



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 MF58-104 F3950 (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: MF58-104F3950

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:

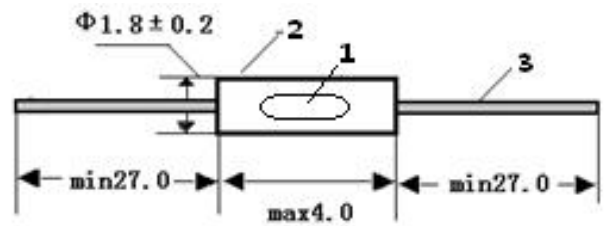
## 1. 电气性能

	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	100KΩ±1%
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	/	/	℃	-55~250
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±1N, 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 104 F 3950

① ② ③ ④

- ① MF58: 玻壳测温型 NTC 热敏电阻
- ② 104: 25℃的零功率电阻值 100KΩ
- ③ F: 阻值精度代码 F-±1% G-±2% H-±3% K-±10%
- 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。

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附表 1

## 南京时恒阻温特性表

R25=100K  $\Omega$  精度:  $\pm 1\%$  B25/50=3950K B25/85=4092K 精度:  $\pm 1\%$  (P182-6B2)

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	6652.890	7011.860	7389.460	5.385	-5.119	0.741	-0.705
-54	6331.970	6670.290	7025.990	5.332	-5.072	0.737	-0.701
-53	6017.190	6335.440	6669.840	5.278	-5.023	0.732	-0.697
-52	5709.960	6008.770	6322.580	5.222	-4.972	0.728	-0.693
-51	5411.410	5691.510	5985.510	5.165	-4.921	0.723	-0.689
-50	5122.500	5384.660	5659.680	5.107	-4.868	0.719	-0.685
-49	4843.950	5088.980	5345.870	5.047	-4.814	0.714	-0.681
-48	4576.290	4805.020	5044.680	4.987	-4.760	0.710	-0.677
-47	4319.890	4533.160	4756.490	4.926	-4.704	0.705	-0.673
-46	4074.950	4273.610	4481.510	4.864	-4.648	0.700	-0.669
-45	3841.550	4026.430	4219.790	4.802	-4.591	0.696	-0.665
-44	3619.650	3791.580	3971.270	4.739	-4.534	0.691	-0.661
-43	3409.120	3568.880	3735.760	4.675	-4.476	0.686	-0.657
-42	3209.730	3358.100	3512.990	4.612	-4.418	0.681	-0.653
-41	3021.200	3158.930	3302.610	4.548	-4.359	0.676	-0.648
-40	2843.200	2971.000	3104.220	4.484	-4.301	0.672	-0.644
-39	2675.360	2793.890	2917.380	4.419	-4.242	0.667	-0.640
-38	2517.270	2627.180	2741.610	4.355	-4.183	0.662	-0.635
-37	2368.510	2470.400	2576.420	4.291	-4.124	0.657	-0.631
-36	2228.640	2323.090	2421.300	4.227	-4.065	0.652	-0.627
-35	2097.240	2184.770	2275.740	4.163	-4.006	0.646	-0.622
-34	1973.850	2054.980	2139.230	4.099	-3.947	0.641	-0.618
-33	1858.060	1933.240	2011.270	4.036	-3.889	0.636	-0.613
-32	1749.430	1819.110	1891.380	3.972	-3.830	0.631	-0.608
-31	1647.550	1712.140	1779.080	3.909	-3.772	0.626	-0.604
-30	1552.030	1611.900	1673.910	3.847	-3.714	0.620	-0.599
-29	1462.480	1517.980	1575.430	3.784	-3.656	0.615	-0.594
-28	1378.530	1430.000	1483.230	3.722	-3.598	0.609	-0.589
-27	1299.840	1347.570	1396.910	3.661	-3.541	0.604	-0.584
-26	1226.080	1270.350	1316.080	3.600	-3.484	0.598	-0.579
-25	1156.930	1198.000	1240.400	3.539	-3.428	0.593	-0.574
-24	1092.090	1130.190	1169.520	3.479	-3.371	0.587	-0.569
-23	1031.280	1066.650	1103.120	3.419	-3.315	0.581	-0.564
-22	974.244	1007.070	1040.910	3.359	-3.260	0.575	-0.558
-21	920.729	951.217	982.616	3.300	-3.205	0.570	-0.553
-20	870.505	898.820	927.963	3.242	-3.150	0.564	-0.548
-19	823.354	849.657	876.713	3.184	-3.095	0.558	-0.542
-18	779.074	803.514	828.638	3.126	-3.041	0.552	-0.537
-17	737.476	760.189	783.524	3.069	-2.987	0.546	-0.531

-16	698.381	719.495	741.172	3.012	-2.934	0.539	-0.525
-15	661.626	681.256	701.399	2.956	-2.881	0.533	-0.520
-14	627.056	645.311	664.030	2.900	-2.828	0.527	-0.514
-13	594.528	611.507	628.907	2.845	-2.776	0.521	-0.508
-12	563.908	579.703	595.880	2.790	-2.724	0.514	-0.502
-11	535.073	549.768	564.810	2.736	-2.672	0.508	-0.496
-10	507.905	521.579	535.568	2.682	-2.621	0.501	-0.490
-9	482.298	495.024	508.035	2.628	-2.570	0.495	-0.484
-8	458.150	469.995	482.099	2.575	-2.520	0.488	-0.477
-7	435.370	446.396	457.656	2.522	-2.470	0.481	-0.471
-6	413.869	424.134	434.609	2.469	-2.420	0.474	-0.465
-5	393.567	403.123	412.870	2.417	-2.370	0.467	-0.458
-4	374.389	383.286	392.355	2.366	-2.321	0.461	-0.452
-3	356.264	364.548	372.987	2.314	-2.272	0.454	-0.445
-2	339.128	346.840	354.693	2.263	-2.223	0.446	-0.439
-1	322.919	330.099	337.406	2.213	-2.175	0.439	-0.432
0	308.951	315.680	322.523	2.167	-2.131	0.431	-0.424
1	293.060	299.283	305.608	2.113	-2.079	0.425	-0.418
2	279.308	285.101	290.985	2.063	-2.031	0.418	-0.411
3	266.279	271.671	277.144	2.014	-1.984	0.410	-0.404
4	253.930	258.947	264.037	1.965	-1.937	0.403	-0.397
5	242.221	246.889	251.622	1.916	-1.890	0.395	-0.390
6	231.114	235.457	239.856	1.868	-1.844	0.388	-0.383
7	220.575	224.614	228.703	1.820	-1.797	0.380	-0.375
8	210.571	214.326	218.125	1.772	-1.751	0.372	-0.368
9	201.071	204.561	208.090	1.725	-1.706	0.365	-0.360
10	192.047	195.290	198.567	1.678	-1.660	0.357	-0.353
11	183.472	186.484	189.526	1.631	-1.615	0.349	-0.345
12	175.321	178.117	180.940	1.584	-1.569	0.341	-0.338
13	167.571	170.165	172.783	1.538	-1.524	0.333	-0.330
14	160.199	162.605	165.032	1.492	-1.480	0.325	-0.322
15	153.185	155.416	157.664	1.446	-1.435	0.317	-0.314
16	146.510	148.577	150.658	1.400	-1.391	0.308	-0.306
17	140.155	142.068	143.994	1.355	-1.347	0.300	-0.298
18	134.103	135.874	137.654	1.310	-1.303	0.292	-0.290
19	128.339	129.976	131.620	1.265	-1.259	0.283	-0.282
20	122.847	124.358	125.876	1.220	-1.215	0.275	-0.274
21	117.613	119.008	120.407	1.175	-1.172	0.266	-0.265
22	112.623	113.909	115.198	1.131	-1.128	0.258	-0.257
23	107.865	109.049	110.235	1.087	-1.085	0.249	-0.248
24	103.328	104.417	105.507	1.043	-1.042	0.240	-0.240
25	99.000	100.000	101.000	1.000	-1.000	0.232	-0.232
26	94.788	95.786	96.786	1.043	-1.042	0.243	-0.243
27	90.772	91.767	92.765	1.086	-1.085	0.254	-0.254
28	86.941	87.932	88.926	1.129	-1.127	0.266	-0.265

29	83.287	84.272	85.261	1.172	-1.169	0.277	-0.277
30	79.800	80.779	81.761	1.215	-1.211	0.289	-0.288
31	76.473	77.443	78.418	1.258	-1.252	0.301	-0.299
32	73.297	74.258	75.224	1.301	-1.294	0.313	-0.311
33	70.264	71.215	72.172	1.343	-1.335	0.325	-0.323
34	67.368	68.309	69.255	1.385	-1.376	0.337	-0.334
35	64.603	65.532	66.467	1.427	-1.417	0.349	-0.346
36	61.961	62.878	63.802	1.469	-1.458	0.361	-0.358
37	59.437	60.341	61.253	1.511	-1.498	0.373	-0.370
38	57.024	57.916	58.815	1.553	-1.539	0.385	-0.382
39	54.719	55.597	56.484	1.594	-1.579	0.398	-0.394
40	52.515	53.380	54.253	1.635	-1.619	0.410	-0.406
41	50.408	51.259	52.119	1.677	-1.659	0.423	-0.418
42	48.394	49.230	50.076	1.718	-1.699	0.435	-0.430
43	46.467	47.289	48.121	1.759	-1.738	0.448	-0.443
44	44.624	45.432	46.250	1.799	-1.777	0.461	-0.455
45	42.861	43.654	44.458	1.840	-1.817	0.473	-0.467
46	41.174	41.952	42.742	1.881	-1.856	0.486	-0.480
47	39.559	40.323	41.098	1.921	-1.895	0.499	-0.492
48	38.014	38.764	39.524	1.961	-1.933	0.512	-0.505
49	36.535	37.270	38.016	2.001	-1.972	0.525	-0.518
50	35.119	35.840	36.571	2.041	-2.010	0.539	-0.530
51	33.763	34.469	35.187	2.081	-2.048	0.552	-0.543
52	32.464	33.156	33.860	2.121	-2.086	0.565	-0.556
53	31.221	31.898	32.588	2.160	-2.124	0.579	-0.569
54	30.029	30.693	31.368	2.200	-2.162	0.592	-0.582
55	28.888	29.538	30.199	2.239	-2.199	0.606	-0.595
56	27.794	28.430	29.078	2.278	-2.237	0.619	-0.608
57	26.746	27.368	28.002	2.317	-2.274	0.633	-0.622
58	25.741	26.350	26.971	2.356	-2.311	0.647	-0.635
59	24.778	25.374	25.981	2.394	-2.348	0.661	-0.648
60	23.855	24.437	25.032	2.433	-2.385	0.675	-0.662
61	22.969	23.539	24.121	2.471	-2.421	0.689	-0.675
62	22.120	22.678	23.247	2.509	-2.458	0.703	-0.689
63	21.306	21.851	22.408	2.547	-2.494	0.717	-0.702
64	20.525	21.057	21.602	2.585	-2.530	0.731	-0.716
65	19.775	20.296	20.828	2.623	-2.566	0.746	-0.730
66	19.056	19.565	20.086	2.661	-2.601	0.760	-0.743
67	18.366	18.863	19.372	2.698	-2.637	0.775	-0.757
68	17.703	18.189	18.687	2.736	-2.672	0.789	-0.771
69	17.067	17.542	18.029	2.773	-2.708	0.804	-0.785
70	16.457	16.921	17.397	2.810	-2.743	0.819	-0.799
71	15.871	16.324	16.789	2.847	-2.778	0.834	-0.813
72	15.308	15.751	16.205	2.884	-2.812	0.849	-0.828
73	14.767	15.200	15.644	2.920	-2.847	0.864	-0.842

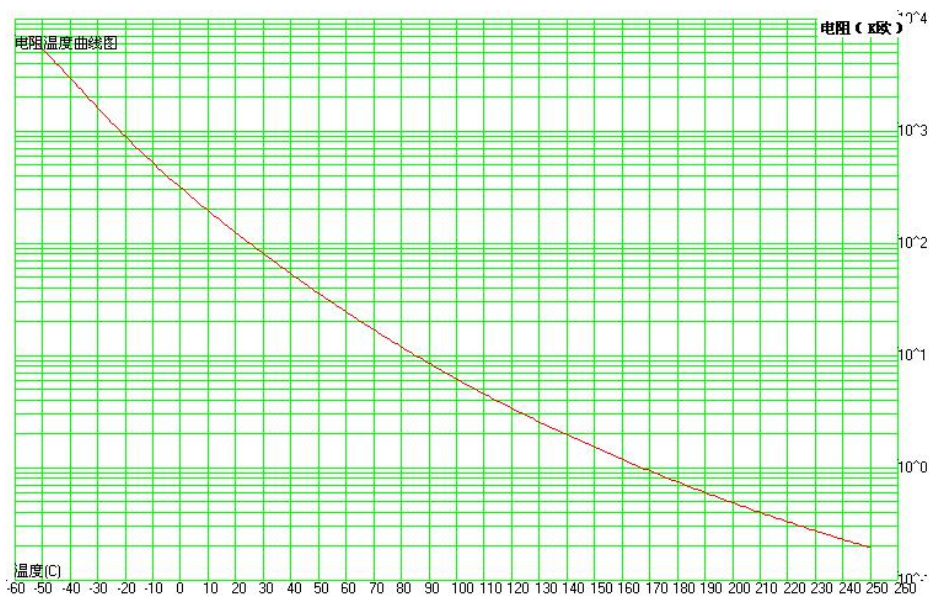
74	14.248	14.671	15.104	2.957	-2.881	0.879	-0.856
75	13.749	14.162	14.586	2.993	-2.916	0.894	-0.871
76	13.269	13.673	14.087	3.029	-2.950	0.909	-0.885
77	12.809	13.203	13.608	3.065	-2.984	0.924	-0.900
78	12.366	12.751	13.146	3.101	-3.018	0.940	-0.914
79	11.940	12.316	12.703	3.137	-3.051	0.955	-0.929
80	11.531	11.898	12.276	3.173	-3.085	0.971	-0.944
81	11.138	11.496	11.865	3.208	-3.118	0.986	-0.958
82	10.759	11.109	11.470	3.243	-3.151	1.002	-0.973
83	10.395	10.737	11.089	3.279	-3.184	1.018	-0.988
84	10.045	10.379	10.723	3.314	-3.217	1.033	-1.003
85	9.708	10.035	10.371	3.348	-3.250	1.049	-1.018
86	9.384	9.703	10.031	3.383	-3.282	1.065	-1.034
87	9.072	9.383	9.704	3.418	-3.315	1.081	-1.049
88	8.772	9.076	9.389	3.452	-3.347	1.098	-1.064
89	8.483	8.780	9.086	3.487	-3.379	1.114	-1.079
90	8.205	8.495	8.794	3.521	-3.411	1.130	-1.095
91	7.937	8.220	8.513	3.555	-3.442	1.147	-1.110
92	7.679	7.956	8.241	3.589	-3.474	1.163	-1.126
93	7.431	7.701	7.980	3.622	-3.505	1.180	-1.141
94	7.192	7.455	7.728	3.656	-3.537	1.196	-1.157
95	6.961	7.219	7.485	3.689	-3.568	1.213	-1.173
96	6.739	6.990	7.251	3.723	-3.599	1.230	-1.189
97	6.525	6.770	7.025	3.756	-3.630	1.247	-1.205
98	6.318	6.558	6.807	3.789	-3.660	1.263	-1.221
99	6.119	6.354	6.597	3.822	-3.691	1.281	-1.237
100	5.943	6.173	6.410	3.852	-3.719	1.298	-1.253
101	5.743	5.966	6.198	3.887	-3.751	1.315	-1.269
102	5.564	5.783	6.010	3.920	-3.781	1.332	-1.285
103	5.392	5.606	5.827	3.952	-3.811	1.349	-1.301
104	5.226	5.435	5.652	3.984	-3.841	1.367	-1.318
105	5.066	5.270	5.482	4.016	-3.871	1.384	-1.334
106	4.911	5.111	5.318	4.048	-3.900	1.402	-1.351
107	4.762	4.957	5.159	4.080	-3.929	1.420	-1.367
108	4.618	4.809	5.007	4.111	-3.959	1.437	-1.384
109	4.479	4.666	4.859	4.143	-3.988	1.455	-1.401
110	4.345	4.527	4.716	4.174	-4.017	1.473	-1.417
111	4.216	4.394	4.578	4.206	-4.045	1.491	-1.434
112	4.091	4.264	4.445	4.237	-4.074	1.509	-1.451
113	3.970	4.140	4.316	4.268	-4.102	1.527	-1.468
114	3.853	4.019	4.192	4.298	-4.131	1.545	-1.485
115	3.740	3.903	4.072	4.329	-4.159	1.564	-1.502
116	3.631	3.790	3.955	4.360	-4.187	1.582	-1.519
117	3.526	3.681	3.843	4.390	-4.215	1.600	-1.536
118	3.424	3.576	3.734	4.420	-4.243	1.619	-1.554

119	3.326	3.474	3.629	4.450	-4.270	1.637	-1.571
120	3.230	3.376	3.527	4.480	-4.298	1.656	-1.589
121	3.138	3.280	3.428	4.510	-4.325	1.675	-1.606
122	3.049	3.188	3.333	4.540	-4.353	1.694	-1.624
123	2.963	3.099	3.241	4.570	-4.380	1.713	-1.641
124	2.880	3.013	3.151	4.599	-4.407	1.732	-1.659
125	2.799	2.929	3.065	4.629	-4.433	1.751	-1.677
126	2.721	2.849	2.981	4.658	-4.460	1.770	-1.695
127	2.646	2.770	2.900	4.687	-4.487	1.789	-1.712
128	2.573	2.695	2.822	4.716	-4.513	1.808	-1.730
129	2.502	2.621	2.746	4.745	-4.540	1.828	-1.748
130	2.434	2.550	2.672	4.774	-4.566	1.847	-1.767
131	2.367	2.481	2.601	4.802	-4.592	1.867	-1.785
132	2.303	2.415	2.532	4.831	-4.618	1.886	-1.803
133	2.241	2.350	2.464	4.859	-4.644	1.906	-1.821
134	2.181	2.288	2.400	4.888	-4.669	1.926	-1.840
135	2.122	2.227	2.337	4.916	-4.695	1.946	-1.858
136	2.066	2.168	2.276	4.944	-4.720	1.965	-1.877
137	2.011	2.111	2.216	4.972	-4.746	1.985	-1.895
138	1.958	2.056	2.159	5.000	-4.771	2.006	-1.914
139	1.907	2.003	2.103	5.027	-4.796	2.026	-1.933
140	1.857	1.951	2.049	5.055	-4.821	2.046	-1.951
141	1.808	1.900	1.997	5.082	-4.846	2.066	-1.970
142	1.761	1.852	1.946	5.110	-4.871	2.087	-1.989
143	1.716	1.804	1.897	5.137	-4.895	2.107	-2.008
144	1.672	1.758	1.849	5.164	-4.920	2.128	-2.027
145	1.629	1.714	1.803	5.191	-4.944	2.148	-2.046
146	1.587	1.670	1.757	5.218	-4.969	2.169	-2.065
147	1.547	1.628	1.714	5.245	-4.993	2.190	-2.085
148	1.508	1.588	1.671	5.271	-5.017	2.211	-2.104
149	1.470	1.548	1.630	5.298	-5.041	2.231	-2.123
150	1.433	1.510	1.590	5.325	-5.065	2.252	-2.143
151	1.397	1.472	1.551	5.351	-5.089	2.274	-2.162
152	1.362	1.436	1.513	5.377	-5.112	2.295	-2.182
153	1.329	1.401	1.476	5.403	-5.136	2.316	-2.201
154	1.296	1.367	1.441	5.429	-5.159	2.337	-2.221
155	1.264	1.333	1.406	5.455	-5.183	2.359	-2.241
156	1.233	1.301	1.372	5.481	-5.206	2.380	-2.261
157	1.203	1.270	1.340	5.507	-5.229	2.402	-2.280
158	1.174	1.239	1.308	5.532	-5.252	2.423	-2.300
159	1.146	1.210	1.277	5.558	-5.275	2.445	-2.320
160	1.118	1.181	1.247	5.583	-5.298	2.467	-2.341
161	1.091	1.153	1.218	5.609	-5.320	2.489	-2.361
162	1.065	1.126	1.189	5.634	-5.343	2.511	-2.381
163	1.040	1.099	1.161	5.659	-5.365	2.533	-2.401

164	1.016	1.073	1.134	5.684	-5.388	2.555	-2.422
165	0.992	1.048	1.108	5.709	-5.410	2.577	-2.442
166	0.968	1.024	1.083	5.734	-5.432	2.599	-2.463
167	0.946	1.000	1.058	5.759	-5.454	2.622	-2.483
168	0.924	0.977	1.034	5.783	-5.476	2.644	-2.504
169	0.902	0.955	1.010	5.808	-5.498	2.666	-2.524
170	0.882	0.933	0.988	5.832	-5.520	2.689	-2.545
171	0.861	0.912	0.965	5.857	-5.542	2.712	-2.566
172	0.842	0.891	0.944	5.881	-5.564	2.734	-2.587
173	0.822	0.871	0.923	5.905	-5.585	2.757	-2.608
174	0.804	0.852	0.902	5.929	-5.607	2.780	-2.629
175	0.786	0.832	0.882	5.953	-5.628	2.803	-2.650
176	0.768	0.814	0.863	5.977	-5.649	2.826	-2.671
177	0.751	0.796	0.844	6.001	-5.670	2.849	-2.692
178	0.734	0.778	0.825	6.024	-5.691	2.872	-2.714
179	0.718	0.761	0.807	6.048	-5.712	2.896	-2.735
180	0.702	0.744	0.790	6.071	-5.733	2.919	-2.756
181	0.686	0.728	0.773	6.095	-5.754	2.942	-2.778
182	0.671	0.712	0.756	6.118	-5.775	2.966	-2.799
183	0.656	0.697	0.740	6.141	-5.795	2.989	-2.821
184	0.642	0.682	0.724	6.165	-5.816	3.013	-2.843
185	0.628	0.667	0.708	6.188	-5.836	3.037	-2.864
186	0.615	0.653	0.693	6.211	-5.857	3.061	-2.886
187	0.601	0.639	0.679	6.233	-5.877	3.084	-2.908
188	0.588	0.625	0.665	6.256	-5.897	3.108	-2.930
189	0.576	0.612	0.651	6.279	-5.917	3.132	-2.952
190	0.564	0.599	0.637	6.302	-5.937	3.157	-2.974
191	0.552	0.587	0.624	6.324	-5.957	3.181	-2.996
192	0.540	0.574	0.611	6.347	-5.977	3.205	-3.018
193	0.529	0.562	0.598	6.369	-5.997	3.229	-3.041
194	0.518	0.551	0.586	6.391	-6.017	3.254	-3.063
195	0.507	0.539	0.574	6.413	-6.036	3.278	-3.086
196	0.496	0.528	0.562	6.436	-6.056	3.303	-3.108
197	0.486	0.517	0.551	6.458	-6.075	3.328	-3.131
198	0.476	0.507	0.540	6.480	-6.095	3.352	-3.153
199	0.466	0.497	0.529	6.501	-6.114	3.377	-3.176
200	0.457	0.487	0.518	6.523	-6.133	3.402	-3.199
201	0.447	0.477	0.508	6.545	-6.152	3.427	-3.221
202	0.438	0.467	0.498	6.566	-6.171	3.452	-3.244
203	0.429	0.458	0.488	6.588	-6.190	3.477	-3.267
204	0.421	0.449	0.478	6.609	-6.209	3.502	-3.290
205	0.412	0.440	0.469	6.631	-6.228	3.528	-3.313
206	0.404	0.431	0.460	6.652	-6.246	3.553	-3.336
207	0.396	0.423	0.451	6.673	-6.265	3.578	-3.360
208	0.388	0.414	0.442	6.694	-6.284	3.604	-3.383



209	0.381	0.406	0.433	6.715	-6.302	3.630	-3.406
210	0.373	0.398	0.425	6.736	-6.321	3.655	-3.430
211	0.366	0.391	0.417	6.757	-6.339	3.681	-3.453
212	0.359	0.383	0.409	6.778	-6.357	3.707	-3.477
213	0.352	0.376	0.401	6.799	-6.375	3.733	-3.500
214	0.345	0.368	0.394	6.819	-6.393	3.759	-3.524
215	0.338	0.361	0.386	6.840	-6.411	3.785	-3.548
216	0.332	0.355	0.379	6.860	-6.429	3.811	-3.571
217	0.325	0.348	0.372	6.881	-6.447	3.837	-3.595
218	0.319	0.341	0.365	6.901	-6.465	3.863	-3.619
219	0.313	0.335	0.358	6.921	-6.482	3.890	-3.643
220	0.307	0.329	0.351	6.941	-6.500	3.916	-3.667
221	0.301	0.323	0.345	6.961	-6.518	3.943	-3.691
222	0.296	0.317	0.339	6.981	-6.535	3.969	-3.716
223	0.290	0.311	0.332	7.001	-6.552	3.996	-3.740
224	0.285	0.305	0.326	7.021	-6.570	4.023	-3.764
225	0.280	0.299	0.321	7.041	-6.587	4.050	-3.789
226	0.274	0.294	0.315	7.061	-6.604	4.077	-3.813
227	0.269	0.289	0.309	7.080	-6.621	4.104	-3.838
228	0.265	0.283	0.304	7.100	-6.638	4.131	-3.862
229	0.260	0.278	0.298	7.119	-6.655	4.158	-3.887
230	0.255	0.273	0.293	7.138	-6.672	4.185	-3.912
231	0.250	0.268	0.288	7.158	-6.689	4.212	-3.936
232	0.246	0.264	0.283	7.177	-6.705	4.240	-3.961
233	0.242	0.259	0.278	7.196	-6.722	4.267	-3.986
234	0.237	0.254	0.273	7.215	-6.739	4.295	-4.011
235	0.233	0.250	0.268	7.234	-6.755	4.322	-4.036
236	0.229	0.246	0.263	7.253	-6.771	4.350	-4.062
237	0.225	0.241	0.259	7.271	-6.788	4.378	-4.087
238	0.221	0.237	0.254	7.290	-6.804	4.406	-4.112
239	0.217	0.233	0.250	7.309	-6.820	4.434	-4.137
240	0.213	0.229	0.246	7.327	-6.836	4.462	-4.163
241	0.210	0.225	0.242	7.346	-6.852	4.490	-4.188
242	0.206	0.221	0.238	7.364	-6.868	4.518	-4.214
243	0.203	0.218	0.234	7.382	-6.884	4.546	-4.239
244	0.199	0.214	0.230	7.401	-6.900	4.575	-4.265
245	0.196	0.210	0.226	7.419	-6.916	4.603	-4.291
246	0.192	0.207	0.222	7.437	-6.931	4.632	-4.317
247	0.189	0.203	0.219	7.455	-6.947	4.660	-4.343
248	0.186	0.200	0.215	7.473	-6.962	4.689	-4.369
249	0.183	0.197	0.211	7.490	-6.978	4.717	-4.395
250	0.180	0.194	0.208	7.508	-6.993	4.746	-4.421



附表:2

南京时恒电阻误差曲线图

