



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 MF58-103H 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:

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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: MF58-103H 3950

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:

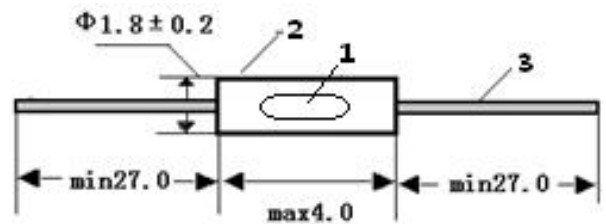
1. 电气性能

	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 ₂₅	T _a =25±0.05℃ 测试功率≤0.1mw	KΩ	10KΩ±3%
1.2	B 值	B _{25/50}	$B = \frac{(T_a \times T_b) / (T_b - T_a)}{\ln(R_a/R_b)}$ T _b =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 _{max}	/	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 ₂₅ 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 ₂₅ ΔR/R≤±2%
2.4 稳态湿热	温度: 40℃±2℃, 湿度: 93±2%, 时间: 500 小时	R ₂₅ ΔR/R≤±2%
2.5 温度快速变化	-55℃30min→25℃5min→250℃30min→25℃5min, 反复 5 次	R ₂₅ ΔR/R≤±2%
2.6 高温储存	温度: 250℃±5℃, 时间: 1000 小时	R ₂₅ ΔR/R≤±2%
2.7 低温储存	温度: -55℃±5℃, 时间: 1000 小时	R ₂₅ 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 103 H 3950

① ② ③ ④

- ① MF58: 玻壳测温型 NTC 热敏电阻
- ② 103: 25℃的零功率电阻值 10KΩ
- ③ H: 阻值精度代码 F-±1% G-±2% H-±3% J-±5%
- ④ 3950: B_{25/50} 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)

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=10K Ω 精度:±3% B25/50=3950K B25/85=3986K 精度:±1%(F4-17)							
温度(°C)	电阻(K Ω)			电阻精度(%)		温度精度(°C)	
	最小值	中心值	最大值	ΔR	$-\Delta R$	ΔT	$-\Delta T$
-55	1291.840	1399.250	1514.230	8.217	-7.676	0.973	-0.909
-54	1084.480	1172.570	1266.690	8.026	-7.513	0.978	-0.915
-53	925.664	999.260	1077.730	7.853	-7.365	0.982	-0.921
-52	801.694	864.178	930.693	7.696	-7.230	0.985	-0.926
-51	703.229	757.035	814.225	7.554	-7.107	0.988	-0.930
-50	623.756	670.669	720.461	7.424	-6.994	0.990	-0.933
-49	558.654	600.002	643.830	7.304	-6.891	0.992	-0.936
-48	504.582	541.371	580.319	7.194	-6.795	0.993	-0.938
-47	459.088	492.090	526.990	7.092	-6.706	0.994	-0.940
-46	420.349	450.165	481.663	6.996	-6.623	0.994	-0.941
-45	386.988	414.092	442.695	6.907	-6.545	0.993	-0.941
-44	357.954	382.723	408.837	6.823	-6.471	0.992	-0.941
-43	332.438	355.176	379.128	6.743	-6.401	0.991	-0.941
-42	309.810	330.764	352.818	6.667	-6.335	0.989	-0.940
-41	289.573	308.947	329.322	6.594	-6.271	0.987	-0.939
-40	271.335	289.300	308.176	6.524	-6.209	0.985	-0.938
-39	254.784	271.480	289.010	6.457	-6.149	0.983	-0.936
-38	239.669	255.217	271.529	6.391	-6.091	0.980	-0.934
-37	225.787	240.290	255.494	6.327	-6.035	0.977	-0.932
-36	212.974	226.520	240.710	6.264	-5.979	0.974	-0.929
-35	201.095	213.761	227.020	6.202	-5.925	0.970	-0.927
-34	190.039	201.893	214.294	6.142	-5.871	0.967	-0.924
-33	179.715	190.818	202.424	6.082	-5.818	0.963	-0.921
-32	170.048	180.452	191.321	6.023	-5.765	0.959	-0.918
-31	160.973	170.728	180.911	5.964	-5.713	0.956	-0.915
-30	152.438	161.587	171.130	5.906	-5.661	0.952	-0.912
-29	144.396	152.979	161.925	5.848	-5.610	0.948	-0.909
-28	136.810	144.862	153.251	5.790	-5.558	0.943	-0.906
-27	129.645	137.201	145.067	5.733	-5.507	0.939	-0.902
-26	122.872	129.963	137.339	5.675	-5.456	0.935	-0.899
-25	116.465	123.120	130.037	5.618	-5.404	0.931	-0.895
-24	110.402	116.647	123.134	5.561	-5.353	0.927	-0.892
-23	104.661	110.522	116.606	5.504	-5.302	0.922	-0.888
-22	99.225	104.725	110.430	5.447	-5.251	0.918	-0.885
-21	94.076	99.237	104.587	5.391	-5.200	0.913	-0.881
-20	89.199	94.042	99.058	5.334	-5.149	0.909	-0.877
-19	84.579	89.123	93.827	5.277	-5.098	0.904	-0.874
-18	80.203	84.467	88.877	5.221	-5.047	0.900	-0.870
-17	76.058	80.059	84.194	5.165	-4.996	0.895	-0.866

-16	72.133	75.886	79.763	5.108	-4.946	0.891	-0.863
-15	68.415	71.937	75.572	5.052	-4.895	0.886	-0.859
-14	64.895	68.199	71.607	4.996	-4.844	0.882	-0.855
-13	61.563	64.662	67.857	4.940	-4.793	0.877	-0.851
-12	58.407	61.316	64.311	4.884	-4.743	0.872	-0.847
-11	55.421	58.150	60.958	4.829	-4.692	0.868	-0.843
-10	52.594	55.155	57.788	4.773	-4.642	0.863	-0.839
-9	49.919	52.321	54.790	4.718	-4.591	0.858	-0.835
-8	47.387	49.641	51.956	4.663	-4.541	0.854	-0.831
-7	44.991	47.107	49.278	4.608	-4.491	0.849	-0.827
-6	42.723	44.709	46.746	4.554	-4.441	0.844	-0.823
-5	40.578	42.442	44.352	4.499	-4.392	0.839	-0.819
-4	38.548	40.298	42.089	4.445	-4.342	0.835	-0.815
-3	36.627	38.270	39.951	4.391	-4.293	0.830	-0.811
-2	34.809	36.352	37.929	4.338	-4.243	0.825	-0.807
-1	33.089	34.537	36.017	4.284	-4.194	0.820	-0.803
0	31.033	32.371	33.736	4.217	-4.132	0.822	-0.805
1	29.919	31.198	32.501	4.178	-4.097	0.810	-0.794
2	28.461	29.662	30.886	4.126	-4.048	0.805	-0.790
3	27.080	28.208	29.358	4.073	-4.000	0.800	-0.786
4	25.772	26.833	27.912	4.021	-3.952	0.795	-0.781
5	24.534	25.531	26.545	3.970	-3.904	0.790	-0.777
6	23.362	24.299	25.251	3.918	-3.857	0.785	-0.772
7	22.251	23.133	24.027	3.867	-3.810	0.779	-0.768
8	21.199	22.028	22.869	3.816	-3.763	0.774	-0.763
9	20.202	20.982	21.772	3.766	-3.716	0.769	-0.759
10	19.163	19.893	20.631	3.710	-3.664	0.768	-0.759
11	18.361	19.052	19.750	3.666	-3.623	0.758	-0.749
12	17.512	18.162	18.818	3.616	-3.577	0.753	-0.745
13	16.706	17.318	17.936	3.567	-3.531	0.748	-0.740
14	15.942	16.518	17.099	3.518	-3.485	0.742	-0.735
15	15.217	15.760	16.306	3.469	-3.440	0.737	-0.730
16	14.529	15.040	15.555	3.421	-3.395	0.731	-0.726
17	13.876	14.357	14.842	3.373	-3.350	0.726	-0.721
18	13.256	13.710	14.165	3.325	-3.305	0.720	-0.716
19	12.667	13.095	13.524	3.278	-3.261	0.714	-0.711
20	12.108	12.511	12.915	3.231	-3.217	0.709	-0.705
21	11.576	11.956	12.337	3.184	-3.173	0.703	-0.700
22	11.071	11.429	11.787	3.137	-3.129	0.697	-0.695
23	10.591	10.928	11.266	3.091	-3.086	0.691	-0.690
24	10.134	10.452	10.770	3.045	-3.042	0.685	-0.685
25	9.700	10.000	10.300	3.000	-3.000	0.680	-0.680
26	9.278	9.569	9.860	3.045	-3.042	0.694	-0.693
27	8.877	9.160	9.443	3.090	-3.085	0.709	-0.708
28	8.496	8.770	9.045	3.135	-3.127	0.724	-0.722

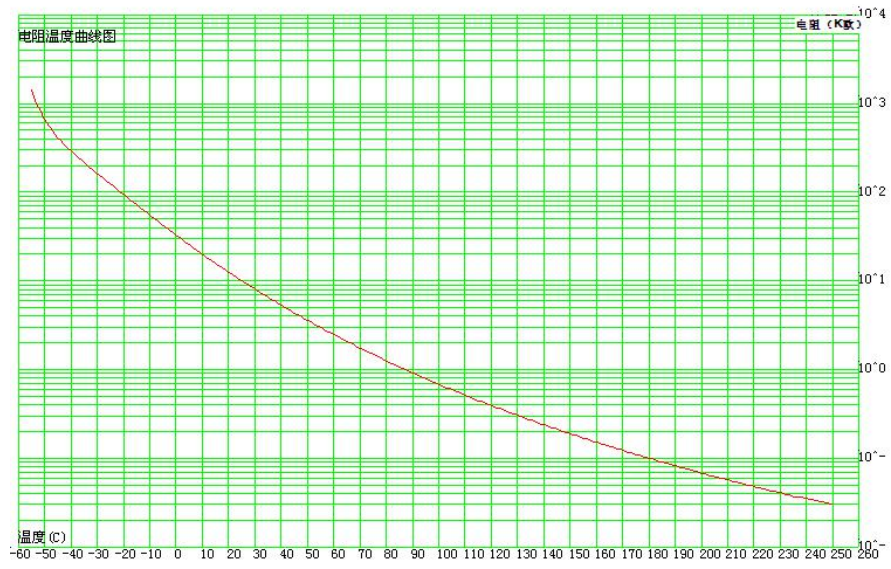
29	8.133	8.399	8.666	3.179	-3.169	0.739	-0.736
30	7.788	8.046	8.305	3.224	-3.210	0.754	-0.750
31	7.459	7.710	7.962	3.268	-3.251	0.769	-0.765
32	7.146	7.389	7.634	3.312	-3.292	0.784	-0.779
33	6.848	7.084	7.322	3.355	-3.333	0.799	-0.794
34	6.564	6.793	7.024	3.398	-3.374	0.815	-0.809
35	6.293	6.516	6.740	3.442	-3.414	0.830	-0.824
36	6.035	6.251	6.469	3.484	-3.454	0.846	-0.838
37	5.789	5.999	6.211	3.527	-3.494	0.861	-0.853
38	5.555	5.758	5.964	3.569	-3.533	0.877	-0.868
39	5.331	5.529	5.728	3.612	-3.573	0.893	-0.883
40	5.118	5.309	5.503	3.654	-3.612	0.909	-0.898
41	4.914	5.100	5.289	3.695	-3.650	0.925	-0.914
42	4.719	4.900	5.083	3.737	-3.689	0.941	-0.929
43	4.533	4.709	4.887	3.778	-3.727	0.957	-0.944
44	4.356	4.526	4.699	3.819	-3.765	0.974	-0.960
45	4.186	4.352	4.520	3.860	-3.803	0.990	-0.975
46	4.024	4.185	4.348	3.900	-3.841	1.006	-0.991
47	3.870	4.026	4.184	3.941	-3.878	1.023	-1.007
48	3.721	3.873	4.027	3.981	-3.915	1.040	-1.022
49	3.580	3.727	3.877	4.021	-3.952	1.056	-1.038
50	3.444	3.588	3.733	4.061	-3.989	1.073	-1.054
51	3.315	3.454	3.595	4.100	-4.025	1.090	-1.070
52	3.191	3.326	3.464	4.140	-4.061	1.107	-1.086
53	3.072	3.203	3.337	4.179	-4.097	1.124	-1.102
54	2.958	3.086	3.216	4.218	-4.133	1.141	-1.118
55	2.849	2.973	3.100	4.256	-4.169	1.158	-1.135
56	2.745	2.866	2.989	4.295	-4.204	1.176	-1.151
57	2.645	2.762	2.882	4.333	-4.239	1.193	-1.167
58	2.549	2.663	2.780	4.371	-4.274	1.211	-1.184
59	2.458	2.568	2.682	4.409	-4.309	1.228	-1.200
60	2.370	2.477	2.587	4.447	-4.343	1.246	-1.217
61	2.285	2.390	2.497	4.484	-4.378	1.264	-1.234
62	2.204	2.306	2.410	4.521	-4.412	1.282	-1.251
63	2.127	2.226	2.327	4.559	-4.446	1.300	-1.268
64	2.052	2.148	2.247	4.595	-4.480	1.318	-1.284
65	1.981	2.074	2.170	4.632	-4.513	1.336	-1.301
66	1.912	2.003	2.097	4.669	-4.546	1.354	-1.319
67	1.846	1.935	2.026	4.705	-4.580	1.372	-1.336
68	1.783	1.869	1.958	4.741	-4.613	1.391	-1.353
69	1.722	1.806	1.892	4.777	-4.645	1.409	-1.370
70	1.664	1.745	1.829	4.813	-4.678	1.428	-1.388
71	1.607	1.687	1.769	4.849	-4.710	1.447	-1.405
72	1.554	1.631	1.711	4.884	-4.742	1.465	-1.423
73	1.502	1.577	1.655	4.919	-4.774	1.484	-1.440

74	1.452	1.525	1.601	4.954	-4.806	1.503	-1.458
75	1.404	1.475	1.549	4.989	-4.838	1.522	-1.476
76	1.358	1.427	1.499	5.024	-4.869	1.541	-1.494
77	1.313	1.381	1.451	5.058	-4.901	1.560	-1.512
78	1.271	1.337	1.405	5.093	-4.932	1.580	-1.530
79	1.230	1.294	1.360	5.127	-4.963	1.599	-1.548
80	1.190	1.253	1.317	5.161	-4.993	1.619	-1.566
81	1.152	1.213	1.276	5.195	-5.024	1.638	-1.584
82	1.115	1.175	1.236	5.229	-5.054	1.658	-1.602
83	1.080	1.138	1.198	5.262	-5.084	1.678	-1.621
84	1.046	1.103	1.161	5.295	-5.114	1.697	-1.639
85	1.010	1.065	1.121	5.332	-5.148	1.716	-1.656
86	0.982	1.035	1.091	5.361	-5.174	1.737	-1.677
87	0.951	1.004	1.058	5.394	-5.204	1.757	-1.695
88	0.922	0.973	1.026	5.427	-5.233	1.778	-1.714
89	0.894	0.944	0.995	5.459	-5.262	1.798	-1.733
90	0.867	0.915	0.965	5.492	-5.291	1.818	-1.752
91	0.840	0.888	0.937	5.524	-5.320	1.839	-1.771
92	0.815	0.861	0.909	5.556	-5.349	1.859	-1.790
93	0.790	0.835	0.882	5.588	-5.377	1.880	-1.809
94	0.767	0.811	0.856	5.619	-5.406	1.901	-1.828
95	0.744	0.787	0.831	5.651	-5.434	1.921	-1.848
96	0.722	0.764	0.807	5.682	-5.462	1.942	-1.867
97	0.701	0.742	0.784	5.714	-5.490	1.963	-1.886
98	0.680	0.720	0.762	5.745	-5.518	1.984	-1.906
99	0.661	0.699	0.740	5.775	-5.545	2.006	-1.926
100	0.639	0.677	0.716	5.811	-5.577	2.025	-1.944
101	0.623	0.660	0.698	5.837	-5.600	2.048	-1.965
102	0.605	0.641	0.679	5.867	-5.627	2.070	-1.985
103	0.588	0.623	0.660	5.898	-5.654	2.091	-2.005
104	0.571	0.606	0.642	5.928	-5.681	2.113	-2.025
105	0.555	0.589	0.624	5.958	-5.708	2.135	-2.045
106	0.539	0.572	0.607	5.988	-5.734	2.156	-2.065
107	0.524	0.557	0.590	6.017	-5.761	2.178	-2.085
108	0.510	0.541	0.574	6.047	-5.787	2.200	-2.106
109	0.496	0.526	0.558	6.076	-5.813	2.222	-2.126
110	0.482	0.512	0.543	6.105	-5.839	2.244	-2.146
111	0.469	0.498	0.529	6.135	-5.865	2.267	-2.167
112	0.456	0.485	0.515	6.164	-5.890	2.289	-2.188
113	0.444	0.472	0.501	6.192	-5.916	2.312	-2.208
114	0.432	0.459	0.488	6.221	-5.941	2.334	-2.229
115	0.420	0.447	0.475	6.250	-5.967	2.357	-2.250
116	0.409	0.435	0.463	6.278	-5.992	2.379	-2.271
117	0.398	0.424	0.450	6.306	-6.017	2.402	-2.292
118	0.388	0.413	0.439	6.335	-6.042	2.425	-2.313

119	0.377	0.402	0.427	6.363	-6.067	2.448	-2.334
120	0.368	0.391	0.417	6.390	-6.091	2.471	-2.355
121	0.358	0.381	0.406	6.418	-6.116	2.494	-2.377
122	0.349	0.372	0.396	6.446	-6.140	2.518	-2.398
123	0.340	0.362	0.386	6.473	-6.164	2.541	-2.420
124	0.331	0.353	0.376	6.501	-6.188	2.564	-2.441
125	0.323	0.344	0.366	6.528	-6.212	2.588	-2.463
126	0.314	0.335	0.357	6.555	-6.236	2.611	-2.484
127	0.306	0.327	0.349	6.582	-6.260	2.635	-2.506
128	0.299	0.319	0.340	6.609	-6.283	2.659	-2.528
129	0.291	0.311	0.332	6.636	-6.307	2.683	-2.550
130	0.284	0.303	0.323	6.662	-6.330	2.707	-2.572
131	0.277	0.296	0.316	6.689	-6.354	2.731	-2.594
132	0.270	0.289	0.308	6.715	-6.377	2.755	-2.616
133	0.263	0.282	0.301	6.741	-6.400	2.779	-2.638
134	0.257	0.275	0.293	6.767	-6.423	2.803	-2.661
135	0.251	0.268	0.286	6.793	-6.445	2.828	-2.683
136	0.245	0.262	0.280	6.819	-6.468	2.852	-2.705
137	0.239	0.255	0.273	6.845	-6.491	2.877	-2.728
138	0.233	0.249	0.267	6.871	-6.513	2.902	-2.751
139	0.228	0.243	0.260	6.896	-6.535	2.926	-2.773
140	0.222	0.238	0.254	6.921	-6.558	2.951	-2.796
141	0.217	0.232	0.248	6.947	-6.580	2.976	-2.819
142	0.212	0.227	0.243	6.972	-6.602	3.001	-2.842
143	0.207	0.222	0.237	6.997	-6.623	3.026	-2.865
144	0.202	0.216	0.232	7.022	-6.645	3.052	-2.888
145	0.197	0.211	0.226	7.047	-6.667	3.077	-2.911
146	0.193	0.207	0.221	7.072	-6.688	3.102	-2.934
147	0.188	0.202	0.216	7.096	-6.710	3.128	-2.957
148	0.184	0.197	0.211	7.121	-6.731	3.153	-2.981
149	0.180	0.193	0.207	7.145	-6.753	3.179	-3.004
150	0.176	0.189	0.202	7.169	-6.774	3.205	-3.028
151	0.172	0.184	0.198	7.194	-6.795	3.230	-3.051
152	0.168	0.180	0.193	7.218	-6.816	3.256	-3.075
153	0.164	0.176	0.189	7.242	-6.836	3.282	-3.099
154	0.160	0.172	0.185	7.265	-6.857	3.308	-3.123
155	0.157	0.169	0.181	7.289	-6.878	3.335	-3.146
156	0.153	0.165	0.177	7.313	-6.898	3.361	-3.170
157	0.150	0.161	0.173	7.337	-6.919	3.387	-3.194
158	0.147	0.158	0.169	7.360	-6.939	3.414	-3.219
159	0.144	0.154	0.166	7.383	-6.959	3.440	-3.243
160	0.140	0.151	0.162	7.407	-6.980	3.467	-3.267
161	0.137	0.148	0.159	7.430	-7.000	3.494	-3.291
162	0.134	0.145	0.155	7.453	-7.020	3.520	-3.316
163	0.132	0.142	0.152	7.476	-7.040	3.547	-3.340

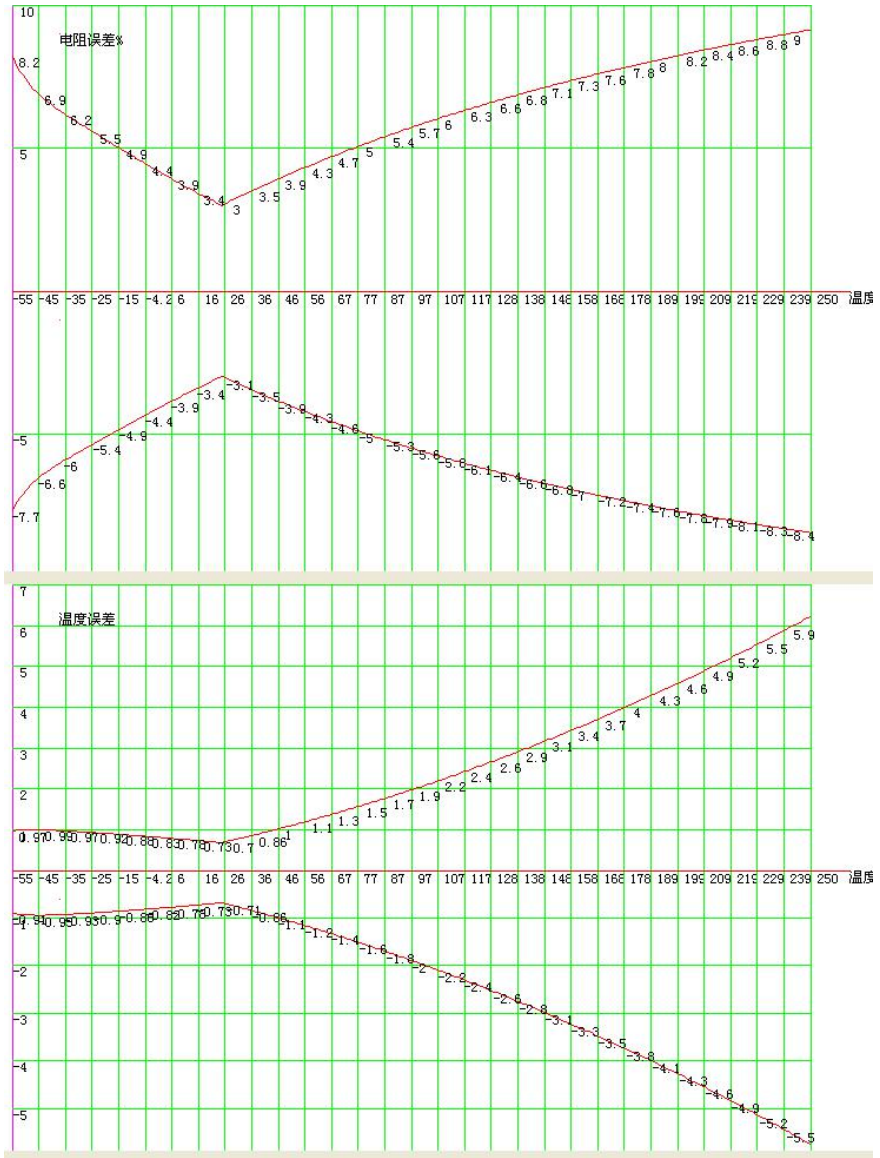
164	0.129	0.139	0.149	7.499	-7.059	3.574	-3.365
165	0.126	0.136	0.146	7.522	-7.079	3.601	-3.389
166	0.123	0.133	0.143	7.544	-7.099	3.628	-3.414
167	0.121	0.130	0.140	7.567	-7.118	3.656	-3.439
168	0.118	0.127	0.137	7.589	-7.138	3.683	-3.464
169	0.116	0.125	0.134	7.612	-7.157	3.710	-3.489
170	0.113	0.122	0.131	7.634	-7.176	3.738	-3.514
171	0.111	0.120	0.129	7.656	-7.195	3.766	-3.539
172	0.109	0.117	0.126	7.678	-7.214	3.793	-3.564
173	0.106	0.115	0.124	7.700	-7.233	3.821	-3.589
174	0.104	0.112	0.121	7.722	-7.252	3.849	-3.615
175	0.102	0.110	0.119	7.744	-7.271	3.877	-3.640
176	0.100	0.108	0.116	7.766	-7.290	3.905	-3.665
177	0.098	0.106	0.114	7.788	-7.308	3.933	-3.691
178	0.096	0.104	0.112	7.809	-7.327	3.961	-3.717
179	0.094	0.102	0.110	7.831	-7.345	3.989	-3.742
180	0.092	0.100	0.108	7.852	-7.364	4.018	-3.768
181	0.090	0.098	0.105	7.873	-7.382	4.046	-3.794
182	0.089	0.096	0.103	7.895	-7.400	4.075	-3.820
183	0.087	0.094	0.101	7.916	-7.419	4.104	-3.846
184	0.085	0.092	0.099	7.937	-7.437	4.132	-3.872
185	0.084	0.090	0.098	7.958	-7.455	4.161	-3.898
186	0.082	0.089	0.096	7.979	-7.472	4.190	-3.924
187	0.080	0.087	0.094	8.000	-7.490	4.219	-3.950
188	0.079	0.085	0.092	8.020	-7.508	4.248	-3.977
189	0.077	0.084	0.090	8.041	-7.526	4.277	-4.003
190	0.076	0.082	0.089	8.062	-7.543	4.307	-4.030
191	0.074	0.080	0.087	8.082	-7.561	4.336	-4.056
192	0.073	0.079	0.085	8.102	-7.578	4.365	-4.083
193	0.072	0.077	0.084	8.123	-7.596	4.395	-4.110
194	0.070	0.076	0.082	8.143	-7.613	4.425	-4.137
195	0.069	0.075	0.081	8.163	-7.630	4.454	-4.164
196	0.068	0.073	0.079	8.183	-7.647	4.484	-4.190
197	0.066	0.072	0.078	8.203	-7.664	4.514	-4.218
198	0.065	0.071	0.076	8.223	-7.681	4.544	-4.245
199	0.064	0.069	0.075	8.243	-7.698	4.574	-4.272
200	0.063	0.068	0.074	8.263	-7.715	4.604	-4.299
201	0.062	0.067	0.072	8.282	-7.732	4.635	-4.326
202	0.060	0.066	0.071	8.302	-7.748	4.665	-4.354
203	0.059	0.064	0.070	8.321	-7.765	4.695	-4.381
204	0.058	0.063	0.069	8.341	-7.782	4.726	-4.409
205	0.057	0.062	0.067	8.360	-7.798	4.756	-4.437
206	0.056	0.061	0.066	8.379	-7.814	4.787	-4.464
207	0.055	0.060	0.065	8.399	-7.831	4.818	-4.492
208	0.054	0.059	0.064	8.418	-7.847	4.849	-4.520

209	0.053	0.058	0.063	8.437	-7.863	4.880	-4.548
210	0.052	0.057	0.062	8.456	-7.879	4.911	-4.576
211	0.051	0.056	0.061	8.474	-7.895	4.942	-4.604
212	0.050	0.055	0.060	8.493	-7.911	4.973	-4.632
213	0.050	0.054	0.059	8.512	-7.927	5.005	-4.661
214	0.049	0.053	0.058	8.531	-7.943	5.036	-4.689
215	0.048	0.052	0.057	8.549	-7.959	5.068	-4.717
216	0.047	0.051	0.056	8.568	-7.974	5.099	-4.746
217	0.046	0.050	0.055	8.586	-7.990	5.131	-4.775
218	0.045	0.049	0.054	8.604	-8.005	5.163	-4.803
219	0.045	0.049	0.053	8.623	-8.021	5.194	-4.832
220	0.044	0.048	0.052	8.641	-8.036	5.226	-4.861
221	0.043	0.047	0.051	8.659	-8.052	5.259	-4.890
222	0.042	0.046	0.050	8.677	-8.067	5.291	-4.919
223	0.042	0.045	0.049	8.695	-8.082	5.323	-4.948
224	0.041	0.045	0.049	8.713	-8.097	5.355	-4.977
225	0.040	0.044	0.048	8.730	-8.112	5.388	-5.006
226	0.040	0.043	0.047	8.748	-8.127	5.420	-5.035
227	0.039	0.043	0.046	8.766	-8.142	5.453	-5.065
228	0.038	0.042	0.046	8.783	-8.157	5.485	-5.094
229	0.038	0.041	0.045	8.801	-8.171	5.518	-5.124
230	0.037	0.041	0.044	8.818	-8.186	5.551	-5.153
231	0.037	0.040	0.043	8.835	-8.201	5.584	-5.183
232	0.036	0.039	0.043	8.853	-8.215	5.617	-5.213
233	0.035	0.039	0.042	8.870	-8.230	5.650	-5.243
234	0.035	0.038	0.041	8.887	-8.244	5.684	-5.273
235	0.034	0.037	0.041	8.904	-8.258	5.717	-5.303
236	0.034	0.037	0.040	8.921	-8.273	5.750	-5.333
237	0.033	0.036	0.040	8.938	-8.287	5.784	-5.363
238	0.033	0.036	0.039	8.954	-8.301	5.818	-5.393
239	0.032	0.035	0.038	8.971	-8.315	5.851	-5.423
240	0.032	0.035	0.038	8.988	-8.329	5.885	-5.454
241	0.031	0.034	0.037	9.004	-8.343	5.919	-5.484
242	0.031	0.034	0.037	9.021	-8.357	5.953	-5.515
243	0.030	0.033	0.036	9.037	-8.370	5.987	-5.546
244	0.030	0.033	0.036	9.053	-8.384	6.021	-5.576
245	0.029	0.032	0.035	9.069	-8.398	6.056	-5.607
246	0.029	0.032	0.035	9.086	-8.411	6.090	-5.638
247	0.028	0.031	0.034	9.102	-8.425	6.124	-5.669
248	0.028	0.031	0.034	9.118	-8.438	6.159	-5.700
249	0.028	0.030	0.033	9.133	-8.451	6.194	-5.731
250	0.027	0.030	0.033	9.149	-8.465	6.228	-5.762



附表:2

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