

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	SNC154B ₁ 4200J0603E
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

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1、规格型号 PART IDENTIFICATION

SN C 154 B1 4200 J 0603 E
 ① ② ③ ④ ④ ⑥ ⑦ ⑧

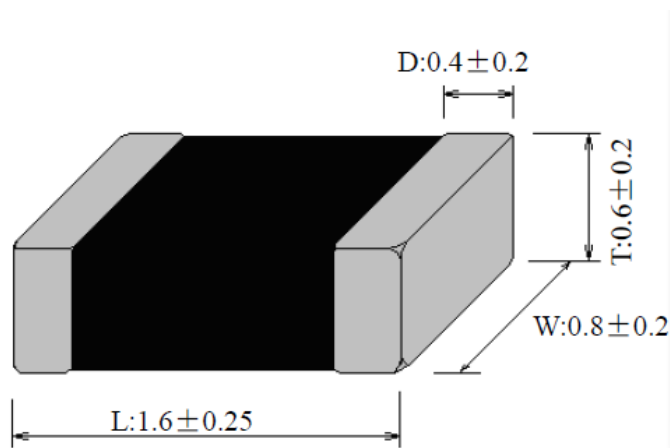
① 产品类别 PART NUMBER ENTIFICATION	SN指敏感型负温度系数热敏电阻
	SN INDICATES SMD NTC THERMISTOR
② 系列类别 SERIES CATEGORY	C指贴片
	C REFERS TO THE PATCH
③ 产品阻值（25°C零功率电阻值） PRODUCT RESISTANCE (25°C ZERO POWER RESISTANCE)	154指150KΩ
	154 MEANS 150 KΩ
④ B 值代码 B-VALUE CODE	B1指 25/50
	B1 MEANS 25/50
⑤ B 值数值 B-VALUE TOLERANCE	4200指B值为4200k
	4200 MEANS THE B VALUE IS 4200K
⑥ 阻值误差 PACKAGING STYLE	J指±5%
	J REFERS TO ±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)
SNC154B;4200J0603E	150K	4200	≥ 2	≤ 3	200	-40~125

2.2 外形尺寸 PRODUCTION DIMENSION



(单位UNIT: MM)

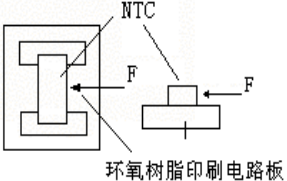
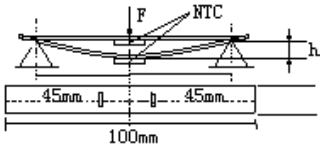
3、检验规则 INSPECTION REGULATIONS

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	150KΩ±5%
(2)	B _{25/50}	将待测品置于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	4200K±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\%$
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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 $\Delta R_{25} / R_{25}$ ≤ 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	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

 $R_{25}=150K\Omega\pm 5\%$
 $B_{25/50}=4200\pm 3\%$

T(°C)	R _{Min} (KΩ)	R _{Nor} (KΩ)	R _{Max} (KΩ)	T(°C)	R _{Min} (KΩ)	R _{Nor} (KΩ)	R _{Max} (KΩ)
-40	5926.4282	7000.6910	8249.0075	-1	517.4502	566.8475	619.4079
-39	5513.9644	6498.9456	7640.7282	0	490.3271	536.2414	584.9890
-38	5133.2136	6036.8059	7081.7076	1	464.7971	507.4809	552.6992
-37	4781.5194	5610.8738	6567.6194	2	440.7573	480.4437	522.3942
-36	4456.4655	5218.0651	6094.5457	3	418.1118	455.0163	493.9401
-35	4155.8520	4855.5783	5658.9356	4	396.7715	431.0933	467.2131
-34	3877.6753	4520.8672	5257.5688	5	376.6534	408.5769	442.0980
-33	3620.1088	4211.6158	4887.5224	6	357.6804	387.3761	418.4883
-32	3381.4864	3925.7159	4546.1420	7	339.7806	367.4063	396.2849
-31	3160.2875	3661.2478	4231.0149	8	322.8870	348.5889	375.3959
-30	2955.1232	3416.4616	3939.9472	9	306.9372	330.8507	355.7358
-29	2764.7241	3189.7615	3670.9419	10	291.8729	314.1235	337.2252
-28	2587.9296	2979.6912	3422.1808	11	277.6400	298.3440	319.7903
-27	2423.6775	2784.9209	3192.0068	12	264.1878	283.4528	303.3624
-26	2270.9951	2604.2356	2978.9090	13	251.4688	269.3950	287.8775
-25	2128.9916	2436.5242	2781.5086	14	239.4391	256.1191	273.2762
-24	1996.8500	2280.7703	2598.5469	15	228.0573	243.5772	259.5030
-23	1873.8212	2136.0436	2428.8739	16	217.2848	231.7246	246.5062
-22	1759.2175	2001.4917	2271.4385	17	207.0856	220.5195	234.2378
-21	1652.4073	1876.3336	2125.2789	18	197.4259	209.9228	222.6527
-20	1552.8104	1759.8529	1989.5150	19	188.2741	199.8981	211.7090
-19	1459.8932	1651.3923	1863.3409	20	179.6008	190.4113	201.3678
-18	1373.1650	1550.3482	1746.0179	21	171.3782	181.4306	191.5924
-17	1292.1740	1456.1663	1636.8688	22	163.5803	172.9261	182.3488
-16	1216.5043	1368.3371	1535.2724	23	156.1830	164.8700	173.6050
-15	1145.7724	1286.3917	1440.6583	24	149.1633	157.2361	165.3314
-14	1079.6251	1209.8989	1352.5027	25	142.5000	150.0000	157.5000
-13	1017.7363	1138.4618	1270.3242	26	135.7910	143.1388	150.5070
-12	959.8051	1071.7144	1193.6803	27	129.4364	136.6310	143.8649
-11	905.5538	1009.3198	1122.1637	28	123.4157	130.4565	137.5541
-10	854.7257	950.9669	1055.3996	29	117.7095	124.5964	131.5565
-9	807.0836	896.3689	993.0428	30	112.2995	119.0329	125.8546
-8	762.4081	845.2611	934.7752	31	107.1690	113.7496	120.4324
-7	720.4963	797.3990	880.3036	32	102.3019	108.7307	115.2746
-6	681.1601	752.5564	829.3575	33	97.6832	103.9616	110.3669
-5	644.2256	710.5244	781.6871	34	93.2991	99.4286	105.6958
-4	609.5316	671.1099	737.0620	35	89.1362	95.1186	101.2487
-3	576.9284	634.1340	695.2692	36	85.1824	91.0196	97.0137
-2	546.2775	599.4309	656.1119	37	81.4260	87.1201	92.9794
T(°C)	R _{Min} (KΩ)	R _{Nor} (KΩ)	R _{Max} (KΩ)	T(°C)	R _{Min} (KΩ)	R _{Nor} (KΩ)	R _{Max} (KΩ)
38	77.8560	83.4094	89.1354	82	13.6385	15.3717	17.2820

39	74.4623	79.8772	85.4717	83	13.1690	14.8578	16.7212
40	71.2352	76.5141	81.9788	84	12.7180	14.3635	16.1814
41	68.1658	73.3112	78.6479	85	12.2846	13.8881	15.6615
42	65.2453	70.2599	75.4707	86	11.8681	13.4306	15.1609
43	62.4660	67.3522	72.4392	87	11.4676	12.9904	14.6786
44	59.8201	64.5808	69.5460	88	11.0825	12.5667	14.2140
45	57.3007	61.9384	66.7841	89	10.7122	12.1588	13.7663
46	54.9010	59.4185	64.1469	90	10.3560	11.7661	13.3348
47	52.6147	57.0146	61.6281	91	10.0133	11.3879	12.9188
48	50.4359	54.7210	59.2218	92	9.6836	11.0236	12.5178
49	48.3590	52.5319	56.9223	93	9.3662	10.6727	12.1311
50	46.3786	50.4421	54.7245	94	9.0607	10.3346	11.7581
51	44.4899	48.4466	52.6232	95	8.7666	10.0088	11.3983
52	42.6882	46.5406	50.6138	96	8.4834	9.6947	11.0512
53	40.9689	44.7196	48.6918	97	8.2107	9.3920	10.7163
54	39.3279	42.9796	46.8529	98	7.9480	9.1001	10.3931
55	37.7612	41.3163	45.0931	99	7.6949	8.8186	10.0811
56	36.2652	39.7262	43.4087	100	7.4510	8.5471	9.7799
57	34.8362	38.2056	41.7960	101	7.2159	8.2851	9.4891
58	33.4710	36.7510	40.2516	102	6.9893	8.0325	9.2082
59	32.1663	35.3594	38.7724	103	6.7709	7.7886	8.9369
60	30.9193	34.0278	37.3551	104	6.5602	7.5533	8.6749
61	29.7270	32.7531	35.9970	105	6.3571	7.3261	8.4217
62	28.5868	31.5327	34.6953	106	6.1612	7.1068	8.1770
63	27.4961	30.3641	33.4473	107	5.9722	6.8950	7.9406
64	26.4527	29.2447	32.2506	108	5.7898	6.6905	7.7120
65	25.4541	28.1723	31.1028	109	5.6138	6.4930	7.4910
66	24.4983	27.1446	30.0017	110	5.4439	6.3021	7.2774
67	23.5832	26.1597	28.9451	111	5.2799	6.1177	7.0707
68	22.7069	25.2154	27.9311	112	5.1216	5.9396	6.8709
69	21.8675	24.3100	26.9578	113	4.9688	5.7674	6.6776
70	21.0634	23.4417	26.0232	114	4.8211	5.6009	6.4906
71	20.2929	22.6087	25.1257	115	4.6785	5.4400	6.3096
72	19.5544	21.8094	24.2637	116	4.5407	5.2844	6.1345
73	18.8464	21.0424	23.4355	117	4.4076	5.1339	5.9649
74	18.1675	20.3061	22.6396	118	4.2790	4.9884	5.8008
75	17.5165	19.5992	21.8748	119	4.1546	4.8476	5.6420
76	16.8919	18.9204	21.1395	120	4.0344	4.7114	5.4881
77	16.2927	18.2685	20.4326	121	3.9182	4.5796	5.3392
78	15.7177	17.6422	19.7528	122	3.8059	4.4520	5.1949
79	15.1658	17.0404	19.0989	123	3.6972	4.3286	5.0551
80	14.6359	16.4621	18.4698	124	3.5922	4.2091	4.9197
81	14.1271	15.9062	17.8645	125	3.4905	4.0934	4.7884