0.963
-51	2538.400	2723.640	2919.780	7.201	-6.801	1.020	-0.963
-50	2375.060	2546.680	2728.230	7.129	-6.738	1.018	-0.962
-49	2230.380	2390.020	2558.780	7.061	-6.679	1.015	-0.960
-48	2099.970	2248.910	2406.240	6.995	-6.622	1.013	-0.959
-47	1980.660	2119.880	2266.850	6.932	-6.567	1.010	-0.957
-46	1870.140	2000.430	2137.880	6.870	-6.513	1.007	-0.955
-45	1766.750	1888.750	2017.370	6.809	-6.459	1.004	-0.952
-44	1669.320	1783.580	1903.940	6.748	-6.405	1.001	-0.950
-43	1577.050	1684.020	1796.630	6.686	-6.352	0.998	-0.948
-42	1489.370	1589.480	1694.790	6.625	-6.297	0.994	-0.945
-41	1405.930	1499.560	1597.980	6.563	-6.243	0.991	-0.943
-40	1326.490	1414.000	1505.910	6.500	-6.188	0.988	-0.941
-39	1250.890	1332.610	1418.400	6.437	-6.132	0.985	-0.938
-38	1179.010	1255.290	1335.300	6.373	-6.076	0.982	-0.936
-37	1110.780	1181.940	1256.520	6.309	-6.019	0.979	-0.934
-36	1046.130	1112.460	1181.940	6.245	-5.963	0.976	-0.932
-35	984.971	1046.790	1111.490	6.180	-5.905	0.973	-0.930
-34	927.223	984.819	1045.050	6.116	-5.848	0.971	-0.928
-33	872.791	926.440	982.501	6.051	-5.790	0.968	-0.926
-32	821.570	871.537	923.712	5.986	-5.733	0.965	-0.924
-31	773.439	819.979	868.537	5.921	-5.675	0.962	-0.922
-30	728.271	771.623	816.821	5.857	-5.618	0.960	-0.920
-29	685.928	726.321	768.400	5.793	-5.561	0.957	-0.918
-28	646.269	683.915	723.102	5.729	-5.504	0.954	-0.917
-27	609.150	644.249	680.756	5.666	-5.447	0.951	-0.915
-26	574.425	607.163	641.188	5.604	-5.391	0.948	-0.912
-25	541.949	572.500	604.227	5.541	-5.336	0.945	-0.910
-24	511.582	540.105	569.706	5.480	-5.281	0.943	-0.908
-23	483.184	509.830	537.461	5.419	-5.226	0.939	-0.906
-22	456.625	481.531	507.339	5.359	-5.172	0.936	-0.904
-21	431.777	455.070	479.189	5.299	-5.118	0.933	-0.901
-20	408.520	430.318	452.872	5.241	-5.065	0.930	-0.899
-19	386.742	407.153	428.255	5.182	-5.013	0.926	-0.896
-18	366.336	385.459	405.215	5.125	-4.961	0.923	-0.893

-17	347.203	365.129	383.635	5.068	-4.909	0.919	-0.891
-16	329.249	346.063	363.408	5.012	-4.858	0.916	-0.888
-15	312.391	328.169	344.434	4.956	-4.807	0.912	-0.885
-14	296.547	311.361	326.621	4.901	-4.757	0.908	-0.881
-13	281.644	295.560	309.884	4.846	-4.708	0.904	-0.878
-12	267.615	280.693	294.145	4.792	-4.659	0.900	-0.875
-11	254.398	266.694	279.332	4.738	-4.610	0.896	-0.871
-10	241.935	253.500	265.378	4.685	-4.561	0.891	-0.868
-9	230.174	241.054	252.223	4.633	-4.513	0.887	-0.864
-8	219.066	229.307	239.811	4.580	-4.466	0.882	-0.860
-7	208.567	218.209	228.091	4.528	-4.418	0.878	-0.856
-6	198.636	207.717	217.017	4.477	-4.371	0.873	-0.852
-5	189.237	197.791	206.546	4.426	-4.324	0.868	-0.848
-4	180.334	188.394	196.637	4.375	-4.278	0.863	-0.844
-3	171.897	179.493	187.256	4.324	-4.231	0.858	-0.840
-2	163.897	171.057	178.369	4.274	-4.185	0.853	-0.835
-1	156.306	163.056	169.945	4.224	-4.139	0.848	-0.831
0	149.100	155.466	161.956	4.175	-4.094	0.842	-0.826
1	142.258	148.260	154.377	4.125	-4.048	0.837	-0.821
2	135.756	141.418	147.183	4.076	-4.003	0.832	-0.817
3	129.577	134.918	140.351	4.027	-3.958	0.826	-0.812
4	123.703	128.740	133.863	3.978	-3.913	0.821	-0.807
5	118.115	122.868	127.697	3.930	-3.868	0.815	-0.802
6	112.800	117.284	121.837	3.881	-3.823	0.809	-0.797
7	107.742	111.973	116.266	3.833	-3.778	0.804	-0.792
8	102.927	106.920	110.968	3.785	-3.734	0.798	-0.787
9	98.344	102.112	105.929	3.738	-3.690	0.792	-0.782
10	93.756	97.302	100.890	3.688	-3.643	0.789	-0.779
11	89.824	93.180	96.575	3.643	-3.601	0.780	-0.772
12	85.865	89.033	92.234	3.596	-3.558	0.774	-0.766
13	82.093	85.083	88.103	3.549	-3.514	0.768	-0.761
14	78.500	81.322	84.170	3.502	-3.470	0.762	-0.755
15	75.076	77.740	80.426	3.455	-3.427	0.756	-0.750
16	71.812	74.328	76.862	3.409	-3.383	0.750	-0.744
17	68.702	71.076	73.467	3.362	-3.340	0.744	-0.739
18	65.737	67.979	70.233	3.316	-3.297	0.738	-0.733
19	62.910	65.027	67.154	3.271	-3.254	0.731	-0.728
20	60.215	62.213	64.220	3.225	-3.211	0.725	-0.722
21	57.645	59.532	61.425	3.179	-3.169	0.719	-0.716
22	55.194	56.976	58.762	3.134	-3.126	0.712	-0.710
23	52.857	54.539	56.224	3.089	-3.084	0.706	-0.705
24	50.627	52.215	53.805	3.044	-3.042	0.699	-0.699
25	48.500	50.000	51.500	3.000	-3.000	0.694	-0.694
26	46.430	47.886	49.344	3.044	-3.041	0.707	-0.706
27	44.456	45.871	47.287	3.088	-3.083	0.721	-0.720

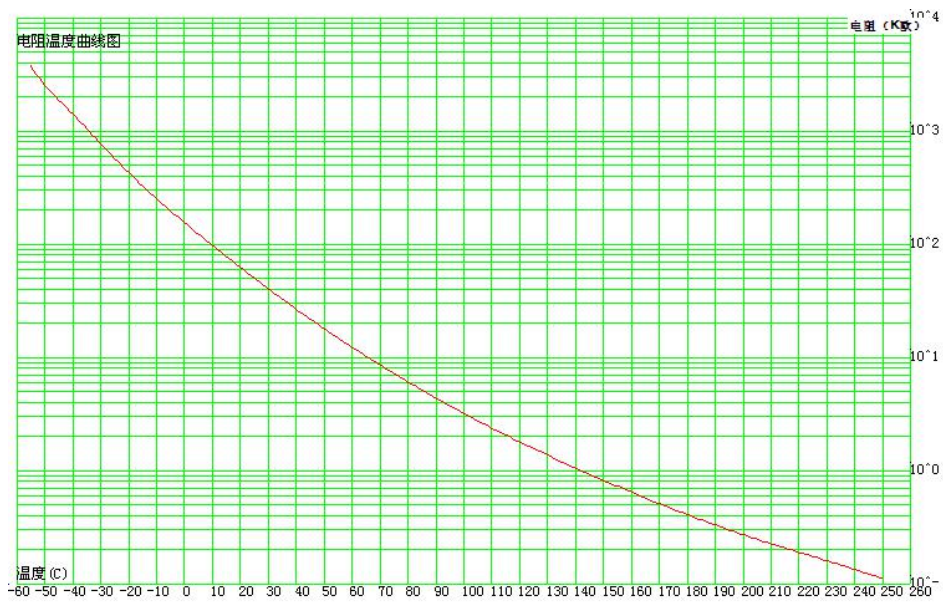
28	42.574	43.948	45.324	3.132	-3.125	0.735	-0.733
29	40.779	42.113	43.451	3.176	-3.166	0.750	-0.747
30	39.068	40.362	41.662	3.220	-3.207	0.764	-0.761
31	37.434	38.691	39.954	3.264	-3.248	0.779	-0.775
32	35.876	37.096	38.324	3.307	-3.289	0.793	-0.789
33	34.389	35.574	36.766	3.351	-3.329	0.808	-0.803
34	32.970	34.120	35.278	3.394	-3.369	0.823	-0.817
35	31.615	32.732	33.857	3.437	-3.410	0.838	-0.831
36	30.322	31.405	32.498	3.480	-3.450	0.853	-0.846
37	29.087	30.139	31.200	3.522	-3.489	0.868	-0.860
38	27.907	28.928	29.959	3.565	-3.529	0.883	-0.875
39	26.780	27.771	28.773	3.607	-3.568	0.899	-0.889
40	25.704	26.666	27.639	3.649	-3.607	0.914	-0.904
41	24.675	25.609	26.554	3.691	-3.646	0.930	-0.918
42	23.692	24.598	25.517	3.733	-3.685	0.945	-0.933
43	22.752	23.632	24.524	3.774	-3.724	0.961	-0.948
44	21.853	22.707	23.574	3.816	-3.762	0.977	-0.963
45	20.994	21.823	22.665	3.857	-3.800	0.993	-0.978
46	20.172	20.977	21.795	3.898	-3.838	1.008	-0.993
47	19.385	20.167	20.962	3.939	-3.876	1.024	-1.008
48	18.633	19.392	20.164	3.980	-3.914	1.041	-1.023
49	17.913	18.650	19.400	4.020	-3.951	1.057	-1.039
50	17.224	17.940	18.668	4.061	-3.989	1.073	-1.054
51	16.564	17.259	17.967	4.101	-4.026	1.089	-1.070
52	15.932	16.607	17.295	4.141	-4.063	1.106	-1.085
53	15.328	15.983	16.651	4.181	-4.099	1.122	-1.101
54	14.748	15.385	16.034	4.221	-4.136	1.139	-1.116
55	14.193	14.811	15.442	4.260	-4.172	1.156	-1.132
56	13.661	14.262	14.875	4.300	-4.209	1.173	-1.148
57	13.152	13.735	14.331	4.339	-4.245	1.190	-1.164
58	12.663	13.229	13.809	4.378	-4.281	1.207	-1.180
59	12.195	12.745	13.308	4.417	-4.316	1.224	-1.196
60	11.746	12.280	12.828	4.456	-4.352	1.241	-1.212
61	11.315	11.835	12.367	4.494	-4.387	1.258	-1.228
62	10.902	11.407	11.924	4.533	-4.422	1.275	-1.244
63	10.506	10.997	11.499	4.571	-4.457	1.293	-1.261
64	10.126	10.603	11.092	4.609	-4.492	1.310	-1.277
65	9.762	10.225	10.700	4.647	-4.527	1.328	-1.294
66	9.412	9.862	10.324	4.685	-4.561	1.346	-1.310
67	9.076	9.513	9.963	4.723	-4.596	1.363	-1.327
68	8.754	9.179	9.616	4.760	-4.630	1.381	-1.344
69	8.444	8.857	9.282	4.798	-4.664	1.399	-1.360
70	8.147	8.549	8.962	4.835	-4.698	1.417	-1.377
71	7.862	8.252	8.654	4.872	-4.731	1.436	-1.394
72	7.587	7.967	8.358	4.909	-4.765	1.454	-1.411

73	7.324	7.693	8.074	4.945	-4.798	1.472	-1.428
74	7.071	7.430	7.800	4.982	-4.831	1.491	-1.445
75	6.828	7.177	7.537	5.018	-4.864	1.509	-1.463
76	6.594	6.934	7.284	5.055	-4.897	1.528	-1.480
77	6.370	6.700	7.041	5.091	-4.930	1.546	-1.498
78	6.154	6.475	6.807	5.126	-4.962	1.565	-1.515
79	5.946	6.259	6.582	5.162	-4.994	1.584	-1.533
80	5.746	6.051	6.365	5.198	-5.026	1.603	-1.550
81	5.555	5.851	6.157	5.233	-5.058	1.622	-1.568
82	5.370	5.658	5.956	5.268	-5.090	1.641	-1.586
83	5.192	5.473	5.763	5.303	-5.122	1.661	-1.604
84	5.021	5.294	5.577	5.338	-5.153	1.680	-1.622
85	4.857	5.123	5.398	5.373	-5.184	1.699	-1.640
86	4.699	4.957	5.225	5.408	-5.216	1.719	-1.658
87	4.546	4.798	5.059	5.442	-5.246	1.739	-1.676
88	4.400	4.645	4.899	5.476	-5.277	1.758	-1.694
89	4.258	4.497	4.745	5.510	-5.308	1.778	-1.713
90	4.122	4.355	4.596	5.544	-5.338	1.798	-1.731
91	3.991	4.218	4.453	5.578	-5.368	1.818	-1.750
92	3.865	4.086	4.315	5.612	-5.399	1.838	-1.769
93	3.744	3.959	4.182	5.645	-5.429	1.859	-1.787
94	3.626	3.836	4.054	5.678	-5.458	1.879	-1.806
95	3.514	3.718	3.930	5.711	-5.488	1.899	-1.825
96	3.405	3.604	3.811	5.744	-5.517	1.920	-1.844
97	3.300	3.494	3.695	5.777	-5.547	1.940	-1.863
98	3.199	3.388	3.584	5.810	-5.576	1.961	-1.882
99	3.101	3.285	3.477	5.842	-5.605	1.982	-1.901
100	3.007	3.187	3.374	5.874	-5.633	2.003	-1.920
101	2.916	3.091	3.274	5.907	-5.662	2.024	-1.940
102	2.829	2.999	3.177	5.939	-5.691	2.045	-1.959
103	2.744	2.910	3.084	5.970	-5.719	2.066	-1.979
104	2.662	2.825	2.994	6.002	-5.747	2.087	-1.998
105	2.584	2.742	2.907	6.034	-5.775	2.108	-2.018
106	2.508	2.662	2.824	6.065	-5.803	2.130	-2.038
107	2.434	2.585	2.742	6.096	-5.831	2.151	-2.058
108	2.363	2.510	2.664	6.127	-5.858	2.173	-2.078
109	2.295	2.438	2.588	6.158	-5.886	2.195	-2.098
110	2.228	2.368	2.515	6.189	-5.913	2.216	-2.118
111	2.164	2.301	2.444	6.220	-5.940	2.238	-2.138
112	2.102	2.236	2.376	6.250	-5.967	2.260	-2.158
113	2.043	2.173	2.309	6.280	-5.994	2.282	-2.178
114	1.985	2.112	2.245	6.311	-6.021	2.305	-2.199
115	1.929	2.053	2.183	6.341	-6.047	2.327	-2.219
116	1.875	1.996	2.123	6.371	-6.074	2.349	-2.240
117	1.822	1.941	2.065	6.401	-6.100	2.372	-2.260

118	1.772	1.887	2.009	6.430	-6.126	2.394	-2.281
119	1.723	1.836	1.954	6.460	-6.152	2.417	-2.302
120	1.675	1.785	1.901	6.489	-6.178	2.439	-2.322
121	1.629	1.737	1.850	6.519	-6.204	2.462	-2.343
122	1.585	1.690	1.801	6.548	-6.230	2.485	-2.364
123	1.541	1.644	1.753	6.577	-6.256	2.508	-2.385
124	1.500	1.600	1.706	6.606	-6.281	2.531	-2.406
125	1.459	1.558	1.661	6.635	-6.306	2.554	-2.428
126	1.420	1.516	1.617	6.664	-6.332	2.577	-2.449
127	1.382	1.476	1.575	6.692	-6.357	2.601	-2.470
128	1.345	1.437	1.534	6.721	-6.382	2.624	-2.492
129	1.309	1.399	1.494	6.749	-6.407	2.647	-2.513
130	1.275	1.363	1.455	6.778	-6.432	2.671	-2.535
131	1.241	1.327	1.417	6.806	-6.456	2.695	-2.556
132	1.209	1.292	1.381	6.834	-6.481	2.718	-2.578
133	1.177	1.259	1.345	6.862	-6.505	2.742	-2.600
134	1.146	1.227	1.311	6.890	-6.530	2.766	-2.621
135	1.117	1.195	1.278	6.918	-6.554	2.790	-2.643
136	1.088	1.164	1.245	6.945	-6.578	2.814	-2.665
137	1.060	1.135	1.214	6.973	-6.603	2.838	-2.687
138	1.033	1.106	1.183	7.001	-6.627	2.862	-2.709
139	1.006	1.078	1.154	7.028	-6.651	2.886	-2.731
140	0.980	1.051	1.125	7.055	-6.674	2.911	-2.754
141	0.956	1.024	1.097	7.083	-6.698	2.935	-2.776
142	0.931	0.999	1.070	7.110	-6.722	2.960	-2.798
143	0.908	0.974	1.043	7.137	-6.745	2.984	-2.821
144	0.885	0.949	1.017	7.164	-6.769	3.009	-2.843
145	0.863	0.926	0.992	7.191	-6.792	3.034	-2.866
146	0.841	0.903	0.968	7.218	-6.816	3.059	-2.888
147	0.820	0.881	0.944	7.244	-6.839	3.084	-2.911
148	0.800	0.859	0.921	7.271	-6.862	3.109	-2.934
149	0.780	0.838	0.899	7.298	-6.885	3.134	-2.957
150	0.761	0.818	0.877	7.324	-6.908	3.159	-2.979
151	0.742	0.798	0.856	7.351	-6.931	3.184	-3.002
152	0.724	0.778	0.836	7.377	-6.954	3.210	-3.025
153	0.706	0.760	0.816	7.403	-6.977	3.235	-3.049
154	0.689	0.741	0.796	7.429	-6.999	3.260	-3.072
155	0.673	0.723	0.777	7.455	-7.022	3.286	-3.095
156	0.656	0.706	0.759	7.481	-7.044	3.312	-3.118
157	0.641	0.689	0.741	7.507	-7.067	3.337	-3.142
158	0.625	0.673	0.724	7.533	-7.089	3.363	-3.165
159	0.610	0.657	0.707	7.559	-7.111	3.389	-3.189
160	0.596	0.642	0.690	7.584	-7.133	3.415	-3.212
161	0.582	0.627	0.674	7.610	-7.155	3.441	-3.236
162	0.568	0.612	0.659	7.635	-7.177	3.468	-3.260

163	0.555	0.598	0.644	7.661	-7.199	3.494	-3.283
164	0.542	0.584	0.629	7.686	-7.221	3.520	-3.307
165	0.529	0.570	0.614	7.711	-7.242	3.547	-3.331
166	0.517	0.557	0.600	7.736	-7.264	3.573	-3.355
167	0.505	0.544	0.587	7.761	-7.285	3.600	-3.379
168	0.493	0.532	0.574	7.786	-7.307	3.627	-3.403
169	0.482	0.520	0.561	7.811	-7.328	3.653	-3.428
170	0.471	0.508	0.548	7.835	-7.349	3.680	-3.452
171	0.460	0.497	0.536	7.860	-7.370	3.707	-3.476
172	0.450	0.486	0.524	7.884	-7.391	3.734	-3.501
173	0.440	0.475	0.512	7.908	-7.412	3.762	-3.526
174	0.430	0.464	0.501	7.933	-7.433	3.789	-3.550
175	0.420	0.454	0.490	7.957	-7.454	3.816	-3.575
176	0.411	0.444	0.480	7.981	-7.474	3.844	-3.600
177	0.402	0.434	0.469	8.004	-7.494	3.871	-3.625
178	0.393	0.425	0.459	8.028	-7.515	3.899	-3.650
179	0.384	0.416	0.449	8.052	-7.535	3.927	-3.675
180	0.376	0.407	0.440	8.075	-7.555	3.955	-3.700
181	0.368	0.398	0.430	8.099	-7.575	3.982	-3.725
182	0.360	0.390	0.421	8.122	-7.595	4.010	-3.750
183	0.352	0.381	0.412	8.145	-7.615	4.039	-3.776
184	0.345	0.373	0.404	8.168	-7.634	4.067	-3.801
185	0.338	0.366	0.396	8.191	-7.654	4.095	-3.827
186	0.330	0.358	0.387	8.213	-7.673	4.124	-3.852
187	0.324	0.351	0.379	8.236	-7.692	4.152	-3.878
188	0.317	0.343	0.372	8.258	-7.711	4.181	-3.904
189	0.310	0.336	0.364	8.281	-7.730	4.210	-3.930
190	0.304	0.330	0.357	8.303	-7.749	4.238	-3.956
191	0.298	0.323	0.350	8.325	-7.768	4.267	-3.982
192	0.292	0.316	0.343	8.347	-7.787	4.296	-4.008
193	0.286	0.310	0.336	8.368	-7.805	4.326	-4.035
194	0.280	0.304	0.330	8.390	-7.823	4.355	-4.061
195	0.275	0.298	0.323	8.411	-7.842	4.384	-4.087





附表:2

南京时恒电阻误差曲线图

