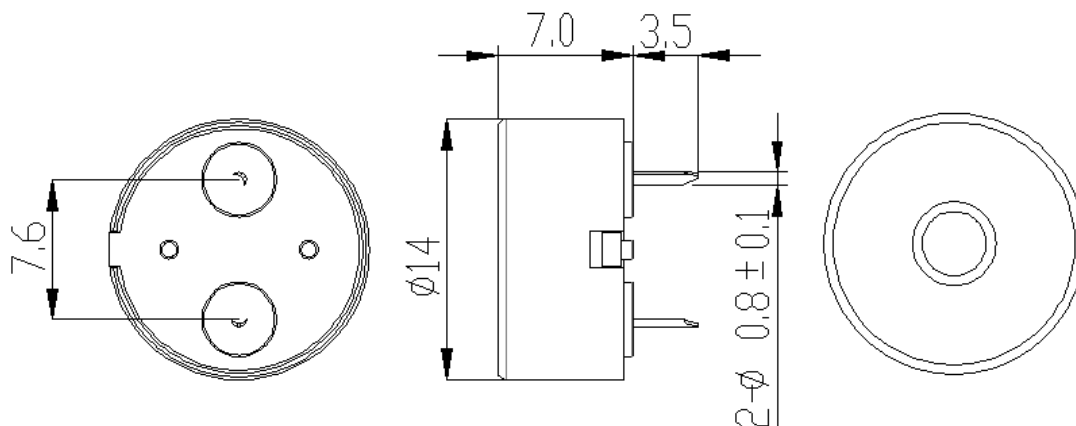


part No: SFN-1407PA7.6

Electrical Characteristics

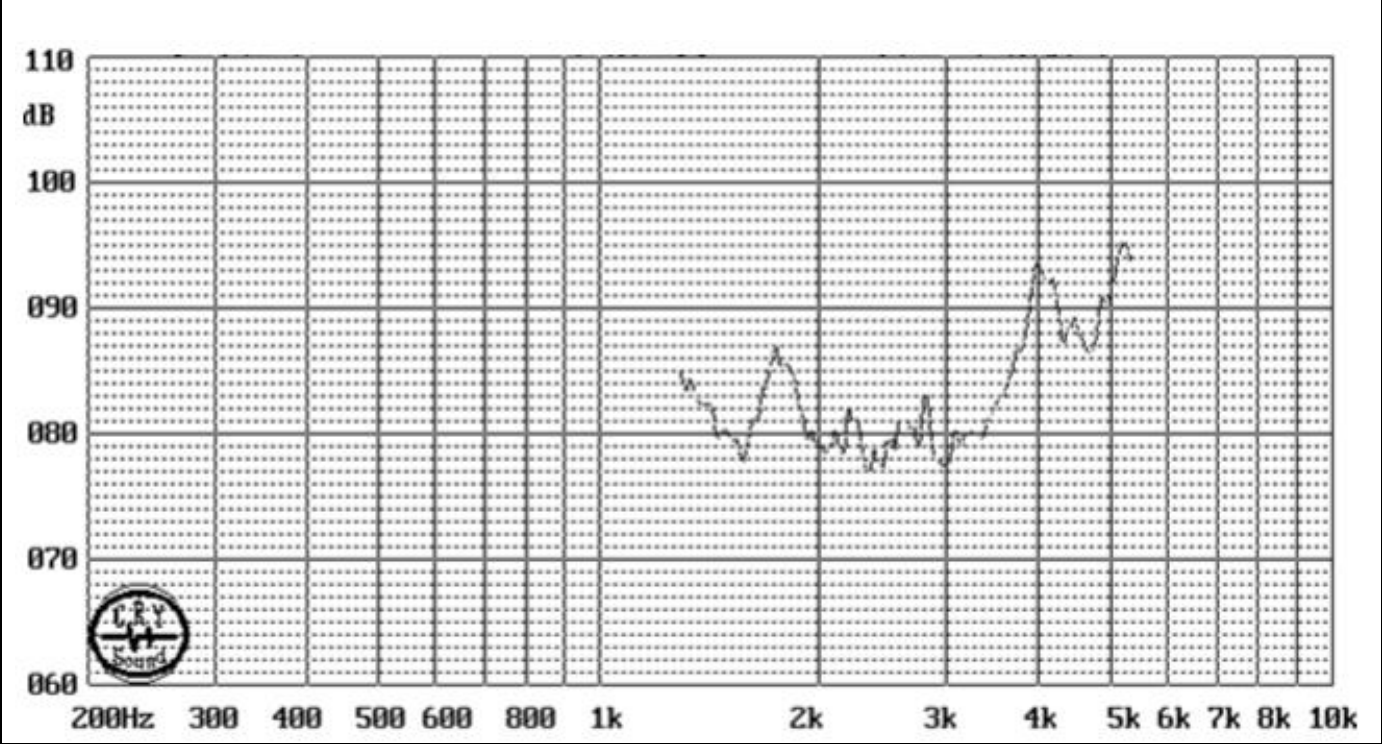
1	MAX Operating Voltage (Vp_p)	30
2	*10cm Sound Output at 10cm (dB)	≥ 85 (at 4KHz Square Wave 5Vp-p)
3	*Current Consumption (mA)	≤ 5
4	Resonant Frequency (Hz)	4000
5	Capacitance at 1000Hz (nF)	$12 \pm 30\%$
6	Operating Temperature (°C)	-40~+105
7	Storage Temperature (°C)	-40~+105
8	Weight (g)	0.8
9	Housing Material	Black PBT
10	Environmental Protection Regulation	RoHS
11	Welding method	Artificial welding / wave soldering

DIMENSIONS (UNIT: mm) $\pm 0.5\text{mm}$ Tolerance: $\pm 0.5\text{mm}$ Except Specified

 S&S 海旭科技 Kunshan Haixu Electronic Technology Co. Ltd		
型号 part No: SFN-1407PA7.6		
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 105±2℃ 96 小时，再室温放置 2 小时。 After being placed in a chamber with 105±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-40±2℃ 96 小时，再室温放置 2 小时。 After being Placed in a chamber with -40±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-40±2℃ 30 分钟、25℃±10℃放置 15 分钟，15 分钟后再将产品放入+105±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 -40±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 +105±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。

S&S 海旭科技 昆山海旭科技电子有限公司 Kunshan Haixu Electronic Technology Co. Ltd		
型号 part No: SFN-1407PA7.6		
可靠性测试 RELIABLY TEST		
项目 ITEM	测试条件 TESTING CONDITION	试验后要求 VARIANCE AFTER TEST
Continuous electricity test 连续通电试验	Temperature: room temperature 25 °C Voltage: rated voltage 5 V Frequency: the rated frequency for 4 KHZ Time: 500 hours 温度: 室温 25℃ 电压: 额定电压 5V, 频率: 额定频率 4KHz 时间: 500 小时	声压变化±10dB。 Allowable variation of SPL after test: ±10dB.
terminal Strength Pulling Test 端子强度试验	The force of 9.8N(1.0kg) is applied to each terminal in axial direction for 10 seconds. 在每个端子上施加 9.8N (1.0kg) 的轴向力 10 秒。	No visible damage and cutting off. 端子没有明显的损坏和切断

Typical Frequency Response Curve (音频曲线图)



型号 part No: SFN-1407PA7.6

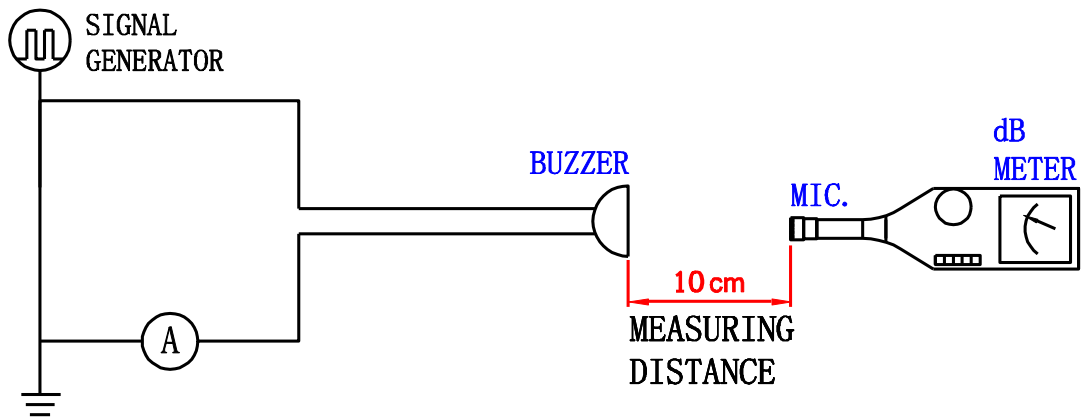
TESTING METHOD (测试方法)

Standard Measurement conditions

Temperature: $25 \pm 2^{\circ}\text{C}$ 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:

