

**南京华巨电子有限公司****Sinochip(Nanjing)Electronics Co.,LTD**

产 品 规 格 书

文件编号	NTC/SC.DJ-104F.02.029-2017
产品名称	电机用 NTC 温度传感器
产品代码	DJNTC104F3950FA
产品型号	DJNTC1-104F3950FA-S
版 次	Ver2.10

拟制: 王立志审核: 张建军批准: 唐成刚

2016 年 02 月 29 日发布

2016 年 02 月 29 日实施



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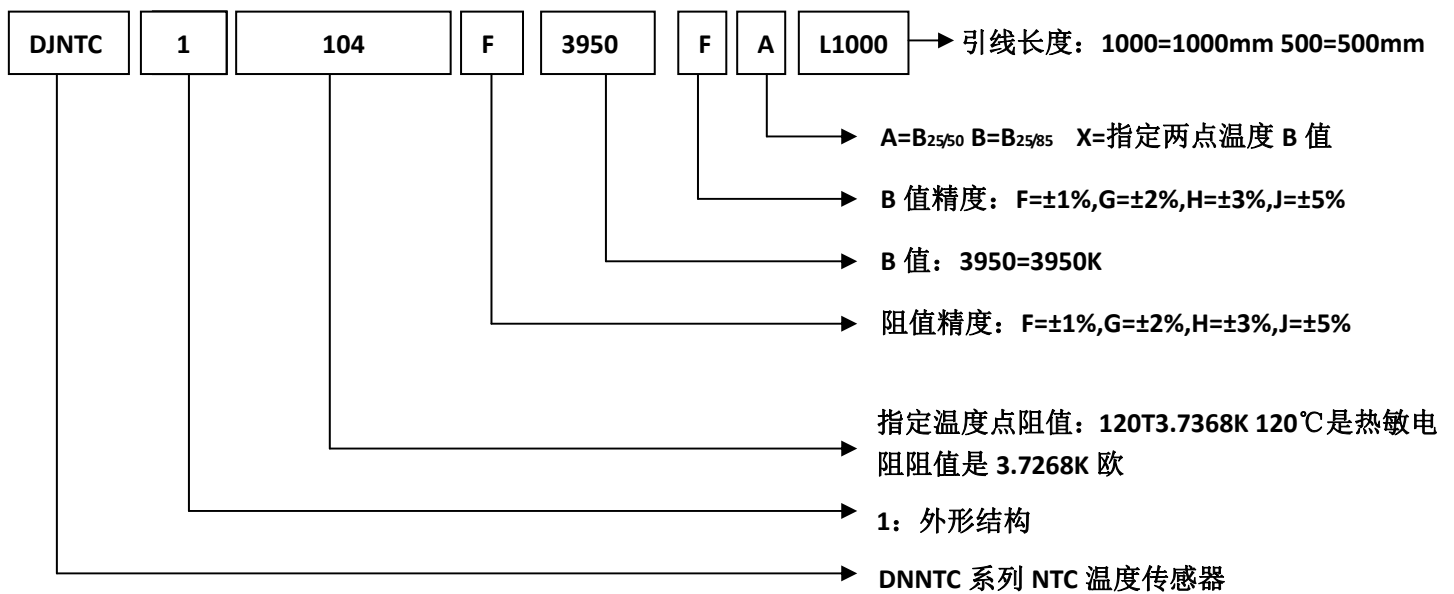
1、 产品名称、型号、代码、型号规则

名称：电机用 NTC 温度传感器

型号：DJNTC1-104F3950FA-L520

代码：104F3950FA-L520

型号规则：

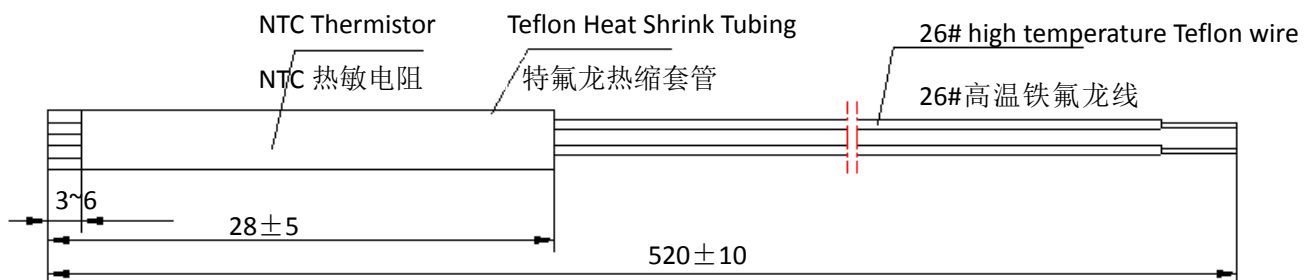


2、 主要参数

2.1 产品执行标准

IEC60134

2.2 外形尺寸、结构





2.3 Electrical characteristics 电性能

	Item 项目	Symbol 符号	Test Condition 测试条件	Min. 最小值	Nor. 正常值	Max. 最大值	Unit 单位
a	Resistance at 25°C 25°C 电阻值	R ₂₅	25±0.05°C	99	100	101	kΩ
b	Bvalue B 值	B _{25/50}	$B = \left(\frac{1}{T_1} - \frac{1}{T_2} \right) \ln \frac{RT_1}{RT_2}$		3910.5	3989.5	k
c	Insulation resistance 绝缘电阻	/	1500VDC	100	/	/	MΩ
d	Thermal time constant 热时间常数	τ	in still air 静止空气中	/	/	20	sec
e	Thermal dissipation constant 热耗散系数	δ	in still air 静止空气中	2.0	/	/	mw/°C
f	Operating temperature range 使用温度范围	/	/	-50	/	300	°C

3、Reliability 可靠性

	Item 项目	Specification 技术说明	Method of Examination 测试条件及方法
5.1	high Temp. storage 高温存放	*ΔR25/ R25≤±2%	After storage at 250°C for 1000hrs 250°C 环境中放置 1000 小时
5.2	Low Temp. storage 低温存放		After storage at -40°C for 1000hrs -40°C 环境中放置 1000 小时
5.3	High temperature and humidity 耐湿热		After storage at 60°C 95%RH for 1000hrs 60°C 95%RH 存放 1000 小时
5.4	Thermal shock 耐温度冲击	*ΔR25/ R25≤±2%	100 cycles of following sequence -40°C 10min.---5min. room temp. ---200°C 10min.---5 min. room temp. 经历如下温度循环 100 次 -40°C10 分钟---常温 5 分钟---200°C10 分钟--- 常温 5 分钟



5.5	Vibration 振动	* no visible damage 无损伤 * $\Delta R25/ R25 \leq \pm 2\%$	After vibrate test , Frequence 10-500Hz 15min.max amplitude 1.5mm ,in X and Y directions 振幅 1.5mm 频率 10Hz 到 500Hz 元件受振动试验 X、Y 方向各 15 分钟
5.6	Pulling 引线强度	* no visible damage 无损伤 * $\Delta R25/ R25 \leq \pm 2\%$	After appling a force of 9.8N in the axial direction of thermistor, and maintain the force for 60sec. 引线沿轴向施加 9.8N 拉力, 并持续 60 秒
5.7	Fall down 跌落	* no visible damage 无损伤 * $\Delta R25/ R25 \leq \pm 2\%$	After dropped freely onto wood floor from 1 meter height for 10 times 从 1 米高度自由落下 10 次在规定的木板上

6、Outgoing Inspection 出厂检验

6.1 The product shall be inspected at every delivery lot inspection items, sampling quantities and sampling acceptable standard are as follows. 产品批量出厂前必须进行如下项目抽检，抽样数及标准如下

Inspection Item 检验项目	Sampling acceptable Standard 抽样合格标准	Remarks 备注
Resistance value 电阻值	N=20,Ac=0,Re=1	4(a)
B value B 值	N=10,Ac=0,Re=1	4(b)
Insulation Resistance 绝缘电阻	N=5,Ac=0,Re=1	4(c)
Shape & dimensions 外形尺寸	N=5,Ac=0,Re=1	3
Appearance 外观	N=5,Ac=0,Re=1	3

6.2 Inspection data 检验数据



Inspection data will be issued for pay upon request. 检验数据必须保留以备索取。

南京华巨电子有限公司

电话: 025-52153380

电话: 025-52153215

电话: 025-52157721

传真: 025-52157065

型号: 104F3950FA

Kohms

R₂₅ : 100.00 ± 1%
B_{25/50} : 3950 °K ± 1%

网址: www.sinochip.net

Temperature (°C)	Resistance (KΩ)			Temperture Coef. (%/°C)	Resist. Tolerance (%)		Temp. Tolerance (°C)	
	MIN.	CENTER	MAX.		MIN.	MAX.	MIN.	MAX.
温度 (°C)	阻值 (Ω)			温度系数	阻值精度偏差 (%)		测温精度偏差(°C)	
(°C)	上限值	中心值	下限值	(%/°C)	最小	最大	最小	最大
-55.0	9577.0420	10131.0095	10715.9487	-7.68	-5.47	5.77	-0.75	0.71
-54.0	8879.2113	9385.6388	9919.9583	-7.61	-5.40	5.69	-0.75	0.71
-53.0	8237.5682	8700.8047	9189.1722	-7.54	-5.32	5.61	-0.74	0.71
-52.0	7647.1737	8071.1443	8517.7686	-7.48	-5.25	5.53	-0.74	0.70
-51.0	7103.5588	7491.8082	7900.4875	-7.42	-5.18	5.46	-0.74	0.70
-50.0	6602.6755	6958.4075	7332.5719	-7.35	-5.11	5.38	-0.73	0.70
-49.0	6140.8553	6466.9674	6809.7168	-7.29	-5.04	5.30	-0.73	0.69
-48.0	5714.7700	6013.8849	6328.0228	-7.23	-4.97	5.22	-0.72	0.69
-47.0	5321.3985	5595.8914	5883.9551	-7.17	-4.91	5.15	-0.72	0.68
-46.0	4957.9961	5210.0198	5474.3069	-7.12	-4.84	5.07	-0.71	0.68
-45.0	4622.0672	4853.5743	5096.1673	-7.06	-4.77	5.00	-0.71	0.68
-44.0	4311.3415	4524.1038	4746.8910	-7.00	-4.70	4.92	-0.70	0.67
-43.0	4023.7515	4219.3781	4424.0731	-6.95	-4.64	4.85	-0.70	0.67
-42.0	3757.4135	3937.3666	4125.5256	-6.89	-4.57	4.78	-0.69	0.66
-41.0	3510.6098	3676.2191	3849.2558	-6.84	-4.50	4.71	-0.69	0.66
-40.0	3281.7733	3434.2484	3593.4483	-6.78	-4.44	4.64	-0.68	0.65
-39.0	3069.4729	3209.9151	3356.4475	-6.73	-4.38	4.56	-0.68	0.65
-38.0	2872.4010	3001.8136	3136.7429	-6.68	-4.31	4.49	-0.67	0.65
-37.0	2689.3621	2808.6594	2932.9553	-6.63	-4.25	4.43	-0.67	0.64
-36.0	2519.2624	2629.2784	2743.8244	-6.57	-4.18	4.36	-0.66	0.64
-35.0	2361.1005	2462.5963	2568.1981	-6.52	-4.12	4.29	-0.66	0.63
-34.0	2213.9590	2307.6293	2405.0221	-6.47	-4.06	4.22	-0.65	0.63
-33.0	2076.9970	2163.4765	2253.3315	-6.43	-4.00	4.15	-0.65	0.62
-32.0	1949.4430	2029.3120	2112.2421	-6.38	-3.94	4.09	-0.64	0.62
-31.0	1830.5890	1904.3782	1980.9436	-6.33	-3.87	4.02	-0.64	0.61



-30.0	1719.7850	1787.9797	1858.6927	-6.28	-3.81	3.95	-0.63	0.61
-29.0	1616.4333	1679.4781	1744.8072	-6.24	-3.75	3.89	-0.62	0.60
-28.0	1519.9846	1578.2865	1638.6608	-6.19	-3.69	3.83	-0.62	0.60
-27.0	1429.9334	1483.8656	1539.6779	-6.15	-3.63	3.76	-0.61	0.59
-26.0	1345.8145	1395.7189	1447.3292	-6.10	-3.58	3.70	-0.61	0.59
-25.0	1267.1992	1313.3898	1361.1279	-6.06	-3.52	3.63	-0.60	0.58
-24.0	1193.6927	1236.4573	1280.6260	-6.01	-3.46	3.57	-0.59	0.58
-23.0	1124.9307	1164.5338	1205.4106	-5.97	-3.40	3.51	-0.59	0.57
-22.0	1060.5773	1097.2617	1135.1015	-5.93	-3.34	3.45	-0.58	0.56
-21.0	1000.3222	1034.3112	1069.3482	-5.89	-3.29	3.39	-0.58	0.56
-20.0	943.8791	975.3779	1007.8270	-5.85	-3.23	3.33	-0.57	0.55
-19.0	890.9831	920.1805	950.2396	-5.81	-3.17	3.27	-0.56	0.55
-18.0	841.3896	868.4592	896.3101	-5.76	-3.12	3.21	-0.56	0.54
-17.0	794.8720	819.9739	845.7839	-5.72	-3.06	3.15	-0.55	0.53
-16.0	751.2210	774.5024	798.4254	-5.69	-3.01	3.09	-0.54	0.53
-15.0	710.2424	731.8390	754.0169	-5.65	-2.95	3.03	-0.54	0.52
-14.0	671.7565	691.7935	712.3568	-5.61	-2.90	2.97	-0.53	0.52
-13.0	635.5967	654.1893	673.2585	-5.57	-2.84	2.91	-0.52	0.51
-12.0	601.6084	618.8632	636.5492	-5.53	-2.79	2.86	-0.52	0.50
-11.0	569.6484	585.6635	602.0686	-5.50	-2.73	2.80	-0.51	0.50
-10.0	539.5834	554.4496	569.6683	-5.46	-2.68	2.74	-0.50	0.49
-9.0	511.2901	525.0910	539.2104	-5.42	-2.63	2.69	-0.50	0.48
-8.0	484.6536	497.4665	510.5672	-5.39	-2.58	2.63	-0.49	0.48
-7.0	459.5671	471.4636	483.6198	-5.35	-2.52	2.58	-0.48	0.47
-6.0	435.9314	446.9777	458.2580	-5.32	-2.47	2.52	-0.47	0.46
-5.0	413.6543	423.9114	434.3794	-5.28	-2.42	2.47	-0.47	0.46
-4.0	392.6497	402.1742	411.8885	-5.25	-2.37	2.42	-0.46	0.45
-3.0	372.8376	381.6819	390.6969	-5.21	-2.32	2.36	-0.45	0.44
-2.0	354.1436	362.3561	370.7219	-5.18	-2.27	2.31	-0.45	0.44
-1.0	336.4981	344.1237	351.8869	-5.15	-2.22	2.26	-0.44	0.43
0.0	319.8364	326.9167	334.1203	-5.11	-2.17	2.20	-0.43	0.42
1.0	304.0981	310.6715	317.3554	-5.08	-2.12	2.15	-0.42	0.42
2.0	289.2267	295.3291	301.5301	-5.05	-2.07	2.10	-0.42	0.41
3.0	275.1697	280.8342	286.5866	-5.02	-2.02	2.05	-0.41	0.40
4.0	261.8780	267.1352	272.4707	-4.99	-1.97	2.00	-0.40	0.39
5.0	249.3055	254.1840	259.1320	-4.95	-1.92	1.95	-0.39	0.39
6.0	237.4094	241.9356	246.5234	-4.92	-1.87	1.90	-0.39	0.38
7.0	226.1496	230.3480	234.6009	-4.89	-1.82	1.85	-0.38	0.37
8.0	215.4886	219.3820	223.3235	-4.86	-1.77	1.80	-0.37	0.36
9.0	205.3911	209.0008	212.6527	-4.83	-1.73	1.75	-0.36	0.36
10.0	195.8245	199.1700	202.5525	-4.80	-1.68	1.70	-0.35	0.35
11.0	186.7578	189.8575	192.9894	-4.77	-1.63	1.65	-0.35	0.34
12.0	178.1622	181.0331	183.9318	-4.74	-1.59	1.60	-0.34	0.33



13.0	170.0107	172.6686	175.3504	-4.72	-1.54	1.55	-0.33	0.33
14.0	162.2780	164.7375	167.2175	-4.69	-1.49	1.51	-0.32	0.32
15.0	154.9404	157.2152	159.5074	-4.66	-1.45	1.46	-0.31	0.31
16.0	147.9755	150.0783	152.1957	-4.63	-1.40	1.41	-0.30	0.30
17.0	141.3624	143.3050	145.2598	-4.60	-1.36	1.36	-0.30	0.29
18.0	135.0815	136.8750	138.6783	-4.58	-1.31	1.32	-0.29	0.29
19.0	129.1144	130.7689	132.4314	-4.55	-1.27	1.27	-0.28	0.28
20.0	123.4437	124.9689	126.5002	-4.52	-1.22	1.23	-0.27	0.27
21.0	118.0532	119.4578	120.8671	-4.50	-1.18	1.18	-0.26	0.26
22.0	112.9275	114.2200	115.5156	-4.47	-1.13	1.13	-0.25	0.25
23.0	108.0523	109.2403	110.4302	-4.44	-1.09	1.09	-0.25	0.24
24.0	103.4141	104.5047	105.5963	-4.42	-1.04	1.04	-0.24	0.24
25.0	99.0000	100.0000	101.0000	-4.39	-1.00	1.00	-0.23	0.23
26.0	94.7151	95.7138	96.7133	-4.37	-1.04	1.04	-0.24	0.24
27.0	90.6387	91.6343	92.6315	-4.34	-1.09	1.09	-0.25	0.25
28.0	86.7595	87.7505	88.7439	-4.32	-1.13	1.13	-0.26	0.26
29.0	83.0671	84.0520	85.0402	-4.29	-1.17	1.18	-0.27	0.27
30.0	79.5514	80.5291	81.5107	-4.27	-1.21	1.22	-0.29	0.28
31.0	76.2031	77.1726	78.1465	-4.25	-1.26	1.26	-0.30	0.30
32.0	73.0135	73.9736	74.9389	-4.22	-1.30	1.30	-0.31	0.31
33.0	69.9741	70.9241	71.8799	-4.20	-1.34	1.35	-0.32	0.32
34.0	67.0772	68.0164	68.9618	-4.17	-1.38	1.39	-0.33	0.33
35.0	64.3154	65.2431	66.1775	-4.15	-1.42	1.43	-0.35	0.34
36.0	61.6817	62.5973	63.5201	-4.13	-1.46	1.47	-0.36	0.35
37.0	59.1695	60.0725	60.9832	-4.11	-1.50	1.52	-0.37	0.37
38.0	56.7727	57.6627	58.5609	-4.08	-1.54	1.56	-0.38	0.38
39.0	54.4853	55.3620	56.2472	-4.06	-1.58	1.60	-0.39	0.39
40.0	52.3018	53.1650	54.0369	-4.04	-1.62	1.64	-0.41	0.40
41.0	50.2171	51.0664	51.9248	-4.02	-1.66	1.68	-0.42	0.41
42.0	48.2261	49.0614	49.9061	-3.99	-1.70	1.72	-0.43	0.43
43.0	46.3243	47.1453	47.9762	-3.97	-1.74	1.76	-0.44	0.44
44.0	44.5070	45.3139	46.1307	-3.95	-1.78	1.80	-0.46	0.45
45.0	42.7703	43.5629	44.3656	-3.93	-1.82	1.84	-0.47	0.46
46.0	41.1102	41.8883	42.6770	-3.91	-1.86	1.88	-0.48	0.48
47.0	39.5228	40.2866	41.0611	-3.89	-1.90	1.92	-0.49	0.49
48.0	38.0047	38.7542	39.5146	-3.87	-1.93	1.96	-0.51	0.50
49.0	36.5526	37.2878	38.0341	-3.85	-1.97	2.00	-0.52	0.51
50.0	35.1631	35.8842	36.6164	-3.83	-2.01	2.04	-0.53	0.53
51.0	33.8334	34.5404	35.2586	-3.81	-2.05	2.08	-0.55	0.54
52.0	32.5606	33.2536	33.9580	-3.79	-2.08	2.12	-0.56	0.55
53.0	31.3420	32.0212	32.7118	-3.77	-2.12	2.16	-0.57	0.56
54.0	30.1750	30.8404	31.5174	-3.75	-2.16	2.20	-0.59	0.58
55.0	29.0572	29.7091	30.3726	-3.73	-2.19	2.23	-0.60	0.59



56.0	27.9863	28.6248	29.2750	-3.71	-2.23	2.27	-0.61	0.60
57.0	26.9601	27.5854	28.2224	-3.69	-2.27	2.31	-0.63	0.61
58.0	25.9765	26.5888	27.2128	-3.67	-2.30	2.35	-0.64	0.63
59.0	25.0336	25.6330	26.2442	-3.65	-2.34	2.38	-0.65	0.64
60.0	24.1295	24.7163	25.3148	-3.63	-2.37	2.42	-0.67	0.65
61.0	23.2624	23.8368	24.4228	-3.61	-2.41	2.46	-0.68	0.67
62.0	22.4307	22.9928	23.5666	-3.60	-2.44	2.50	-0.69	0.68
63.0	21.6327	22.1828	22.7445	-3.58	-2.48	2.53	-0.71	0.69
64.0	20.8669	21.4052	21.9551	-3.56	-2.51	2.57	-0.72	0.71
65.0	20.1319	20.6585	21.1968	-3.54	-2.55	2.61	-0.74	0.72
66.0	19.4263	19.9415	20.4683	-3.52	-2.58	2.64	-0.75	0.73
67.0	18.7488	19.2528	19.7683	-3.51	-2.62	2.68	-0.76	0.75
68.0	18.0982	18.5911	19.0956	-3.49	-2.65	2.71	-0.78	0.76
69.0	17.4731	17.9554	18.4490	-3.47	-2.69	2.75	-0.79	0.77
70.0	16.8727	17.3443	17.8274	-3.45	-2.72	2.79	-0.81	0.79
71.0	16.2957	16.7569	17.2296	-3.44	-2.75	2.82	-0.82	0.80
72.0	15.7411	16.1922	16.6546	-3.42	-2.79	2.86	-0.84	0.81
73.0	15.2080	15.6492	16.1016	-3.40	-2.82	2.89	-0.85	0.83
74.0	14.6954	15.1269	15.5695	-3.39	-2.85	2.93	-0.86	0.84
75.0	14.2025	14.6245	15.0574	-3.37	-2.89	2.96	-0.88	0.86
76.0	13.7285	14.1411	14.5646	-3.35	-2.92	3.00	-0.89	0.87
77.0	13.2724	13.6759	14.0902	-3.34	-2.95	3.03	-0.91	0.88
78.0	12.8336	13.2282	13.6334	-3.32	-2.98	3.06	-0.92	0.90
79.0	12.4114	12.7971	13.1936	-3.30	-3.01	3.10	-0.94	0.91
80.0	12.0049	12.3822	12.7700	-3.29	-3.05	3.13	-0.95	0.93
81.0	11.6137	11.9825	12.3619	-3.27	-3.08	3.17	-0.97	0.94
82.0	11.2370	11.5977	11.9687	-3.26	-3.11	3.20	-0.98	0.95
83.0	10.8742	11.2269	11.5898	-3.24	-3.14	3.23	-1.00	0.97
84.0	10.5248	10.8696	11.2247	-3.23	-3.17	3.27	-1.01	0.98
85.0	10.1882	10.5254	10.8727	-3.21	-3.20	3.30	-1.03	1.00
86.0	9.8639	10.1936	10.5333	-3.20	-3.23	3.33	-1.04	1.01
87.0	9.5513	9.8738	10.2061	-3.18	-3.27	3.37	-1.06	1.03
88.0	9.2501	9.5654	9.8905	-3.17	-3.30	3.40	-1.07	1.04
89.0	8.9598	9.2681	9.5861	-3.15	-3.33	3.43	-1.09	1.06
90.0	8.6798	8.9814	9.2924	-3.14	-3.36	3.46	-1.10	1.07
91.0	8.4099	8.7048	9.0091	-3.12	-3.39	3.50	-1.12	1.09
92.0	8.1495	8.4379	8.7356	-3.11	-3.42	3.53	-1.14	1.10
93.0	7.8984	8.1804	8.4717	-3.09	-3.45	3.56	-1.15	1.12
94.0	7.6561	7.9319	8.2169	-3.08	-3.48	3.59	-1.17	1.13
95.0	7.4223	7.6921	7.9709	-3.06	-3.51	3.62	-1.18	1.14
96.0	7.1967	7.4606	7.7333	-3.05	-3.54	3.66	-1.20	1.16
97.0	6.9790	7.2371	7.5039	-3.03	-3.57	3.69	-1.21	1.17
98.0	6.7688	7.0212	7.2823	-3.02	-3.60	3.72	-1.23	1.19



99.0	6.5658	6.8127	7.0682	-3.01	-3.62	3.75	-1.25	1.21
100.0	6.3698	6.6114	6.8613	-2.99	-3.65	3.78	-1.26	1.22
101.0	6.1806	6.4168	6.6614	-2.98	-3.68	3.81	-1.28	1.24
102.0	5.9977	6.2289	6.4682	-2.97	-3.71	3.84	-1.30	1.25
103.0	5.8211	6.0472	6.2815	-2.95	-3.74	3.87	-1.31	1.27
104.0	5.6505	5.8717	6.1009	-2.94	-3.77	3.90	-1.33	1.28
105.0	5.4855	5.7020	5.9263	-2.93	-3.80	3.93	-1.34	1.30
106.0	5.3262	5.5379	5.7575	-2.91	-3.82	3.97	-1.36	1.31
107.0	5.1721	5.3793	5.5942	-2.90	-3.85	4.00	-1.38	1.33
108.0	5.0231	5.2258	5.4362	-2.89	-3.88	4.03	-1.39	1.34
109.0	4.8791	5.0775	5.2834	-2.87	-3.91	4.06	-1.41	1.36
110.0	4.7398	4.9339	5.1355	-2.86	-3.93	4.09	-1.43	1.38
111.0	4.6051	4.7951	4.9924	-2.85	-3.96	4.12	-1.44	1.39
112.0	4.4748	4.6607	4.8539	-2.84	-3.99	4.14	-1.46	1.41
113.0	4.3487	4.5307	4.7198	-2.82	-4.02	4.17	-1.48	1.42
114.0	4.2267	4.4048	4.5900	-2.81	-4.04	4.20	-1.50	1.44
115.0	4.1087	4.2830	4.4643	-2.80	-4.07	4.23	-1.51	1.45
116.0	3.9944	4.1651	4.3426	-2.79	-4.10	4.26	-1.53	1.47
117.0	3.8838	4.0509	4.2247	-2.77	-4.12	4.29	-1.55	1.49
118.0	3.7767	3.9403	4.1105	-2.76	-4.15	4.32	-1.56	1.50
119.0	3.6731	3.8332	3.9999	-2.75	-4.18	4.35	-1.58	1.52
120.0	3.5727	3.7294	3.8927	-2.74	-4.20	4.38	-1.60	1.54
121.0	3.4754	3.6289	3.7888	-2.73	-4.23	4.41	-1.62	1.55
122.0	3.3813	3.5315	3.6881	-2.71	-4.26	4.43	-1.63	1.57
123.0	3.2900	3.4372	3.5906	-2.70	-4.28	4.46	-1.65	1.58
124.0	3.2016	3.3457	3.4960	-2.69	-4.31	4.49	-1.67	1.60
125.0	3.1160	3.2571	3.4043	-2.68	-4.33	4.52	-1.69	1.62
126.0	3.0330	3.1712	3.3153	-2.67	-4.36	4.55	-1.70	1.63
127.0	2.9525	3.0879	3.2291	-2.66	-4.38	4.57	-1.72	1.65
128.0	2.8745	3.0071	3.1455	-2.65	-4.41	4.60	-1.74	1.67
129.0	2.7989	2.9287	3.0643	-2.63	-4.43	4.63	-1.76	1.68
130.0	2.7256	2.8528	2.9856	-2.62	-4.46	4.66	-1.78	1.70
131.0	2.6545	2.7791	2.9093	-2.61	-4.48	4.68	-1.79	1.72
132.0	2.5855	2.7076	2.8352	-2.60	-4.51	4.71	-1.81	1.73
133.0	2.5186	2.6382	2.7633	-2.59	-4.53	4.74	-1.83	1.75
134.0	2.4537	2.5709	2.6935	-2.58	-4.56	4.77	-1.85	1.77
135.0	2.3908	2.5056	2.6257	-2.57	-4.58	4.79	-1.87	1.78
136.0	2.3297	2.4422	2.5599	-2.56	-4.61	4.82	-1.88	1.80
137.0	2.2704	2.3807	2.4961	-2.55	-4.63	4.85	-1.90	1.82
138.0	2.2129	2.3210	2.4341	-2.54	-4.66	4.87	-1.92	1.84
139.0	2.1571	2.2630	2.3739	-2.53	-4.68	4.90	-1.94	1.85
140.0	2.1029	2.2067	2.3154	-2.51	-4.70	4.93	-1.96	1.87
141.0	2.0502	2.1520	2.2586	-2.50	-4.73	4.95	-1.98	1.89



142.0	1.9991	2.0989	2.2034	-2.49	-4.75	4.98	-2.00	1.91
143.0	1.9495	2.0473	2.1497	-2.48	-4.78	5.00	-2.02	1.92
144.0	1.9013	1.9971	2.0976	-2.47	-4.80	5.03	-2.03	1.94
145.0	1.8545	1.9485	2.0470	-2.46	-4.82	5.06	-2.05	1.96
146.0	1.8090	1.9011	1.9978	-2.45	-4.85	5.08	-2.07	1.98
147.0	1.7648	1.8552	1.9499	-2.44	-4.87	5.11	-2.09	1.99
148.0	1.7219	1.8105	1.9034	-2.43	-4.89	5.13	-2.11	2.01
149.0	1.6802	1.7670	1.8582	-2.42	-4.92	5.16	-2.13	2.03
150.0	1.6396	1.7248	1.8142	-2.41	-4.94	5.19	-2.15	2.05
151.0	1.6002	1.6838	1.7715	-2.40	-4.96	5.21	-2.17	2.06
152.0	1.5619	1.6438	1.7299	-2.39	-4.98	5.24	-2.19	2.08
153.0	1.5247	1.6050	1.6895	-2.38	-5.01	5.26	-2.21	2.10
154.0	1.4885	1.5673	1.6501	-2.37	-5.03	5.29	-2.23	2.12
155.0	1.4532	1.5306	1.6119	-2.37	-5.05	5.31	-2.25	2.14
156.0	1.4190	1.4949	1.5746	-2.36	-5.07	5.34	-2.26	2.15
157.0	1.3857	1.4601	1.5384	-2.35	-5.10	5.36	-2.28	2.17
158.0	1.3533	1.4263	1.5031	-2.34	-5.12	5.39	-2.30	2.19
159.0	1.3218	1.3935	1.4688	-2.33	-5.14	5.41	-2.32	2.21
160.0	1.2912	1.3615	1.4354	-2.32	-5.16	5.43	-2.34	2.23
161.0	1.2613	1.3303	1.4029	-2.31	-5.19	5.46	-2.36	2.25
162.0	1.2323	1.3000	1.3713	-2.30	-5.21	5.48	-2.38	2.26
163.0	1.2041	1.2705	1.3405	-2.29	-5.23	5.51	-2.40	2.28
164.0	1.1766	1.2418	1.3105	-2.28	-5.25	5.53	-2.42	2.30
165.0	1.1498	1.2138	1.2812	-2.27	-5.27	5.56	-2.44	2.32
166.0	1.1238	1.1866	1.2528	-2.26	-5.29	5.58	-2.46	2.34
167.0	1.0984	1.1601	1.2251	-2.26	-5.32	5.60	-2.48	2.36
168.0	1.0737	1.1342	1.1981	-2.25	-5.34	5.63	-2.50	2.38
169.0	1.0497	1.1091	1.1718	-2.24	-5.36	5.65	-2.52	2.39
170.0	1.0263	1.0846	1.1461	-2.23	-5.38	5.67	-2.55	2.41
171.0	1.0035	1.0607	1.1212	-2.22	-5.40	5.70	-2.57	2.43
172.0	0.9812	1.0375	1.0968	-2.21	-5.42	5.72	-2.59	2.45
173.0	0.9596	1.0148	1.0731	-2.20	-5.44	5.74	-2.61	2.47
174.0	0.9385	0.9928	1.0500	-2.19	-5.46	5.77	-2.63	2.49
175.0	0.9180	0.9712	1.0275	-2.19	-5.48	5.79	-2.65	2.51
176.0	0.8980	0.9503	1.0055	-2.18	-5.50	5.81	-2.67	2.53
177.0	0.8785	0.9298	0.9841	-2.17	-5.52	5.84	-2.69	2.55
178.0	0.8595	0.9099	0.9632	-2.16	-5.54	5.86	-2.71	2.57
179.0	0.8409	0.8905	0.9429	-2.15	-5.57	5.88	-2.73	2.58
180.0	0.8229	0.8716	0.9230	-2.15	-5.59	5.91	-2.75	2.60
181.0	0.8053	0.8531	0.9037	-2.14	-5.61	5.93	-2.77	2.62
182.0	0.7881	0.8351	0.8848	-2.13	-5.63	5.95	-2.80	2.64
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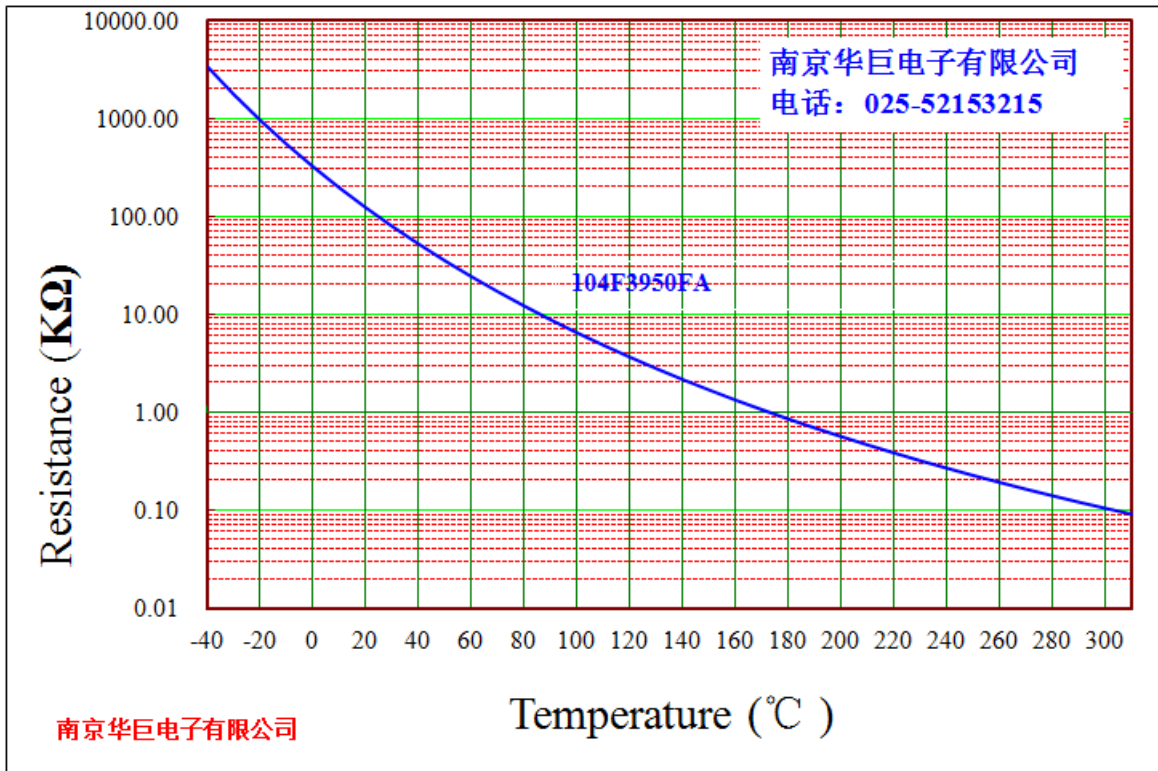
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186.0	0.7236	0.7674	0.8138	-2.10	-5.71	6.04	-2.88	2.72
187.0	0.7085	0.7515	0.7971	-2.09	-5.73	6.06	-2.90	2.74
188.0	0.6937	0.7360	0.7808	-2.08	-5.75	6.08	-2.92	2.76
189.0	0.6793	0.7209	0.7649	-2.07	-5.76	6.11	-2.95	2.78
190.0	0.6653	0.7061	0.7494	-2.07	-5.78	6.13	-2.97	2.80
191.0	0.6516	0.6917	0.7343	-2.06	-5.80	6.15	-2.99	2.82
192.0	0.6382	0.6777	0.7195	-2.05	-5.82	6.17	-3.01	2.84
193.0	0.6251	0.6639	0.7050	-2.04	-5.84	6.19	-3.03	2.86
194.0	0.6124	0.6505	0.6910	-2.04	-5.86	6.22	-3.05	2.88
195.0	0.6000	0.6374	0.6772	-2.03	-5.88	6.24	-3.08	2.90
196.0	0.5878	0.6247	0.6638	-2.02	-5.90	6.26	-3.10	2.92
197.0	0.5760	0.6122	0.6506	-2.01	-5.92	6.28	-3.12	2.94
198.0	0.5644	0.6000	0.6378	-2.01	-5.94	6.30	-3.14	2.96
199.0	0.5531	0.5881	0.6253	-2.00	-5.96	6.32	-3.16	2.98
200.0	0.5421	0.5765	0.6131	-1.99	-5.98	6.34	-3.19	3.00
201.0	0.5313	0.5652	0.6012	-1.98	-5.99	6.37	-3.21	3.02
202.0	0.5208	0.5541	0.5895	-1.98	-6.01	6.39	-3.23	3.04
203.0	0.5105	0.5433	0.5781	-1.97	-6.03	6.41	-3.25	3.06
204.0	0.5005	0.5327	0.5669	-1.96	-6.05	6.43	-3.28	3.08
205.0	0.4907	0.5224	0.5561	-1.95	-6.07	6.45	-3.30	3.10
206.0	0.4811	0.5123	0.5454	-1.95	-6.09	6.47	-3.32	3.12
207.0	0.4717	0.5024	0.5350	-1.94	-6.10	6.49	-3.34	3.15
208.0	0.4626	0.4928	0.5249	-1.93	-6.12	6.51	-3.37	3.17
209.0	0.4537	0.4834	0.5149	-1.93	-6.14	6.53	-3.39	3.19
210.0	0.4449	0.4741	0.5052	-1.92	-6.16	6.55	-3.41	3.21
211.0	0.4364	0.4651	0.4957	-1.91	-6.18	6.57	-3.44	3.23
212.0	0.4281	0.4564	0.4864	-1.91	-6.19	6.59	-3.46	3.25
213.0	0.4199	0.4478	0.4774	-1.90	-6.21	6.61	-3.48	3.27
214.0	0.4120	0.4393	0.4685	-1.89	-6.23	6.63	-3.51	3.29
215.0	0.4042	0.4311	0.4598	-1.89	-6.25	6.65	-3.53	3.31
216.0	0.3966	0.4231	0.4513	-1.88	-6.27	6.67	-3.55	3.33
217.0	0.3891	0.4152	0.4430	-1.87	-6.28	6.69	-3.57	3.36
218.0	0.3819	0.4075	0.4349	-1.87	-6.30	6.71	-3.60	3.38
219.0	0.3747	0.4000	0.4269	-1.86	-6.32	6.73	-3.62	3.40
220.0	0.3678	0.3927	0.4192	-1.85	-6.34	6.75	-3.65	3.42
221.0	0.3610	0.3855	0.4116	-1.85	-6.35	6.77	-3.67	3.44
222.0	0.3543	0.3784	0.4041	-1.84	-6.37	6.79	-3.69	3.46
223.0	0.3478	0.3715	0.3968	-1.83	-6.39	6.81	-3.72	3.48
224.0	0.3414	0.3648	0.3897	-1.83	-6.40	6.83	-3.74	3.51
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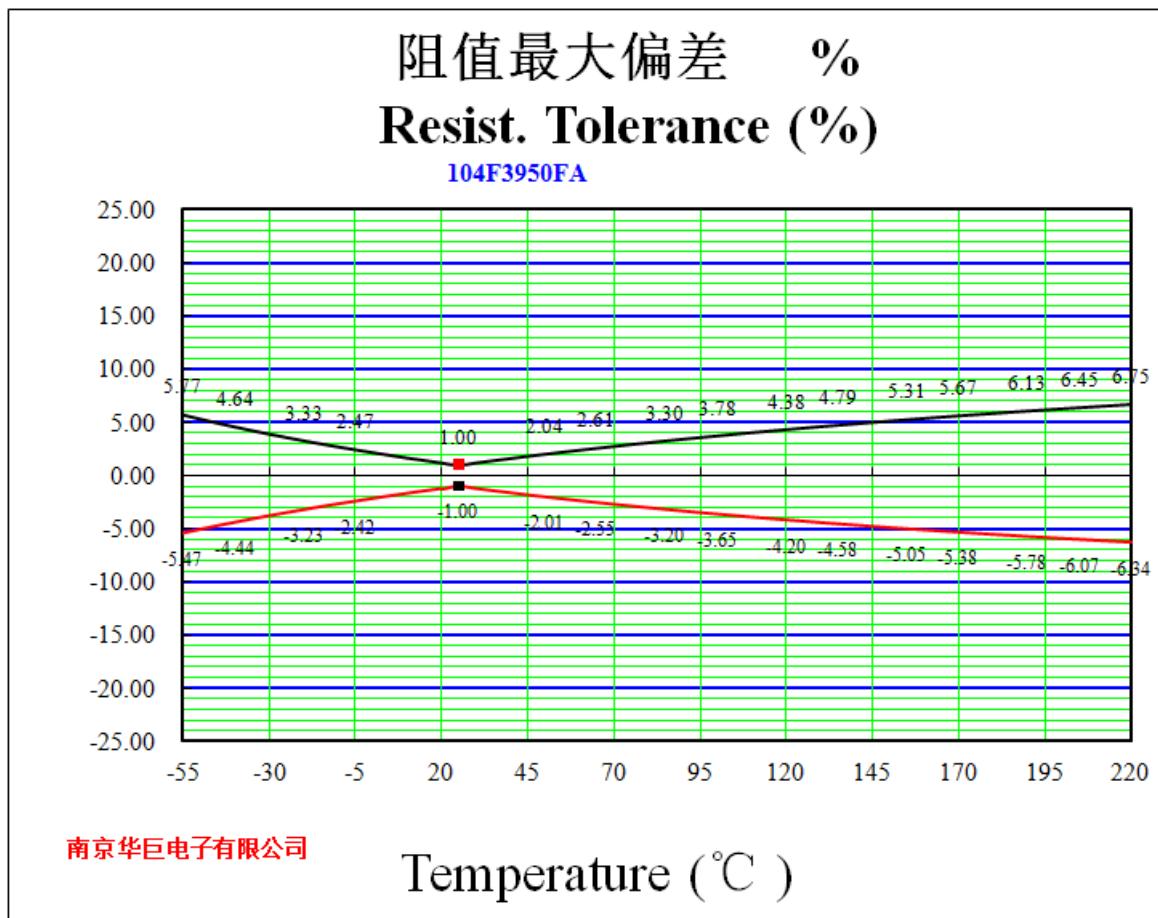
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228.0	0.3173	0.3393	0.3627	-1.80	-6.47	6.91	-3.84	3.59
229.0	0.3116	0.3332	0.3563	-1.80	-6.49	6.93	-3.86	3.61
230.0	0.3060	0.3273	0.3500	-1.79	-6.51	6.95	-3.88	3.64
231.0	0.3005	0.3215	0.3439	-1.78	-6.52	6.97	-3.91	3.66
232.0	0.2952	0.3158	0.3379	-1.78	-6.54	6.99	-3.93	3.68
233.0	0.2899	0.3103	0.3320	-1.77	-6.56	7.00	-3.96	3.70
234.0	0.2848	0.3048	0.3263	-1.76	-6.57	7.02	-3.98	3.72
235.0	0.2798	0.2995	0.3206	-1.76	-6.59	7.04	-4.00	3.75
236.0	0.2749	0.2943	0.3151	-1.75	-6.61	7.06	-4.03	3.77
237.0	0.2701	0.2892	0.3097	-1.75	-6.62	7.08	-4.05	3.79
238.0	0.2653	0.2842	0.3044	-1.74	-6.64	7.10	-4.08	3.81
239.0	0.2607	0.2793	0.2992	-1.73	-6.65	7.12	-4.10	3.84
240.0	0.2562	0.2745	0.2941	-1.73	-6.67	7.14	-4.13	3.86
241.0	0.2518	0.2698	0.2891	-1.72	-6.69	7.15	-4.15	3.88
242.0	0.2474	0.2652	0.2842	-1.72	-6.70	7.17	-4.18	3.90
243.0	0.2432	0.2607	0.2795	-1.71	-6.72	7.19	-4.20	3.93
244.0	0.2390	0.2563	0.2748	-1.71	-6.73	7.21	-4.23	3.95
245.0	0.2350	0.2520	0.2702	-1.70	-6.75	7.23	-4.25	3.97
246.0	0.2310	0.2477	0.2657	-1.69	-6.77	7.25	-4.28	3.99
247.0	0.2271	0.2436	0.2613	-1.69	-6.78	7.26	-4.30	4.02
248.0	0.2232	0.2395	0.2569	-1.68	-6.80	7.28	-4.33	4.04
249.0	0.2195	0.2355	0.2527	-1.68	-6.81	7.30	-4.35	4.06
250.0	0.2158	0.2316	0.2486	-1.67	-6.83	7.32	-4.38	4.09
251.0	0.2122	0.2278	0.2445	-1.67	-6.84	7.34	-4.40	4.11
252.0	0.2086	0.2240	0.2405	-1.66	-6.86	7.35	-4.43	4.13
253.0	0.2052	0.2203	0.2366	-1.65	-6.88	7.37	-4.45	4.15
254.0	0.2018	0.2167	0.2327	-1.65	-6.89	7.39	-4.48	4.18
255.0	0.1985	0.2132	0.2290	-1.64	-6.91	7.41	-4.51	4.20
256.0	0.1952	0.2097	0.2253	-1.64	-6.92	7.42	-4.53	4.22
257.0	0.1920	0.2063	0.2217	-1.63	-6.94	7.44	-4.56	4.25
258.0	0.1889	0.2030	0.2181	-1.63	-6.95	7.46	-4.58	4.27
259.0	0.1858	0.1997	0.2146	-1.62	-6.97	7.48	-4.61	4.29
260.0	0.1828	0.1965	0.2112	-1.62	-6.98	7.49	-4.64	4.32
261.0	0.1798	0.1933	0.2079	-1.61	-7.00	7.51	-4.66	4.34
262.0	0.1769	0.1903	0.2046	-1.61	-7.01	7.53	-4.69	4.36
263.0	0.1741	0.1872	0.2014	-1.60	-7.03	7.55	-4.71	4.39
264.0	0.1713	0.1843	0.1982	-1.60	-7.04	7.56	-4.74	4.41
265.0	0.1686	0.1814	0.1951	-1.59	-7.06	7.58	-4.77	4.44
266.0	0.1659	0.1785	0.1921	-1.59	-7.07	7.60	-4.79	4.46
267.0	0.1632	0.1757	0.1891	-1.58	-7.09	7.62	-4.82	4.48



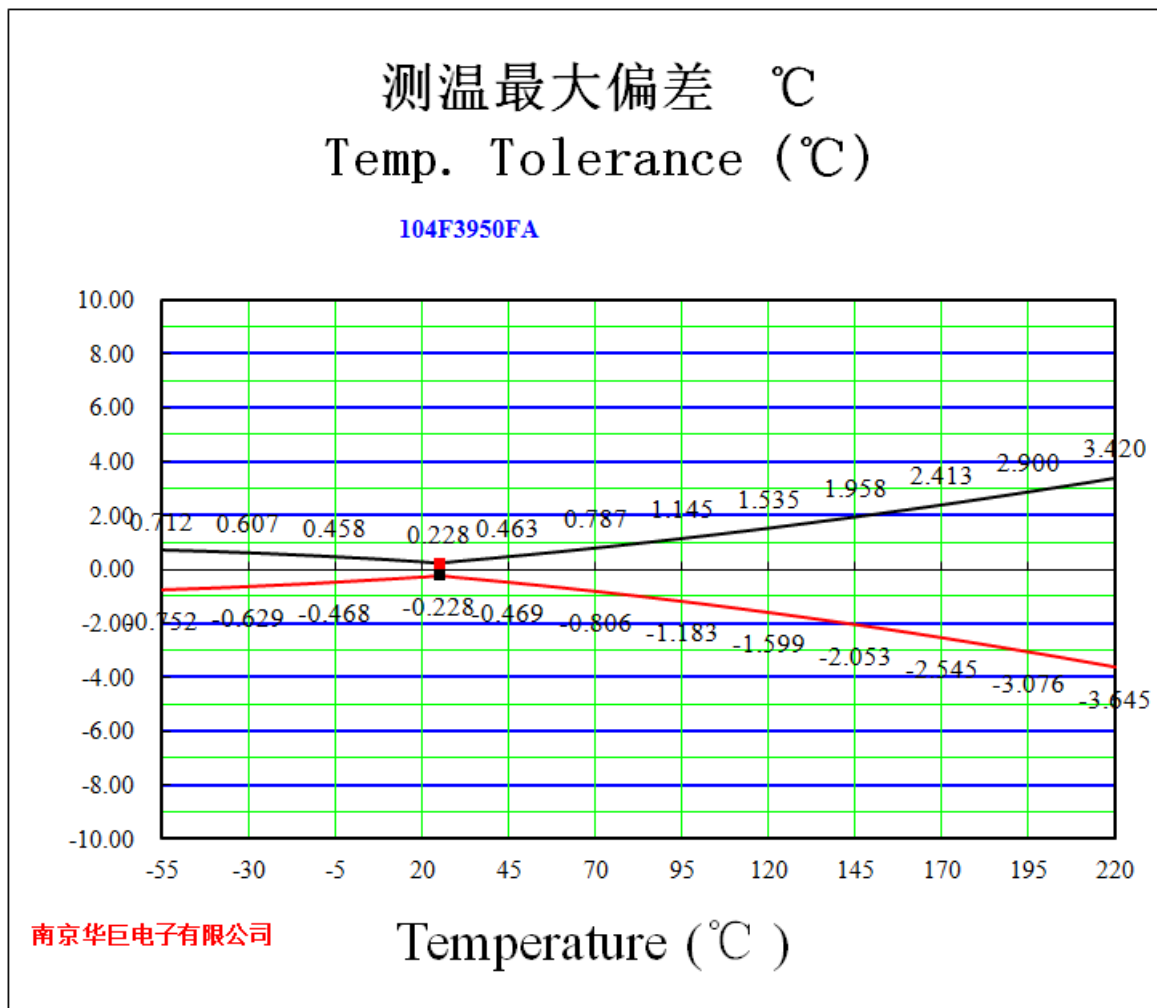
268.0	0.1607	0.1729	0.1861	-1.58	-7.10	7.63	-4.84	4.51
269.0	0.1581	0.1702	0.1833	-1.57	-7.11	7.65	-4.87	4.53
270.0	0.1556	0.1676	0.1804	-1.57	-7.13	7.67	-4.90	4.56
271.0	0.1532	0.1650	0.1777	-1.56	-7.14	7.68	-4.92	4.58
272.0	0.1508	0.1624	0.1750	-1.56	-7.16	7.70	-4.95	4.60
273.0	0.1485	0.1599	0.1723	-1.55	-7.17	7.72	-4.98	4.63
274.0	0.1462	0.1575	0.1697	-1.55	-7.19	7.73	-5.00	4.65
275.0	0.1439	0.1551	0.1671	-1.54	-7.20	7.75	-5.03	4.68
276.0	0.1417	0.1527	0.1646	-1.54	-7.22	7.77	-5.06	4.70
277.0	0.1395	0.1504	0.1621	-1.53	-7.23	7.78	-5.09	4.72
278.0	0.1374	0.1481	0.1597	-1.53	-7.24	7.80	-5.11	4.75
279.0	0.1353	0.1459	0.1573	-1.52	-7.26	7.82	-5.14	4.77
280.0	0.1332	0.1437	0.1549	-1.52	-7.27	7.83	-5.17	4.80
281.0	0.1312	0.1415	0.1526	-1.51	-7.29	7.85	-5.19	4.82
282.0	0.1292	0.1394	0.1504	-1.51	-7.30	7.86	-5.22	4.85
283.0	0.1273	0.1373	0.1481	-1.50	-7.31	7.88	-5.25	4.87
284.0	0.1254	0.1353	0.1460	-1.50	-7.33	7.90	-5.28	4.90
285.0	0.1235	0.1333	0.1438	-1.49	-7.34	7.91	-5.30	4.92
286.0	0.1216	0.1313	0.1417	-1.49	-7.36	7.93	-5.33	4.95
287.0	0.1198	0.1294	0.1396	-1.48	-7.37	7.95	-5.36	4.97
288.0	0.1180	0.1275	0.1376	-1.48	-7.38	7.96	-5.39	5.00
289.0	0.1163	0.1256	0.1356	-1.47	-7.40	7.98	-5.41	5.02
290.0	0.1146	0.1238	0.1336	-1.47	-7.41	7.99	-5.44	5.05
291.0	0.1129	0.1220	0.1317	-1.46	-7.42	8.01	-5.47	5.07
292.0	0.1112	0.1202	0.1298	-1.46	-7.44	8.02	-5.50	5.10
293.0	0.1096	0.1184	0.1280	-1.46	-7.45	8.04	-5.53	5.12
294.0	0.1080	0.1167	0.1261	-1.45	-7.46	8.06	-5.55	5.15
295.0	0.1065	0.1151	0.1243	-1.45	-7.48	8.07	-5.58	5.17
296.0	0.1049	0.1134	0.1226	-1.44	-7.49	8.09	-5.61	5.20
297.0	0.1034	0.1118	0.1208	-1.44	-7.50	8.10	-5.64	5.22
298.0	0.1019	0.1102	0.1191	-1.43	-7.52	8.12	-5.67	5.25
299.0	0.1004	0.1086	0.1175	-1.43	-7.53	8.13	-5.69	5.27
300.0	0.0990	0.1071	0.1158	-1.42	-7.54	8.15	-5.72	5.30



附: 图1



附: 图2



附：图3

3、包装

产品放入塑料袋内，并放入质检证后塑封；

包装箱内附有检验报告、送货单。

其中包含下列项目：

- a) 公司商标、名称
- b) 生产批号
- c) 产品代码
- d) 数量



e) 生产日期

