



产品规格书

PRODUCT SPECIFICATION

客户名称 CUSTOMER: _____

产品型号 MODEL: MLT-9032

客户型号 USER'S MODEL: _____

日期 DATE: 2022-11-30

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

江苏华能电子有限公司

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1.基本规格/General specification

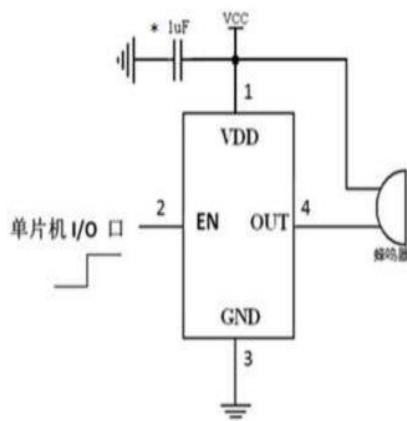
项目/Item		规格/Spec	条件/Condition
1	额定电压 Rated voltage	3.6Vo-p	
2	工作电压 Operation voltage	2~4Vo-p	
3	声压 Sound Pressure Level=SPL	85dB	测试环境：标准状态，标准驱动电路， 额定电压 测试距离：0.1m Standard State,Standard Drive Circuit. Rated voltage,Distance at 0.1m
4	电流 current	Max90mA	
	阻抗 Coil Resistance	16±5 Ω	
5	振荡频率 Oscillation frequency	2700HZ	
6	工作温度范围 Operating Temperature	-20~+85℃	声压 ≥85dB SPL ≥85dB
7	保存温度范围 Storage temperature	-30~+85℃	
8	外部尺寸 Externals size (mm)	9.0*3.2	参阅附图 Refer to the attached drawing
9	重量 Mass	1g	
10	材质 Housing Material	LCP	

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

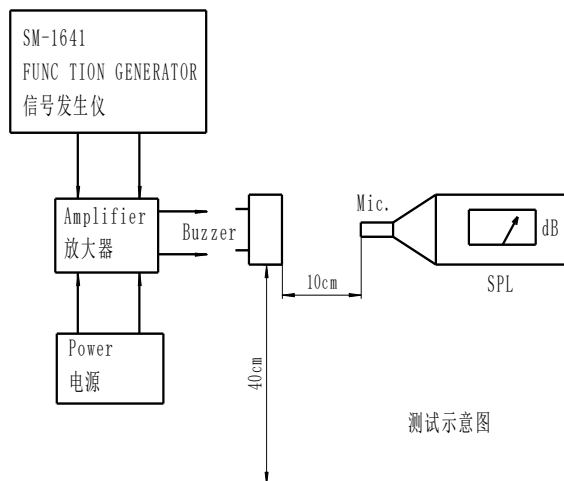
驱动电路/Recommended Driving Circuit

设置 Recommended Setting

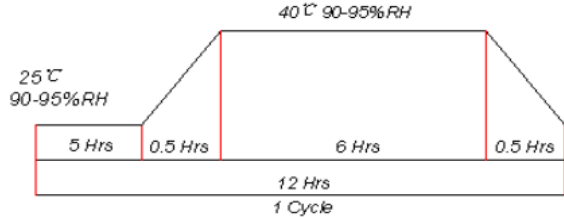
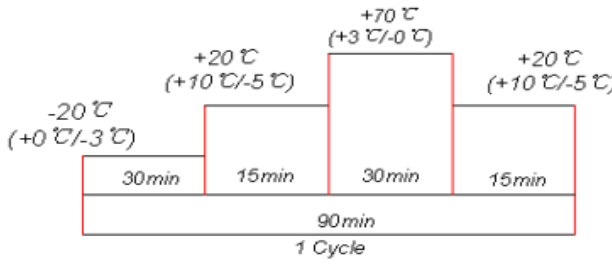
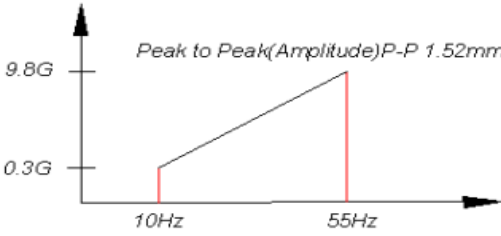
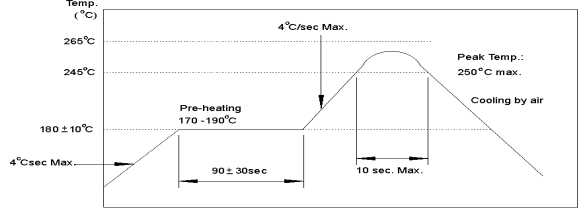
Resonant frequency, 1/2 duty cycle. Square wave.
Signal amplitude should be large enough to saturate the transistor.



注：*建议在芯片电源输入端增加1uF电源滤波电容。

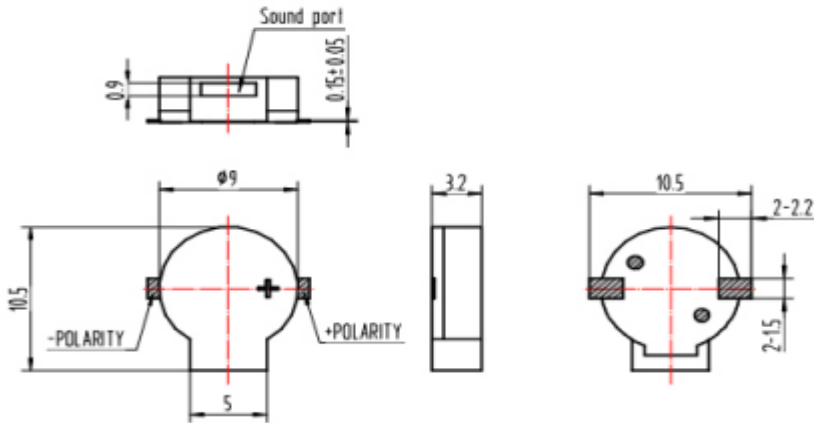


3.可靠性测试/Reliability Test

	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 with a 5-hour dwell at 25°C and 90-95%RH. This is followed by a 0.5-hour ramp up to 40°C and 90-95%RH. The test then holds at 40°C and 90-95%RH for 6 hours. Finally, there is a 0.5-hour ramp down. The total duration of one cycle is 12 hours.</p>
4	温度变化试验 Temperature Cycle Test	 <p>The diagram illustrates a temperature cycle test. It begins with a 30-minute dwell at -20°C (+0°C/-3°C). This is followed by a 15-minute ramp up to +20°C (+10°C/-5°C). The test then holds at +20°C for 30 minutes. Next, there is a 15-minute ramp up to +70°C (+3°C/-0°C). The test holds at +70°C for 30 minutes. Finally, there is a 15-minute ramp down to +20°C (+10°C/-5°C). The total duration of one cycle is 90 minutes.</p>
5	振动试验 Vibration Test	 <p>The diagram shows a vibration test profile. The vertical axis represents acceleration in G, with markers at 0.3G and 9.8G. The horizontal axis represents frequency in Hz, with markers at 10Hz and 55Hz. The profile starts at 0.3G at 10Hz and ramps up linearly to 9.8G at 55Hz. The peak-to-peak amplitude (P-P) 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	回流焊测试 Soldering Test	 <p>The diagram shows the temperature profile for a soldering test. The vertical axis is temperature in °C, with markers at 180±10°C, 245°C, and 266°C. The horizontal axis is time in seconds. The profile starts with a pre-heating phase at 170-190°C for 90±30 seconds. This is followed by a ramp up at a maximum rate of 4°C/sec to 245°C. The test then holds at 245°C for 10 seconds maximum. Finally, there is a cooling phase by air. The peak temperature is 250°C maximum.</p>

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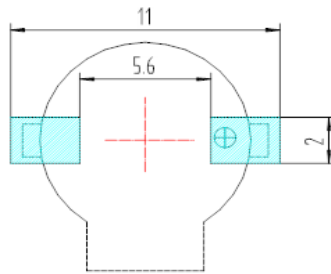
4.尺寸图 Dimension



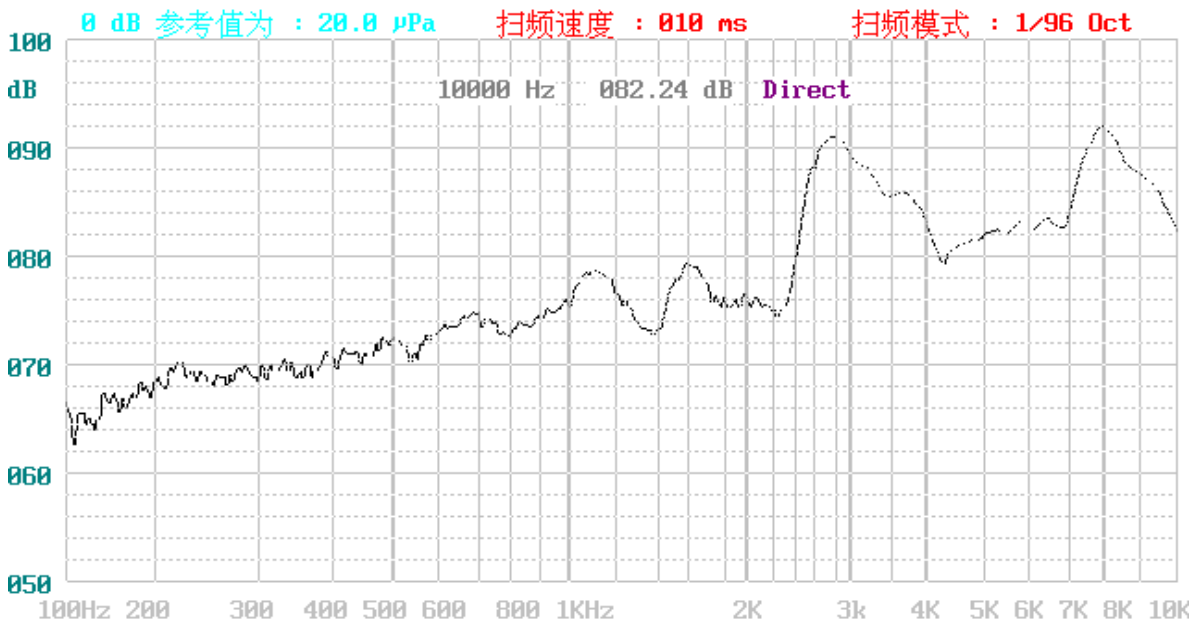
*Unit: mm; Tolerance: $\pm 0.3\text{mm}$ Except Specified

*Housing Material: Black LCP

5.1 Soldering pattern



5.2 频率响应/Frequency Response



3.6Vo-p 50% duty Square wave,10cm

6.包装方式/Packing

