

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 ₂ 3435H0603E
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 B₂ 3435 H 0603 E
 ① ② ③ ④ ④ ⑥ ⑦ ⑧

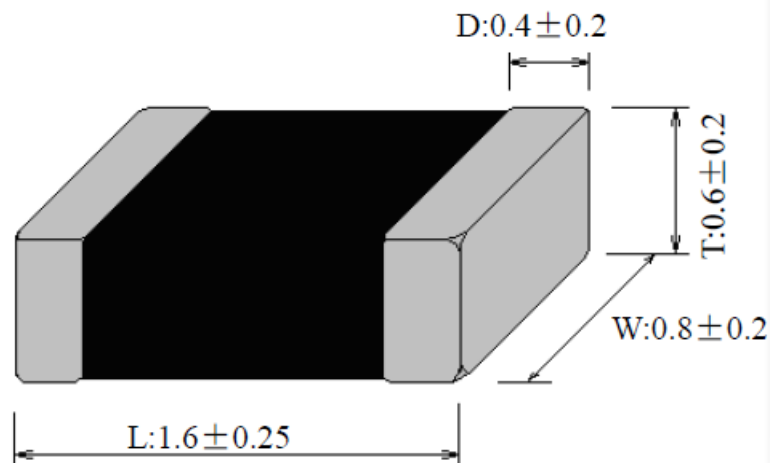
① 产品类别 PART NUMBER ENTIFICATION	SN指敏感型负温度系数热敏电阻
	SN INDICATES SMD NTC THERMISTOR
② 系列类别 SERIES CATEGORY	C指贴片
	C REFERS TO THE PATCH
③ 产品阻值（25℃零功率电阻值） PRODUCT RESISTANCE (25℃ ZERO POWER RESISTANCE)	103指10KΩ
	103 MEANS 10 KΩ
④ B 值代码 B-VALUE CODE	B2指 25/85
	B2 MEANS 25/85
⑤ B 值数值 B-VALUE TOLERANCE	3435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	0603指2.2图所示尺寸;
	0603 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:3435H0603E	10K	4200	≥ 2	≤ 3	200	-40~125

2.2 外形尺寸 PRODUCTION DIMENSION



(单位UNIT: MM)

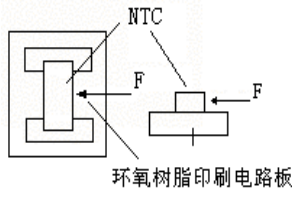
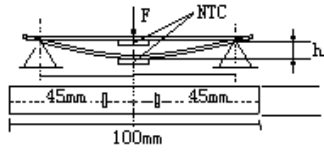
3、检验规则 INSPECTION REGULATIONS

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 _{25/85}	将待测评置于25℃、85℃高精度油槽内 稳定后测量 TO BE MEASURED IN 25℃, 85℃ HIGH- PRECISION OIL TANK STABILITY AFTER MEASUREMENT	3435K±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: $260 \pm 10^{\circ}\text{C}$ 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: 0603 $\geq$ 8N	无外观损伤 NO COSMETIC DAMAGE
(2)	抗弯强度 BENDING STRENGTH	IEC68-2-21	 h: 1 $\pm$ 0.1mm	无外观损伤 NO COSMETIC DAMAGE $\Delta R_{25}/R_{25}$ $\leq$ 3%
(3)	跌落 FALL	IEC68-2-32	跌落高度 DROP HEIGHT: 1.0 $\pm$ 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 $\Delta R_{25}/R_{25}$ $\leq$ 1% $\Delta B/B$ $\leq$ 2%
(4)	湿热负载 DAMP-HEAT LOAD	IEC68-2-2/IEC68-2-3/CNS5550	温度 TEMPERATURE: 40 $\pm$ 2 $^{\circ}$ C 湿度 HUMIDNESS: 90~95%RH 时间 TIME: 500 $\pm$ 12h; 工作电流 WORKING CURRENT	无外观损伤 NO COSMETIC DAMAGE $\Delta R_{25}/R_{25}$ $\leq$ 5% $\Delta B/B$ $\leq$ 2%
(5)	高温存储 HIGH TEMPERATURE STORAGE	IEC68-2-2/CNS5550	温度 TEMPERATURE: 125 $\pm$ 2 $^{\circ}$ C 时间 TIME: 1000 $\pm$ 24h	无外观损伤 NO COSMETIC DAMAGE $\Delta R_{25}/R_{25}$ $\leq$ 5% $\Delta B/B$ $\leq$ 2%
(6)	冷热冲击 THERMAL SHOCK	IEC68-2-14	温度 TEMPERATURE: -40 $\pm$ 125 $^{\circ}$ C 周期 PERIOD: 100,30min/cyc	无外观损伤 NO COSMETIC DAMAGE $\Delta R_{25}/R_{25}$ $\leq$ 5% $\Delta B/B$ $\leq$ 2%
(7)	低温存储 LOW TEMPERATURE	IEC68-2-1	温度 TEMPERATURE: -40 $\pm$ 2 $^{\circ}$ C 时间 TIME: 1000 $\pm$ 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	0603纸带, 标准带轮 0603 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

 $R_{25}=100K\Omega\pm 3\%$
 $B_{25/85}=3435\pm 1\%$

T(°C)	R _{Min} (KΩ)	R _{Nor} (KΩ)	R _{Max} (KΩ)	T(°C)	R _{Min} (KΩ)	R _{Nor} (KΩ)	R _{Max} (KΩ)
-40	207.7322	220.8889	234.6674	-1	28.0646	29.2447	30.4470
-39	195.8075	208.0846	220.9325	0	26.8485	27.9650	29.1017
-38	184.6550	196.1166	208.1022	1	25.6929	26.7494	27.8243
-37	174.2192	184.9244	196.1108	2	24.5942	25.5943	26.6110
-36	164.4494	174.4525	184.8976	3	23.5494	24.4962	25.4582
-35	155.2983	164.6495	174.4067	4	22.5555	23.4522	24.3625
-34	146.7226	155.4682	164.5869	5	21.6098	22.4591	23.3208
-33	138.6822	146.8649	155.3905	6	20.7096	21.5143	22.3301
-32	131.1401	138.7994	146.7738	7	19.8524	20.6150	21.3876
-31	124.0620	131.2344	138.6964	8	19.0360	19.7588	20.4907
-30	117.4164	124.1355	131.1210	9	18.2581	18.9435	19.6368
-29	111.1738	117.4708	124.0128	10	17.5168	18.1667	18.8238
-28	105.3072	111.2110	117.3401	11	16.8101	17.4266	18.0493
-27	99.7915	105.3288	111.0733	12	16.1362	16.7210	17.3114
-26	94.6032	99.7989	105.1851	13	15.4934	16.0483	16.6082
-25	89.7210	94.5978	99.6499	14	14.8801	15.4067	15.9377
-24	85.1246	89.7039	94.4445	15	14.2947	14.7946	15.2983
-23	80.7955	85.0971	89.5470	16	13.7359	14.2105	14.6884
-22	76.7164	80.7585	84.9371	17	13.2022	13.6529	14.1064
-21	72.8713	76.6710	80.5962	18	12.6924	13.1205	13.5509
-20	69.2452	72.8183	76.5068	19	12.2053	12.6120	13.0206
-19	65.8242	69.1854	72.6527	20	11.7398	12.1262	12.5141
-18	62.5955	65.7584	69.0189	21	11.2948	11.6620	12.0303
-17	59.5470	62.5243	65.5914	22	10.8692	11.2182	11.5681
-16	56.6675	59.4711	62.3571	23	10.4621	10.7940	11.1263
-15	53.9466	56.5874	59.3040	24	10.0727	10.3882	10.7039
-14	51.3745	53.8628	56.4208	25	9.7000	10.0000	10.3000
-13	48.9422	51.2875	53.6969	26	9.3362	9.6286	9.9212
-12	46.6411	48.8524	51.1225	27	8.9881	9.2731	9.5585
-11	44.4635	46.5491	48.6886	28	8.6549	8.9327	9.2111
-10	42.4019	44.3694	46.3865	29	8.3361	8.6068	8.8783
-9	40.4493	42.3062	44.2084	30	8.0307	8.2946	8.5594
-8	38.5995	40.3523	42.1468	31	7.7383	7.9955	8.2538
-7	36.8463	38.5014	40.1947	32	7.4582	7.7089	7.9609
-6	35.1840	36.7474	38.3456	33	7.1898	7.4342	7.6799
-5	33.6075	35.0846	36.5936	34	6.9325	7.1708	7.4105
-4	32.1118	33.5077	34.9328	35	6.6859	6.9182	7.1520
-3	30.6923	32.0118	33.3581	36	6.4495	6.6759	6.9040
-2	29.3445	30.5923	31.8643	37	6.2227	6.4434	6.6659
T(°C)	R _{Min} (KΩ)	R _{Nor} (KΩ)	R _{Max} (KΩ)	T(°C)	R _{Min} (KΩ)	R _{Nor} (KΩ)	R _{Max} (KΩ)

38	6.0051	6.2203	6.4374	82	1.5011	1.5764	1.6539
39	5.7963	6.0061	6.2179	83	1.4597	1.5333	1.6092
40	5.5960	5.8005	6.0072	84	1.4197	1.4917	1.5659
41	5.4036	5.6031	5.8047	85	1.3809	1.4513	1.5240
42	5.2189	5.4135	5.6102	86	1.3434	1.4123	1.4834
43	5.0416	5.2313	5.4232	87	1.3070	1.3745	1.4441
44	4.8712	5.0562	5.2435	88	1.2719	1.3379	1.4060
45	4.7075	4.8879	5.0707	89	1.2378	1.3024	1.3691
46	4.5501	4.7261	4.9046	90	1.2048	1.2680	1.3333
47	4.3989	4.5706	4.7447	91	1.1729	1.2347	1.2986
48	4.2535	4.4210	4.5909	92	1.1419	1.2024	1.2650
49	4.1137	4.2771	4.4430	93	1.1119	1.1711	1.2324
50	3.9792	4.1386	4.3005	94	1.0828	1.1408	1.2008
51	3.8498	4.0054	4.1634	95	1.0546	1.1114	1.1701
52	3.7253	3.8771	4.0314	96	1.0273	1.0829	1.1404
53	3.6055	3.7536	3.9043	97	1.0008	1.0552	1.1116
54	3.4902	3.6347	3.7818	98	0.9751	1.0284	1.0836
55	3.3791	3.5202	3.6638	99	0.9502	1.0024	1.0564
56	3.2722	3.4099	3.5501	100	0.9260	0.9771	1.0301
57	3.1692	3.3036	3.4406	101	0.9026	0.9526	1.0045
58	3.0699	3.2011	3.3349	102	0.8798	0.9288	0.9797
59	2.9743	3.1024	3.2331	103	0.8577	0.9058	0.9556
60	2.8822	3.0072	3.1349	104	0.8363	0.8834	0.9322
61	2.7933	2.9155	3.0402	105	0.8155	0.8616	0.9095
62	2.7077	2.8269	2.9488	106	0.7953	0.8405	0.8874
63	2.6251	2.7416	2.8606	107	0.7757	0.8200	0.8660
64	2.5455	2.6592	2.7755	108	0.7567	0.8001	0.8451
65	2.4687	2.5797	2.6934	109	0.7382	0.7807	0.8249
66	2.3945	2.5030	2.6141	110	0.7203	0.7619	0.8053
67	2.3230	2.4290	2.5375	111	0.7029	0.7437	0.7861
68	2.2540	2.3575	2.4636	112	0.6859	0.7259	0.7676
69	2.1873	2.2885	2.3922	113	0.6695	0.7087	0.7495
70	2.1230	2.2218	2.3232	114	0.6535	0.6919	0.7320
71	2.0609	2.1575	2.2565	115	0.6379	0.6756	0.7149
72	2.0009	2.0952	2.1921	116	0.6228	0.6598	0.6983
73	1.9429	2.0351	2.1298	117	0.6081	0.6444	0.6822
74	1.8869	1.9770	2.0696	118	0.5939	0.6294	0.6665
75	1.8328	1.9209	2.0114	119	0.5800	0.6148	0.6512
76	1.7805	1.8666	1.9552	120	0.5665	0.6007	0.6363
77	1.7299	1.8141	1.9007	121	0.5534	0.5869	0.6219
78	1.6810	1.7634	1.8481	122	0.5406	0.5735	0.6078
79	1.6338	1.7143	1.7971	123	0.5282	0.5604	0.5941
80	1.5881	1.6668	1.7478	124	0.5161	0.5477	0.5808
81	1.5439	1.6208	1.7001	125	0.5043	0.5354	0.5678