

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	SNS103B13380FE1L030EYE30
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	S	103	B ₁	3380	F	E	I	L	030	E	YE	30
①	②	③	④	④	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬

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	S指传感器
	S-FINGER SENSOR
③ 产品阻值 (25°零功率电阻值) PRODUCT RESISTANCE (25° ZERO POWER RESISTANCE)	103指10KΩ
	103 MEANS 10KΩ;
④ B 值代码 B-VALUE CODE	B1指 25/50
	B1 MEANS 25/50
⑤ B 值数值 B-VALUE TOLERANCE	3380指B值为3950K
	3380 MEANS THAT B VALUE IS 3950K
⑥ 阻值误差 PACKAGING STYLE	F 指±1%
	F INDICATES ±1%
⑦ 头部外观结构 HEAD APPEARANCE STRUCTURE	E指环氧树脂封装;
	E MEANS EPOXY RESIN ENCAPSULATION;
⑧ 线材颜色 WIRE COLOR	1指线材颜色为黑色;
	1 THE COLOR OF THE FINGER WIRE IS BLACK
⑨ 线材规格 WIRE SPECIFICATION	L指UL3302 HF#30单线;
	L REFERS TO UL3302 HF#30 SINGLE LINE;
⑩ 线材长度 WIRE LENGTH	030指产品总长度为30mm;

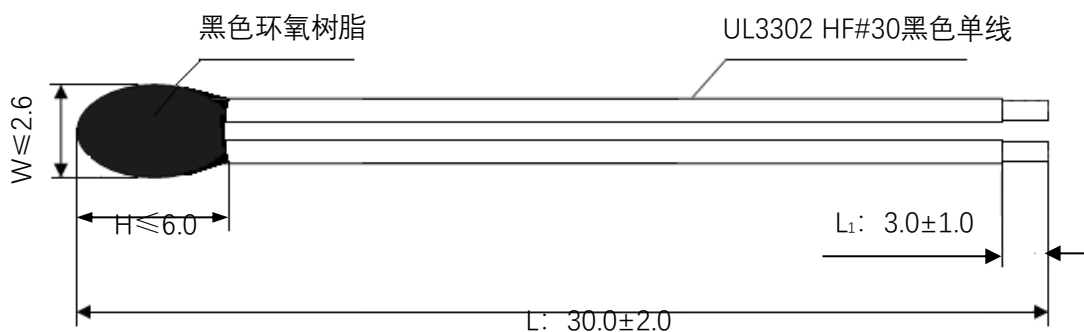
	030 MEANS THE TOTAL LENGTH OF THE PRODUCT IS 55MM;
⑪ 环保产品 ENVIRONMENTAL PROTECTION PRODUCTS	E表示环保;
	E IS FOR ENVIRONMENTAL PROTECTION
⑫ 特殊定义 SPECIAL DEFINITION	YE指产品头部宽度 $W \leq 2.6\text{mm}$, 深度 $H \leq 6.0\text{mm}$;
	ACM REFERS TO THE TAIL TEAR LINE OF THE PRODUCT LINE $5 \pm 3\text{MM}$ (EXCLUDING THE TAIL STRIP LENGTH);
⑬ 线尾剥线长度 STRIP LENGTH OF WIRE TAIL	20指产品线尾剥线长度为2.0mm。
	THE TAIL STRIP LENGTH OF THE 20-FINGER PRODUCT LINE IS 2.0MM.

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)
SNS103B ₁ 3380FE1L030EYE30	10K	3380	≥2.5	≤15	150	-40~105

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°C高精度油槽内稳定后测量 THE PRODUCT TO BE MEASURED IS PLACED IN A 25°C HIGH PRECISION OIL TANK FOR STABILITY	$10K\Omega \pm 1\%$
(2)	$B_{25/50}$	将待测品置于25°C、50°C精度油槽内稳定后测量 THE PRODUCT TO BE TESTED IS PLACED IN A HIGH PRECISION OIL TANK AT 25°C AND 85AND THEN MEASURED	$3380K \pm 1\%$
(3)	外观 APPEARANCE	目测检查 VISUAL INSPECTION	产品符合2.2的外形要求，无针孔、氧化、烫伤等 THE PRODUCT MEETS THE APPEARANCE REQUIREMENTS OF 2.2,WITHOUT PINHOLES,OXIDATION,BURNS,ETC
(4)	尺寸 DIMENSION	用精度为0.01mm卡尺测量 MEASURE WITH A CALIPER ACCURACY OF 0.01MM	符合2.2的外形尺寸 CONFORM TO THE DIMENSIONS OF 2.2
(5)	绝缘电阻测试 INSULATION RESISTANCE TEST	绝缘电压INSULATION VOLTAGE: 300V _{DC} 时间TIME: 1min	无外观损伤 NO APPARENT DAMAGE 绝缘电阻 INSULATION RESISTANCE: $\geq 150 M\Omega$

3.1 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)	跌落 FALL	IEC68-2-32	跌落高度 DROP HEIGHT: 1±0.1m 跌落次数 NUMBER OF DROPS: 1 跌落面 FALLING SURFACE: 水泥 CEMENT	无外观损伤 NO COSMETIC DAMAGE $ \Delta R_{25}/R_{25} \leq 1\%$ $ \Delta B/B \leq 2\%$
(2)	湿热负载 MOIST HEAT LOAD	IEC68-2-2/IEC68-2-3/CNS5550	温度 TEMPERATURE: 40±2°C 湿度 HUMIDITY: 90~95%RH 时间 TIME: 500±12h; 工作电流 PERATING CURRENT	无外观损伤 NO COSMETIC DAMAGE $ \Delta R_{25}/R_{25} \leq 5\%$ $ \Delta B/B \leq 2\%$
(3)	高温存储 HIGHT TEMPERATURE LOADS	IEC68-2-2/CNS5550	温度 TEMPERATURE: 105±2°C 时间 TIME: 1000±24h	无外观损伤 NO COSMETIC DAMAGE $ \Delta R_{25}/R_{25} \leq 5\%$ $ \Delta B/B \leq 2\%$
(4)	冷热冲击 COLD AND HEAT SHOCK	IEC68-2-14	温度 TEMPERATURE: -40°C, +105°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\%$
(5)	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} \leq 2\%$ $ \Delta B/B \leq 2\%$
(6)	耐久性 DURABILITY	UL1434	环境温度 ENVIRONMENT TEMPERATURE: 25±2°C 周期 PERIOD: 6000	无外观损伤 NO COSMETIC DAMAGE $ \Delta R_{25}/R_{25} \leq 5\%$ $ \Delta B/B \leq 2\%$

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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)	包装袋 PACKING BAG	热封口袋 HEAT SEAL POCKET	1000PCS
(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，存放产品的仓库环境温度-10℃~+40℃、相对湿度不大于70%，仓库内不允许有各、易爆的种有害气体、易爆的产品及有腐蚀腐蚀性的化学物品，并且无强烈的机械震动、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

 $R_{25}=10K\Omega\pm1\%$
 $B25/85=3380K\pm1\%$

T(°C)	RMin(KΩ)	RNor(KΩ)	RMax(KΩ)	T(°C)	RMin(KΩ)	RNor(KΩ)	RMax(KΩ)
-40	195.6097	203.6308	211.9597	-1	28.2916	28.8821	29.4820
-39	184.8397	192.3092	200.0605	0	27.0920	27.6453	28.2071
-38	174.7370	181.6950	188.9112	1	25.9498	26.4683	26.9945
-37	165.2558	171.7395	178.4597	2	24.8621	25.3479	25.8406
-36	156.3538	162.3974	168.6577	3	23.8259	24.2810	24.7424
-35	147.9919	153.6270	159.4607	4	22.8386	23.2649	23.6968
-34	140.1339	145.3896	150.8273	5	21.8976	22.2969	22.7011
-33	132.7460	137.6493	142.7195	6	21.0004	21.3743	21.7527
-32	125.7973	130.3731	135.1018	7	20.1449	20.4949	20.8489
-31	119.2586	123.5300	127.9415	8	19.3287	19.6564	19.9875
-30	113.1033	117.0915	121.2082	9	18.5500	18.8566	19.1664
-29	107.3065	111.0312	114.8738	10	17.8068	18.0937	18.3833
-28	101.8449	105.3245	108.9121	11	17.0973	17.3656	17.6363
-27	96.6971	99.9484	103.2988	12	16.4198	16.6707	16.9237
-26	91.8431	94.8819	98.0114	13	15.7727	16.0072	16.2435
-25	87.2644	90.1051	93.0289	14	15.1545	15.3736	15.5942
-24	82.9435	85.5996	88.3320	15	14.5638	14.7683	14.9743
-23	78.8644	81.3484	83.9023	16	13.9991	14.1900	14.3822
-22	75.0120	77.3356	79.7232	17	13.4592	13.6374	13.8165
-21	71.3725	73.5463	75.7789	18	12.9429	13.1090	13.2760
-20	67.9326	69.9668	72.0547	19	12.4490	12.6039	12.7594
-19	64.6980	66.6025	68.5562	20	11.9765	12.1207	12.2655
-18	61.6371	63.4204	65.2488	21	11.5243	11.6586	11.7932
-17	58.7394	60.4095	62.1209	22	11.0914	11.2163	11.3415
-16	55.9953	57.5596	59.1616	23	10.6770	10.7931	10.9094
-15	53.3958	54.8611	56.3610	24	10.2802	10.3879	10.4958
-14	50.9324	52.3052	53.7095	25	9.9000	10.0000	10.1000
-13	48.5973	49.8834	51.1985	26	9.5309	9.6308	9.7307
-12	46.3829	47.5881	48.8196	27	9.1776	9.2772	9.3771
-11	44.2825	45.4118	46.5652	28	8.8394	8.9387	9.0382
-10	42.2894	43.3477	44.4280	29	8.5156	8.6144	8.7136
-9	40.3975	41.3893	42.4013	30	8.2055	8.3038	8.4024
-8	38.6013	39.5308	40.4787	31	7.9084	8.0061	8.1042
-7	36.8952	37.7664	38.6543	32	7.6238	7.7208	7.8182
-6	35.2743	36.0909	36.9226	33	7.3511	7.4472	7.5439
-5	33.7338	34.4992	35.2783	34	7.0896	7.1849	7.2808
-4	32.2694	32.9867	33.7166	35	6.8389	6.9333	7.0283
-3	30.8768	31.5491	32.2328	36	6.5984	6.6919	6.7860
-2	29.5521	30.1822	30.8226	37	6.3677	6.4601	6.5533

T(°C)	RMin(KΩ)	RNor(KΩ)	RMax(KΩ)	T(°C)	RMin(KΩ)	RNor(KΩ)	RMax(KΩ)
38	6.1463	6.2378	6.3299	72	2.0610	2.1144	2.1690
39	5.9338	6.0242	6.1154	73	2.0016	2.0541	2.1078
40	5.7299	5.8192	5.9093	74	1.9443	1.9958	2.0485

41	5.5341	5.6223	5.7113	75	1.8889	1.9395	1.9913
42	5.3461	5.4331	5.5210	76	1.8352	1.8850	1.9359
43	5.1654	5.2513	5.3381	77	1.7834	1.8323	1.8823
44	4.9918	5.0766	5.1622	78	1.7334	1.7813	1.8305
45	4.8250	4.9086	4.9930	79	1.6849	1.7320	1.7803
46	4.6647	4.7470	4.8303	80	1.6380	1.6843	1.7317
47	4.5106	4.5917	4.6739	81	1.5926	1.6381	1.6847
48	4.3623	4.4423	4.5233	82	1.5488	1.5935	1.6392
49	4.2198	4.2985	4.3783	83	1.5063	1.5501	1.5951
50	4.0826	4.1601	4.2387	84	1.4653	1.5083	1.5525
51	3.9506	4.0270	4.1044	85	1.4254	1.4677	1.5111
52	3.8236	3.8988	3.9750	86	1.3869	1.4285	1.4711
53	3.7013	3.7753	3.8504	87	1.3497	1.3905	1.4324
54	3.5836	3.6564	3.7303	88	1.3136	1.3536	1.3948
55	3.4702	3.5419	3.6146	89	1.2786	1.3179	1.3584
56	3.3611	3.4315	3.5031	90	1.2447	1.2833	1.3230
57	3.2559	3.3251	3.3956	91	1.2118	1.2498	1.2888
58	3.1544	3.2226	3.2919	92	1.1800	1.2173	1.2556
59	3.0568	3.1238	3.1919	93	1.1492	1.1858	1.2234
60	2.9626	3.0285	3.0955	94	1.1193	1.1553	1.1923
61	2.8719	2.9366	3.0026	95	1.0903	1.1257	1.1620
62	2.7842	2.8479	2.9127	96	1.0623	1.0970	1.1327
63	2.6999	2.7625	2.8262	97	1.0350	1.0691	1.1042
64	2.6184	2.6799	2.7426	98	1.0086	1.0421	1.0766
65	2.5398	2.6003	2.6619	99	0.9830	1.0159	1.0498
66	2.4640	2.5234	2.5840	100	0.9580	0.9904	1.0237
67	2.3908	2.4492	2.5087	101	0.9339	0.9657	0.9984
68	2.3202	2.3775	2.4360	102	0.9105	0.9417	0.9738
69	2.2520	2.3083	2.3658	103	0.8878	0.9185	0.9501
70	2.1861	2.2414	2.2980	104	0.8658	0.8959	0.9270
71	2.1226	2.1769	2.2325	105	0.8443	0.8739	0.9044