深圳市兴华鑫电子科技有限公司
Shenzhen xinghuaxin Electronic Technology Co., Ltd

承認書

SPECIFICATION FOR APPROVAL

客戶(Customer)：

客戶料號(Customer P/N)：

興華鑫型號(Supplier P/N)：XHXDZ-9650-12V

產品名稱(Description)：蜂鸣器 (Buzzer)

產品規格(Specification)：9.6*9.6*5.0MM

客戶承認欄 (Customer Authorization Signature)	深圳市興華鑫電子科技有限公司 承認欄 (Supplier Audit)		
	審核	檢查	制作
	唐国兴	唐玉来	吴银娟
	日期： 2022 年 04 月 19 日 版次：A		

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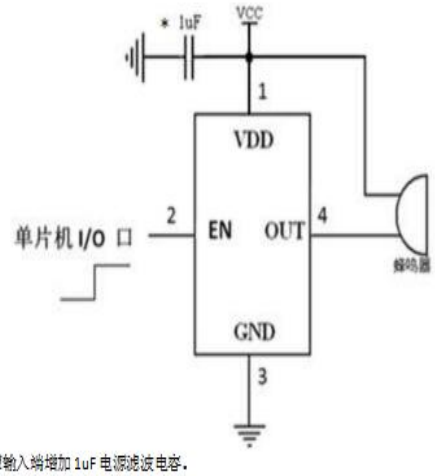
1.基本规格/General specification

项目/Item		规格/Spec	条件/Condition
1	额定电压 Rated voltage	12V	
2	工作电压 Operation voltage	8-16V	
3	声压 Sound Pressure Level=SPL	Min 88dB	测试环境：标准状态，标准驱动电路，额定电压 测试距离：0.1m Standard State,Standard Drive Circuit. Rated voltage,Distance at 0.1m
4	电流 current	Max30mA	
5	振荡频率 Oscillation frequency	3000±300HZ	
6	工作温度范围 Operating Temperature	-20～+70℃	声压 ≥88dB SPL≥88dB
7	保存温度范围 Storage temperature	-30～+80℃	
8	外部尺寸 Externals size （mm）	Φ9.6X9.6XH5.0	参阅附图 Refer to the attached drawing
9	重量 Mass	1.5g	
10	材质 Housing Material	LCP	

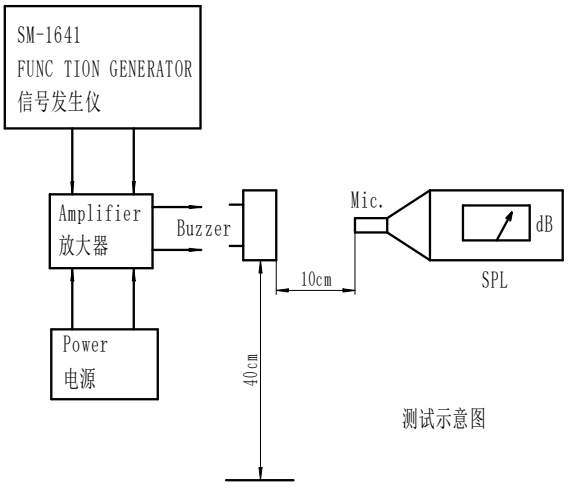
2.电气和声学测试条件/Electrical And Acoustical Measuring Condition

驱动电路/Recommended Driving Circuit **设置 Recommended Setting**

Resonant frequency, 1/2 duty cycle. Square wave.
Signal amplitude should be large enough tosaturate the transistor.



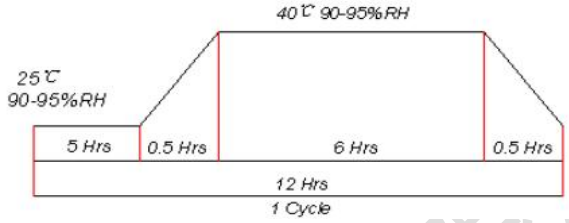
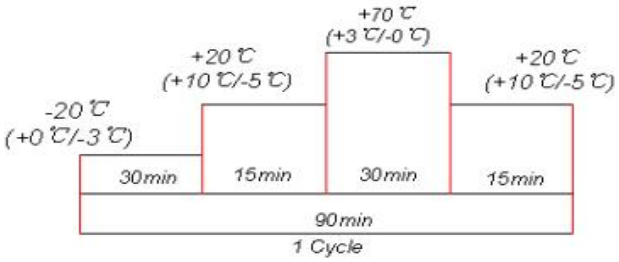
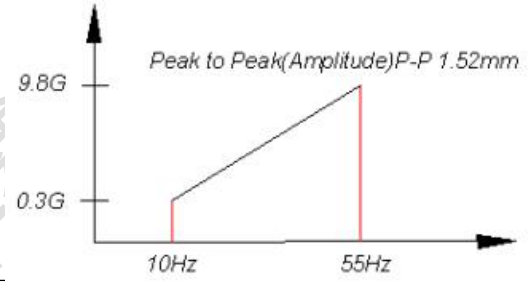
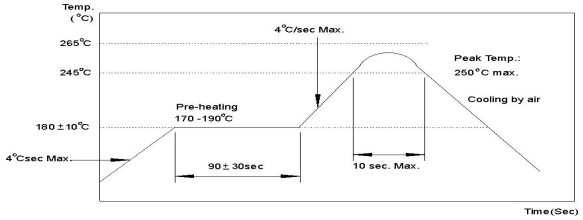
注：*建议在芯片电源输入端增加1uF电源滤波电容。



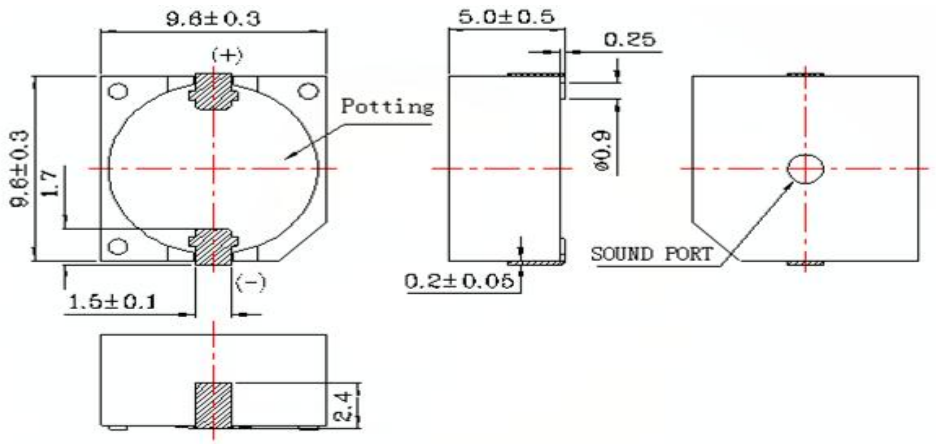
测试示意图

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3.可靠性测试/Reliability Test

	项目 ITEM	测试方法 TEST
1	高温试验 High Temperature Test	在+80℃±2℃储存温度下存放 96 小时，恢复 2 小时后测试 After being placed in a chamber with +80±2℃ for 96 hours and then being placed in normal condition for 2 hours
2	低温试验 Low Temperature Test	在-20℃±2℃储存温度下存放 96 小时，恢复 2 小时后测试 After being placed in a chamber with -20±2℃ for 96 hours and then being placed in normal condition for 2 hours
3	恒定湿热试验 Humidity Test	
4	温度变化试验 Temperature Cycle Test	
5	振动试验 Vibration Test	
6	跌落试验 Drop Test	70cm 高自由掉落到 40mm 的木板上，每个方向三次 Drop on a hard wood board of 40mm thick，any directions, three times, at the height of 70cm
7	插针的抗拉强度试验 Terminal Strength Pulling Test	插针承受 1.0kg 拉力，负荷时间 5s The force 5 seconds of 1.0kg is applied to each terminal.
8	可焊性试验 Solder ability Test	焊锡温度 255±5℃，浸润时间为 3±0.5s，试验后目测产品情况 Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of 255±5℃ for 3±0.5 seconds.
9	回流焊测试 Soldering Test	

4.尺寸图 Dimension

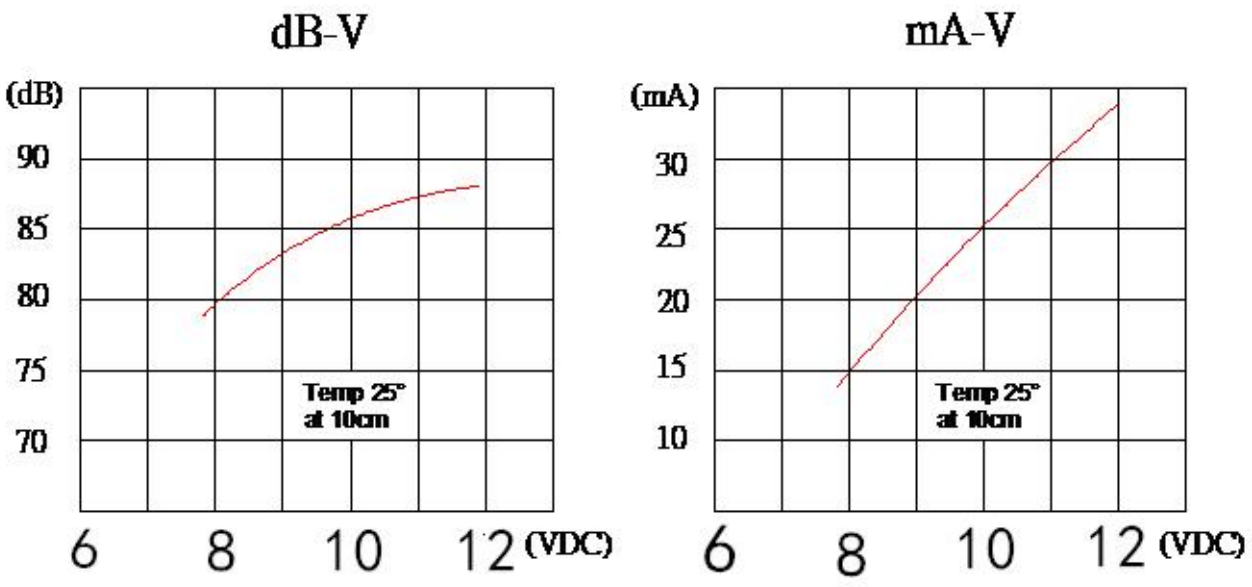


*Unit: mm; Tolerance: ±0.3mm Except Specified

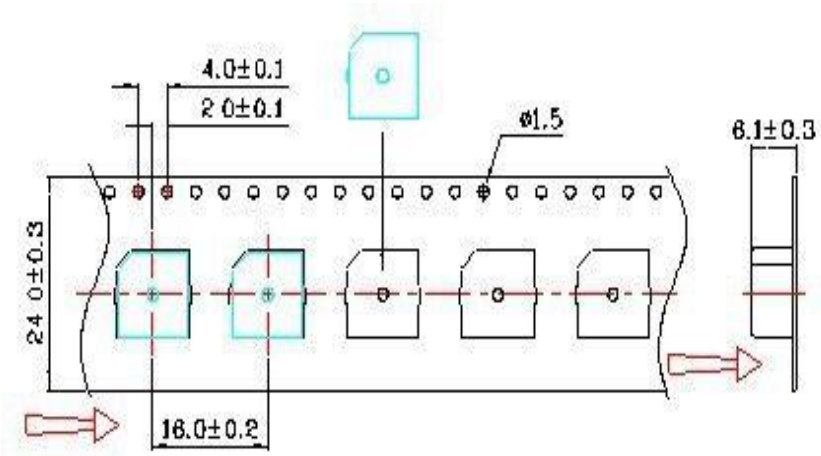
*Housing Material: Black LCP

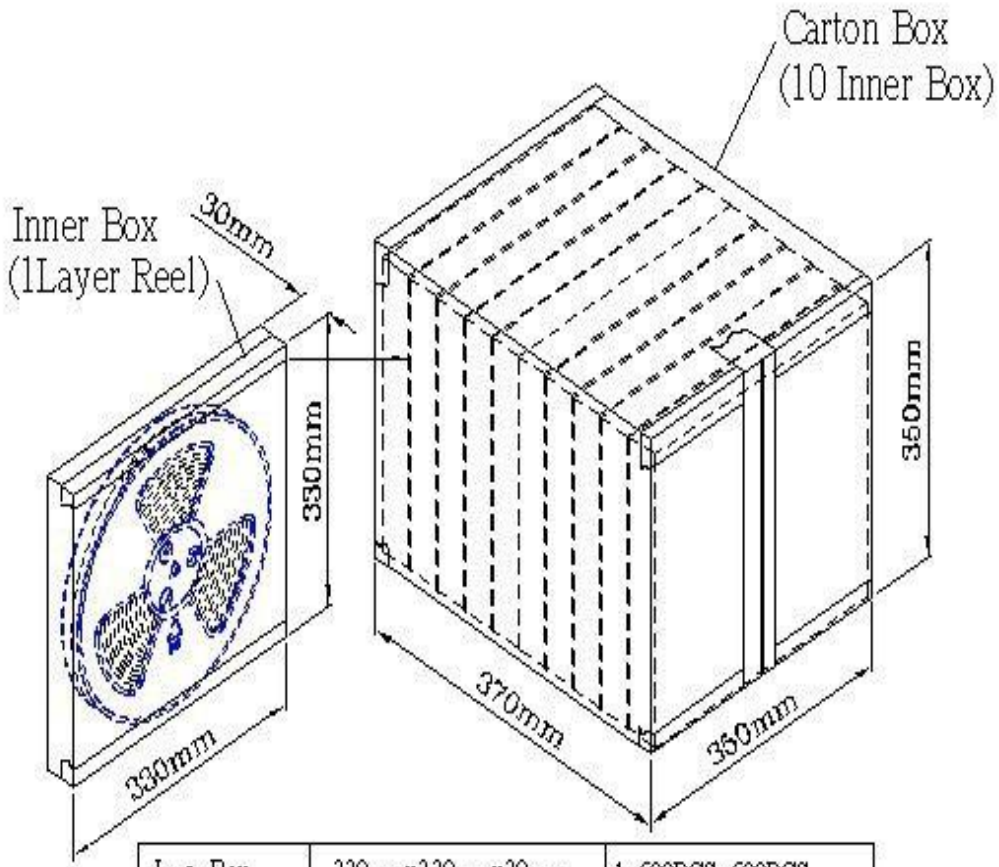
5.1 Soldering pattern

5.2 频率响应/Frequency Response



6.包装方式/Packing





Inner Box	330mmx330mmx30mm	1x600PCS=600PCS
Carton Box	350mmx350mmx370mm	10x600PCS=6,000PCS