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	SNC103B$_1$3450F0805EH
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	2021-12-07	李宝健 LI BAOJIAN	初始发行 INITIAL ISSUE

目 录

CONTENTS

1、规格型号 PART IDENTIFICATION

SN	C	103	B_1	3450	F	0805	E	H
①	②	③	④	④	⑥	⑦	⑧	⑨

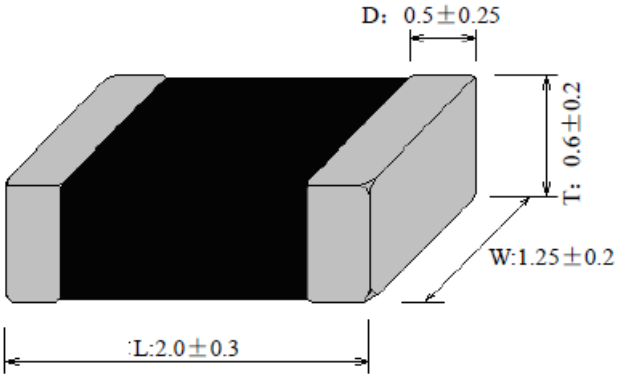
① **产品类别** **PART NUMBER ENTIFICATION**	SN指敏感型负温度系数热敏电阻
	SN INDICATES SMD NTC THERMISTOR
② **系列类别** **SERIES CATEGORY**	C指贴片
	C REFERS TO THE PATCH
③ **产品阻值（25℃零功率电阻值）** **PRODUCT RESISTANCE (25℃ ZERO POWER RESISTANCE)**	103指10KΩ
	103 MEANS 10 KΩ
④ **B 值代码** **B-VALUE CODE**	B1指 25/50
	B1 MEANS 25/50
⑤ **B 值数值** **B-VALUE TOLERANCE**	3435指B值为3435k
	3435 MEANS THE B VALUE IS 3435K
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指产品阻值公差为±1%，B值公差为±3%。
	H MEANS THE TOLERANCE OF THE PRODUCT RESISTANCE VALUE IS ±1%, AND THE TOLERANCE OF THE B VALUE IS ±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 (℃)
SNC103B3450F0805EH	10K	3450	≥3	≤5	300	-40~125

2.2 外形尺寸PRODUCTION DIMENSION



（单位UNIT：MM）

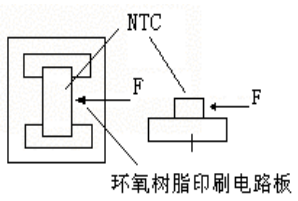
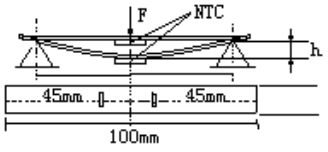
3、 检验规则 INSPECTION REGULATIONS

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	10KΩ±1%
(2)	$B_{25/50}$	将待测评置于25℃、50℃高精度油槽内稳定后测量 TO BE MEASURED IN 25℃, 50℃ HIGH-PRECISION OIL TANK STABILITY AFTER MEASUREMENT	3450K±1%
(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：0603≥8N	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 $\lvert \triangle R_{25}/R_{25} \rvert \leq 3\%$
(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 $\lvert \triangle R_{25}/R_{25} \rvert \leq 1\%$ $\lvert \triangle B/B \rvert \leq 2\%$
(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 $\lvert \triangle R_{25}/R_{25} \rvert \leq 5\%$ $\lvert \triangle B/B \rvert \leq 2\%$
(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 $\lvert \triangle R_{25}/R_{25} \rvert \leq 5\%$ $\lvert \triangle B/B \rvert \leq 2\%$
(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 $\lvert \triangle R_{25}/R_{25} \rvert \leq 5\%$ $\lvert \triangle B/B \rvert \leq 2\%$
(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			$\lvert \triangle R_{25}/R_{25} \rvert \leqslant 2\%$ $\lvert \triangle B/B \rvert \leqslant 2\%$
(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 $\lvert \triangle R_{25}/R_{25} \rvert \leqslant 5\%$ $\lvert \triangle B/B \rvert \leqslant 2\%$

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}=10KΩ±1%
$B_{25/50}$=3450±3%

T(℃)	R_{Min}(KΩ)	R_{Nor}(KΩ)	R_{Max}(KΩ)	T(℃)	R_{Min}(KΩ)	R_{Nor}(KΩ)	R_{Max}(KΩ)
-40	208.5352	231.4614	256.8824	-1	28.4741	29.7170	31.0110
-39	196.6246	217.8447	241.3308	0	27.2469	28.3975	29.5938
-38	185.4818	205.1290	226.8345	1	26.0804	27.1450	28.2502
-37	175.0522	193.2484	213.3147	2	24.9712	25.9556	26.9761
-36	165.2852	182.1424	200.6988	3	23.9161	24.8257	25.7674
-35	156.1341	171.7552	188.9202	4	22.9122	23.7521	24.6204
-34	147.5559	162.0353	177.9178	5	21.9566	22.7316	23.5315
-33	139.5109	152.9354	167.6350	6	21.0469	21.7612	22.4976
-32	131.9622	144.4118	158.0200	7	20.1805	20.8383	21.5154
-31	124.8761	136.4240	149.0249	8	19.3551	19.9602	20.5822
-30	118.2209	128.9348	140.6056	9	18.5685	19.1245	19.6951
-29	111.9677	121.9098	132.7215	10	17.8187	18.3288	18.8517
-28	106.0894	115.3171	125.3349	11	17.1037	17.5711	18.0495
-27	100.5612	109.1272	118.4111	12	16.4218	16.8494	17.2863
-26	95.3597	103.3129	111.9182	13	15.7712	16.1616	16.5600
-25	90.4637	97.8489	105.8264	14	15.1503	15.5060	15.8685
-24	85.8531	92.7118	100.1084	15	14.5576	14.8810	15.2101
-23	81.5095	87.8799	94.7388	16	13.9915	14.2849	14.5829
-22	77.4156	83.3332	89.6941	17	13.4509	13.7162	13.9853
-21	73.5555	79.0529	84.9526	18	12.9344	13.1735	13.4157
-20	69.9144	75.0217	80.4941	19	12.4408	12.6555	12.8727
-19	66.4783	71.2235	76.2998	20	11.9689	12.1610	12.3549
-18	63.2345	67.6434	72.3525	21	11.5177	11.6886	11.8609
-17	60.1709	64.2674	68.6360	22	11.0861	11.2374	11.3895
-16	57.2764	61.0827	65.1354	23	10.6733	10.8062	10.9397
-15	54.5406	58.0771	61.8367	24	10.2782	10.3940	10.5102
-14	51.9538	55.2395	58.7271	25	9.9000	10.0000	10.1000
-13	49.5069	52.5594	55.7944	26	9.5160	9.6232	9.7306
-12	47.1915	50.0271	53.0277	27	9.1490	9.2627	9.3768
-11	44.9998	47.6335	50.4163	28	8.7983	8.9178	9.0380
-10	42.9243	45.3702	47.9507	29	8.4631	8.5877	8.7133
-9	40.9581	43.2293	45.6218	30	8.1425	8.2717	8.4021
-8	39.0949	41.2034	43.4212	31	7.8359	7.9691	8.1038
-7	37.3286	39.2856	41.3411	32	7.5425	7.6793	7.8178
-6	35.6535	37.4695	39.3740	33	7.2618	7.4017	7.5435
-5	34.0645	35.7490	37.5132	34	6.9931	7.1356	7.2803
-4	32.5565	34.1187	35.7522	35	6.7358	6.8806	7.0278
-3	31.1249	32.5731	34.0852	36	6.4895	6.6361	6.7855
-2	29.7655	31.1074	32.5066	37	6.2535	6.4017	6.5528

T(℃)	R_{Min}(KΩ)	R_{Nor}(KΩ)	R_{Max}(KΩ)	T(℃)	R_{Min}(KΩ)	R_{Nor}(KΩ)	R_{Max}(KΩ)

38	6.0273	6.1769	6.3294	82	1.4361	1.5345	1.6395
39	5.8106	5.9611	6.1149	83	1.3952	1.4920	1.5955
40	5.6029	5.7541	5.9088	84	1.3556	1.4509	1.5528
41	5.4038	5.5555	5.7108	85	1.3173	1.4111	1.5115
42	5.2128	5.3647	5.5205	86	1.2803	1.3726	1.4715
43	5.0296	5.1816	5.3376	87	1.2445	1.3354	1.4327
44	4.8538	5.0057	5.1618	88	1.2099	1.2993	1.3951
45	4.6851	4.8367	4.9926	89	1.1764	1.2643	1.3587
46	4.5232	4.6743	4.8300	90	1.1440	1.2305	1.3234
47	4.3677	4.5182	4.6735	91	1.1126	1.1977	1.2892
48	4.2184	4.3682	4.5229	92	1.0822	1.1660	1.2561
49	4.0750	4.2240	4.3779	93	1.0528	1.1352	1.2239
50	3.9372	4.0853	4.2384	94	1.0244	1.1054	1.1927
51	3.8049	3.9518	4.1041	95	0.9968	1.0765	1.1624
52	3.6776	3.8235	3.9747	96	0.9701	1.0485	1.1331
53	3.5553	3.7000	3.8501	97	0.9442	1.0213	1.1046
54	3.4377	3.5811	3.7300	98	0.9192	0.9950	1.0770
55	3.3246	3.4666	3.6144	99	0.8949	0.9695	1.0502
56	3.2158	3.3564	3.5029	100	0.8714	0.9447	1.0242
57	3.1111	3.2503	3.3954	101	0.8486	0.9207	0.9989
58	3.0104	3.1481	3.2917	102	0.8264	0.8974	0.9744
59	2.9134	3.0496	3.1918	103	0.8050	0.8748	0.9505
60	2.8201	2.9547	3.0954	104	0.7842	0.8529	0.9274
61	2.7302	2.8633	3.0024	105	0.7641	0.8316	0.9050
62	2.6437	2.7751	2.9127	106	0.7445	0.8109	0.8831
63	2.5603	2.6901	2.8261	107	0.7256	0.7909	0.8619
64	2.4800	2.6081	2.7426	108	0.7072	0.7714	0.8413
65	2.4026	2.5291	2.6619	109	0.6893	0.7525	0.8213
66	2.3280	2.4528	2.5840	110	0.6720	0.7341	0.8019
67	2.2561	2.3792	2.5088	111	0.6552	0.7163	0.7830
68	2.1868	2.3082	2.4361	112	0.6389	0.6989	0.7646
69	2.1199	2.2397	2.3659	113	0.6230	0.6821	0.7467
70	2.0555	2.1735	2.2981	114	0.6076	0.6657	0.7293
71	1.9933	2.1096	2.2326	115	0.5927	0.6499	0.7124
72	1.9333	2.0479	2.1692	116	0.5782	0.6344	0.6960
73	1.8754	1.9884	2.1080	117	0.5641	0.6194	0.6800
74	1.8195	1.9308	2.0487	118	0.5504	0.6048	0.6645
75	1.7655	1.8752	1.9915	119	0.5371	0.5906	0.6494
76	1.7134	1.8214	1.9361	120	0.5242	0.5768	0.6346
77	1.6631	1.7695	1.8825	121	0.5117	0.5634	0.6203
78	1.6145	1.7193	1.8307	122	0.4995	0.5504	0.6064
79	1.5676	1.6708	1.7805	123	0.4876	0.5377	0.5928
80	1.5223	1.6238	1.7320	124	0.4761	0.5253	0.5796
81	1.4784	1.5784	1.6850	125	0.4649	0.5133	0.5667