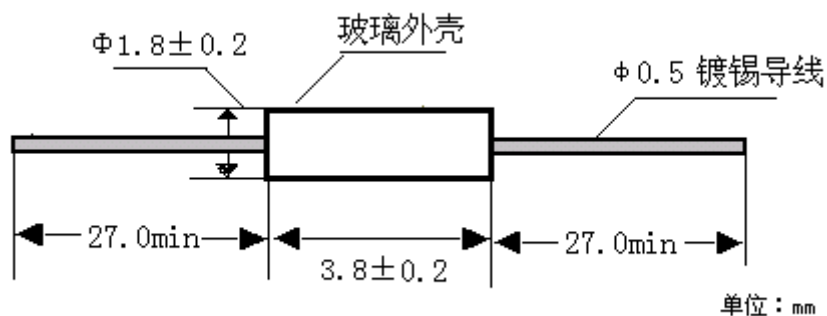


玻壳测温型热敏电阻主要技术参数

规格型号	MF58-503 J 3950
产品标准	Q/320115SHD04-2011

1、外形尺寸



2、材料

封装材料	引线材质
玻璃	镀锡钢线

3、型号说明

MF58	503	J	3950
玻壳测温型 NTC 热敏电阻器	电阻值	阻值允差	B 值 (25/50)
	$50 \times 10^3 = 50K \Omega$	±5%	3950K

4、电气性能

	项目	符号	测试条件	单位	性能要求
4.1	25℃的零功率电阻值	R_{25}	$T_a = 25 \pm 0.05^\circ\text{C}$ 测试功率 $\leq 0.1\text{mw}$ 流动液体中测试	K Ω	$50K \pm 5\%$
4.2	B 值	$B_{25/50}$	$B = [(T_a \times T_b) / (T_b - T_a)] \times \ln(R_a/R_b)$ $T_b = 50^\circ\text{C} \pm 0.05^\circ\text{C}$	K	$3950 \pm 2\%$
4.3	耗散系数	δ	静止空气中	mW/°C	≥ 2.5
4.4	时间常数	τ	静止空气中	sec	≤ 20
4.5	耐电压	/	1500V/AC 1min	/	无击穿或飞弧
4.6	绝缘电阻	/	500V/DC 1min	M Ω	≥ 500
4.7	工作温度范围	/	/	°C	-55 ~ 250
4.8	阻温特性	/	/	/	见附表 1
4.9	阻值误差	/	/	/	见附表 2

5、可靠性能试验

	项目	测试条件及方法	技术要求
5.1	可焊性	将引线浸入 $235 \pm 5^\circ\text{C}$ 的锡液中, 锡面距本体 6mm 以上, 时间 2~3 秒	焊料在引线浸入部分表面涂布均匀、光滑, 面积在 95% 以上
5.2	耐焊接热	将引线浸入 $265 \pm 5^\circ\text{C}$ 的锡液中, 液面距电阻体 6mm, 时间 5 ± 1 秒	无可见性损伤, $R_{25} \Delta R/R \leq \pm 2\%$
5.3	引线拉伸	固定电阻端, 拉力: 20 ± 1 N, 时间: 10 ± 1 秒	无可见性损伤, $R_{25} \Delta R/R \leq \pm 2\%$
5.4	温度快速变化	$-55^\circ\text{C} 20\text{min} \rightarrow 25^\circ\text{C} 5\text{min} \rightarrow 250^\circ\text{C} 20\text{min} \rightarrow 25^\circ\text{C} 5\text{min}$, 反复 5 次	无可见性损伤, $R_{25} \Delta R/R \leq \pm 2\%$
5.5	寒冷	温度: $-55^\circ\text{C} \pm 5^\circ\text{C}$, 时间: 1000 小时	无可见性损伤, $R_{25} \Delta R/R \leq \pm 2\%$
5.6	低气压	气压: 40 ± 0.1 kpa, 时间: 4 小时	无可见性损伤, $R_{25} \Delta R/R \leq \pm 2\%$
5.7	稳态温热	温度: $60^\circ\text{C} \pm 1^\circ\text{C}$, 湿度: $95 \pm 2\%$, 时间: 1000 小时	无可见性损伤, $R_{25} \Delta R/R \leq \pm 2\%$, 耐电压 $\geq 150/\text{AC} 1\text{min}$ 绝缘电阻 $\geq 10\text{M}\Omega$
5.8	交变湿热	温度: $25 \sim 40^\circ\text{C}$, 湿度: $90 \pm 2\%$, 时间: 24 小时	无可见性损伤, $R_{25} \Delta R/R \leq \pm 2\%$, 耐电压 $\geq 700/\text{AC} 1\text{min}$ 绝缘电阻 $\geq 500\text{M}\Omega$
5.9	上限类别温度下零功耗的耐久性	温度: $250^\circ\text{C} \pm 5^\circ\text{C}$, 时间: 1000 ± 24 小时	无可见性损伤, $R_{25} \Delta R/R \leq \pm 2\%$
5.10	振动	频率范围: $10 \sim 500\text{HZ}$, 振幅: 1.5mm 或 98m/S^2 , 时间 2 小时	无可见性损伤, $R_{25} \Delta R/R \leq \pm 2\%$
5.11	碰撞	加速度: 250m/S^2 , 脉冲持续时间: 6mS, 碰撞次数: 4000 次	无可见性损伤, $R_{25} \Delta R/R \leq \pm 2\%$

6、焊接、使用条件

6.1 焊接时, 焊接处距电阻体根部至少 6mm, 焊接温度应低于 350°C , 焊接时间应尽量短。

6.2 将产品引线裁剪成所需要的长度时, 注意最小长度 $\geq 8\text{mm}$ 。

6.3 引线弯曲时弯曲点应距坡壳端 2mm 以上, 以免造成玻壳损伤。

7、储存条件

7.1 储存温度: $-10^\circ\text{C} \sim 40^\circ\text{C}$;

7.2 储存湿度: $\leq 75\% \text{RH}$;

7.3 避免存放在具有腐蚀性气体及光照的环境下;

7.4 包装打开后需重新密封保存;

附表:1

阻温特性表

R25=50K Ω 精度: $\pm 5\%$ B25/50=3950K B25/85=4055K 精度: $\pm 2\%$ (P214-9)

温度($^{\circ}\text{C}$)	电阻(K Ω)			电阻精度(%)		温度精度($^{\circ}\text{C}$)	
	最小值	中心值	最大值	ΔR	$-\Delta R$	ΔT	$-\Delta T$
-55	8502.740	9949.750	11613.900	16.720	-14.540	1.849	-1.608
-54	7230.020	8432.490	9810.360	16.330	-14.250	1.850	-1.614
-53	6199.480	7207.890	8359.390	15.970	-13.990	1.850	-1.620
-52	5357.360	6210.270	7180.960	15.630	-13.730	1.851	-1.626
-51	4663.270	5390.380	6215.300	15.300	-13.480	1.851	-1.632
-50	4086.500	4710.970	5417.300	14.990	-13.250	1.851	-1.636
-49	3603.530	4143.560	4752.590	14.690	-13.030	1.851	-1.641
-48	3196.170	3666.160	4194.750	14.410	-12.810	1.850	-1.645
-47	2850.210	3261.700	3723.250	14.150	-12.610	1.849	-1.649
-46	2554.490	2916.750	3322.050	13.890	-12.410	1.848	-1.652
-45	2300.140	2620.710	2978.500	13.650	-12.230	1.847	-1.654
-44	2080.090	2365.140	2682.530	13.410	-12.050	1.845	-1.657
-43	1888.670	2143.260	2426.090	13.190	-11.870	1.843	-1.659
-42	1721.280	1949.600	2202.700	12.980	-11.710	1.840	-1.660
-41	1574.160	1779.720	2007.100	12.770	-11.550	1.837	-1.661
-40	1444.240	1629.970	1834.990	12.570	-11.390	1.834	-1.662
-39	1329.000	1497.370	1682.850	12.380	-11.240	1.831	-1.662
-38	1226.340	1379.440	1547.780	12.200	-11.090	1.827	-1.662
-37	1134.520	1274.130	1427.340	12.020	-10.950	1.823	-1.661
-36	1052.070	1179.720	1319.540	11.850	-10.820	1.819	-1.660
-35	977.770	1094.760	1222.690	11.680	-10.680	1.814	-1.659
-34	910.570	1018.040	1135.350	11.520	-10.550	1.809	-1.657
-33	849.597	948.530	1056.330	11.360	-10.430	1.804	-1.655
-32	794.099	885.348	984.615	11.210	-10.300	1.798	-1.653
-31	743.435	827.748	919.318	11.060	-10.180	1.792	-1.650
-30	697.053	775.086	859.699	10.910	-10.060	1.786	-1.647
-29	654.478	726.810	805.117	10.770	-9.951	1.779	-1.644
-28	615.300	682.441	755.016	10.630	-9.838	1.773	-1.640
-27	579.161	641.566	708.918	10.490	-9.726	1.766	-1.636
-26	545.751	603.824	666.405	10.360	-9.617	1.758	-1.632
-25	514.799	568.900	627.114	10.230	-9.509	1.751	-1.627
-24	486.067	536.518	590.726	10.100	-9.403	1.743	-1.622
-23	459.344	506.438	556.963	9.976	-9.298	1.735	-1.617
-22	434.448	478.445	525.580	9.851	-9.195	1.726	-1.611
-21	411.215	452.351	496.358	9.728	-9.093	1.718	-1.606
-20	389.500	427.990	469.107	9.607	-8.993	1.709	-1.600
-19	369.175	405.212	443.656	9.487	-8.893	1.700	-1.594
-18	350.124	383.886	419.853	9.368	-8.794	1.691	-1.587
-17	332.245	363.894	397.562	9.252	-8.697	1.681	-1.581

阻温特性表

R25=50K Ω 精度: $\pm 5\%$ B25/50=3950K B25/85=4055K 精度: $\pm 2\%$ (P214-9)

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	$-\Delta T$
-16	315.446	345.130	376.662	9.136	-8.600	1.672	-1.574
-15	299.645	327.498	357.045	9.021	-8.504	1.662	-1.567
-14	284.766	310.913	338.611	8.908	-8.409	1.652	-1.559
-13	270.743	295.297	321.273	8.796	-8.315	1.642	-1.552
-12	257.514	280.581	304.951	8.685	-8.221	1.631	-1.544
-11	245.023	266.701	289.571	8.575	-8.128	1.621	-1.536
-10	233.221	253.600	275.069	8.465	-8.035	1.610	-1.528
-9	222.062	241.223	261.383	8.357	-7.943	1.599	-1.520
-8	211.503	229.525	248.460	8.249	-7.851	1.588	-1.512
-7	201.505	218.459	236.248	8.142	-7.760	1.577	-1.503
-6	192.034	207.987	224.702	8.036	-7.670	1.566	-1.494
-5	183.057	198.070	213.780	7.931	-7.579	1.554	-1.485
-4	174.544	188.675	203.441	7.826	-7.490	1.542	-1.476
-3	166.466	179.770	193.652	7.721	-7.400	1.530	-1.467
-2	158.799	171.325	184.378	7.618	-7.311	1.518	-1.457
-1	151.519	163.314	175.588	7.515	-7.222	1.506	-1.448
0	144.603	155.712	167.254	7.412	-7.134	1.494	-1.438
1	138.031	148.494	159.350	7.310	-7.045	1.482	-1.428
2	131.784	141.639	151.851	7.209	-6.957	1.469	-1.418
3	125.844	135.127	144.733	7.108	-6.870	1.456	-1.408
4	120.194	128.940	137.976	7.008	-6.782	1.444	-1.397
5	114.818	123.058	131.559	6.908	-6.695	1.431	-1.387
6	109.703	117.466	125.464	6.809	-6.609	1.418	-1.376
7	104.833	112.148	119.673	6.710	-6.522	1.404	-1.365
8	100.197	107.090	114.170	6.611	-6.436	1.391	-1.354
9	95.782	102.277	108.939	6.513	-6.350	1.378	-1.343
10	91.577	97.697	103.966	6.416	-6.264	1.364	-1.332
11	87.571	93.338	99.237	6.319	-6.178	1.350	-1.320
12	83.754	89.189	94.738	6.222	-6.093	1.336	-1.309
13	80.117	85.238	90.460	6.126	-6.008	1.322	-1.297
14	76.649	81.475	86.389	6.030	-5.923	1.308	-1.285
15	73.344	77.891	82.514	5.935	-5.838	1.293	-1.272
16	70.192	74.478	78.827	5.840	-5.754	1.279	-1.260
17	67.186	71.225	75.317	5.745	-5.669	1.264	-1.247
18	64.320	68.125	71.976	5.651	-5.585	1.248	-1.234
19	61.585	65.171	68.794	5.557	-5.502	1.233	-1.220
20	58.977	62.356	65.763	5.464	-5.418	1.216	-1.206
21	56.488	59.671	62.877	5.372	-5.335	1.198	-1.190
22	54.112	57.112	60.127	5.279	-5.252	1.178	-1.172
23	51.845	54.671	57.507	5.187	-5.169	1.153	-1.149

阻温特性表

R25=50K Ω 精度: $\pm 5\%$ B25/50=3950K B25/85=4055K 精度: $\pm 2\%$ (P214-9)

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	$-\Delta T$
24	49.681	52.344	55.011	5.096	-5.087	1.108	-1.106
25	47.500	50.000	52.500	5.000	-5.000	1.095	-1.095
26	45.568	48.005	50.446	5.085	-5.077	1.253	-1.251
27	43.612	45.984	48.364	5.175	-5.158	1.244	-1.240
28	41.747	44.056	46.376	5.266	-5.240	1.260	-1.254
29	39.969	42.215	44.476	5.355	-5.320	1.282	-1.274
30	38.273	40.458	42.662	5.445	-5.401	1.307	-1.296
31	36.656	38.781	40.928	5.534	-5.481	1.333	-1.320
32	35.113	37.180	39.271	5.623	-5.561	1.360	-1.344
33	33.640	35.651	37.688	5.712	-5.640	1.387	-1.369
34	32.235	34.191	36.175	5.801	-5.719	1.415	-1.395
35	30.895	32.796	34.728	5.889	-5.797	1.443	-1.421
36	29.615	31.464	33.345	5.977	-5.875	1.471	-1.446
37	28.393	30.191	32.022	6.064	-5.953	1.500	-1.473
38	27.227	28.974	30.757	6.152	-6.030	1.529	-1.499
39	26.113	27.812	29.547	6.238	-6.107	1.559	-1.526
40	25.049	26.701	28.390	6.325	-6.184	1.588	-1.553
41	24.033	25.638	27.282	6.412	-6.260	1.618	-1.580
42	23.063	24.623	26.223	6.498	-6.336	1.648	-1.607
43	22.135	23.652	25.209	6.583	-6.411	1.678	-1.634
44	21.249	22.723	24.238	6.669	-6.486	1.709	-1.662
45	20.402	21.834	23.309	6.754	-6.561	1.739	-1.690
46	19.592	20.984	22.419	6.839	-6.635	1.770	-1.717
47	18.818	20.171	21.567	6.923	-6.709	1.801	-1.745
48	18.077	19.393	20.752	7.007	-6.782	1.833	-1.774
49	17.369	18.648	19.970	7.091	-6.855	1.864	-1.802
50	16.692	17.935	19.221	7.175	-6.928	1.896	-1.831
51	16.044	17.252	18.504	7.258	-7.000	1.928	-1.859
52	15.424	16.598	17.817	7.341	-7.072	1.960	-1.888
53	14.831	15.972	17.158	7.423	-7.143	1.992	-1.917
54	14.263	15.372	16.526	7.506	-7.214	2.025	-1.946
55	13.719	14.798	15.920	7.588	-7.285	2.057	-1.975
56	13.199	14.247	15.340	7.669	-7.355	2.090	-2.005
57	12.701	13.719	14.783	7.751	-7.425	2.123	-2.034
58	12.223	13.214	14.249	7.832	-7.495	2.157	-2.064
59	11.766	12.729	13.736	7.912	-7.564	2.190	-2.094
60	11.328	12.264	13.244	7.992	-7.632	2.224	-2.124
61	10.908	11.818	12.773	8.072	-7.701	2.258	-2.154
62	10.506	11.391	12.320	8.152	-7.769	2.292	-2.184

阻温特性表

R25=50K Ω 精度: $\pm 5\%$ B25/50=3950K B25/85=4055K 精度: $\pm 2\%$ (P214-9)

温度($^{\circ}\text{C}$)	电阻(K Ω)			电阻精度(%)		温度精度($^{\circ}\text{C}$)	
	最小值	中心值	最大值	ΔR	$-\Delta R$	ΔT	$-\Delta T$
63	10.120	10.981	11.885	8.231	-7.836	2.326	-2.215
64	9.751	10.587	11.467	8.310	-7.904	2.361	-2.245
65	9.396	10.210	11.067	8.389	-7.970	2.395	-2.276
66	9.056	9.848	10.681	8.468	-8.037	2.430	-2.307
67	8.730	9.500	10.312	8.546	-8.103	2.465	-2.338
68	8.417	9.166	9.956	8.623	-8.169	2.501	-2.369
69	8.117	8.845	9.615	8.701	-8.234	2.536	-2.400
70	7.829	8.537	9.287	8.778	-8.299	2.572	-2.431
71	7.552	8.241	8.971	8.854	-8.364	2.608	-2.463
72	7.287	7.957	8.668	8.931	-8.428	2.644	-2.495
73	7.032	7.684	8.376	9.007	-8.492	2.680	-2.527
74	6.787	7.422	8.096	9.083	-8.556	2.716	-2.559
75	6.552	7.170	7.826	9.158	-8.619	2.753	-2.591
76	6.326	6.927	7.567	9.233	-8.682	2.790	-2.623
77	6.109	6.694	7.317	9.308	-8.744	2.827	-2.655
78	5.900	6.470	7.077	9.383	-8.806	2.864	-2.688
79	5.700	6.254	6.846	9.457	-8.868	2.901	-2.721
80	5.507	6.047	6.623	9.531	-8.929	2.939	-2.753
81	5.321	5.847	6.409	9.604	-8.991	2.977	-2.786
82	5.143	5.655	6.202	9.677	-9.051	3.015	-2.820
83	4.972	5.470	6.004	9.750	-9.112	3.053	-2.853
84	4.807	5.292	5.812	9.823	-9.172	3.091	-2.886
85	4.649	5.122	5.628	9.895	-9.231	3.130	-2.920
86	4.495	4.956	5.450	9.967	-9.291	3.168	-2.953
87	4.349	4.797	5.279	10.030	-9.350	3.207	-2.987
88	4.207	4.644	5.114	10.110	-9.409	3.246	-3.021
89	4.071	4.497	4.955	10.180	-9.467	3.286	-3.055
90	3.940	4.355	4.801	10.250	-9.525	3.325	-3.090
91	3.813	4.218	4.653	10.320	-9.583	3.365	-3.124
92	3.692	4.086	4.510	10.390	-9.641	3.405	-3.158
93	3.574	3.958	4.373	10.460	-9.698	3.445	-3.193
94	3.461	3.836	4.240	10.530	-9.755	3.485	-3.228
95	3.353	3.717	4.112	10.600	-9.811	3.526	-3.263
96	3.248	3.603	3.988	10.670	-9.867	3.566	-3.298
97	3.146	3.493	3.868	10.730	-9.923	3.607	-3.333
98	3.049	3.387	3.753	10.800	-9.979	3.648	-3.368
99	2.955	3.284	3.642	10.870	-10.030	3.689	-3.404
100	2.864	3.186	3.534	10.940	-10.080	3.731	-3.439
101	2.776	3.090	3.430	11.010	-10.140	3.772	-3.475
102	2.692	2.998	3.330	11.070	-10.190	3.814	-3.511

阻温特性表

R25=50K Ω 精度: $\pm 5\%$ B25/50=3950K B25/85=4055K 精度: $\pm 2\%$ (P214-9)

温度($^{\circ}\text{C}$)	电阻(K Ω)			电阻精度(%)		温度精度($^{\circ}\text{C}$)	
	最小值	中心值	最大值	ΔR	$-\Delta R$	ΔT	$-\Delta T$
103	2.611	2.909	3.233	11.140	-10.250	3.856	-3.547
104	2.532	2.823	3.139	11.210	-10.300	3.898	-3.583
105	2.456	2.740	3.049	11.270	-10.360	3.940	-3.619
106	2.383	2.660	2.961	11.340	-10.410	3.983	-3.656
107	2.312	2.582	2.877	11.410	-10.460	4.026	-3.692
108	2.243	2.507	2.795	11.470	-10.510	4.069	-3.729
109	2.177	2.435	2.716	11.540	-10.570	4.112	-3.766
110	2.114	2.365	2.639	11.600	-10.620	4.155	-3.803
111	2.052	2.297	2.565	11.670	-10.670	4.198	-3.840
112	1.992	2.232	2.494	11.730	-10.720	4.242	-3.877
113	1.935	2.169	2.425	11.800	-10.770	4.286	-3.915
114	1.879	2.107	2.358	11.860	-10.820	4.330	-3.952
115	1.825	2.048	2.293	11.920	-10.880	4.374	-3.990
116	1.773	1.991	2.230	11.990	-10.930	4.418	-4.028
117	1.723	1.936	2.169	12.050	-10.980	4.463	-4.065
118	1.674	1.882	2.110	12.110	-11.030	4.508	-4.104
119	1.627	1.830	2.053	12.180	-11.080	4.553	-4.142
120	1.582	1.780	1.998	12.240	-11.130	4.598	-4.180
121	1.538	1.731	1.944	12.300	-11.170	4.643	-4.218
122	1.495	1.684	1.893	12.360	-11.220	4.689	-4.257
123	1.454	1.639	1.842	12.420	-11.270	4.734	-4.296
124	1.414	1.595	1.794	12.480	-11.320	4.780	-4.335
125	1.375	1.552	1.747	12.550	-11.370	4.826	-4.374
126	1.338	1.510	1.701	12.610	-11.420	4.873	-4.413
127	1.301	1.470	1.657	12.670	-11.460	4.919	-4.452
128	1.266	1.431	1.614	12.730	-11.510	4.966	-4.491
129	1.232	1.394	1.572	12.790	-11.560	5.013	-4.531
130	1.199	1.357	1.531	12.850	-11.610	5.060	-4.571
131	1.167	1.322	1.492	12.910	-11.650	5.107	-4.610
132	1.136	1.287	1.454	12.970	-11.700	5.154	-4.650
133	1.106	1.254	1.417	13.030	-11.750	5.202	-4.690
134	1.077	1.221	1.381	13.090	-11.790	5.249	-4.730
135	1.049	1.190	1.347	13.140	-11.840	5.297	-4.771
136	1.022	1.160	1.313	13.200	-11.880	5.346	-4.811
137	0.995	1.130	1.280	13.260	-11.930	5.394	-4.852
138	0.970	1.102	1.248	13.320	-11.970	5.442	-4.892
139	0.945	1.074	1.218	13.380	-12.020	5.491	-4.933
140	0.920	1.047	1.188	13.440	-12.060	5.540	-4.974
141	0.897	1.021	1.158	13.490	-12.110	5.589	-5.015
142	0.874	0.995	1.130	13.550	-12.150	5.638	-5.057

阻温特性表

R25=50K Ω 精度: $\pm 5\%$ B25/50=3950K B25/85=4055K 精度: $\pm 2\%$ (P214-9)

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	$-\Delta T$
143	0.852	0.971	1.103	13.610	-12.200	5.688	-5.098
144	0.831	0.947	1.076	13.660	-12.240	5.737	-5.140
145	0.810	0.923	1.050	13.720	-12.280	5.787	-5.181
146	0.790	0.901	1.025	13.780	-12.330	5.837	-5.223
147	0.770	0.879	1.000	13.830	-12.370	5.887	-5.265
148	0.751	0.857	0.977	13.890	-12.410	5.937	-5.307
149	0.732	0.837	0.953	13.940	-12.460	5.988	-5.349
150	0.714	0.817	0.931	14.000	-12.500	6.039	-5.391
151	0.697	0.797	0.909	14.060	-12.540	6.090	-5.434
152	0.680	0.778	0.888	14.110	-12.580	6.141	-5.476
153	0.663	0.759	0.867	14.170	-12.630	6.192	-5.519
154	0.647	0.741	0.847	14.220	-12.670	6.243	-5.562
155	0.632	0.724	0.827	14.270	-12.710	6.295	-5.605
156	0.617	0.707	0.808	14.330	-12.750	6.347	-5.648
157	0.602	0.690	0.790	14.380	-12.790	6.399	-5.691
158	0.588	0.674	0.772	14.440	-12.830	6.451	-5.734
159	0.574	0.659	0.754	14.490	-12.870	6.503	-5.778
160	0.560	0.643	0.737	14.540	-12.910	6.556	-5.822
161	0.547	0.629	0.720	14.600	-12.950	6.609	-5.865
162	0.534	0.614	0.704	14.650	-13.000	6.662	-5.909
163	0.522	0.600	0.689	14.700	-13.040	6.715	-5.953
164	0.510	0.587	0.673	14.760	-13.080	6.768	-5.997
165	0.498	0.573	0.658	14.810	-13.120	6.821	-6.042
166	0.487	0.560	0.644	14.860	-13.150	6.875	-6.086
167	0.475	0.548	0.630	14.910	-13.190	6.929	-6.130
168	0.465	0.535	0.616	14.970	-13.230	6.983	-6.175
169	0.454	0.524	0.602	15.020	-13.270	7.037	-6.220
170	0.444	0.512	0.589	15.070	-13.310	7.092	-6.265
171	0.434	0.501	0.576	15.120	-13.350	7.146	-6.310
172	0.424	0.490	0.564	15.170	-13.390	7.201	-6.355
173	0.414	0.479	0.552	15.220	-13.430	7.256	-6.400
174	0.405	0.468	0.540	15.270	-13.470	7.311	-6.446
175	0.396	0.458	0.528	15.320	-13.500	7.366	-6.491
176	0.387	0.448	0.517	15.370	-13.540	7.422	-6.537
177	0.379	0.439	0.506	15.420	-13.580	7.478	-6.583
178	0.371	0.429	0.496	15.480	-13.620	7.534	-6.629
179	0.363	0.420	0.485	15.530	-13.650	7.590	-6.675
180	0.355	0.411	0.475	15.570	-13.690	7.646	-6.721
181	0.347	0.402	0.465	15.620	-13.730	7.702	-6.768
182	0.339	0.394	0.456	15.670	-13.760	7.759	-6.814

阻温特性表

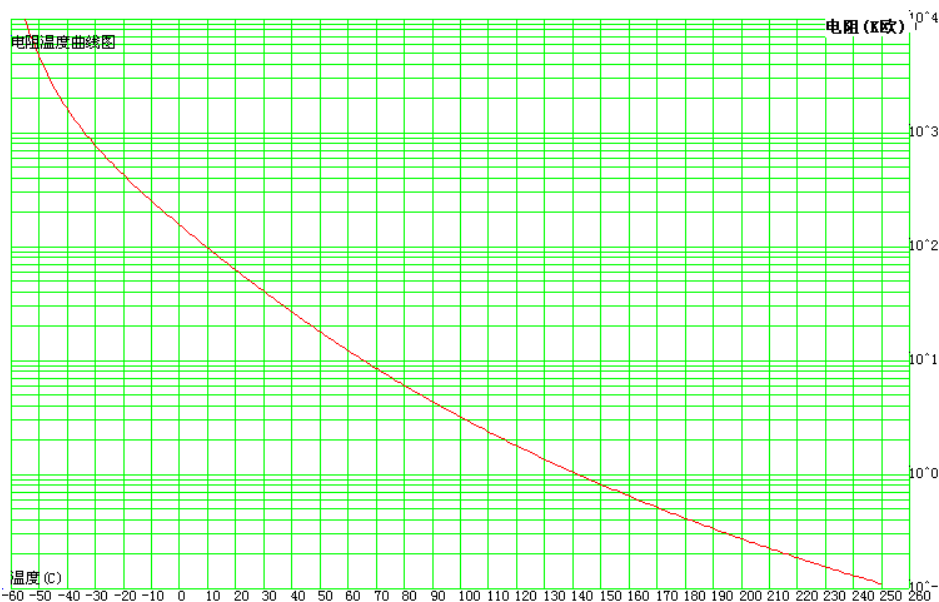
R25=50K Ω 精度: $\pm 5\%$ B25/50=3950K B25/85=4055K 精度: $\pm 2\%$ (P214-9)

温度($^{\circ}\text{C}$)	电阻(K Ω)			电阻精度(%)		温度精度($^{\circ}\text{C}$)	
	最小值	中心值	最大值	ΔR	$-\Delta R$	ΔT	$-\Delta T$
183	0.332	0.385	0.446	15.720	-13.800	7.816	-6.861
184	0.325	0.377	0.437	15.770	-13.840	7.873	-6.908
185	0.318	0.369	0.428	15.820	-13.870	7.930	-6.954
186	0.311	0.362	0.419	15.870	-13.910	7.987	-7.001
187	0.305	0.354	0.411	15.920	-13.950	8.045	-7.049
188	0.298	0.347	0.402	15.970	-13.980	8.103	-7.096
189	0.292	0.340	0.394	16.020	-14.020	8.160	-7.143
190	0.286	0.333	0.386	16.060	-14.050	8.219	-7.191
191	0.280	0.326	0.378	16.110	-14.090	8.277	-7.239
192	0.274	0.319	0.371	16.160	-14.130	8.335	-7.286
193	0.268	0.313	0.364	16.210	-14.160	8.394	-7.334
194	0.263	0.306	0.356	16.250	-14.200	8.453	-7.382
195	0.257	0.300	0.349	16.300	-14.230	8.512	-7.431
196	0.252	0.294	0.342	16.350	-14.270	8.571	-7.479
197	0.247	0.288	0.336	16.400	-14.300	8.630	-7.527
198	0.242	0.283	0.329	16.440	-14.330	8.690	-7.576
199	0.237	0.277	0.323	16.490	-14.370	8.750	-7.625
200	0.232	0.272	0.316	16.540	-14.400	8.810	-7.674
201	0.228	0.266	0.310	16.580	-14.440	8.870	-7.722
202	0.223	0.261	0.304	16.630	-14.470	8.930	-7.772
203	0.219	0.256	0.299	16.670	-14.500	8.991	-7.821
204	0.214	0.251	0.293	16.720	-14.540	9.051	-7.870
205	0.210	0.246	0.287	16.770	-14.570	9.112	-7.920
206	0.206	0.241	0.282	16.810	-14.600	9.173	-7.969
207	0.202	0.237	0.277	16.860	-14.640	9.234	-8.019
208	0.198	0.232	0.271	16.900	-14.670	9.296	-8.069
209	0.194	0.228	0.266	16.950	-14.700	9.358	-8.119
210	0.190	0.223	0.261	16.990	-14.740	9.419	-8.169
211	0.187	0.219	0.256	17.040	-14.770	9.481	-8.220
212	0.183	0.215	0.252	17.080	-14.800	9.543	-8.270
213	0.179	0.211	0.247	17.130	-14.830	9.606	-8.321
214	0.176	0.207	0.242	17.170	-14.870	9.668	-8.371
215	0.173	0.203	0.238	17.210	-14.900	9.731	-8.422
216	0.169	0.199	0.234	17.260	-14.930	9.794	-8.473
217	0.166	0.195	0.229	17.300	-14.960	9.857	-8.524
218	0.163	0.192	0.225	17.350	-14.990	9.920	-8.575
219	0.160	0.188	0.221	17.390	-15.030	9.984	-8.627
220	0.157	0.185	0.217	17.430	-15.060	10.040	-8.678
221	0.154	0.181	0.213	17.480	-15.090	10.110	-8.730
222	0.151	0.178	0.209	17.520	-15.120	10.170	-8.782

阻温特性表

R25=50K Ω 精度: $\pm 5\%$ B25/50=3950K B25/85=4055K 精度: $\pm 2\%$ (P214-9)

温度($^{\circ}\text{C}$)	电阻(K Ω)			电阻精度(%)		温度精度($^{\circ}\text{C}$)	
	最小值	中心值	最大值	ΔR	$-\Delta R$	ΔT	$-\Delta T$
223	0.148	0.175	0.206	17.560	-15.150	10.240	-8.833
224	0.146	0.172	0.202	17.610	-15.180	10.300	-8.885
225	0.143	0.169	0.199	17.650	-15.210	10.360	-8.938
226	0.140	0.166	0.195	17.690	-15.240	10.430	-8.990
227	0.138	0.163	0.192	17.730	-15.270	10.490	-9.042
228	0.135	0.160	0.188	17.780	-15.300	10.560	-9.095
229	0.133	0.157	0.185	17.820	-15.330	10.620	-9.148
230	0.130	0.154	0.182	17.860	-15.360	10.690	-9.200
231	0.128	0.151	0.179	17.900	-15.390	10.760	-9.253
232	0.126	0.149	0.176	17.940	-15.420	10.820	-9.306
233	0.123	0.146	0.173	17.980	-15.450	10.890	-9.360
234	0.121	0.144	0.170	18.030	-15.480	10.950	-9.413
235	0.119	0.141	0.167	18.070	-15.510	11.020	-9.466
236	0.117	0.139	0.164	18.110	-15.540	11.090	-9.520
237	0.115	0.136	0.161	18.150	-15.570	11.150	-9.574
238	0.113	0.134	0.158	18.190	-15.600	11.220	-9.628
239	0.111	0.132	0.156	18.230	-15.630	11.290	-9.682
240	0.109	0.129	0.153	18.270	-15.660	11.360	-9.736
241	0.107	0.127	0.151	18.310	-15.690	11.420	-9.790
242	0.105	0.125	0.148	18.350	-15.720	11.490	-9.844
243	0.103	0.123	0.146	18.390	-15.750	11.560	-9.899
244	0.102	0.121	0.143	18.430	-15.770	11.630	-9.954
245	0.100	0.119	0.141	18.470	-15.800	11.690	-10.000
246	0.098	0.117	0.139	18.510	-15.830	11.760	-10.060
247	0.097	0.115	0.136	18.550	-15.860	11.830	-10.110
248	0.095	0.113	0.134	18.590	-15.890	11.900	-10.170
249	0.093	0.111	0.132	18.630	-15.910	11.970	-10.220
250	0.092	0.109	0.130	18.670	-15.940	12.040	-10.280



附表:2

电阻误差曲线图

