

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 SMD NTC THERMISTOR
规 格 型 号 TYPE SPECIFICATION	CN0603R103B3435FT
承认书版本号 APPROVAL SHEET VERSION	4.0
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		

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1、规格型号 PART IDENTIFICATION

CN	0603	R103	B3435	F	T
①	②	③	④	⑤	⑥

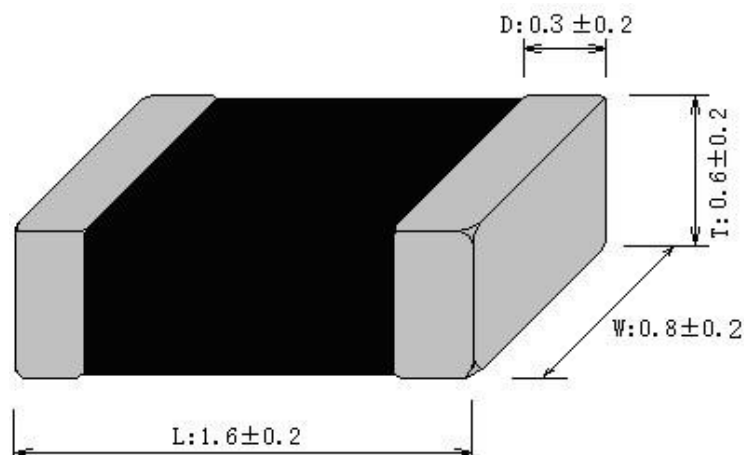
① 产品系列 PRODUCT FAMILY	CN 指贴片型负温度系数热敏电阻;
	CN REFERS TO SMD TYPE NEGATIVE TEMPERATURE COEFFICIENT THERMISTORS
② 产品尺寸 PRODUCT SIZE	0603 指 2.2 图所示尺寸;
	0603 REFERS TO THE SIZE SHOWN IN FIGURE 2.2
③ 产品阻值 (25°C 零功率电阻值) PRODUCTION RESISTANCE (ZERO POWER RESISTANCE AT 25°C)	R103 指 10KΩ;
	R103 STANDS FOR 10 KΩ
④ B 值数值 B-VALUE TOLERANCE	3435 指 B 值为 3435K;
	B3435 MEANS THAT THE B VALUE IS 3435K
⑤ 阻值误差 RESISTANCE ERROR	F 指 ±1%;
	F INDICATES ±1%
⑥ 包装方式 PACKAGING METHOD	T 指编带;
	T REFERS TO TAPING

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 $R_{25}(\Omega)$	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)
CN0603R103B3435FT	10K	3435	≥ 2	≤ 3	200	-40 ~ 125

2.2 外形尺寸 PRODUCTION DIMENSION



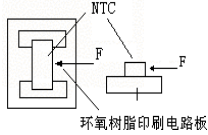
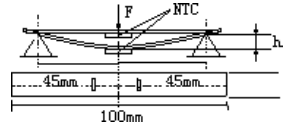
DRAWING 2.2 单位 (unit): mm

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	检测水平 INSPECTI ON LEVEL	AQL
(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 25℃ HIGH-PRECISION OIL TANK AND MEASURE IT	10KΩ±1%	II	0.15
(2)	B _{25/50}	将待测品置于 25℃、50℃高精度油槽内稳定后测量 IMMERSE SAMPLES IN A 25℃,50℃ HIGH-PRECISION OIL TANK AND MEASURE IT HIGH PRECISION OIL TANK	3435K±1%	II	1.0
(3)	外观 APPEARANCE	在 20X 的显微镜下目测检查 VISUAL INSPECTION UNDER A 20X MICROSCOPE	符合图 2.2 的外形要求, 无腐蚀、流挂、断片、崩边、崩角等 MEETS THE SHAPE REQUIREMENTS OF THE DRAWING 2.2, WITHOUT CORROSION, SAGGING, FRAGMENTATION, CHIPPING, ETC.	II	0.65
(4)	尺寸 DIMENSION	用精度不小于 0.01MM 的卡尺测量 MEASURE WITH CALIPER WITH AN ACCURACY OF NOT LESS THAN 0.01MM	符合图 2.2 的外形尺寸 MEETS THE SHAPE REQUIREMENTS OF THE DRAWING 2.2	II	1.0
(5)	可焊性 SOLDERABILITY	焊接温度 SOLDERING TEMPERATURE: 260±5℃; DIPPING TIME 浸入时间:3±1S	着锡面积≥95% AT LEAST 95% OF TERMINAL ELECTRODE IS COVERED BY NEW SOLDER	S-2	0.65
(6)	耐焊性 RESISTANCE TO SOLDERING HEAT	焊接温度 SOLDERING TEMPERATURE: 280±10℃; DIPPING TIME 浸入时间:10±1S	无外观损伤 NO VISIBLE DAMAGE ΔR ₂₅ /R ₂₅ ≤5%	S-2	0.65

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 TERMINAL STRENGTH	IEC68-2-21	 $F \geq 8N$	无外观损伤 NO COSMETIC DAMAGE
(2)	抗弯强度 FLEXTURE 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 DROP	IEC68-2-32	跌落高度 HEIGHT OF DROP: $1.0 \pm 0.1M$; 跌落次数 NUMBER OF DROPS: 1 跌落面 DROP SURFACE: 水泥地面: CONCRETE FLOOR	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 MOIST HEAT LOAD	IEC68-2-2/ IEC68-2-3 /CNS5550	温度 TEMPERATURE: $40 \pm 2^\circ C$; 湿度 HUMIDITY: $90 \sim 95\%RH$; 时间 TIME: $500 \pm 12H$; 工作电流 OPERATING CURRENT	无外观损伤 NO COSMETIC DAMAGE $ \Delta R_{25}/R_{25} \leq 5\%$ $ \Delta B/B \leq 2\%$
(5)	高温负载 HIGH TEMPERATURE STORAGE	IEC68-2-2/ CNS5550	温度: $125 \pm 2^\circ C$; 时间: $1000 \pm 24H$; 工作电流 OPERATING CURRENT	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 RAPID CHANGE OF TEMPERATURE	IEC68-2-14	温度 TEMPERATURE: $-40^\circ C, +125^\circ C$; 周期 CYCLE: 100, 30MIN/CYCLE	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 STORAGE	IEC68-2-1	温度 TEMPERATURE: $-40 \pm 2^{\circ}\text{C}$; 时间 TIME: 1000 ± 24 H	无外观损伤 NO COSMETIC DAMAGE $ \Delta R_{25}/R_{25} \leq 2\%$ $ \Delta B/B \leq 2\%$
(8)	耐久性 ENDURANCE	UL1434	环境温度 ENVIRONMENTAL TEMPERATURE: $25 \pm 2^{\circ}\text{C}$; 工作电流 OPERATING CURRENT 周期 CYCLE: 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 PART QUANTITY
(1)	编带 TAPING	0603 纸带, 标准带轮 0603 PAPER TAPE, STANDARD TAPE WHEEL	
(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.

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

 $R_{25} = 10K\Omega \pm 1\%$
 $B_{25/50} = 3435K \pm 1\%$

T(°C)	R _{Min} (KΩ)	R _{Nor} (KΩ)	R _{Max} (KΩ)	T(°C)	R _{Min} (KΩ)	R _{Nor} (KΩ)	R _{Max} (KΩ)
-40	218.9971	228.2376	237.8441	-1	28.9630	29.5745	30.1959
-39	206.2948	214.8696	223.7783	0	27.6951	28.2671	28.8480
-38	194.4226	202.3826	210.6475	1	26.4908	27.0257	27.5687
-37	183.3204	190.7126	198.3831	2	25.3463	25.8466	26.3542
-36	172.9331	179.8005	186.9219	3	24.2585	24.7264	25.2008
-35	163.2098	169.5919	176.2059	4	23.2242	23.6617	24.1051
-34	154.1034	160.0366	166.1815	5	22.2404	22.6495	23.0638
-33	145.5707	151.0884	156.7995	6	21.3044	21.6869	22.0739
-32	137.5716	142.7046	148.0144	7	20.4136	20.7711	21.1327
-31	130.0693	134.8459	139.7840	8	19.5655	19.8996	20.2373
-30	123.0294	127.4759	132.0698	9	18.7578	19.0700	19.3854
-29	116.4204	120.5608	124.8359	10	17.9884	18.2801	18.5746
-28	110.2132	114.0696	118.0492	11	17.2553	17.5276	17.8025
-27	104.3805	107.9735	111.6791	12	16.5564	16.8108	17.0673
-26	98.8973	102.2459	105.6972	13	15.8901	16.1275	16.3668
-25	93.7405	96.8620	100.0775	14	15.2547	15.4762	15.6994
-24	88.8883	91.7990	94.7955	15	14.6484	14.8550	15.0631
-23	84.3209	87.0357	89.8288	16	14.0699	14.2625	14.4564
-22	80.0197	82.5523	85.1565	17	13.5176	13.6972	13.8778
-21	75.9675	78.3306	80.7593	18	12.9903	13.1576	13.3257
-20	72.1481	74.3538	76.6191	19	12.4867	12.6425	12.7989
-19	68.5468	70.6058	72.7194	20	12.0056	12.1505	12.2960
-18	65.1498	67.0723	69.0446	21	11.5459	11.6806	11.8158
-17	61.9440	63.7394	65.5803	22	11.1064	11.2316	11.3571
-16	58.9176	60.5946	62.3132	23	10.6862	10.8025	10.9190
-15	56.0594	57.6261	59.2307	24	10.2844	10.3923	10.5002
-14	53.3589	54.8228	56.3212	25	9.9000	10.0000	10.1000
-13	50.8065	52.1745	53.5741	26	9.5249	9.6248	9.7248
-12	48.3931	49.6717	50.9791	27	9.1662	9.2658	9.3656
-11	46.1103	47.3056	48.5269	28	8.8230	8.9223	9.0218
-10	43.9502	45.0676	46.2088	29	8.4946	8.5934	8.6925
-9	41.9055	42.9503	44.0166	30	8.1803	8.2786	8.3772
-8	39.9693	40.9462	41.9428	31	7.8794	7.9770	8.0750
-7	38.1351	39.0487	39.9801	32	7.5913	7.6882	7.7855
-6	36.3970	37.2514	38.1219	33	7.3153	7.4114	7.5080
-5	34.7494	35.5484	36.3621	34	7.0509	7.1461	7.2419
-4	33.1869	33.9342	34.6949	35	6.7976	6.8919	6.9867
-3	31.7047	32.4037	33.1148	36	6.5547	6.6480	6.7420
-2	30.2982	30.9520	31.6167	37	6.3219	6.4142	6.5072

T(°C)	R _{Min} (KΩ)	R _{Nor} (KΩ)	R _{Max} (KΩ)	T(°C)	R _{Min} (KΩ)	R _{Nor} (KΩ)	R _{Max} (KΩ)
38	6.0986	6.1899	6.2818	82	1.5032	1.5469	1.5918
39	5.8845	5.9746	6.0655	83	1.4613	1.5043	1.5484
40	5.6790	5.7680	5.8578	84	1.4208	1.4630	1.5063
41	5.4818	5.5697	5.6584	85	1.3816	1.4231	1.4656
42	5.2926	5.3793	5.4669	86	1.3437	1.3844	1.4262
43	5.1109	5.1964	5.2829	87	1.3070	1.3470	1.3880
44	4.9364	5.0208	5.1060	88	1.2715	1.3107	1.3510
45	4.7688	4.8520	4.9361	89	1.2371	1.2756	1.3152
46	4.6079	4.6898	4.7727	90	1.2038	1.2416	1.2805
47	4.4532	4.5339	4.6156	91	1.1716	1.2087	1.2469
48	4.3045	4.3840	4.4645	92	1.1404	1.1768	1.2143
49	4.1616	4.2398	4.3191	93	1.1101	1.1459	1.1827
50	4.0242	4.1012	4.1793	94	1.0808	1.1159	1.1520
51	3.8920	3.9678	4.0447	95	1.0524	1.0868	1.1223
52	3.7649	3.8395	3.9152	96	1.0248	1.0587	1.0936
53	3.6426	3.7160	3.7905	97	0.9981	1.0314	1.0656
54	3.5249	3.5971	3.6704	98	0.9723	1.0049	1.0385
55	3.4116	3.4826	3.5547	99	0.9472	0.9792	1.0123
56	3.3025	3.3724	3.4433	100	0.9228	0.9543	0.9868
57	3.1975	3.2662	3.3360	101	0.8992	0.9302	0.9620
58	3.0964	3.1639	3.2325	102	0.8764	0.9067	0.9380
59	2.9990	3.0654	3.1328	103	0.8542	0.8840	0.9147
60	2.9052	2.9704	3.0367	104	0.8326	0.8619	0.8921
61	2.8148	2.8788	2.9440	105	0.8117	0.8405	0.8702
62	2.7276	2.7905	2.8547	106	0.7914	0.8197	0.8488
63	2.6436	2.7054	2.7684	107	0.7717	0.7995	0.8281
64	2.5626	2.6233	2.6853	108	0.7526	0.7799	0.8080
65	2.4845	2.5442	2.6050	109	0.7341	0.7608	0.7885
66	2.4091	2.4678	2.5276	110	0.7161	0.7423	0.7695
67	2.3365	2.3940	2.4528	111	0.6986	0.7244	0.7511
68	2.2663	2.3229	2.3806	112	0.6816	0.7069	0.7332
69	2.1987	2.2542	2.3109	113	0.6650	0.6900	0.7158
70	2.1334	2.1879	2.2436	114	0.6490	0.6735	0.6988
71	2.0703	2.1239	2.1786	115	0.6334	0.6575	0.6824
72	2.0094	2.0620	2.1158	116	0.6183	0.6419	0.6664
73	1.9506	2.0023	2.0551	117	0.6036	0.6268	0.6508
74	1.8938	1.9446	1.9964	118	0.5893	0.6121	0.6357
75	1.8390	1.8888	1.9397	119	0.5754	0.5978	0.6210
76	1.7860	1.8349	1.8849	120	0.5618	0.5839	0.6067
77	1.7348	1.7828	1.8319	121	0.5487	0.5703	0.5928
78	1.6853	1.7324	1.7807	122	0.5359	0.5572	0.5793
79	1.6374	1.6837	1.7311	123	0.5235	0.5444	0.5661
80	1.5912	1.6366	1.6831	124	0.5114	0.5319	0.5533
81	1.5464	1.5910	1.6367	125	0.4996	0.5198	0.5408

6、 附件ATTACHMENT

附件ATTACHMENT: 《SGS报告REPORT》