

昆山海旭科技电子有限公司

Kunshan Haixu Electronic Technology Co. Ltd

样品承认书

Specification For Approval

客户名称 Customer Name	
品 名 Rariety	压电无源蜂鸣器
型 号 Part No	SFN-2207PA12.5
客户型号 The customer Part No	
样品日期 Model Date	

签定结果:		
核准/Approved:	审核/Checked:	经办/Designed:

客户承认签署

海旭确认签署

核准/Approved:	审核/Checked:	经办/Designed:
丁爱勇	黄锡梅	梁嘉敏

承认后请签回一份! Thank you very much!

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S 浅	电子有限公司 ic Technology Co. Ltd				
型号	型号 part No: SFN-2207PA12.5				
	性能参数 Electrical Characteristics				
1	最大工作电压 MAX Operating Voltage (Vp_p)	30			
2	*在 10cm 处测试声压值 Sound Output at 10cm (dB)	≥85 (at 2KHz Square Wave 5Vp-p)			
3	*消耗电流 Current Consumption (mA)	≤5			
4	共振频率 Resonant Frequency (Hz)	2000			
5	电容量 Capacitance at 1000Hz (nF)	$28 \pm 30\%$			
6	工作温度 Operating Temperature (℃)	-20~+70			
7	储存温度 Storage Temperature (℃)	-30~+80			
8	单品重量 Weight (g)	2.7			
9	外壳材料 Housing Material	Black PC/PBT			
10	环保要求 Environmental Protection Regulation	RoHS			
11	焊接方式 Welding method	手工焊接 Artificial welding /波峰焊接 wave soldering			

外形图 DIMENSIONS (UNIT: mm) 未标注公差按±0.5mm 计算 Tolerance: ±0.5mm Except Specified





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型号 part No: SFN-2207PA12.5					
可靠性测试 RELIABLY TEST					
项目 ITEM	测试条件 TESTING CONDITION	试验后要求 VARIANCE AFTER TEST			
高温试验 High Temperature Test	放置 85±2℃ 96 小时,再室温放置 2 小时。 After being placed in a chamber with 85±2℃ for 96 hours and then being placed in natural condition for 2 hours.	声压变化±10dB。 Allowable variation of SPL after test: ±10dB.			
低温试验 Low Temperature Test	放置-30±2℃ 96 小时,再室温放置 2 小时。 After being Placed in a chamber with -30±2℃ for 96 hours and then being placed in natural condition for 2 hours.	声压变化±10dB。 Allowable variation of SPL after test: ±10dB.			
恒湿试验 Humidity Test	存放在温度: 60±5℃湿度: 90%95%的环境里 96 小时, 然后放置到室温下 放置 2 小时后测试 。 Stored in the temperature humidity: 60±5℃ 90%95% environment for 96 hours, and then placed into storage at room temperature for 2 hours after the test.	声压变化±10dB。 Allowable variation of SPL after test: ±10dB.			
Temperature Cycle Test 温度循环试验	放置-30±2℃ 30 分钟、25℃±10℃放置 15 分钟,15 分钟后再将产品放入 +85±2℃30 分钟、常温 25℃±10℃放置 15 分钟,20 个循环后放置常温下 2 小时。 After being placed in a chamber with -30±2℃ for 30 minutes, products shall be placed at room temperature(25℃±10℃).After 15 minutes at this temperature, products shall be placed in a chamber at +85±2℃.After 30 minutes at this temperature, products shall be return to room temperature (25℃±10℃) for15 minutes. After 20 above cycles, products shall be measured after being placed in natural condition for 2 hours.	声压变化±10dB。 Allowable variation of SPL after test: ±10dB.			
Drop Test 跌落试验	正面和侧面从 100cm 高度只有跌落在 4cm 厚度的木板上 3 次。 The front and side from a height of 100cm only drop in the 4cm thickness of theboard 3 times each.	声压变化±10dB。 Allowable variation of SPL after test: ±10dB.			
Vibration Test 振动试验	After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours. 频率 10~55Hz,振幅 1.5mm, 3 个方向,振动 2 小时。	声压变化±10dB。 Allowable variation of SPL after test: ±10dB.			
Solderability Test 可焊性试验	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of 200±5℃ for 3±0.5 seconds (Except the edge of terminals). 端子在松香中浸入 5 秒并在 200±5℃锡中浸 3±0.5 秒	95% min. lead terminals shall be wet with solder 有 95%吃锡效果。			



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型号 part No: SFN-2207PA12.5

TESTING METHOD (测试方法)

Standard Measurement conditions

Temperature:25±2°C Humidity:45-65%

Acoustic Characteristics:

The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



In the measuring test, buzzer is placed as follows:

