

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;3450H0805E
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

[illegible]

目 录

CONTENTS

1、规格型号 PART IDENTIFICATION	1
2、产品特性 PRODUCTION FEATURES	2
2.1 技术参数 TECHNICAL PARAMETER	2
2.2 外形尺寸、材质 PRODUCTION DIMENSION、MATERIAL	2
3、检验规则 INSPECTION REGULATIONS	3
3.1 出厂检验 DELIVERY INSPECTION	3
3.2 型式检验 PATTERN INSPECTION	5
4、包装、贮存 PACKAGE & STORAGE	7
4.1 包装 PACKAGE	7
4.2 贮存 STORAGE	7
5、电阻-温度特性表 RESISTANCE-TEMPERATURE CHARACTERISTIC TABLE	8

1、规格型号 PART IDENTIFICATION

SN	C	103	B ₁	3450	F	0805	E
①	②	③	④	④	⑥	⑦	⑧

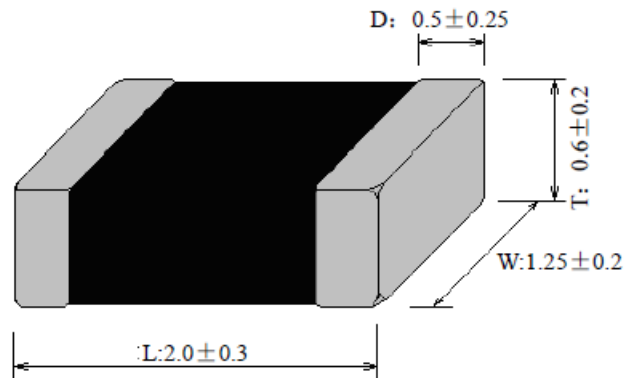
① 产品类别 PART NUMBER ENTIFICATION	SN指敏感型负温度系数热敏电阻
	SN INDICATES SMD NTC THERMISTOR
② 系列类别 SERIES CATEGORY	C指贴片
	C REFERS TO THE PATCH
③ 产品阻值（25℃零功率电阻值） PRODUCT RESISTANCE (25°C ZERO POWER RESISTANCE)	103指10KΩ
	103 MEANS 10 KΩ
④ B 值代码 B-VALUE CODE	B1指 25/50
	B1 MEANS 25/50
⑤ B 值数值 B-VALUE TOLERANCE	3435指B值为3435k
	3435 MEANS THE B VALUE IS 3435K
⑥ 阻值误差 PACKAGING STYLE	H指±3%
	H REFERS TO ±3%
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

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 (°C)
SNC103B;3450H0805E	10K	3450	≥ 3	≤ 5	300	-40~125

2.2 外形尺寸 PRODUCTION DIMENSION



(单位UNIT: MM)

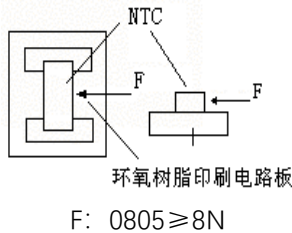
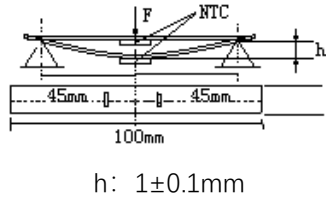
3、检验规则 INSPECTION REGULATIONS

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±3%
(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±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: $260 \pm 10^{\circ}\text{C}$ 浸入时间 IMMERSION TIME: $10 \pm 1\text{s}$	无外观损伤, 着锡面积 $\geq 75\%$ NO APPEARANCE DAMAGE, TIN AREA $\geq 75\%$ $ \Delta R_{25}/R_{25} \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 ≥ 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 $\Delta R_{25}/R_{25}$ ≤ 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 $\Delta R_{25}/R_{25}$ ≤ 1% $\Delta B/B$ ≤ 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 $\Delta R_{25}/R_{25}$ ≤ 5% $\Delta B/B$ ≤ 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 $\Delta R_{25}/R_{25}$ ≤ 5% $\Delta B/B$ ≤ 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 $\Delta R_{25}/R_{25}$ ≤ 5% $\Delta B/B$ ≤ 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			$ \Delta R_{25}/R_{25} \leq 2\%$ $ \Delta B/B \leq 2\%$
(8)	耐久性 DURABILITY	UL1434	环境温度 ENVIRONMENT TEMPERATURE: $25 \pm 2^\circ\text{C}$ 工作电流 WORKING CURRENT 周期 PERIOD: 6000	无外观损伤 NO COSMETIC DAMAGE $ \Delta R_{25}/R_{25} \leq 5\%$ $ \Delta B/B \leq 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℃~+40℃、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

 $R_{25}=10K\Omega\pm1\%$
 $B_{25/50}=3450\pm3\%$

T(°C)	R _{Min} (KΩ)	R _{Nor} (KΩ)	R _{Max} (KΩ)	T(°C)	R _{Min} (KΩ)	R _{Nor} (KΩ)	R _{Max} (KΩ)
-40	204.3224	231.4614	261.9691	-1	27.8989	29.7170	31.6251
-39	192.6524	217.8447	246.1096	0	26.6965	28.3975	30.1798
-38	181.7347	205.1290	231.3263	1	25.5535	27.1450	28.8096
-37	171.5158	193.2484	217.5387	2	24.4667	25.9556	27.5103
-36	161.9461	182.1424	204.6730	3	23.4329	24.8257	26.2776
-35	152.9798	171.7552	192.6612	4	22.4493	23.7521	25.1079
-34	144.5750	162.0353	181.4409	5	21.5131	22.7316	23.9975
-33	136.6925	152.9354	170.9545	6	20.6217	21.7612	22.9431
-32	129.2963	144.4118	161.1491	7	19.7728	20.8383	21.9415
-31	122.3533	136.4240	151.9759	8	18.9641	19.9602	20.9897
-30	115.8326	128.9348	143.3899	9	18.1934	19.1245	20.0851
-29	109.7057	121.9098	135.3496	10	17.4587	18.3288	19.2250
-28	103.9462	115.3171	127.8167	11	16.7582	17.5711	18.4069
-27	98.5296	109.1272	120.7559	12	16.0901	16.8494	17.6286
-26	93.4333	103.3129	114.1344	13	15.4526	16.1616	16.8879
-25	88.6362	97.8489	107.9220	14	14.8442	15.5060	16.1828
-24	84.1187	92.7118	102.0907	15	14.2635	14.8810	15.5113
-23	79.8629	87.8799	96.6148	16	13.7089	14.2849	14.8717
-22	75.8517	83.3332	91.4702	17	13.1792	13.7162	14.2623
-21	72.0696	79.0529	86.6348	18	12.6731	13.1735	13.6814
-20	68.5020	75.0217	82.0880	19	12.1894	12.6555	13.1276
-19	65.1353	71.2235	77.8107	20	11.7271	12.1610	12.5995
-18	61.9570	67.6434	73.7852	21	11.2850	11.6886	12.0958
-17	58.9553	64.2674	69.9951	22	10.8622	11.2374	11.6151
-16	56.1193	61.0827	66.4252	23	10.4576	10.8062	11.1563
-15	53.4388	58.0771	63.0612	24	10.0705	10.3940	10.7183
-14	50.9042	55.2395	59.8900	25	9.7000	10.0000	10.3000
-13	48.5068	52.5594	56.8993	26	9.3237	9.6232	9.9233
-12	46.2382	50.0271	54.0777	27	8.9642	9.2627	9.5625
-11	44.0907	47.6335	51.4147	28	8.6206	8.9178	9.2169
-10	42.0571	45.3702	48.9003	29	8.2921	8.5877	8.8858
-9	40.1307	43.2293	46.5252	30	7.9780	8.2717	8.5685
-8	38.3051	41.2034	44.2811	31	7.6776	7.9691	8.2643
-7	36.5745	39.2856	42.1597	32	7.3901	7.6793	7.9726
-6	34.9332	37.4695	40.1537	33	7.1151	7.4017	7.6928
-5	33.3763	35.7490	38.2560	34	6.8518	7.1356	7.4245
-4	31.8988	34.1187	36.4602	35	6.5997	6.8806	7.1670
-3	30.4962	32.5731	34.7602	36	6.3584	6.6361	6.9198
-2	29.1642	31.1074	33.1503	37	6.1271	6.4017	6.6826
T(°C)	R _{Min} (KΩ)	R _{Nor} (KΩ)	R _{Max} (KΩ)	T(°C)	R _{Min} (KΩ)	R _{Nor} (KΩ)	R _{Max} (KΩ)
38	5.9056	6.1769	6.4548	82	1.4071	1.5345	1.6720

39	5.6933	5.9611	6.2360	83	1.3670	1.4920	1.6270
40	5.4897	5.7541	6.0258	84	1.3282	1.4509	1.5835
41	5.2946	5.5555	5.8239	85	1.2907	1.4111	1.5414
42	5.1075	5.3647	5.6299	86	1.2545	1.3726	1.5006
43	4.9279	5.1816	5.4433	87	1.2194	1.3354	1.4611
44	4.7557	5.0057	5.2640	88	1.1855	1.2993	1.4228
45	4.5904	4.8367	5.0915	89	1.1526	1.2643	1.3856
46	4.4318	4.6743	4.9256	90	1.1209	1.2305	1.3496
47	4.2795	4.5182	4.7660	91	1.0901	1.1977	1.3147
48	4.1332	4.3682	4.6124	92	1.0604	1.1660	1.2809
49	3.9927	4.2240	4.4646	93	1.0316	1.1352	1.2481
50	3.8577	4.0853	4.3224	94	1.0037	1.1054	1.2163
51	3.7280	3.9518	4.1854	95	0.9767	1.0765	1.1855
52	3.6033	3.8235	4.0534	96	0.9505	1.0485	1.1555
53	3.4835	3.7000	3.9263	97	0.9252	1.0213	1.1265
54	3.3683	3.5811	3.8039	98	0.9006	0.9950	1.0983
55	3.2574	3.4666	3.6859	99	0.8768	0.9695	1.0710
56	3.1508	3.3564	3.5722	100	0.8538	0.9447	1.0444
57	3.0483	3.2503	3.4626	101	0.8314	0.9207	1.0187
58	2.9496	3.1481	3.3569	102	0.8097	0.8974	0.9937
59	2.8546	3.0496	3.2550	103	0.7887	0.8748	0.9694
60	2.7631	2.9547	3.1567	104	0.7684	0.8529	0.9458
61	2.6751	2.8633	3.0619	105	0.7486	0.8316	0.9229
62	2.5903	2.7751	2.9704	106	0.7295	0.8109	0.9006
63	2.5086	2.6901	2.8821	107	0.7109	0.7909	0.8790
64	2.4299	2.6081	2.7969	108	0.6929	0.7714	0.8580
65	2.3541	2.5291	2.7146	109	0.6754	0.7525	0.8376
66	2.2810	2.4528	2.6352	110	0.6584	0.7341	0.8177
67	2.2105	2.3792	2.5585	111	0.6419	0.7163	0.7985
68	2.1426	2.3082	2.4844	112	0.6260	0.6989	0.7797
69	2.0771	2.2397	2.4128	113	0.6104	0.6821	0.7615
70	2.0139	2.1735	2.3436	114	0.5954	0.6657	0.7438
71	1.9530	2.1096	2.2768	115	0.5807	0.6499	0.7266
72	1.8942	2.0479	2.2122	116	0.5665	0.6344	0.7098
73	1.8375	1.9884	2.1497	117	0.5527	0.6194	0.6935
74	1.7827	1.9308	2.0893	118	0.5393	0.6048	0.6776
75	1.7298	1.8752	2.0309	119	0.5263	0.5906	0.6622
76	1.6788	1.8214	1.9744	120	0.5136	0.5768	0.6472
77	1.6295	1.7695	1.9198	121	0.5013	0.5634	0.6326
78	1.5819	1.7193	1.8669	122	0.4894	0.5504	0.6184
79	1.5359	1.6708	1.8158	123	0.4777	0.5377	0.6046
80	1.4915	1.6238	1.7663	124	0.4665	0.5253	0.5911
81	1.4486	1.5784	1.7184	125	0.4555	0.5133	0.5780