

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	敏感型负温度系数热敏电阻 SN NTC THERMISTOR
规格型号 TYPE SPECIFICATION	SNC473B ₂ 3950J0805E
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 PRODUCTION DIMENSION	3
3、检验规则 INSPECTION REGULATIONS	4
3.1 出厂检验 DELIVERY INSPECTION.....	4
3.2 型式检验 PATTERN INSPECTION	5
4、包装、贮存 PACKAGE &STORAGE	6
4.1 包装 PACKAGE	6
4.2 贮存 STORAGE	6
5、电阻－温度特性曲线 RESISTANCE-TEMPERATURE CHARACTERISTIC CURVE	7

1、规格型号 PART IDENTIFICATION

SN S 473 B₂ 3950 J 0805 E
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

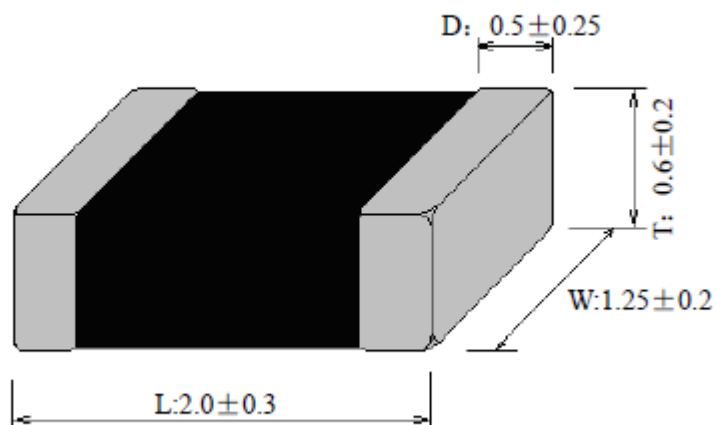
① 产品别 PART NUMBER ENTIFICATION	SN 指敏感型负温度系数热敏电阻；
	SN INDICATES SMD NTC THERMISTOR
② 系列别 DIMENSION (L×W×T) (MM)	C 指贴片；
	C IS FOR PATCH
③ 产品阻值 (25℃零功率电阻值) PRODUCTION RESISTANCE (ZERO POWER RESISTANCE AT 25℃)	473指47KΩ
	473 MEANS 47 KΩ
④ B 值代码 B-VALUE CODE	B ₂ 指 25/85
	B ₂ means 25/85
⑤ B 值数值 B-VALUE TOLERANCE	3950 指B 值为 3950K；
	B3950 INDICATE 3950K
⑥ 阻值误差 PACKAGING STYLE	J 指±5%；
	J INDICATES ±5%
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指环保产品。
	E IS FOR ENVIRONMENTALLY FRIENDLY PRODUCTS.

2、产品特性 PRODUCTION FEATURES

2.1 技术参数 TECHNICAL PARAMETER

规格型号 PART NO	额定零功率电阻值 ZERO POWER RESISTANCE AT 25°C R25(Ω)	B 值常数 B-CONSTANT 25/50°C(K)	耗散系数 DISSIPATION FACTOR (mw/°C)	热时间常数 (S) THERMAL TIME CONSTANT	额定功率 Max POWER RATING AT 25°C(mw)	工作温度范围 OPERATING TEMPERATURE RANGE (°C)
SNC473B ₂ 3950J0805E	47K	3950	≥3	≤5	300	-40 ~ 125

2.2 外形尺寸、材质 PRODUCTION DIMENSION、MATERIAL



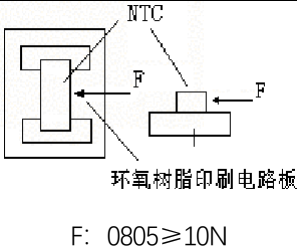
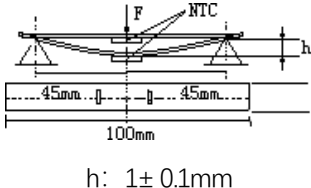
(单位UNIT: MM)

3、检验规则 INSPECTION REGULATIONS

3.1 出厂检验 DELIVERY INSPECTION

序号 SEQUENCE	检验项目 ITEMS	检验方法 METHOD	性能要求 PERFORMANCE REQUIREMENTS
(1)	R ₂₅	将待测品置于 25℃高精度油槽内稳定后测量 IMMERSE SAMPLES IN A 50°C HIGH-PRECISION OIL TANK AND MEASURE IT	47KQ±5%
(2)	B _{25/50}	将待测品置于 25℃、85℃高精度油槽内稳定后测量 IMMERSE SAMPLES IN A 25°C,85°C HIGH-PRECISION OIL TANK AND MEASURE IT HIGH PRECISION OIL TANK	3950K±3%
(3)	外观 APPEARANCE	在20X的显微镜下目测检查 VISUAL EXAMINATION 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 PRODUCT CONFORMS TO THE SHAPE REQUIREMENTS OF 2.2,WITHOUT CORROSION,FLOW HANGING,FRAGMENTATION,EDGE BREAKAGE,ETC
(4)	尺寸 DIMENSION	用精度不小于 0.01MM 的卡尺测量 MEASURE WITH CALIPER WITH AN ACCURACY OF 0.01MM	符合图 2.2 的外形尺寸 MEETS THE SHAPE REQUIREMENTS OF THE DRAWING 2.2
(5)	可焊性 WELDABILITY	焊接温度WELDING TEMPERATURE: 245±5°C; 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°C; 浸入时间IMMERSION TIME: 10±1s	无外观损伤NO APPARENT DAMAGE △R25/ R25 ≤5%

3.2 型式检验PATTERN INSPECTION

序号 SEQUENCE	检验项目 ITEMS	检验标准 STANDARD	检验方法 INSPECTION METHOD	性能要求 PERFORMANCE REQUIREMENTS
(1)	端头强度	IEC68-2-21	 环氧树脂印刷电路板 F: 0805 ≥ 10N	无外观损伤 NO COSMETIC DAMAGE
(2)	抗弯强度	IEC68-2-21	 h: 1 ± 0.1mm	无外观损伤 NO COSMETIC DAMAGE $\Delta R_{25}/R_{25}$ ≤ 3%
(3)	跌落	IEC68-2-32	跌落高度DROP HEIGHT: 1.0±0.1m 跌落次数DROP TIMES: 1 跌落面FALLING 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	IEC68-2-2/ IEC68-2-3 /CNS5550	温度TEMPERATURE: 40±2℃ 湿度HUMIDITY: 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%

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 PART QUANTITY
(1)	编带 BRAID	0805 纸带, 标准带轮 0805 PAPER TAPE, STANDARD TAPE WHEEL	4000pcs
(2)	内包装盒 INNER BOX	纸箱 CARTON, L×W×H=185mm×70mm×190mm	
(3)	外包装箱 PACKAGING	纸箱 CARTON, L×W×H=370mm×205mm×215mm	

4.2 贮存 STORAGE

产品密封保存, 存放产品的仓库环境温度 -10℃ ~ +40℃、相对湿度不大于 70%, 仓库内不允许有各种有害气体、易爆的产品及有腐蚀性的化学物品, 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

6、电阻 – 温度特性表 RESISTANCE-TEMPERATURE CHARACTERISTIC TABLE

 $R_{25} = 47K\Omega \pm 5\%$
 $B_{25/85} = 3950 \pm 3\%$

T(°C)	R _{Low} (KΩ)	R _{Center} (KΩ)	R _{High} (KΩ)	T(°C)	R _{Low} (KΩ)	R _{Center} (KΩ)	R _{High} (KΩ)
-40	1433.9523	1680.3916	1964.2609	1	134.2819	146.2459	158.8775
-39	1340.9262	1568.1216	1829.2265	2	127.8043	138.9784	150.7516
-38	1254.6159	1464.1717	1704.4573	3	121.6798	132.1176	143.0922
-37	1174.4903	1367.8681	1589.1025	4	115.8871	125.6383	135.8696
-36	1100.0638	1278.5960	1482.3874	5	110.4063	119.5172	129.0564
-35	1030.8922	1195.7941	1383.6060	6	105.2188	113.7322	122.6271
-34	966.5685	1118.9493	1292.1148	7	100.3072	108.2630	116.5576
-33	906.7203	1047.5929	1207.3264	8	95.6551	103.0904	110.8259
-32	851.0058	981.2958	1128.7047	9	91.2475	98.1968	105.4111
-31	799.1117	919.6654	1055.7597	10	87.0699	93.5653	100.2939
-30	750.7504	862.3418	988.0437	11	83.1091	89.1805	95.4563
-29	705.6579	808.9954	925.1471	12	79.3525	85.0278	90.8813
-28	663.5915	759.3239	866.6949	13	75.7886	81.0936	86.5531
-27	624.3279	713.0497	812.3436	14	72.4062	77.3652	82.4572
-26	587.6621	669.9182	761.7786	15	69.1952	73.8306	78.5796
-25	553.4049	629.6952	714.7113	16	66.1458	70.4786	74.9075
-24	521.3824	592.1656	670.8769	17	63.2490	67.2988	71.4289
-23	491.4343	557.1314	630.0322	18	60.4963	64.2814	68.1324
-22	463.4126	524.4106	591.9540	19	57.8798	61.4171	65.0076
-21	437.1810	493.8354	556.4371	20	55.3919	58.6974	62.0445
-20	412.6136	465.2513	523.2926	21	53.0257	56.1141	59.2339
-19	389.5940	438.5159	492.3469	22	50.7744	53.6596	56.5670
-18	368.0149	413.4976	463.4401	23	48.6318	51.3268	54.0358
-17	347.7769	390.0754	436.4248	24	46.5922	49.1091	51.6325
-16	328.7881	368.1373	411.1653	25	44.6500	47.0000	49.3500
-15	310.9635	347.5797	387.5364	26	42.6881	44.9937	47.3053
-14	294.2243	328.3073	365.4225	27	40.8237	43.0846	45.3570
-13	278.4978	310.2314	344.7170	28	39.0514	41.2675	43.5003
-12	263.7162	293.2704	325.3214	29	37.3662	39.5374	41.7301
-11	249.8168	277.3486	307.1447	30	35.7633	37.8897	40.0422
-10	236.7416	262.3957	290.1027	31	34.2382	36.3200	38.4321
-9	224.4365	248.3469	274.1176	32	32.7868	34.8243	36.8959
-8	212.8515	235.1419	259.1173	33	31.4051	33.3985	35.4297
-7	201.9400	222.7249	245.0350	34	30.0894	32.0392	34.0301
-6	191.6586	211.0440	231.8091	35	28.8361	30.7429	32.6937
-5	181.9672	200.0510	219.3822	36	27.6421	29.5062	31.4172
-4	172.8283	189.7013	207.7011	37	26.5041	28.3261	30.1977

-3	164.2070	179.9534	196.7167	38	25.4193	27.1998	29.0323
-2	156.0710	170.7685	186.3831	39	24.3849	26.1245	27.9183
-1	148.3899	162.1109	176.6578	40	23.3983	25.0977	26.8533
0	141.1357	153.9470	167.5016	41	22.4569	24.1168	25.8347

T(°C)	R _{Low} (KΩ)	R _{Center} (KΩ)	R _{High} (KΩ)	T(°C)	R _{Low} (KΩ)	R _{Center} (KΩ)	R _{High} (KΩ)
42	21.5586	23.1797	24.8603	84	4.6888	5.2704	5.9094
43	20.7012	22.2841	23.9280	85	4.5394	5.1074	5.7319
44	19.8825	21.4279	23.0358	86	4.3955	4.9501	5.5607
45	19.1006	20.6093	22.1817	87	4.2569	4.7984	5.3953
46	18.3536	19.8264	21.3638	88	4.1232	4.6521	5.2356
47	17.6399	19.0775	20.5806	89	3.9944	4.5109	5.0814
48	16.9578	18.3608	19.8302	90	3.8702	4.3747	4.9325
49	16.3057	17.6749	19.1113	91	3.7504	4.2432	4.7887
50	15.6821	17.0183	18.4222	92	3.6350	4.1163	4.6497
51	15.0857	16.3896	17.7616	93	3.5236	3.9937	4.5153
52	14.5151	15.7874	17.1283	94	3.4161	3.8754	4.3855
53	13.9691	15.2105	16.5209	95	3.3124	3.7612	4.2600
54	13.4466	14.6578	15.9382	96	3.2123	3.6508	4.1387
55	12.9463	14.1280	15.3791	97	3.1157	3.5442	4.0214
56	12.4672	13.6202	14.8426	98	3.0225	3.4411	3.9080
57	12.0083	13.1332	14.3275	99	2.9325	3.3416	3.7983
58	11.5687	12.6662	13.8331	100	2.8455	3.2454	3.6921
59	11.1475	12.2182	13.3582	101	2.7615	3.1523	3.5894
60	10.7438	11.7884	12.9022	102	2.6804	3.0624	3.4901
61	10.3568	11.3759	12.4640	103	2.6021	2.9754	3.3939
62	9.9857	10.9799	12.0429	104	2.5263	2.8913	3.3008
63	9.6298	10.5998	11.6383	105	2.4532	2.8100	3.2107
64	9.2883	10.2347	11.2493	106	2.3824	2.7313	3.1234
65	8.9608	9.8841	10.8753	107	2.3140	2.6552	3.0389
66	8.6464	9.5472	10.5156	108	2.2479	2.5815	2.9571
67	8.3446	9.2236	10.1696	109	2.1840	2.5102	2.8778
68	8.0549	8.9125	9.8367	110	2.1222	2.4411	2.8010
69	7.7767	8.6135	9.5165	111	2.0623	2.3743	2.7266
70	7.5095	8.3260	9.2082	112	2.0045	2.3096	2.6545
71	7.2528	8.0495	8.9115	113	1.9485	2.2469	2.5846
72	7.0061	7.7836	8.6258	114	1.8943	2.1862	2.5169
73	6.7691	7.5278	8.3506	115	1.8419	2.1275	2.4512
74	6.5412	7.2816	8.0856	116	1.7911	2.0705	2.3875
75	6.3221	7.0448	7.8304	117	1.7420	2.0153	2.3258
76	6.1115	6.8167	7.5844	118	1.6944	1.9619	2.2659
77	5.9088	6.5972	7.3474	119	1.6483	1.9100	2.2078
78	5.7139	6.3858	7.1189	120	1.6037	1.8598	2.1515



YUYUE

www.sz-yyue.com

79	5.5264	6.1822	6.8986	121	1.5604	1.8111	2.0968
80	5.3459	5.9861	6.6863	122	1.5185	1.7639	2.0438
81	5.1722	5.7972	6.4814	123	1.4780	1.7181	1.9923
82	5.0049	5.6151	6.2839	124	1.4386	1.6737	1.9423
83	4.8439	5.4396	6.0933	125	1.4005	1.6306	1.8938