

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	SNC154B14600J0603EY
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]

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1、规格型号 PART IDENTIFICATION

SN C 154 B₁ 4600 J 0603 E Y
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

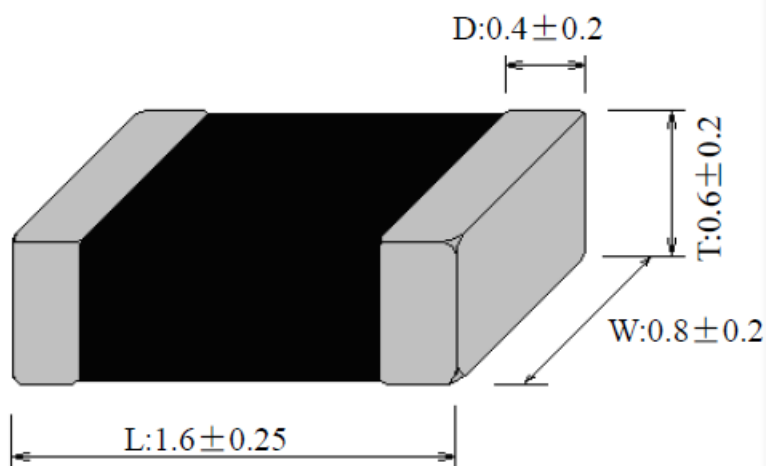
① 产品类别 PART NUMBER ENTIFICATION	SN指敏感型负温度系数热敏电阻;
	SN INDICATES SMD NTC THERMISTOR
② 系列类别 SERIES CLASS	C指贴片;
	C REFERS TO THE PATCH;
③ 产品阻值 (25°C零功率电阻值) PRODUCT RESISTANCE (25°C ZERO POWER RESISTANCE)	154指150KΩ;
	154 MEANS 150 KΩ
④ B值代码 B-VALUE CODE	B1指25/50
	B1 MEANS 25/50
⑤ B值数值 B-VALUE	4600指B值为4600K;
	4600 MEANS THE B VALUE IS 4600K;
⑥ 阻值误差 RESISTANCE ERROR	J指±5%;
	J REFERS TO ±5%;
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 PRODUCT	E表示环保产品;
	E STANDS FOR ENVIRONMENTALLY FRIENDLY PRODUCTS;
⑨ 特殊定义 SPECIAL DEFINITION	Y表示产品阻值误差±5%, B值误差±5%。
	Y INDICATES THE PRODUCT RESISTANCE ERROR OF ±5%, AND B VALUE ERROR OF ±5%.

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;4600J0603EY	150K	4600	≥ 2	≤ 3	200	-40~125

2.2 外形尺寸PRODUCTION DIMENSION



(单位UNIT: MM)

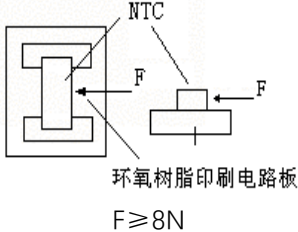
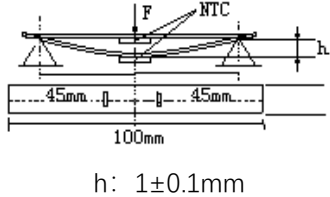
3、检验规则 INSPECTION REGULATIONS

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℃精度油槽内稳 定后测量 THE PRODUCT TO BE TESTED IS PLACED IN A 25℃, 50℃ PRECISION OIL TANK AND THEN MEASURED	4600K±5%
(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0.01mm游标卡尺测量 MEASURE WITH A VERNIER CALIPER WITH ACCURACY OF 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 NO APPEARANCE DAMAGE $ \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	 环氧树脂印刷电路板 F ≥ 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°C, +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 STORAGE	IEC68-2-1	温度 TEMPERATURE: -40±2°C 时间 TIME: 1000±24h	无外观损伤 NO COSMETIC DAMAGE $\Delta R_{25}/R_{25}$ ≤ 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

 $R_{25}=150K\Omega\pm5\%$
 $B_{25/50}=4600K\pm5\%$

T(°C)	R _{Min} (KΩ)	R _{Nor} (KΩ)	R _{Max} (KΩ)	T(°C)	R _{Min} (KΩ)	R _{Nor} (KΩ)	R _{Max} (KΩ)
-40	7829.3924	10176.0406	13192.9680	-1	569.1174	644.3625	727.7320
-39	7244.7258	9377.7515	12108.4455	0	537.1323	606.2999	682.6633
-38	6707.9645	8647.8468	11120.8535	1	507.1470	570.7251	640.6681
-37	6214.8546	7980.0011	10220.8693	2	479.0244	537.4608	601.5184
-36	5761.5478	7368.5155	9400.1274	3	452.6379	506.3432	565.0046
-35	5344.5602	6808.2515	8651.1154	4	427.8699	477.2210	530.9337
-34	4960.7355	6294.5721	7967.0815	5	404.6116	449.9545	499.1278
-33	4607.2119	5823.2903	7341.9529	6	382.7621	424.4146	469.4232
-32	4281.3932	5390.6221	6770.2635	7	362.2278	400.4818	441.6687
-31	3980.9223	4993.1457	6247.0890	8	342.9219	378.0456	415.7250
-30	3703.6576	4627.7643	5767.9903	9	324.7636	357.0038	391.4634
-29	3447.6524	4291.6731	5328.9629	10	307.6781	337.2615	368.7651
-28	3211.1352	3982.3304	4926.3911	11	291.5958	318.7311	347.5204
-27	2992.4938	3697.4311	4557.0085	12	276.4521	301.3311	327.6279
-26	2790.2592	3434.8833	4217.8615	13	262.1867	284.9861	308.9937
-25	2603.0926	3192.7870	3906.2783	14	248.7437	269.6261	291.5310
-24	2429.7726	2969.4158	3619.8394	15	236.0709	255.1862	275.1597
-23	2269.1846	2763.1997	3356.3530	16	224.1199	241.6060	259.8052
-22	2120.3106	2572.7102	3113.8318	17	212.8454	228.8294	245.3986
-21	1982.2203	2396.6464	2890.4728	18	202.2054	216.8044	231.8762
-20	1854.0631	2233.8231	2684.6393	19	192.1605	205.4824	219.1786
-19	1735.0605	2083.1597	2494.8443	20	182.6742	194.8186	207.2510
-18	1624.5000	1943.6706	2319.7359	21	173.7121	184.7709	196.0424
-17	1521.7288	1814.4559	2158.0846	22	165.2425	175.3003	185.5054
-16	1426.1487	1694.6936	2008.7712	23	157.2355	166.3705	175.5961
-15	1337.2108	1583.6326	1870.7764	24	149.6634	157.9476	166.2736
-14	1254.4117	1480.5859	1743.1711	25	142.5000	150.0000	157.5000
-13	1177.2890	1384.9249	1625.1082	26	135.0266	142.4983	150.0075
-12	1105.4180	1296.0742	1515.8146	27	127.9880	135.4150	142.9148
-11	1038.4083	1213.5064	1414.5845	28	121.3566	128.7245	136.1984
-10	975.9007	1136.7383	1320.7732	29	115.1067	122.4030	129.8363
-9	917.5649	1065.3265	1233.7911	30	109.2142	116.4279	123.8078
-8	863.0966	998.8645	1153.0991	31	103.6567	110.7786	118.0937
-7	812.2157	936.9786	1078.2039	32	98.4135	105.4354	112.6759
-6	764.6637	879.3258	1008.6536	33	93.4650	100.3801	107.5373
-5	720.2027	825.5907	944.0343	34	88.7931	95.5957	102.6622
-4	678.6128	775.4833	883.9666	35	84.3809	91.0662	98.0355
-3	639.6911	728.7367	828.1022	36	80.2126	86.7768	93.6434
-2	603.2503	685.1052	776.1218	37	76.2734	82.7133	89.4726
T(°C)	R _{Min} (KΩ)	R _{Nor} (KΩ)	R _{Max} (KΩ)	T(°C)	R _{Min} (KΩ)	R _{Nor} (KΩ)	R _{Max} (KΩ)
38	72.5494	78.8626	85.5109	82	10.3941	12.3939	14.7415

39	69.0279	75.2126	81.7467	83	9.9963	11.9418	14.2301
40	65.6966	71.7517	78.1690	84	9.6156	11.5082	13.7389
41	62.5445	68.4692	74.7677	85	9.2513	11.0926	13.2670
42	59.5608	65.3548	71.5332	86	8.9025	10.6939	12.8136
43	56.7357	62.3992	68.4563	87	8.5685	10.3114	12.3779
44	54.0600	59.5933	65.5287	88	8.2486	9.9445	11.9590
45	51.5250	56.9289	62.7422	89	7.9422	9.5923	11.5564
46	49.1226	54.3980	60.0894	90	7.6486	9.2543	11.1692
47	46.8451	51.9934	57.5631	91	7.3672	8.9298	10.7968
48	44.6855	49.7080	55.1567	92	7.0975	8.6182	10.4385
49	42.6369	47.5353	52.8639	93	6.8389	8.3189	10.0939
50	40.6932	45.4692	50.6787	94	6.5910	8.0314	9.7622
51	38.8485	43.5039	48.5955	95	6.3532	7.7552	9.4430
52	37.0972	41.6341	46.6091	96	6.1251	7.4898	9.1357
53	35.4340	39.8545	44.7144	97	5.9062	7.2347	8.8398
54	33.8542	38.1604	42.9068	98	5.6962	6.9895	8.5549
55	32.3531	36.5473	41.1819	99	5.4946	6.7537	8.2805
56	30.9265	35.0108	39.5353	100	5.3011	6.5269	8.0162
57	29.5702	33.5469	37.9633	101	5.1152	6.3088	7.7615
58	28.2804	32.1519	36.4620	102	4.9367	6.0990	7.5160
59	27.0536	30.8222	35.0279	103	4.7653	5.8971	7.2795
60	25.8864	29.5543	33.6577	104	4.6006	5.7028	7.0515
61	24.7755	28.3452	32.3481	105	4.4423	5.5158	6.8316
62	23.7180	27.1918	31.0963	106	4.2902	5.3358	6.6196
63	22.7111	26.0912	29.8994	107	4.1440	5.1624	6.4151
64	21.7520	25.0408	28.7548	108	4.0034	4.9955	6.2179
65	20.8384	24.0381	27.6598	109	3.8682	4.8347	6.0276
66	19.9677	23.0806	26.6121	110	3.7382	4.6798	5.8440
67	19.1379	22.1661	25.6094	111	3.6131	4.5306	5.6668
68	18.3467	21.2925	24.6496	112	3.4928	4.3867	5.4958
69	17.5922	20.4577	23.7306	113	3.3770	4.2481	5.3306
70	16.8725	19.6599	22.8505	114	3.2655	4.1145	5.1712
71	16.1858	18.8971	22.0075	115	3.1582	3.9856	5.0173
72	15.5305	18.1678	21.1998	116	3.0549	3.8614	4.8686
73	14.9050	17.4702	20.4257	117	2.9555	3.7416	4.7249
74	14.3078	16.8029	19.6838	118	2.8597	3.6260	4.5862
75	13.7375	16.1644	18.9726	119	2.7674	3.5145	4.4521
76	13.1927	15.5533	18.2905	120	2.6785	3.4069	4.3225
77	12.6722	14.9683	17.6364	121	2.5929	3.3030	4.1972
78	12.1748	14.4082	17.0088	122	2.5103	3.2028	4.0761
79	11.6993	13.8718	16.4067	123	2.4307	3.1061	3.9591
80	11.2447	13.3580	15.8288	124	2.3540	3.0126	3.8459
81	10.8100	12.8657	15.2741	125	2.2801	2.9224	3.7364