产品承认书

PRODUCT SPECIFICATION FOR APPROVAL

客 户 名 称 CUSTOMER NAME	
客 户 料 号 P/N OF CUSTOMER	
承 认 字 号 APPROVAL NO.	
产 品 名 称 PRODUCT NAME	贴片型负温度系数热敏电阻 CHIP TYPE NTC THERMISTOR
规 格 型 号 TYPE SPECIFICATION	SNC104B$_2$4250F0805EH
承认书版本号 APPROVAL SHEET VERSION	1.0
承 认 日 期 DATE OF APPROVAL	

供 应 商 SUPPLIER		
制 定 DESIGNED	审 核 CHECKED	批 准 APPROVED
供应商品管部印鉴 SUPPLIER QA SEAL		

客 户 CUSTOMER		
检 验 INSPECTED	审 核 CHECKED	批 准 APPROVED
客户承认印鉴 CUSTOMER APPROVAL SEAL		

修 订 履 历

REVISION LIST			
版 本 EDITION	修订时间 REVISION TIME	制 定 FORMULATE	修 订 内 容 REVISED CONTENT
1.0	2022-05-23	李宝健 LI BAOJIAN	初始发行 INITIAL ISSUE

目 录

CONTENTS

1、 规格型号 PART IDENTIFICATION

SN	C	104	B2	4250	F	0805	E	H
①	②	③	④	④	⑥	⑦	⑧	⑨

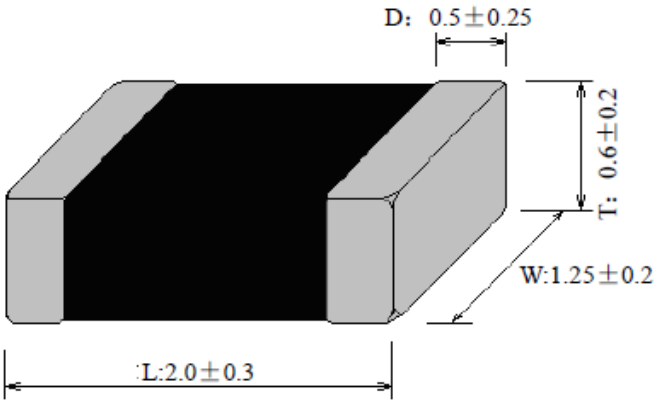
① **产品类别** **PART NUMBER ENTIFICATION**	SN指敏感型负温度系数热敏电阻
	SN INDICATES SMD NTC THERMISTOR
② **系列类别** **SERIES CATEGORY**	C指贴片
	C REFERS TO THE PATCH
③ **产品阻值（25℃零功率电阻值）** **PRODUCT RESISTANCE (25℃ ZERO POWER RESISTANCE)**	104指100KΩ
	104 MEANS 100 KΩ
④ **B 值代码** **B-VALUE CODE**	B2指 25/85
	B2 MEANS 25/85
⑤ **B 值数值** **B-VALUE TOLERANCE**	4250指B值为4250K
	4250 MEANS THAT B VALUE IS 4250K
⑥ **阻值误差** **PACKAGING STYLE**	F指±1%
	F REFERS TO ±1%
⑦ **本体尺寸** **BODY SIZE**	0805指2.2图所示尺寸;
	0805 REFERS TO THE SIZE SHOWN IN FIGURE 2.2;
⑧ **环保产品** **ENVIRONMENTAL PROTECTION PRODUCTS**	E表示环保产品
	E STANDS FOR ENVIRONMENTALLY FRIENDLY PRODUCTS
⑨ **特殊定义** **SPECIAL DEFINITION**	H表示产品阻值误差±1%，B误差±3%。
	H INDICATES THE PRODUCT RESISTANCE ERROR OF ±1%, B ERROR OF ±3%.

2、 产品特性PRODUCTION FEATURES

2.1 技术参数TECHNICAL PARAMETER

型号规格 SPECIFICATION AND MODEL	额定零功率电阻值 RATED ZERO POWER RESISTANCE VALUE	B（K）	耗散系数 DISSIPATION COEFFICIENT (S)	热时间常数 THERMAL TIME CONSTANT (S)	额定功率 RATED POWER (mw)	工作温度范围 (℃)
SNC104B2-4250F0805EH	100K	4250	≥3	≤5	300	-40~125

2.2 外形尺寸PRODUCTION DIMENSION



（单位UNIT：MM）

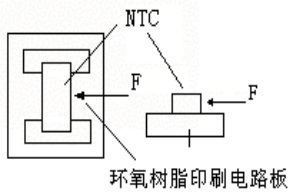
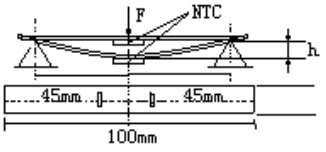
3、 检验规则 INSPECTION REGULATIONS

3.1 出厂检验 DELIVERY INSPECTION

序号 SEQUENCE	检测项目 TEST ITEM	检验方法 INSPECTION METHOD	性能要求 PERFORMANCE REQUIREMENT
(1)	R_{25}	将待测品置于 25℃高精度油槽内稳定后测量 THE PRODUCT TO BE MEASURED IS PLACED IN A 25℃ HIGH PRECISION OIL TANK FOR STABILITY	100KΩ±1%
(2)	$B_{25/85}$	将待测品置于25℃、85℃精度油槽内稳定后测量 THE PRODUCT TO BE TESTED IS PLACED IN A 25℃, 85℃ PRECISION OIL TANK AND THEN MEASURED	4250K±3%
(3)	外观 APPEARANCE	在20X的显微镜下目测检查 VISUAL INSPECTION UNDER A 20X MICROSCOPE	产品符合2.2的外形要求，无腐蚀、流挂、断片、崩边崩角等 THE PRODUCTS MEET THE REQUIREMENTS OF 2.2 SHAPE, NO CORROSION, FLOW HANGING, FRAGMENTATION, EDGE BREAKAGE, ETC
(4)	尺寸 DIMENSION	用精度不小于0.01mm的游标卡尺测量 MEASURE WITH VERNIER CALIPER WITH ACCURACY NOT LESS THAN 0.01MM	符合2.2的外形尺寸 CONFORM TO THE DIMENSIONS OF 2.2
(5)	可焊性 WELDABILITY	焊接温度 WELDING TEMPERATURE：245±5℃; 浸入时间 IMMERSION TIME：3±1s	着锡面积 TIN AREA≥95%

(6)	耐焊性 WELDING RESISTANCE	焊接温度 WELDING TEMPERATURE：260±10℃ 浸入时间 IMMERSION TIME：10±1s	无外观损伤，着锡面积≥75% NO APPEARANCE DAMAGE, TIN AREA ≥75% $\lvert \triangle R_{25}/R_{25} \rvert \leq 5\%$

3.2 型式检验PATTERN INSPECTION

序号 SEQUENCE	检验项目 ITEMS	检验标准 STANDARD	检验标准 STANDARD	性能要求 PERFORMANCE REQUIREMENTS
(1)	端头强度 END STRENGTH	IEC68-2-21	 F：0805≥10	无外观损伤 NO COSMETIC DAMAGE
(2)	抗弯强度 BENDING STRENGTH	IEC68-2-21	 h：1±0.1mm	无外观损伤 NO COSMETIC DAMAGE ｜△R_{25}/ R_{25}｜≤3%
(3)	跌落 FALL	IEC68-2-32	跌落高度 DROP HEIGHT：1.0±0.1m 跌落次数 NUMBER OF DROPS：1 跌落面 DROP SURFACE：水泥 CEMENT	无外观损伤 NO COSMETIC DAMAGE ｜△R_{25}/ R_{25}｜≤1% ｜△B/ B｜≤2%
(4)	湿热负载 DAMP-HEAT LOAD	IEC68-2-2/IEC68-2-3/CNS5550	温度 TEMPERATURE：40±2°C 湿度 HUMIDNESS：90~95%RH 时间 TIME：500±12h；工作电流 WORKING CURRENT	无外观损伤 NO COSMETIC DAMAGE ｜△R_{25}/ R_{25}｜≤5% ｜△B/ B｜≤2%
(5)	高温存储 HIGH TEMPERATURE STORAGE	IEC68-2-2/CNS5550	温度 TEMPERATURE：125±2°C 时间 TIME：1000±24h	无外观损伤 NO COSMETIC DAMAGE ｜△R_{25}/ R_{25}｜≤5% ｜△B/ B｜≤2%
(6)	冷热冲击 THERMAL SHOCK	IEC68-2-14	温度 TEMPERATURE：-40+125°C 周期 PERIOD：100,30min/cyc	无外观损伤 NO COSMETIC DAMAGE ｜△R_{25}/ R_{25}｜≤5% ｜△B/ B｜≤2%
(7)	低温存储 LOW TEMPERATURE	IEC68-2-1	温度 TEMPERATURE：-40±2°C 时间 TIME：1000±24h	无外观损伤 NO COSMETIC DAMAGE

	STORAGE			｜△R_{25}/ R_{25}｜≤2% ｜△B/ B｜≤2%
(8)	耐久性 DURABILITY	UL1434	环境温度 ENVIRONMENT TEMPERATURE：25±2°C 工作电流 WORKING CURRENT 周期 PERIOD：6000	无外观损伤 NO COSMETIC DAMAGE ｜△R_{25}/ R_{25}｜≤5% ｜△B/ B｜≤2%

4、 包装、贮存 PACKAGE &STORAGE

4.1 包装 PACKAGE

序号 SEQUENCE	包装方式 PACKAGING	包装材料、尺寸 PACKAGING MATERIAL &DIMENSION	产品数量 QUANTITY OF PRODUCT
(1)	编带 BRAID	0805纸带，标准带轮 0805 PAPER TAPE, STANDARD PULLEY	4000PCS
(2)	内包装盒 INNER BOX	纸箱CARTON，L×W×H=185mm×70mm×190mm	
(3)	外包装箱 OUTER PACKING BOX	纸箱CARTON，L×W×H=370mm×205mm×215mm	

4.2 贮存 STORAGE

产品密封保存，存放产品的产库环境温度-10°C~+40°C、相对湿度不大于70%，仓库内不允许有各种有害气体、易爆的产品及腐蚀性的化学物品，并且无强烈的机械振动、冲击和强辐射的作用，包装箱应垫高地面至少20cm，距离墙壁、热源、冷源、窗口或空气入口至少50cm。

- THIS PRODUCT MUST BE KEPT SEALED.
- STORE IN AN ORDINARY ENVIRONMENT (NORMAL ROOM TEMPERATURE, HUMIDITY AND ATMOSPHERIC PRESSURE).
- STORAGE TEMPERATURE: -10℃~+40℃
- RELATIVE HUMIDITY: ≤70%RH.
- KEEP AWAY FROM CORROSIVE GASES, DEOXIDIZING GAS, FLAMMABLE GAS OR DIRECT SUNLIGHT.
- AVOID STRONG MECHANICAL VIBRATION, SHOCK.
- THE PACKING BOX SHOULD BE RAISED AT LEAST 20CM ABOVE THE GROUND AND AT LEAST 50CM AWAY FROM THE WALL, HEAT SOURCE, COLD SOURCE, WINDOWS OR AIR INLET.
- ABNORMAL STORAGE AND OPERATING CONDITIONS MAY CAUSE MALFUNCTION FUNCTION OR FAILURE OF OUR PRODUCTS.

5、 电阻－温度特性表 RESISTANCE-TEMPERATURE CHARACTERISTIC TABLE

R_{25}=100KΩ±1%
$B_{25/85}$=4250±3%

T(℃)	R_{Min}(KΩ)	R_{Nor}(KΩ)	R_{Max}(KΩ)	T(℃)	R_{Min}(KΩ)	R_{Nor}(KΩ)	R_{Max}(KΩ)
-40	4173.7077	4733.0498	5366.8157	-1	361.1717	379.7190	399.1789
-39	3882.1939	4392.6211	4969.6617	0	342.1732	359.1442	376.9192
-38	3613.1653	4079.1505	4604.7727	1	324.2942	339.8140	356.0408
-37	3364.7332	3790.3185	4269.3067	2	307.4620	321.6456	336.4498
-36	3135.1796	3524.0201	3960.6904	3	291.6092	304.5624	318.0592
-35	2922.9411	3278.3438	3676.5926	4	276.6729	288.4932	300.7883
-34	2726.5940	3051.5529	3414.8994	5	262.5948	273.3717	284.5624
-33	2544.8409	2842.0680	3173.6927	6	249.3205	259.1366	269.3121
-32	2376.4985	2648.4520	2951.2313	7	236.7994	245.7306	254.9731
-31	2220.4872	2469.3964	2745.9328	8	224.9844	233.1006	241.4856
-30	2075.8212	2303.7088	2556.3586	9	213.8315	221.1973	228.7940
-29	1941.5998	2150.3023	2381.2000	10	203.2998	209.9746	216.8468
-28	1816.9995	2008.1850	2219.2652	11	193.3511	199.3896	205.5961
-27	1701.2669	1876.4516	2069.4687	12	183.9498	189.4025	194.9973
-26	1593.7124	1754.2751	1930.8209	13	175.0626	179.9760	185.0088
-25	1493.7044	1640.8993	1802.4190	14	166.6584	171.0755	175.5920
-24	1400.6640	1535.6329	1683.4390	15	158.7084	162.6686	166.7110
-23	1314.0603	1437.8429	1573.1283	16	151.1852	154.7252	158.3322
-22	1233.4061	1346.9499	1470.7991	17	144.0637	147.2170	150.4244
-21	1158.2542	1262.4228	1375.8223	18	137.3201	140.1179	142.9584
-20	1088.1937	1183.7747	1287.6224	19	130.9321	133.4031	135.9072
-19	1022.8469	1110.5592	1205.6724	20	124.8792	127.0498	129.2453
-18	961.8666	1042.3660	1129.4896	21	119.1418	121.0365	122.9490
-17	904.9330	978.8188	1058.6314	22	113.7017	115.3430	116.9964
-16	851.7520	919.5715	992.6918	23	108.5418	109.9507	111.3666
-15	802.0523	864.3060	931.2985	24	103.6463	104.8418	106.0405
-14	755.5841	812.7295	874.1093	25	99.0000	100.0000	101.0000
-13	712.1170	764.5726	820.8101	26	94.3227	95.4098	96.4998
-12	671.4384	719.5873	771.1118	27	89.8932	91.0568	92.2262
-11	633.3519	677.5448	724.7488	28	85.6972	86.9274	88.1665
-10	597.6762	638.2344	681.4766	29	81.7210	83.0089	84.3087
-9	564.2439	601.4616	641.0701	30	77.9520	79.2895	80.6418
-8	532.8999	567.0469	603.3217	31	74.3782	75.7578	77.1553
-7	503.5009	534.8247	568.0403	32	70.9884	72.4035	73.8394
-6	475.9144	504.6418	535.0496	33	67.7723	69.2167	70.6848
-5	450.0176	476.3566	504.1869	34	64.7200	66.1881	67.6827
-4	425.6965	449.8385	475.3020	35	61.8222	63.3090	64.8250
-3	402.8459	424.9662	448.2563	36	59.0703	60.5712	62.1040
-2	381.3678	401.6276	422.9214	37	56.4563	57.9671	59.5124
T(℃)	R_{Min}(KΩ)	R_{Nor}(KΩ)	R_{Max}(KΩ)	T(℃)	R_{Min}(KΩ)	R_{Nor}(KΩ)	R_{Max}(KΩ)

38	53.9725	55.4895	57.0434	82	9.3967	10.1654	10.9959
39	51.6116	53.1315	54.6906	83	9.0721	9.8244	10.6379
40	49.3671	50.8867	52.4478	84	8.7604	9.4964	10.2933
41	47.2324	48.7491	50.3093	85	8.4608	9.1810	9.9615
42	45.2018	46.7130	48.2698	86	8.1729	8.8776	9.6420
43	43.2696	44.7731	46.3242	87	7.8962	8.5856	9.3342
44	41.4304	42.9243	44.4676	88	7.6301	8.3046	9.0377
45	39.6794	41.1619	42.6955	89	7.3743	8.0341	8.7521
46	38.0119	39.4814	41.0036	90	7.1283	7.7737	8.4768
47	36.4234	37.8786	39.3879	91	6.8916	7.5230	8.2115
48	34.9099	36.3495	37.8446	92	6.6639	7.2816	7.9557
49	33.4673	34.8903	36.3701	93	6.4447	7.0490	7.7091
50	32.0920	33.4974	34.9609	94	6.2338	6.8249	7.4713
51	30.7806	32.1676	33.6138	95	6.0308	6.6090	7.2419
52	29.5297	30.8977	32.3258	96	5.8353	6.4009	7.0206
53	28.3363	29.6846	31.0940	97	5.6471	6.2003	6.8071
54	27.1973	28.5255	29.9156	98	5.4658	6.0070	6.6011
55	26.1101	27.4178	28.7881	99	5.2911	5.8205	6.4023
56	25.0721	26.3589	27.7090	100	5.1228	5.6407	6.2103
57	24.0808	25.3465	26.6760	101	4.9607	5.4673	6.0250
58	23.1338	24.3782	25.6869	102	4.8044	5.3000	5.8461
59	22.2289	23.4519	24.7397	103	4.6537	5.1385	5.6733
60	21.3641	22.5656	23.8322	104	4.5084	4.9827	5.5064
61	20.5374	21.7174	22.9628	105	4.3684	4.8324	5.3451
62	19.7470	20.9054	22.1295	106	4.2333	4.6872	5.1893
63	18.9910	20.1279	21.3307	107	4.1030	4.5471	5.0387
64	18.2678	19.3833	20.5649	108	3.9772	4.4117	4.8932
65	17.5758	18.6701	19.8305	109	3.8559	4.2810	4.7525
66	16.9136	17.9867	19.1260	110	3.7389	4.1548	4.6165
67	16.2796	17.3318	18.4501	111	3.6259	4.0328	4.4850
68	15.6726	16.7040	17.8016	112	3.5168	3.9150	4.3578
69	15.0913	16.1022	17.1791	113	3.4114	3.8011	4.2348
70	14.5344	15.5250	16.5814	114	3.3097	3.6910	4.1158
71	14.0009	14.9714	16.0076	115	3.2115	3.5846	4.0006
72	13.4896	14.4403	15.4565	116	3.1166	3.4817	3.8892
73	12.9995	13.9307	14.9271	117	3.0249	3.3822	3.7814
74	12.5297	13.4416	14.4185	118	2.9363	3.2860	3.6770
75	12.0791	12.9721	13.9297	119	2.8507	3.1930	3.5760
76	11.6470	12.5213	13.4598	120	2.7680	3.1030	3.4781
77	11.2324	12.0883	13.0082	121	2.6880	3.0159	3.3834
78	10.8346	11.6725	12.5739	122	2.6107	2.9316	3.2916
79	10.4528	11.2730	12.1562	123	2.5359	2.8500	3.2028
80	10.0864	10.8891	11.7544	124	2.4636	2.7711	3.1167
81	9.7345	10.5201	11.3679	125	2.3936	2.6947	3.0333