

南京时恒电子科技有限公司
Nanjing Shiheng Electronics Co.,Ltd.

规格承认书

APPROVAL SHEET

客户名称 CUSTOMER : _____
产品名称 PART NAME : MF11 补偿型 NTC 热敏电阻器
MF11 Compensation NTC Thermistor
产品规格 PART NUMBER : MF11-201K
产品编号 PRODUCTCODE: _____
版次 REV.NO: B0
日期 DATE: 2022-11-17

确认

CONFIRM

客户 CLIENT		供货商/制造商 MANUFACTOR	
品保部 Quality Dep.		规格书制作 Design	吴迎丽
制造部 Production Dep.		业务部审核 Checked by sales	
工程部 Engineering Dep.		技术部审核 Checked by R&D	程鹏
		品质部审核 Checked by QA	李少媛

南京时恒电子科技有限公司

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变更记录表

1、产品型号说明 Product model specification

 MF11 201 K
 ① ② ③ ④

①  : 时恒品牌

② MF11: 补偿型 NTC 热敏电阻

③ 201: 25℃的零功率电阻值 200 Ω

④ K: 阻值精度代码 J-±5% K-±10% M-±20%

2、电气性能 Electrical Characteristics

No.	项目 Item	符号 Symbol	测试条件 Test conditions	单位 Unit	性能要求 Requirements
2.1	25℃的零功率电阻值 Zero Power Resistance at 25℃	$R_{25^{\circ}\text{C}}$	$T_a=25\pm 0.5^{\circ}\text{C}$ (测试功率 $\leq 0.1\text{mW}$ 空气中测试) Test Power $\leq 0.1\text{mW}$, in air)	K Ω	$200\ \Omega \pm 10\%$
2.2	B 值 B-value	$B_{25/50}$	$B = [(T_a \times T_b) / (T_b - T_a)] \times \ln(R_a / R_b)$ $T_a=25\pm 0.01^{\circ}\text{C}$ $T_b=50^{\circ}\text{C} \pm 0.01^{\circ}\text{C}$	K	$3200 \pm 10\%$
2.3	耗散系数 Thermal dissipation Coefficient	δ	静止空气中 In still air	mW/°C	约 4.5
2.4	时间常数 Thermal time constant	τ	静止空气中 In still air	sec	约 20
2.5	绝缘电阻 Insulation resistance	/	1000V/DC 1min	M Ω	≥ 500
2.9	工作温度范围 Operating temperature range	/	/	°C	-30 ~ 125
2.10	最大额定功率 Maximum rated power	P_{max}	/	mW	450

3、产品图纸 Product drawing

产品图纸 Product drawing		客户确认 Customer confirm	客户名称 Customer:			
			确认 Confirm		日期 DATE	
产品型号 MODEL NO.	MF11 201K	审核 Approve:		日期 DATE		
尺寸 Dimensions: <div style="text-align: right;">1 (Unit: mm)</div> <div style="text-align: center;"> </div>						
D	L1	L2	F±0.5	T	d±0.05	
Max6.0	Min25	2.5±1	2.5	Max4.0	0.45	
技术要求 Technical requirements: <ol style="list-style-type: none"> 1) 零功率阻值: R25: 200 Ω ± 10% (Zero Power Resistance: R25: 200Ω±10%); 2) B25/50 数值: 3200K ± 10% (B-value: B25/50: 3200K±10%); 3) 线材: 镀锡铜包钢线 (tinned copper-weld steel wire); 4) 封装: 绿色环氧树脂 (Green Epoxy resin); 5) 符合 RoHS 环保要求 (Meet environmental protection requirements:RoHS)。 						
更新履历 Revised record sheet						
版本 REV. NO	更新时间 REV.DATE	更新内容 Change content		申请人 Applicant	批准人 Approved	
A0	2015. 4. 10	版本制定。 Version formulation		王月婷	李少媛	
B0	2022. 4. 1	更新规格书版本格式, 增加版次管控 Update for version form of datasheet, add to management and control for number of edition		王月婷	李少媛	

4、可靠性 Reliability

■ 散装方式 Bulk Type □ 编带方式 Reel Type

5.2 包装规格 Packing specification

No.	包装规格 Packing specification	包装材料、尺寸 Packing material, size	产品数量 Quantity
1	包装袋 Packing bag	自封口袋(self sealing bag) W×H=11mm×12mm	1000
2	编带带包装盒 reel packing box	包装盒 packing box W×G×H=335mm×240mm×50mm	1000

6、安装&使用注意事项 Installation & Use precautions

6.1 本产品的用途：用于温度补偿；

Purpose of product: Be used for temperature compensation;

6.2 烙铁焊接时，焊接处距包封头部距离至少 2mm，焊接温度应低于 360℃，焊接时间 < 3ses;

When welded by soldering iron, weld spot should be 2mm at least from head, weld temperature should be under 360℃, time < 3ses

6.3 储存温度：-10℃ ~ 40℃；储存湿度：≤75% RH；

storage temp: -10℃ ~ 40℃；storage humidity: ≤75% RH


6.4 避免存放在具有腐蚀性气体及光照的环境下；

To avoid of leaving with such environment as corrosive gases and illumination

6.5 包装打开后需重新密封保存，贮存期 1 年，超过贮存期，可按本标准规定的项目重新检验，如符合要求仍可使用；

The packing need to be resealed since opened, storage period 1 year. once valid, it should be retest according to regulated of criterion and can be still used if meet the requirement.

7、产品认证 Product certification

No.	项目 Projects	产品认证 Product certification
7.1	质量管理体系认证 Quality Management System Certification	ISO9001:2015
		IATF16949: 2016
7.2	环境管理体系认证 Environmental Management System Certification	ISO14001:2015
7.3	环保检测报告 Environmental test report	RoHS 2.0
7.4	CQC 认证 CQC certificate	
7.5	TUV 认证 TUV certificate	R50245892
7.6	江苏省高新技术产品认证 High-tech product certificate in Jiangsu Province	



时恒电子(电阻温度表)

R25=200Ω

B25/50=3200K

T	R	T	R	T	R	T	R	T	R	T	R
-30	2262	-4	636.482	22	222.996	48	93.316	74	44.854	100	24
-29	2144.07	-3	609.026	23	214.995	49	90.513	75	43.707	101	23.368
-28	2033.15	-2	582.94	24	207.335	50	87.812	76	42.595	102	22.849
-27	1928.79	-1	558.147	25	200	51	85.209	77	41.518	103	22.343
-26	1830.54	0	534	26	192.973	52	82.7	78	40.474	104	21.852
-25	1738	1	512.162	27	186.241	53	80.28	79	39.462	105	21.373
-24	1650.79	2	490.838	28	179.789	54	77.946	80	38.481	106	20.907
-23	1568.57	3	470.547	29	173.603	55	75.694	81	37.53	107	20.454
-22	1491.03	4	451.232	30	167.672	56	73.522	82	36.607	108	20.012
-21	1417.86	5	432.841	31	161.983	57	71.425	83	35.711	109	19.581
-20	1348.79	6	415.324	32	156.525	58	69.401	84	34.843	110	19.162
-19	1283.56	7	398.635	33	151.288	59	67.446	85	34	111	18.753
-18	1221.94	8	382.73	34	146.26	60	65.559	86	33.181	112	18.355
-17	1163.69	9	367.568	35	141.433	61	63.735	87	32.387	113	17.967
-16	1108.63	10	354	36	136.798	62	61.973	88	31.616	114	17.589
-15	1056.54	11	339.317	37	132.344	63	60.271	89	30.867	115	17.22
-14	1007.25	12	326.158	38	128.065	64	58.625	90	30.139	116	16.861
-13	960.605	13	313.598	39	123.953	65	57.035	91	29.433	117	16.511
-12	916.431	14	301.607	40	120	66	55.496	92	28.746	118	16.169
-11	874.587	15	290.156	41	116.198	67	54.008	93	28.079	119	15.835
-10	834.937	16	279.218	42	112.542	68	52.569	94	27.431	120	15.51
-9	797.353	17	268.766	43	109.024	69	51.177	95	26.8	121	15.193
-8	761.715	18	258.777	44	105.639	70	49.829	96	26.188	122	14.884
-7	727.911	19	249.226	45	102.381	71	48.524	97	25.592	123	14.582
-6	695.835	20	240.093	46	99.245	72	47.261	98	25.013	124	14.287
-5	665.39	21	231.356	47	96.225	73	46.039	99	24.449	125	14

