

规格书

Specification

品名
Model name

HYT-1212C

PROPRIETARY
Huayu Electronic co.,Ltd.

CONFIDENTIAL
Huayu Electronic co.,Ltd.

| | |
|----------------|---|
| Version # | Spec V1.0 |
| 制作日期 Date | 2015/7/3 |
| 准备 Prepared | Yi Shen Acoustic specialist,R&D Dept. |
| 承认 Approved | Qian Baolong Executive Manager,R&D Dept. |



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1.适用范围：本规范适用于 HYT-1212C 蜂鸣器。

This specifications apply the HYT-1212C buzzer.

2.基本规格/General specification

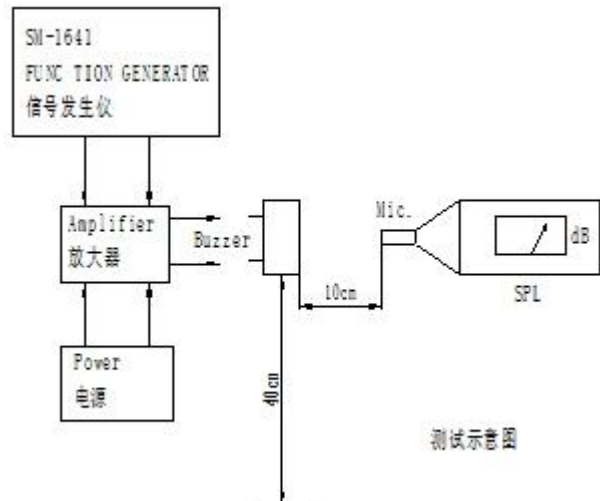
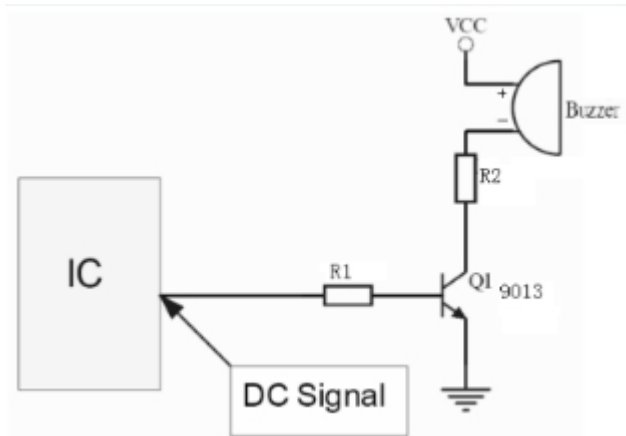
| 项目/Item | 规格/Spec | 条件/Condition |
|--|------------|--|
| 1 额定电压 Rated voltage | 12VDC | |
| 2 工作电压 Operation voltage | 9~15VDC | |
| 3 声压 Sound Pressure Level=SPL | Min 85dB | 测试环境：标准状态，标准驱动电路，额定电压 |
| 4 平均消费电流 Average consumption current | Max 30mA | 测试距离：0.1m |
| 5 振荡频率 Oscillation frequency | 2900±300Hz | Standard State,Standard Drive Circuit. Rated voltage,Distance at 0.1m |
| 6 响应时间 Response time | Max 50mS | |
| 7 工作温度范围 Range of operation temperature | -30~+80°C | |
| 8 保存温度范围 Range of preservation temperature | -40~+80°C | |
| 9 端子强度 Terminal strength | 10N | 拉负荷方向的终端轴 Pull load on the direction of the terminal axis |
| 10 外部尺寸 Externals size | Φ12x6.5 | 参阅附图 Refer to the attached drawing |
| 11 重量 Mass | 1.8g | |

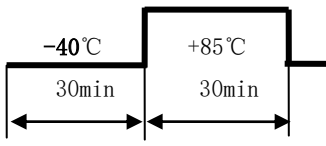
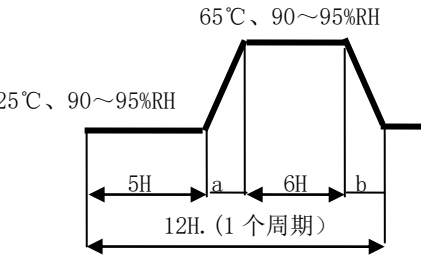
3. 电气和声学测试条件/Electrical And Acoustical Measuring Condition

驱动电路/Recommended Driving Circuit

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

设置 Recommended Setting

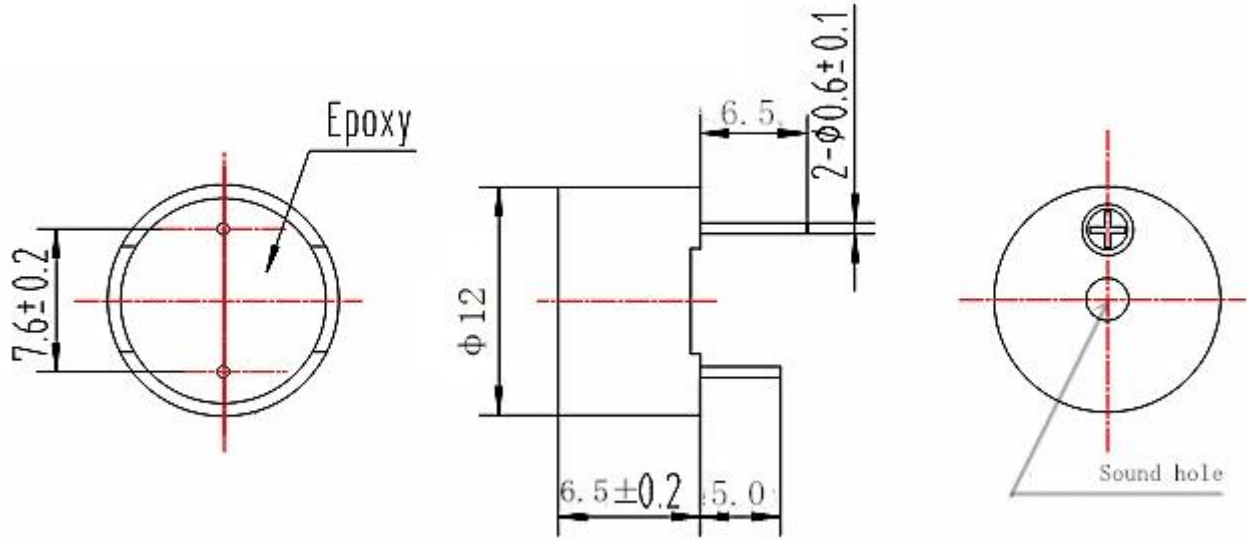


| 项目/Item | 试验条件/Test condition | 判断标准/Criteria | 引用规格 |
|---|---|---|----------------------------------|
| 1 高温保存试验 High temperature Preservation | +85℃环境下放置 96 小时 Exposure to +85℃ for 96 hrs. | 经过测试,符合规格,没有任何不合格的外观和性能,除了是 80 分贝或以上 (2900±300 Hz) After the test the part shall meet specifications without any degradation in appearance and performance except SPL. SPL shall be 80 dB More. (at 2900±300 Hz) | GB/T 2423.2 |
| 2 低温保存试验 Low temperature preservation | -40℃环境下放置 96 小时 Exposure to -40℃ for 96 hrs. | | GB/T 2423.1 |
| 3 耐温试验 Thermal Shock |  10 次周期 10 cycles | | GB/T 2423.4 |
| 4 温湿度试验 Thermal, Humidity Shock |  10 cycles | | |
| 5 常温寿命试验 Ordinary Temp. Life | 常温 (25℃±10℃) 电压 12VDC 连续测试 1000 小时 Driving the sounder at 12VDC for 1000hrs in the room temperature (25℃±10℃) | | |
| 6 高温寿命试验 High Temp. Life | 高温 (+85℃) 电压 12VDC 连续测试 500 小时 Driving the sounder at 12VDC for 500hrs in the low temperature (+85℃) | | |
| 7 低温寿命试验 Low Temp. Life | 低温 (-40℃) 电压 12VDC 连续测试 500 小时 Driving the sounder at 12VDC for 500hrs in the low temperature (-40℃) | | |
| 8 引脚拉力试验 Lead strength | 10N 的拉力在引脚上拉 10±1 秒 Pull load on the direction of the terminal axis for 10±1 sec. | | GB/T 2423.29 |
| 9 振动试验 Vibration | 10~55~10Hz 正弦波测试 1 分钟, 振幅 1.52mm 最大 91m/S ² X, Y, Z 三个方向每个 2 小时总计 6 小时 10~55~10Hz Sinewave, Sweep 1 min, Amplitude 1.52mm Max 91m/S ² X, Y, Z 3Direction 2hrs each, Total 6hrs | | GB/T 2423.10 |
| 10 自由掉落试验 Free drop | 70cm 高自由掉落到厚 40mm 的木板上, 每个方向一次 Free drop, 70cm height, on wood board (t40mm) X, Y, Z 3Direction 1time each, total 3times. | | 排除弯曲的针 Exclude bending of Pin |
| 11 波峰焊耐热试验 Solder heat resistance | 260±5℃焊接温度。浸泡时间 3±0.2sec Soldering into solderbath: Solder Temp. 260±5℃ Soaking Time: 3±0.2sec | 经过测试,符合规格,没有任何不合格的外观和性能 After the test the part shall meet specifications without any degradation in appearance and performance | GB/T 2423.28 |
| 12 耐洗性试验 Washability | 溶剂: 去离子水, 溶剂温度: 55±5℃, 浸泡时间: 5±0.5 分钟 Solvent: deionized water, Solvent temp: 55±5℃ Soaking time: 5±0.5 minutes | | |
| 13 引脚可焊性试验 Solderability | 40℃, 相对湿度 90~95%RH 放置 240 小时, 370±5℃焊接温度。 浸泡时间: 6±0.5sec。 Pretreatment: 40℃, 90~95%RH*240hrs Soldering into solderbath: Solder Temp. 370±5℃ Soaking Time: 6±0.5sec | 引脚 95% 必须覆盖着焊料 95% surface of lead pins must be covered with fresh solder and no soldering holes Should be found | GB/T 2423.28 |

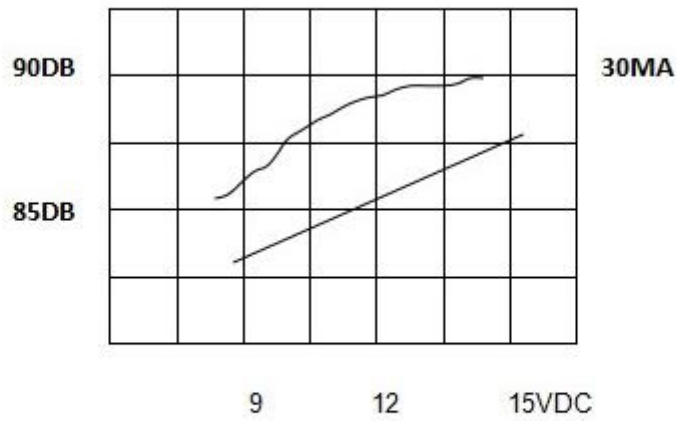
5. 尺寸图/Dimension

(UNT: mm)

Tolerance: $\pm 0.5\text{mm}$ Except Specified



6. 频率图/Frequency Curve



12Vo-p 50% duty Square wave, 10cm

7. 包装图/Packing Method



QTY:100PCS



QTY:1000PCS



QTY:5000PCS