



# 产品规格书 PRODUCT SPECIFICATION

客户名称 CUSTOMER: \_\_\_\_\_

产品型号 MODEL:       HNT-9042-05      

客户型号 USER'S MODEL: \_\_\_\_\_

日期 DATE:       2019-12-12      

江苏华能电子有限公司 HUAWHA			客户回签 CUSTOMER		
SERVE RATITY			CUSTOMER RATIGY		
拟制 REPORT	审核 CHECKED	批准 APPROVED	检验 TEST	审核 CHECKED	批准 APPROVED
唐华萍	工稿萍用章	张长华			

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**1.基本规格/General specification**

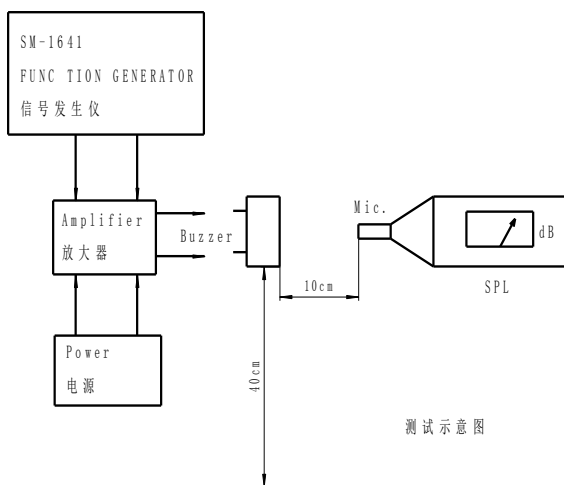
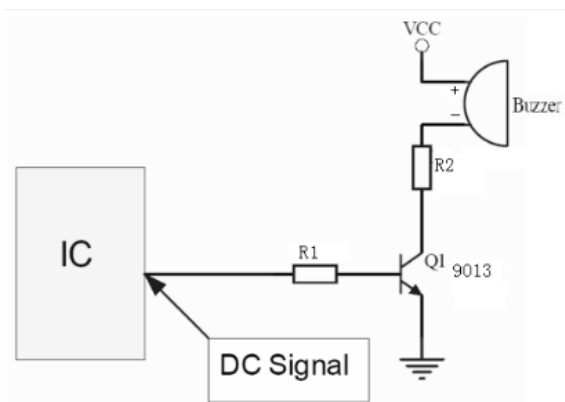
项目/Item		规格/Spec	条件/Condition
1	额定电压 Rated voltage	5VDC	
2	工作电压 Operation voltage	4~6VDC	
3	声压 Sound Pressure Level=SPL	Min 85dB	测试环境：标准状态，标准驱动电路， 额定电压 测试距离：0.1m Standard State,Standard Drive Circuit. Rated voltage,Distance at 0.1m
4	电流 current	Max30mA	
5	振荡频率 Oscillation frequency	2700±100Hz	
6	工作温度范围 Operating Temperature	-20~+70℃	
7	保存温度范围 Storage temperature	-40~+85℃	
8	外部尺寸 Externals size (mm)	Φ9.0*4.2	参阅附图 Refer to the attached drawing
9	重量 Mass	0.7g	
10	材质 Housing Material	PBT	

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

<标准驱动电路>/<Standard Drive Circuit>

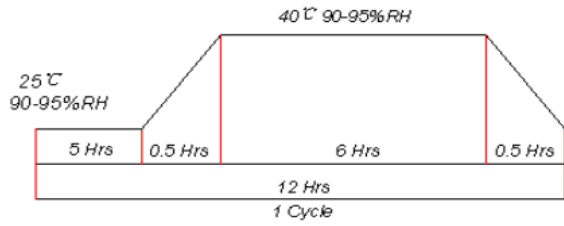
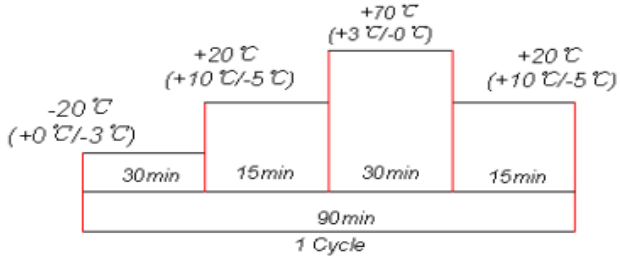
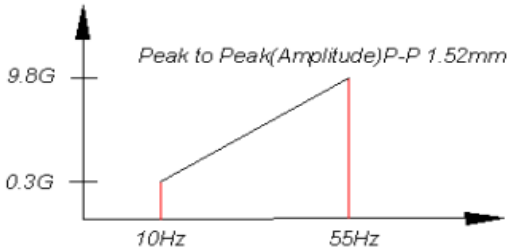
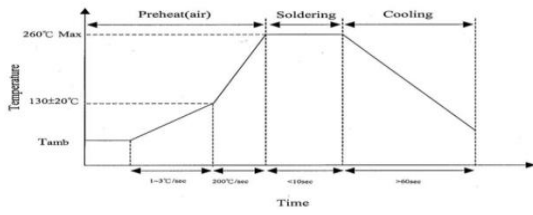
<标标测试治具>/<Standard Test Fixture>

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

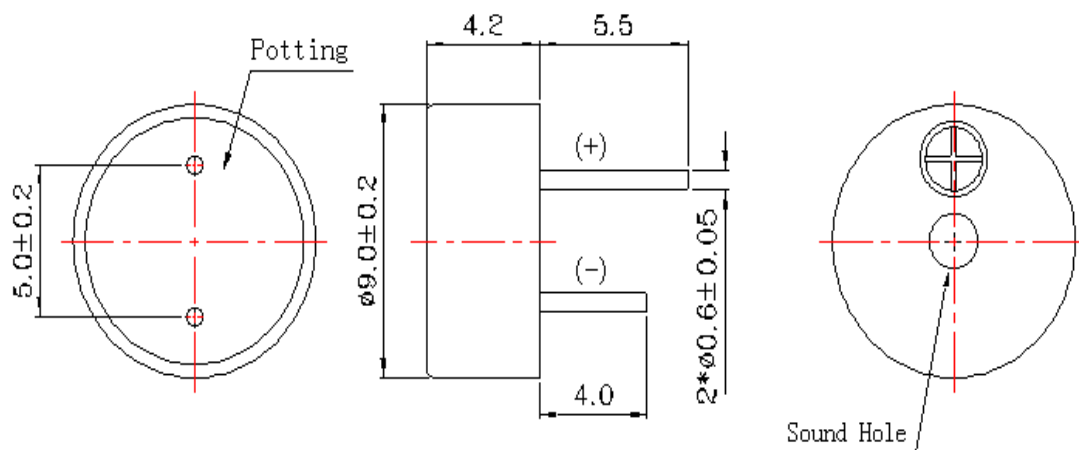


测试示意图

**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	 <p>The diagram shows a humidity test cycle. It starts at 25°C 90-95%RH for 5 hours. Then it ramps up to 40°C 90-95%RH in 0.5 hours. It stays at 40°C 90-95%RH for 6 hours. Then it ramps down to 25°C 90-95%RH in 0.5 hours. The total cycle time is 12 hours.</p>
4	温度变化试验 Temperature Cycle Test	 <p>The diagram shows a temperature cycle test. It starts at -20°C (+0°C/-3°C) for 30 minutes. Then it ramps up to +20°C (+10°C/-5°C) in 15 minutes. It stays at +20°C for 30 minutes. Then it ramps up to +70°C (+3°C/-0°C) in 15 minutes. It stays at +70°C for 30 minutes. Then it ramps down to +20°C (+10°C/-5°C) in 15 minutes. The total cycle time is 90 minutes.</p>
5	振动试验 Vibration Test	 <p>The diagram shows a vibration test profile. The vertical axis is acceleration in G, with marks at 0.3G and 9.8G. The horizontal axis is frequency in Hz, with marks at 10Hz and 55Hz. The profile starts at 0.3G at 10Hz and ramps up to 9.8G at 55Hz. The peak-to-peak amplitude is 1.52mm.</p>
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	波峰焊试验 Soldering Test	 <p>The diagram shows a soldering test profile. The vertical axis is Temperature and the horizontal axis is Time. The profile starts at Tamb, ramps up to 130±20°C at 1-3°C/sec, then ramps up to 260°C Max at 200°C/sec. It stays at 260°C Max for &lt;10sec. Then it ramps down to Tamb at &gt;40sec.</p>

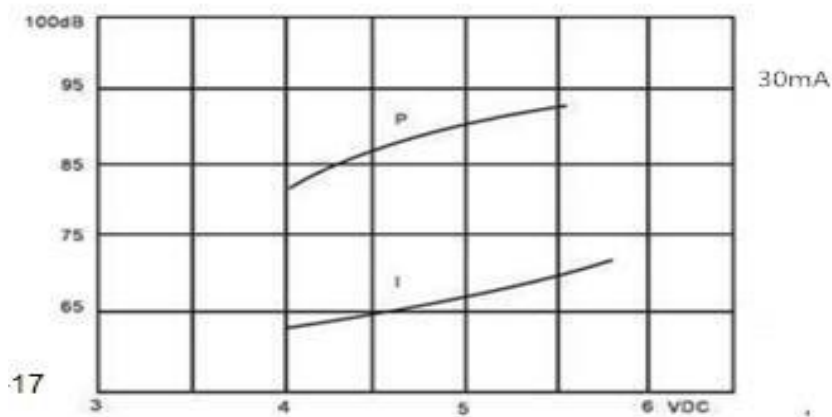
#### 4. 尺寸图 Dimension



\*Unit: mm; Tolerance:  $\pm 0.3$ mm Except Specified

\*Housing Material: Black PBT

#### 5. 频率响应/Frequency Response



5Vo-p 50% duty Square wave, 10cm

### 5.包装 picking

