

佛山市丰焯电子有限公司

Foshan Fengye Electronics Industrial Company Limited

产品规格承认书

Product Specification

客 户 ：

CUSTOMER

产 品 名 称 ：

DESCRIPTION

产 品 编 号 ：

PRODUCT NO.

日 期 ：

D A T E

NTC Temperature Sensor

FY-C6

50284

承认书 APPROVED SHEET

供方 (VENDER)		客户 (CUSTOMER)	
拟 制 DRAFTSMAN	审 核 EXAMINER	审 阅 EXAMINER	批 准 APPROVAL

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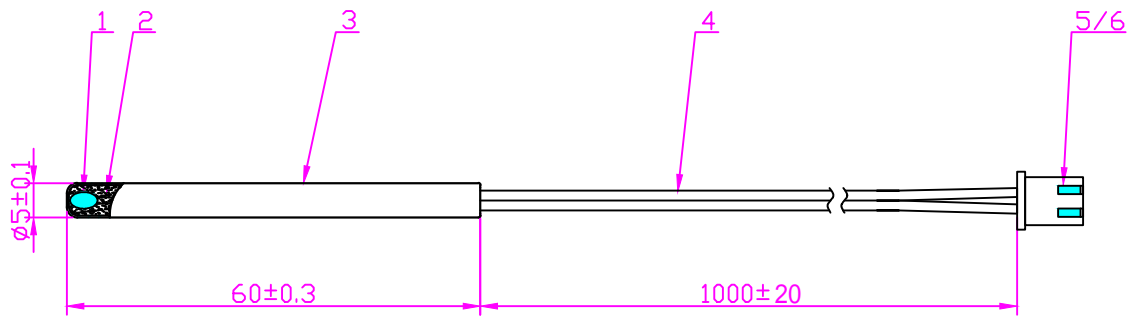
	佛山市丰焯电子有限公司	Pages	1-8
	FENGYE ELECTRONICS INDUSTRIAL CO.,LTD	REV. NO.	1.0
	FY-C6 产品规格书	Date	2021.03.04

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REVISED RECORD LIST

REV. NO.	REV. DATE	REVISED CONTENT



Technical Requirements :

1. Green products. ;
2. Smooth surface without burr ;
3. Fully coated with heat-resistant glue without bubbles ;
4. Wire must not be damaged. ;
5. Wire and terminal must resist a tensile force at least 20N in 3S. ;
6. The thermistor is welded to the wire ;
7. Operating temperature: $-20^{\circ}\text{C}\sim+100^{\circ}\text{C}$;

6	Terminal	C3	2			
5	Connector	C3-2Y white	1			
4	Wire	105°C black 24AWG UL PVC wire L=1020mm	1			
3	Housing	copper plating nickel case 5*60	1			
2	Epoxy	Black epoxy	a little			
1	Thermistor	MF58 R25°C=10K±1% B25/50=3950±1%	1			
Index	NAME	Material Specification	Qty	Flame Rating		
Label	NO	Changed	Sign	Date		
Designer						
Examiner						
Cartwork						
Confirmation						
		Temperature Sensor	图样标记		重量	比例
			共 8 页		第 2 页	
			FY-C6			
			50284			
		FENGYE ELECTRONICS INDUSTRIAL CO., LTD				

1. 热敏电阻特性 Thermistor characteristics

项目 Item	定义 Definition	特征 Characteristic
阻值 resistance value	When resistance in $25 \pm 0.05^\circ\text{C}$	$R_{25^\circ\text{C}} = 10\text{K} \Omega \pm 1\%$
B-value	Definition of B value between T1 and T2 $B_{t1/t2} = \ln(R_{t1}/R_{t2}) / [1/(t1+273.15) - 1/(t2+273.15)]$	$B_{25/50} = 3950 \pm 1\%$
Thermal time constant	Thermistor temperature requires time to reach 63.2% of the temperature range 100 degrees Celsius in stirred water.	$\leq 6 \text{ sec}$
Operating temperature range	The temperature sensor allows the use of temperature range	$-20 \sim +100^\circ\text{C}$
Withstand voltage	A.C.1500V-5mA-5 seconds	Normal
Dielectric strength	Through to D.C500V	I.R. $\geq 100\text{M}\Omega$

2. 可靠性测试 Reliability test

项目 Item	试验条件 Test conditions	The rate of change after the test
High temperature test	100 degrees air for 1,000 hours	$ \Delta R/R \leq \pm 3\%$ $ \Delta B/B \leq \pm 3\%$
Low temperature test	-20 degrees air for 1,000 hours	$ \Delta R/R \leq \pm 3\%$ $ \Delta B/B \leq \pm 3\%$
High temperature and high humidity test	60 degrees, 95% R.H. Set for 1000 hours	$ \Delta R/R \leq \pm 3\%$ $ \Delta B/B \leq \pm 3\%$

3. 机械性能 Mechanical properties

项目 Item	定义 Definition	特征 Characteristic
Tensile tests	In the direction of the conductor axis, can withstand the maximum static load, and stay time	20N, 3S
Drop test	Free fall on board 3 times at a height of 1m	Normal

4. 热敏特性详见附 R-T 表

R--T

R25=10K Ω 精度: $\pm 1\%$ B25/50=3950K B25/85=3986K 精度: $\pm 1\%$ (F4-17A)

T(°C)	resistance (K Ω)			resistance accuracy (%)		temperature precision (°C)	
	min	center	max	ΔR	$-\Delta R$	ΔT	$-\Delta T$
-55	1155.230	1224.370	1297.520	5.974	-5.646	0.727	-0.687
-54	1049.240	1110.960	1176.190	5.871	-5.555	0.723	-0.684
-53	955.179	1010.400	1068.710	5.770	-5.465	0.720	-0.682
-52	871.442	920.970	973.216	5.672	-5.377	0.716	-0.679
-51	796.690	841.207	888.124	5.577	-5.292	0.712	-0.676
-50	729.777	769.873	812.091	5.483	-5.208	0.708	-0.673
-49	669.726	705.910	743.975	5.392	-5.125	0.704	-0.669
-48	615.699	648.413	682.797	5.302	-5.045	0.700	-0.666
-47	566.976	596.604	627.718	5.215	-4.966	0.696	-0.663
-46	522.936	549.814	578.015	5.129	-4.888	0.692	-0.659
-45	483.043	507.464	533.065	5.045	-4.812	0.688	-0.656
-44	446.832	469.053	492.329	4.962	-4.737	0.683	-0.652
-43	413.897	434.144	455.335	4.881	-4.663	0.679	-0.649
-42	383.885	402.357	421.677	4.801	-4.591	0.675	-0.645
-41	356.487	373.361	390.996	4.723	-4.519	0.670	-0.641
-40	331.431	346.864	362.980	4.646	-4.449	0.665	-0.637
-39	308.479	322.610	337.354	4.570	-4.380	0.661	-0.633
-38	287.422	300.373	313.877	4.495	-4.311	0.656	-0.629
-37	268.073	279.955	292.335	4.422	-4.244	0.651	-0.625
-36	250.268	261.179	272.540	4.349	-4.177	0.646	-0.621
-35	233.860	243.890	254.324	4.278	-4.112	0.641	-0.617
-34	218.721	227.947	237.538	4.207	-4.047	0.636	-0.612
-33	204.734	213.227	222.051	4.138	-3.983	0.631	-0.608
-32	191.796	199.621	207.744	4.069	-3.919	0.626	-0.603
-31	179.813	187.027	194.512	4.001	-3.857	0.621	-0.599
-30	168.704	175.359	182.259	3.934	-3.795	0.616	-0.594
-29	158.393	164.537	170.902	3.868	-3.734	0.610	-0.589
-28	148.813	154.488	160.364	3.803	-3.673	0.605	-0.584
-27	139.904	145.149	150.575	3.738	-3.613	0.599	-0.579
-26	131.611	136.460	141.474	3.674	-3.553	0.594	-0.574
-25	123.884	128.370	133.006	3.611	-3.494	0.588	-0.569
-24	116.678	120.830	125.118	3.548	-3.436	0.583	-0.564
-23	109.953	113.798	117.765	3.486	-3.378	0.577	-0.559
-22	103.672	107.233	110.906	3.424	-3.321	0.571	-0.554
-21	97.800	101.100	104.501	3.363	-3.264	0.565	-0.548
-20	92.307	95.367	98.517	3.303	-3.207	0.559	-0.543
-19	87.166	90.002	92.922	3.243	-3.151	0.553	-0.537
-18	82.349	84.980	87.687	3.184	-3.095	0.547	-0.532
-17	77.835	80.276	82.785	3.125	-3.040	0.541	-0.526
-16	73.600	75.865	78.193	3.067	-2.985	0.535	-0.521

R--T

R25=10K Ω 精度: $\pm 1\%$ B25/50=3950K B25/85=3986K 精度: $\pm 1\%$ (F4-17A)

T(°C)	resistance (K Ω)			resistance accuracy (%)		temperature precision (°C)	
	min	center	max	ΔR	$-\Delta R$	ΔT	$-\Delta T$
-15	69.626	71.729	73.888	3.009	-2.931	0.529	-0.515
-14	65.894	67.846	69.849	2.952	-2.877	0.522	-0.509
-13	62.387	64.200	66.059	2.895	-2.823	0.516	-0.503
-12	59.091	60.775	62.500	2.839	-2.770	0.509	-0.497
-11	55.990	57.554	59.156	2.783	-2.717	0.503	-0.491
-10	53.072	54.525	56.013	2.727	-2.664	0.496	-0.485
-9	50.325	51.675	53.056	2.672	-2.612	0.490	-0.479
-8	47.737	48.991	50.274	2.617	-2.560	0.483	-0.472
-7	45.298	46.464	47.655	2.563	-2.509	0.476	-0.466
-6	42.998	44.082	45.188	2.509	-2.457	0.469	-0.460
-5	40.829	41.836	42.864	2.455	-2.406	0.462	-0.453
-4	38.783	39.718	40.673	2.402	-2.356	0.456	-0.447
-3	36.850	37.720	38.607	2.349	-2.305	0.449	-0.440
-2	35.026	35.834	36.657	2.297	-2.255	0.441	-0.433
-1	33.302	34.053	34.818	2.245	-2.205	0.434	-0.427
0	31.673	32.371	33.081	2.193	-2.156	0.427	-0.420
1	30.132	30.781	31.440	2.141	-2.106	0.420	-0.413
2	28.675	29.278	29.890	2.090	-2.057	0.413	-0.406
3	27.297	27.856	28.425	2.040	-2.009	0.405	-0.399
4	25.992	26.512	27.039	1.989	-1.960	0.398	-0.392
5	24.757	25.240	25.729	1.939	-1.912	0.390	-0.385
6	23.587	24.035	24.489	1.889	-1.864	0.383	-0.378
7	22.479	22.895	23.316	1.840	-1.816	0.375	-0.370
8	21.429	21.815	22.205	1.790	-1.769	0.368	-0.363
9	20.433	20.791	21.153	1.742	-1.722	0.360	-0.356
10	19.489	19.821	20.157	1.693	-1.675	0.352	-0.348
11	18.594	18.901	19.212	1.645	-1.628	0.344	-0.341
12	17.744	18.029	18.317	1.597	-1.581	0.336	-0.333
13	16.938	17.202	17.468	1.549	-1.535	0.328	-0.326
14	16.172	16.417	16.663	1.501	-1.489	0.320	-0.318
15	15.445	15.672	15.900	1.454	-1.443	0.312	-0.310
16	14.755	14.964	15.175	1.407	-1.398	0.304	-0.302
17	14.099	14.292	14.487	1.361	-1.352	0.296	-0.294
18	13.476	13.654	13.834	1.315	-1.307	0.288	-0.287
19	12.883	13.048	13.213	1.269	-1.263	0.280	-0.279
20	12.319	12.471	12.624	1.223	-1.218	0.272	-0.271
21	11.783	11.923	12.064	1.177	-1.174	0.264	-0.263
22	11.273	11.402	11.531	1.132	-1.129	0.256	-0.255
23	10.788	10.907	11.025	1.087	-1.085	0.248	-0.248
24	10.326	10.435	10.544	1.043	-1.042	0.243	-0.243
25	9.900	10.000	10.100	1.000	-1.000	0.235	-0.235

R---T

R25=10K Ω 精度: $\pm 1\%$ B25/50=3950K B25/85=3986K 精度: $\pm 1\%$ (F4-17A)

T(°C)	resistance (K Ω)			电阻精度(%)		温度精度(°C)	
	min	center	max	ΔR	$-\Delta R$	ΔT	$-\Delta T$
26	9.460	9.559	9.659	1.045	-1.044	0.233	-0.232
27	9.053	9.153	9.252	1.089	-1.087	0.247	-0.247
28	8.666	8.765	8.865	1.133	-1.130	0.260	-0.260
29	8.298	8.397	8.495	1.176	-1.172	0.273	-0.272
30	7.947	8.045	8.143	1.219	-1.215	0.285	-0.284
31	7.613	7.710	7.808	1.262	-1.257	0.297	-0.295
32	7.295	7.391	7.487	1.305	-1.298	0.309	-0.307
33	6.991	7.086	7.182	1.348	-1.340	0.321	-0.319
34	6.702	6.796	6.891	1.390	-1.381	0.333	-0.331
35	6.426	6.519	6.613	1.432	-1.422	0.346	-0.343
36	6.163	6.255	6.347	1.474	-1.463	0.358	-0.355
37	5.913	6.003	6.094	1.516	-1.503	0.371	-0.367
38	5.673	5.762	5.852	1.558	-1.544	0.383	-0.380
39	5.445	5.532	5.621	1.599	-1.584	0.396	-0.392
40	5.227	5.313	5.400	1.640	-1.624	0.408	-0.404
41	5.018	5.103	5.189	1.681	-1.663	0.421	-0.416
42	4.820	4.903	4.988	1.722	-1.702	0.434	-0.429
43	4.630	4.712	4.795	1.762	-1.742	0.447	-0.441
44	4.448	4.529	4.610	1.803	-1.780	0.460	-0.454
45	4.275	4.354	4.434	1.843	-1.819	0.473	-0.467
46	4.109	4.187	4.266	1.883	-1.858	0.486	-0.479
47	3.951	4.027	4.104	1.922	-1.896	0.499	-0.492
48	3.799	3.874	3.950	1.962	-1.934	0.512	-0.505
49	3.654	3.728	3.802	2.001	-1.972	0.526	-0.518
50	3.515	3.588	3.661	2.040	-2.009	0.539	-0.531
51	3.383	3.453	3.525	2.079	-2.046	0.552	-0.544
52	3.256	3.325	3.396	2.118	-2.083	0.566	-0.557
53	3.134	3.202	3.271	2.156	-2.120	0.580	-0.570
54	3.018	3.084	3.152	2.194	-2.157	0.593	-0.583
55	2.906	2.972	3.038	2.232	-2.193	0.607	-0.597
56	2.800	2.864	2.929	2.270	-2.230	0.621	-0.610
57	2.697	2.760	2.824	2.308	-2.266	0.635	-0.623
58	2.599	2.661	2.723	2.345	-2.301	0.649	-0.637
59	2.506	2.565	2.627	2.383	-2.337	0.663	-0.650
60	2.415	2.474	2.534	2.420	-2.372	0.677	-0.664
61	2.329	2.387	2.445	2.457	-2.408	0.692	-0.678
62	2.246	2.303	2.360	2.493	-2.443	0.706	-0.692
63	2.167	2.222	2.278	2.530	-2.477	0.720	-0.705
64	2.091	2.145	2.200	2.566	-2.512	0.735	-0.719
65	2.018	2.070	2.124	2.602	-2.546	0.749	-0.733
66	1.947	1.999	2.052	2.638	-2.580	0.764	-0.747

R25=10K Ω 精度: $\pm 1\%$ B25/50=3950K B25/85=3986K 精度: $\pm 1\%$ (F4-17A)

T($^{\circ}$ C)	resistance (K Ω)			电阻精度 (%)		温度精度 ($^{\circ}$ C)	
	min	center	max	ΔR	$-\Delta R$	ΔT	$-\Delta T$
67	1.880	1.931	1.982	2.674	-2.614	0.779	-0.761
68	1.815	1.865	1.915	2.710	-2.648	0.794	-0.776
69	1.753	1.802	1.851	2.745	-2.682	0.809	-0.790
70	1.694	1.741	1.789	2.780	-2.715	0.824	-0.804
71	1.636	1.683	1.730	2.815	-2.748	0.839	-0.818
72	1.581	1.627	1.673	2.850	-2.781	0.854	-0.833
73	1.528	1.573	1.618	2.885	-2.814	0.869	-0.847
74	1.477	1.521	1.565	2.919	-2.846	0.884	-0.862
75	1.429	1.471	1.514	2.954	-2.879	0.900	-0.877
76	1.381	1.423	1.465	2.988	-2.911	0.915	-0.891
77	1.336	1.377	1.418	3.022	-2.943	0.930	-0.906
78	1.293	1.332	1.373	3.056	-2.975	0.946	-0.921
79	1.251	1.290	1.329	3.089	-3.006	0.962	-0.936
80	1.210	1.248	1.287	3.123	-3.038	0.978	-0.951
81	1.172	1.209	1.247	3.156	-3.069	0.993	-0.966
82	1.134	1.171	1.208	3.189	-3.100	1.009	-0.981
83	1.098	1.134	1.170	3.222	-3.131	1.025	-0.996
84	1.064	1.098	1.134	3.255	-3.162	1.041	-1.012
85	1.030	1.065	1.100	3.287	-3.192	1.057	-1.027
86	0.998	1.031	1.066	3.320	-3.223	1.074	-1.042
87	0.967	1.000	1.033	3.352	-3.253	1.090	-1.058
88	0.937	0.969	1.002	3.384	-3.283	1.106	-1.073
89	0.909	0.940	0.972	3.416	-3.313	1.123	-1.089
90	0.881	0.911	0.943	3.447	-3.342	1.139	-1.105
91	0.854	0.884	0.915	3.479	-3.372	1.156	-1.120
92	0.828	0.858	0.888	3.510	-3.401	1.173	-1.136
93	0.803	0.832	0.861	3.542	-3.430	1.189	-1.152
94	0.779	0.807	0.836	3.573	-3.459	1.206	-1.168
95	0.756	0.784	0.812	3.604	-3.488	1.223	-1.184
96	0.734	0.761	0.788	3.635	-3.517	1.240	-1.200
97	0.712	0.739	0.766	3.665	-3.545	1.257	-1.216
98	0.691	0.717	0.744	3.696	-3.573	1.274	-1.232
99	0.671	0.696	0.722	3.726	-3.602	1.292	-1.249
100	0.652	0.677	0.702	3.756	-3.630	1.309	-1.265
101	0.633	0.657	0.682	3.786	-3.658	1.326	-1.281
102	0.615	0.639	0.663	3.816	-3.685	1.344	-1.298
103	0.597	0.621	0.644	3.846	-3.713	1.361	-1.314
104	0.581	0.603	0.627	3.875	-3.740	1.379	-1.331
105	0.564	0.586	0.609	3.904	-3.767	1.397	-1.348
106	0.548	0.570	0.592	3.934	-3.794	1.415	-1.364
107	0.533	0.554	0.576	3.963	-3.821	1.432	-1.381

R25=10K Ω 精度: $\pm 1\%$ B25/50=3950K B25/85=3986K 精度: $\pm 1\%$ (F4-17A)

T(°C)	resistance (K Ω)			电阻精度(%)		温度精度(°C)	
	min	center	max	ΔR	$-\Delta R$	ΔT	$-\Delta T$
108	0.518	0.539	0.561	3.992	-3.848	1.450	-1.398
109	0.504	0.524	0.545	4.021	-3.875	1.468	-1.415
110	0.490	0.510	0.531	4.049	-3.901	1.487	-1.432
111	0.477	0.496	0.517	4.078	-3.928	1.505	-1.449
112	0.464	0.483	0.503	4.106	-3.954	1.523	-1.466
113	0.451	0.470	0.489	4.134	-3.980	1.541	-1.484
114	0.439	0.457	0.477	4.162	-4.006	1.560	-1.501
115	0.427	0.445	0.464	4.190	-4.031	1.578	-1.518
116	0.416	0.434	0.452	4.218	-4.057	1.597	-1.536
117	0.405	0.422	0.440	4.246	-4.083	1.615	-1.553
118	0.394	0.411	0.429	4.273	-4.108	1.634	-1.571
119	0.384	0.401	0.418	4.301	-4.133	1.653	-1.588
120	0.374	0.390	0.407	4.328	-4.158	1.672	-1.606
121	0.364	0.380	0.397	4.355	-4.183	1.691	-1.624
122	0.355	0.370	0.387	4.382	-4.208	1.710	-1.642
123	0.346	0.361	0.377	4.409	-4.232	1.729	-1.660
124	0.337	0.352	0.367	4.436	-4.257	1.748	-1.678
125	0.328	0.343	0.358	4.462	-4.281	1.767	-1.696
126	0.320	0.334	0.349	4.489	-4.306	1.787	-1.714
127	0.312	0.326	0.341	4.515	-4.330	1.806	-1.732
128	0.304	0.318	0.332	4.542	-4.354	1.826	-1.750
129	0.296	0.310	0.324	4.568	-4.378	1.845	-1.768
130	0.289	0.302	0.316	4.594	-4.401	1.865	-1.787
131	0.282	0.295	0.309	4.619	-4.425	1.885	-1.805
132	0.275	0.288	0.301	4.645	-4.449	1.904	-1.824
133	0.268	0.281	0.294	4.671	-4.472	1.924	-1.842
134	0.262	0.274	0.287	4.696	-4.495	1.944	-1.861
135	0.255	0.268	0.280	4.722	-4.518	1.964	-1.880
136	0.249	0.261	0.274	4.747	-4.541	1.984	-1.898
137	0.243	0.255	0.267	4.772	-4.564	2.005	-1.917
138	0.238	0.249	0.261	4.797	-4.587	2.025	-1.936
139	0.232	0.243	0.255	4.822	-4.610	2.045	-1.955
140	0.226	0.237	0.249	4.847	-4.632	2.066	-1.974
141	0.221	0.232	0.243	4.871	-4.655	2.086	-1.993
142	0.216	0.227	0.238	4.896	-4.677	2.107	-2.013
143	0.211	0.221	0.232	4.920	-4.699	2.128	-2.032
144	0.206	0.216	0.227	4.945	-4.721	2.148	-2.051
145	0.201	0.211	0.222	4.969	-4.743	2.169	-2.071
146	0.197	0.206	0.217	4.993	-4.765	2.190	-2.090
147	0.192	0.202	0.212	5.017	-4.787	2.211	-2.109
148	0.188	0.197	0.207	5.041	-4.808	2.232	-2.129

R---T

R25=10K Ω 精度: $\pm 1\%$ B25/50=3950K B25/85=3986K 精度: $\pm 1\%$ (F4-17A)

T($^{\circ}$ C)	resistance (K Ω)			电阻精度 (%)		温度精度 ($^{\circ}$ C)	
	min	center	max	ΔR	$-\Delta R$	ΔT	$-\Delta T$
149	0.183	0.193	0.203	5.065	-4.830	2.253	-2.149
150	0.179	0.189	0.198	5.088	-4.851	2.274	-2.168
151	0.175	0.184	0.194	5.112	-4.873	2.296	-2.188
152	0.171	0.180	0.190	5.135	-4.894	2.317	-2.208
153	0.168	0.176	0.185	5.159	-4.915	2.338	-2.228
154	0.164	0.172	0.181	5.182	-4.936	2.360	-2.248
155	0.160	0.169	0.177	5.205	-4.957	2.382	-2.268
156	0.157	0.165	0.174	5.228	-4.978	2.403	-2.288
157	0.153	0.161	0.170	5.251	-4.999	2.425	-2.308
158	0.150	0.158	0.166	5.274	-5.019	2.447	-2.329
159	0.147	0.155	0.163	5.297	-5.040	2.469	-2.349
160	0.144	0.151	0.159	5.319	-5.060	2.491	-2.369
161	0.140	0.148	0.156	5.342	-5.080	2.513	-2.390
162	0.137	0.145	0.153	5.364	-5.101	2.535	-2.410
163	0.135	0.142	0.150	5.387	-5.121	2.557	-2.431
164	0.132	0.139	0.146	5.409	-5.141	2.579	-2.452
165	0.129	0.136	0.143	5.431	-5.161	2.602	-2.472
166	0.126	0.133	0.140	5.453	-5.181	2.624	-2.493
167	0.124	0.130	0.138	5.475	-5.200	2.647	-2.514
168	0.121	0.128	0.135	5.497	-5.220	2.669	-2.535
169	0.118	0.125	0.132	5.519	-5.240	2.692	-2.556
170	0.116	0.123	0.129	5.541	-5.259	2.715	-2.577
171	0.114	0.120	0.127	5.562	-5.279	2.738	-2.598
172	0.111	0.118	0.124	5.584	-5.298	2.761	-2.619
173	0.109	0.115	0.122	5.605	-5.317	2.784	-2.641
174	0.107	0.113	0.119	5.626	-5.336	2.807	-2.662
175	0.105	0.111	0.117	5.648	-5.355	2.830	-2.683
176	0.103	0.108	0.115	5.669	-5.374	2.853	-2.705
177	0.101	0.106	0.112	5.690	-5.393	2.876	-2.726
178	0.099	0.104	0.110	5.711	-5.412	2.900	-2.748
179	0.097	0.102	0.108	5.732	-5.431	2.923	-2.769
180	0.095	0.100	0.106	5.753	-5.449	2.947	-2.791
181	0.093	0.098	0.104	5.773	-5.468	2.970	-2.813
182	0.091	0.096	0.102	5.794	-5.486	2.994	-2.835
183	0.089	0.094	0.100	5.815	-5.505	3.018	-2.857
184	0.087	0.093	0.098	5.835	-5.523	3.042	-2.879
185	0.086	0.091	0.096	5.856	-5.541	3.065	-2.901
186	0.084	0.089	0.094	5.876	-5.559	3.089	-2.923
187	0.082	0.087	0.093	5.896	-5.577	3.114	-2.945
188	0.081	0.086	0.091	5.916	-5.595	3.138	-2.967
189	0.079	0.084	0.089	5.936	-5.613	3.162	-2.990

R---T

R25=10K Ω 精度: $\pm 1\%$ B25/50=3950K B25/85=3986K 精度: $\pm 1\%$ (F4-17A)

T(°C)	resistance (K Ω)			电阻精度(%)		温度精度(°C)	
	min	center	max	ΔR	$-\Delta R$	ΔT	$-\Delta T$
190	0.078	0.083	0.087	5.957	-5.631	3.186	-3.012
191	0.076	0.081	0.086	5.976	-5.649	3.211	-3.035
192	0.075	0.079	0.084	5.996	-5.667	3.235	-3.057
193	0.074	0.078	0.083	6.016	-5.684	3.260	-3.080
194	0.072	0.077	0.081	6.036	-5.702	3.284	-3.102
195	0.071	0.075	0.080	6.056	-5.719	3.309	-3.125
196	0.069	0.074	0.078	6.075	-5.737	3.334	-3.148
197	0.068	0.072	0.077	6.095	-5.754	3.359	-3.171
198	0.067	0.071	0.075	6.114	-5.771	3.383	-3.194
199	0.066	0.070	0.074	6.133	-5.788	3.408	-3.217
200	0.064	0.069	0.073	6.153	-5.805	3.433	-3.240
201	0.063	0.067	0.071	6.172	-5.822	3.459	-3.263
202	0.062	0.066	0.070	6.191	-5.839	3.484	-3.286
203	0.061	0.065	0.069	6.210	-5.856	3.509	-3.309
204	0.060	0.064	0.068	6.229	-5.873	3.535	-3.333
205	0.059	0.063	0.067	6.248	-5.890	3.560	-3.356
206	0.058	0.061	0.065	6.267	-5.907	3.586	-3.379
207	0.057	0.060	0.064	6.286	-5.923	3.611	-3.403
208	0.056	0.059	0.063	6.304	-5.940	3.637	-3.427
209	0.055	0.058	0.062	6.323	-5.956	3.663	-3.450
210	0.054	0.057	0.061	6.342	-5.973	3.688	-3.474
211	0.053	0.056	0.060	6.360	-5.989	3.714	-3.498
212	0.052	0.055	0.059	6.379	-6.006	3.740	-3.522
213	0.051	0.054	0.058	6.397	-6.022	3.766	-3.545
214	0.050	0.053	0.057	6.415	-6.038	3.793	-3.569
215	0.049	0.052	0.056	6.434	-6.054	3.819	-3.593
216	0.048	0.052	0.055	6.452	-6.070	3.845	-3.618
217	0.048	0.051	0.054	6.470	-6.086	3.871	-3.642
218	0.047	0.050	0.053	6.488	-6.102	3.898	-3.666
219	0.046	0.049	0.052	6.506	-6.118	3.924	-3.690
220	0.045	0.048	0.051	6.524	-6.134	3.951	-3.715
221	0.044	0.047	0.050	6.542	-6.150	3.978	-3.739
222	0.044	0.047	0.050	6.560	-6.165	4.004	-3.764
223	0.043	0.046	0.049	6.578	-6.181	4.031	-3.788
224	0.042	0.045	0.048	6.596	-6.197	4.058	-3.813
225	0.041	0.044	0.047	6.613	-6.212	4.085	-3.838
226	0.041	0.044	0.046	6.631	-6.228	4.112	-3.862
227	0.040	0.043	0.046	6.648	-6.243	4.139	-3.887
228	0.039	0.042	0.045	6.666	-6.259	4.167	-3.912
229	0.039	0.041	0.044	6.683	-6.274	4.194	-3.937
230	0.038	0.041	0.043	6.701	-6.289	4.221	-3.962

R---T

R25=10K Ω 精度: $\pm 1\%$ B25/50=3950K B25/85=3986K 精度: $\pm 1\%$ (F4-17A)

T (°C)	resistance (K Ω)			电阻精度 (%)		温度精度 (°C)	
	min	center	max	ΔR	$-\Delta R$	ΔT	$-\Delta T$
231	0.038	0.040	0.043	6.718	-6.304	4.249	-3.987
232	0.037	0.039	0.042	6.735	-6.320	4.276	-4.012
233	0.036	0.039	0.041	6.753	-6.335	4.304	-4.038
234	0.036	0.038	0.041	6.770	-6.350	4.332	-4.063
235	0.035	0.038	0.040	6.787	-6.365	4.359	-4.088
236	0.035	0.037	0.039	6.804	-6.380	4.387	-4.114
237	0.034	0.036	0.039	6.821	-6.395	4.415	-4.139
238	0.033	0.036	0.038	6.838	-6.410	4.443	-4.165
239	0.033	0.035	0.038	6.855	-6.424	4.471	-4.190
240	0.032	0.035	0.037	6.872	-6.439	4.499	-4.216
241	0.032	0.034	0.036	6.889	-6.454	4.528	-4.242
242	0.031	0.034	0.036	6.905	-6.469	4.556	-4.268
243	0.031	0.033	0.035	6.922	-6.483	4.584	-4.294
244	0.030	0.032	0.035	6.939	-6.498	4.613	-4.320
245	0.030	0.032	0.034	6.955	-6.512	4.641	-4.346
246	0.029	0.031	0.034	6.972	-6.527	4.670	-4.372
247	0.029	0.031	0.033	6.988	-6.541	4.698	-4.398
248	0.028	0.031	0.033	7.005	-6.556	4.727	-4.424
249	0.028	0.030	0.032	7.021	-6.570	4.756	-4.450
250	0.028	0.030	0.032	7.038	-6.584	4.785	-4.477