

规格书 Specification

品名
Model name

HYT-09

PROPRIETARY
Huayu Electronic co.,Ltd.

CONFIDENTIAL
Huayu Electronic co.,Ltd.

| | |
|----------------|--|
| Version # | Spec V1.0 |
| 制作日期 Date | 2014/4/01 |
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兴化市华宇电子有限公司

Components Operating Div.
Huayu Electronic co.,Ltd.

1.适用范围：本规范适用于 HYT-09 蜂鸣器。

This specifications apply the HYT-09 buzzer.

2.基本规格/General specification

| 项目/Item | | HYT-0903 | HYT-0905 | HYT-0912 | 条件/Condition |
|---------|--|--------------------------|----------|----------|---|
| 1 | 额定电压 Rated voltage | 3VDC | 5VDC | 12VDC | |
| 2 | 工作电压 Operation voltage | 2~5VDC | 4~7VDC | 8~16VDC | |
| 3 | 声压 Sound Pressure Level=SPL | Min 85dB Typical 90dB | | | 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 | 平均消费电流 Average consumption current | Max 50mA | | | |
| 5 | 振荡频率 Oscillation frequency | 2900±300Hz | | | |
| 6 | 响应时间 Response time | Max 50mS | | | 最低工作电压 Lowest operation voltage |
| 7 | 工作温度范围 Range of operation temperature | -30~+80℃ | | | 声压 ≥75dB SPL ≥75dB |
| 8 | 保存温度范围 Range of preservation temperature | -30~+80℃ | | | |
| 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 | Φ9x5.5 | | | 参阅附图 Refer to the attached drawing |
| 11 | 重量 Mass | 2g | | | |

☆标准状态：常温（15~35℃），湿度（25~85%相对湿度），空气压力（860~1060hpa）

在假设的情况判断，测试是一基本状态下进行。

Standard State:Ordinary Temp(15~35℃),Humidity(25~85%RH),Air pressure(860~1060hPa)

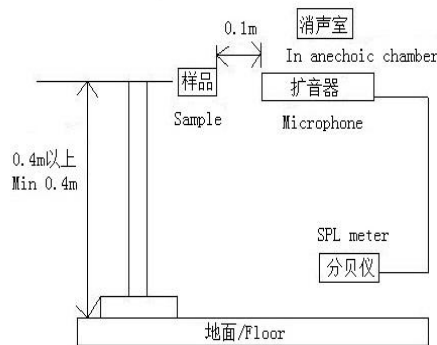
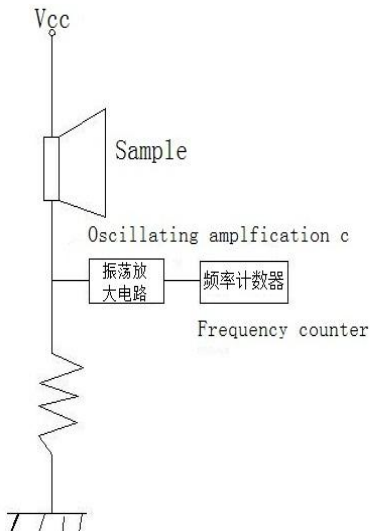
In case of doubtful judgment,the test is re—performed under Basic State.

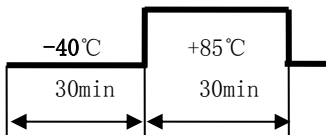
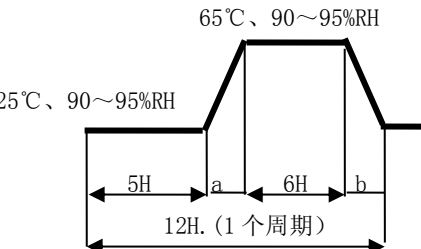
☆基本情况：温度。（20±2℃），湿度（60~70%相对湿度），空气压力（860~1060hpa）

Basic State: Temp.(20±2℃),Humidity(60~70%RH),Air pressure(860~1060hPa)

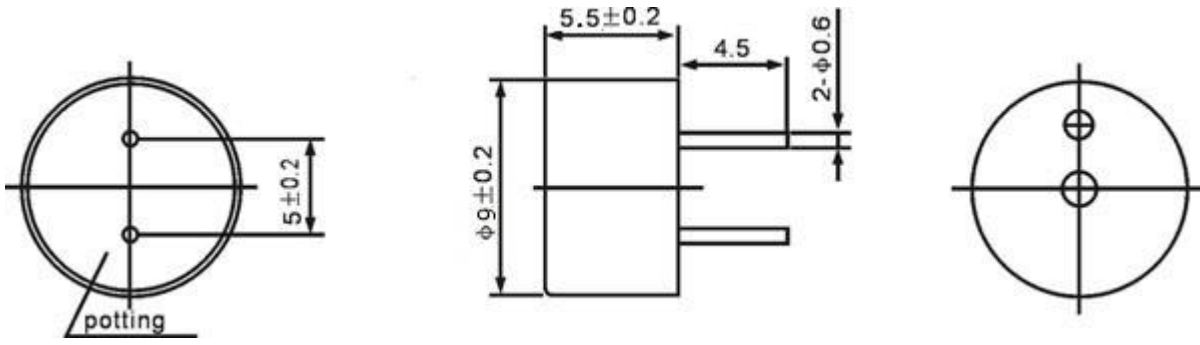
< 标准驱动电路 >/<Standard Drive Circuit>

< 标标测试治具 >/<Standard Test Fixture

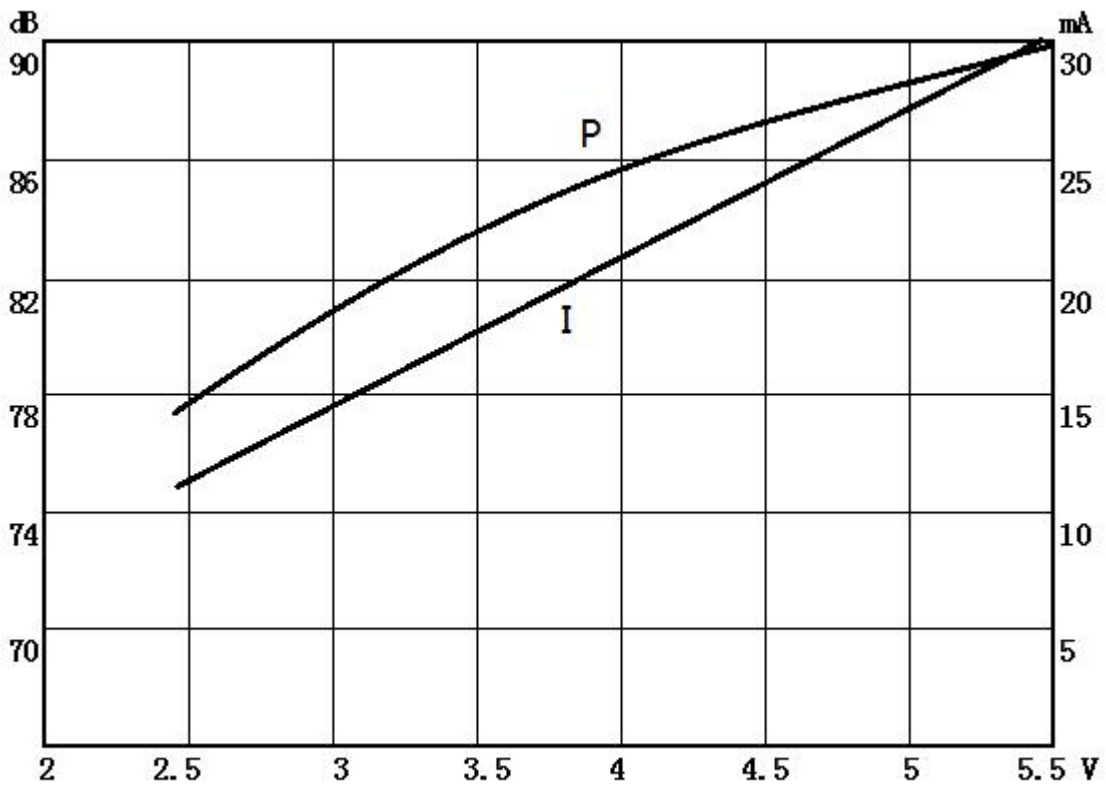


| 项目/Item | 试验条件/Test condition | 判断标准/Criteria | 引用规格 |
|--|---|---|-----------------|
| 1 高温保存试验 High temperature Preservation | +85℃环境下放置 96 小时 Exposure to +85℃ for 96 hrs. | 经过测试,符合规格,没有任何不合格的外观和性能,除了是 80 分贝或以上 (2300±400 Hz) After the test the part shall meet specifications without any degradation in appearance and performance except SPL. SPL shall be 80 dB More. (at 2300±400 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 5VDC 连续测试 1000 小时 Driving the sounder at 5VDC for 1000hrs in the room temperature (25℃±10℃) | | |
| 6 高温寿命试验 High Temp. Life | 高温 (+85℃) 电压 5VDC 连续测试 500 小时 Driving the sounder at 5VDC for 500hrs in the low temperature (+85℃) | | |
| 7 低温寿命试验 Low Temp. Life | 低温 (-40℃) 电压 5VDC 连续测试 500 小时 Driving the sounder at 5VDC 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 | GB/T 2423.8 |
| 11 波峰焊耐热试验 Solder heat resistance | 260±2℃焊接温度。浸泡时间 3±0.5sec Soldering into solderbath: Solder Temp. 260±2℃ Soaking Time: 3±0.5sec | 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 |

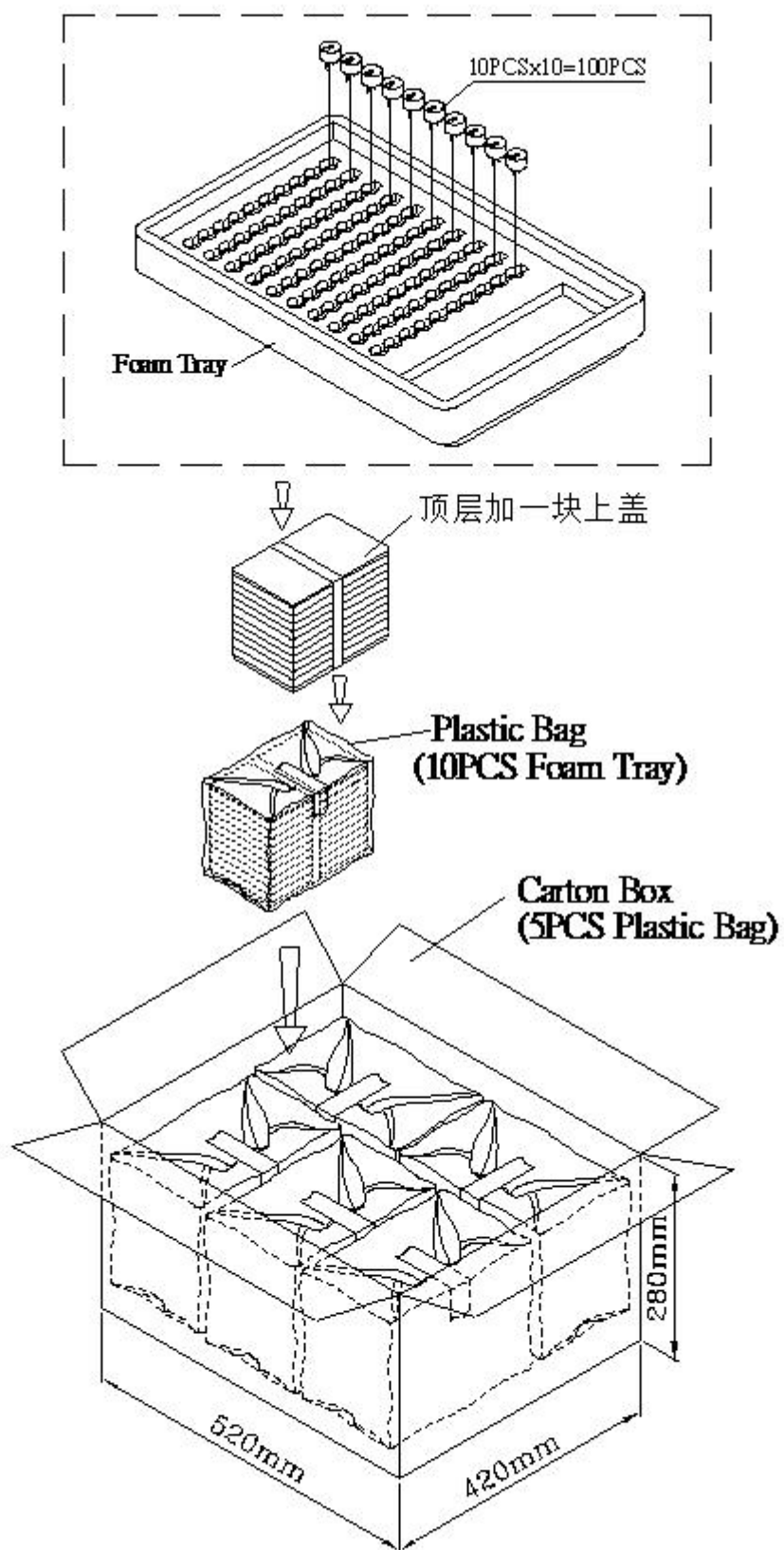
4. 尺寸图/Dimension



5. Frequency Curve 频率图



6. Packing Method/包装图



| | | |
|-------------|-------------------|--------------------|
| Foam Tray | 240mmx160mmx30mm | 1x100PCS=100PCS |
| Plastic Bag | | 10x100PCS=1000PCS |
| Carton Box | 520mmx420mmx280mm | 5x1000PCS=5,000PCS |