

规格书

Specification

品 名
Model name

YHE12

PROPRIETARY
Huayu Electronic co.,Ltd.

CONFIDENTIAL
Huayu Electronic co.,Ltd.

Version #	Spec V1.0
制作日期 Date	2014/4/01
准备 Prepared	Yi Shen Acoustic specialist,R&D Dept.
承认 Approved	Qian Wanjin Executive Manager,R&D Dept.



Components Operating Div.
Huayu Electronic co.,Ltd.

1.适用范围: 本规范适用于 YHE12 蜂鸣器。

This specifications apply the YHE12 buzzer.

2.基本规格/General specification

项目/Item		YHE12-03	YHE12-05	YHE12-12	YHE12-24	条件/Condition
1	额定电压 Rated voltage	3VDC	5VDC	12VDC	24VDC	
2	工作电压 Operation voltage	2~5VDC	4~7VDC	8~16VDC	16~28VDC	
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
4	平均消费电流 Average consumption current	Max 30mA				测试距离: 0.1m Standard State, Standard Drive Circuit.
5	振荡频率 Oscillation frequency	2300±300Hz				Rated voltage, Distance at 0.1m
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°C				声压 ≥75dB SPL≥75dB
8	保存温度范围 Range of preservation temperature	-30~+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	Φ12x9.5				参阅附图 Refer to the attached drawing
11	重量 Mass	2g				

☆标准状态: 常温 (15~35°C), 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。

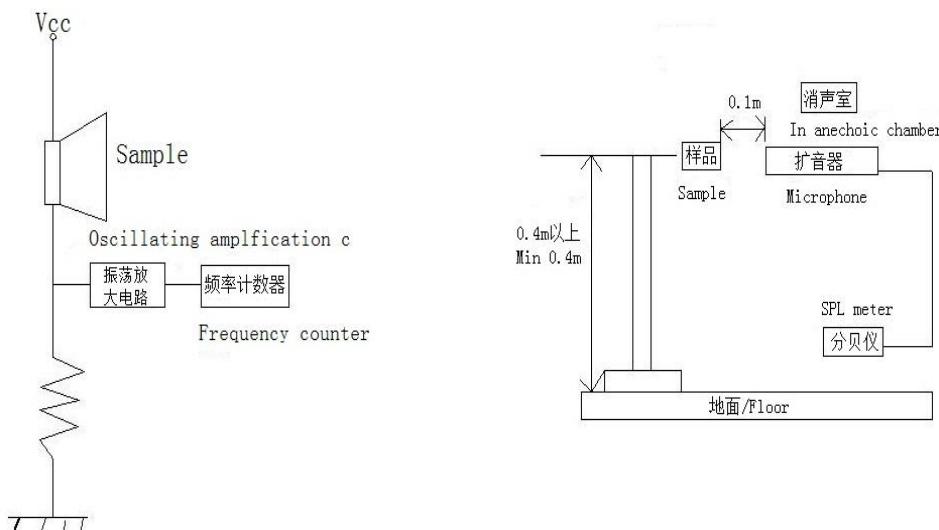
Standard State: Ordinary Temp(15~35°C), Humidity(25~85%RH), Air pressure(860~1060hPa)

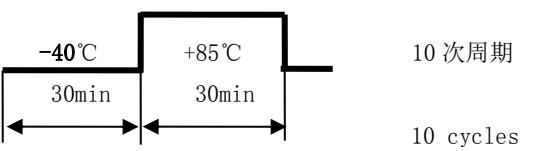
In case of doubtful judgment, the test is re—performed under Basic State.

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

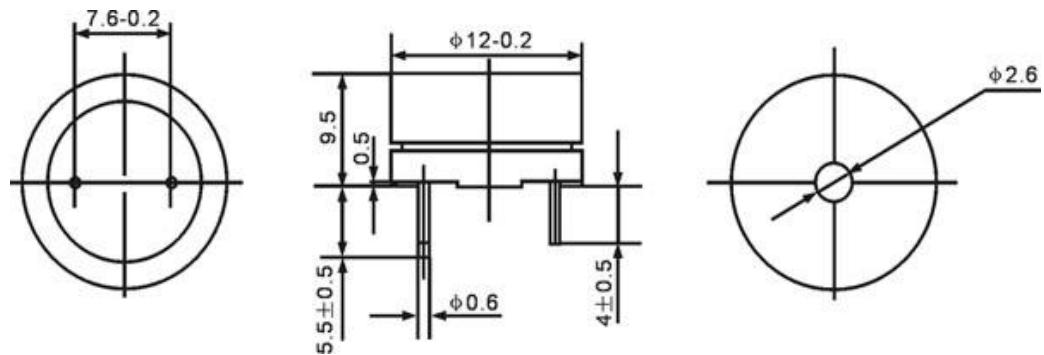
Basic State: Temp.(20±2°C), Humidity(60~70%RH), Air pressure(860~1060hPa)

< 标准驱动电路 >/< Standard Drive Circuit > < 标准测试治具 >/< Standard Test Fixture >

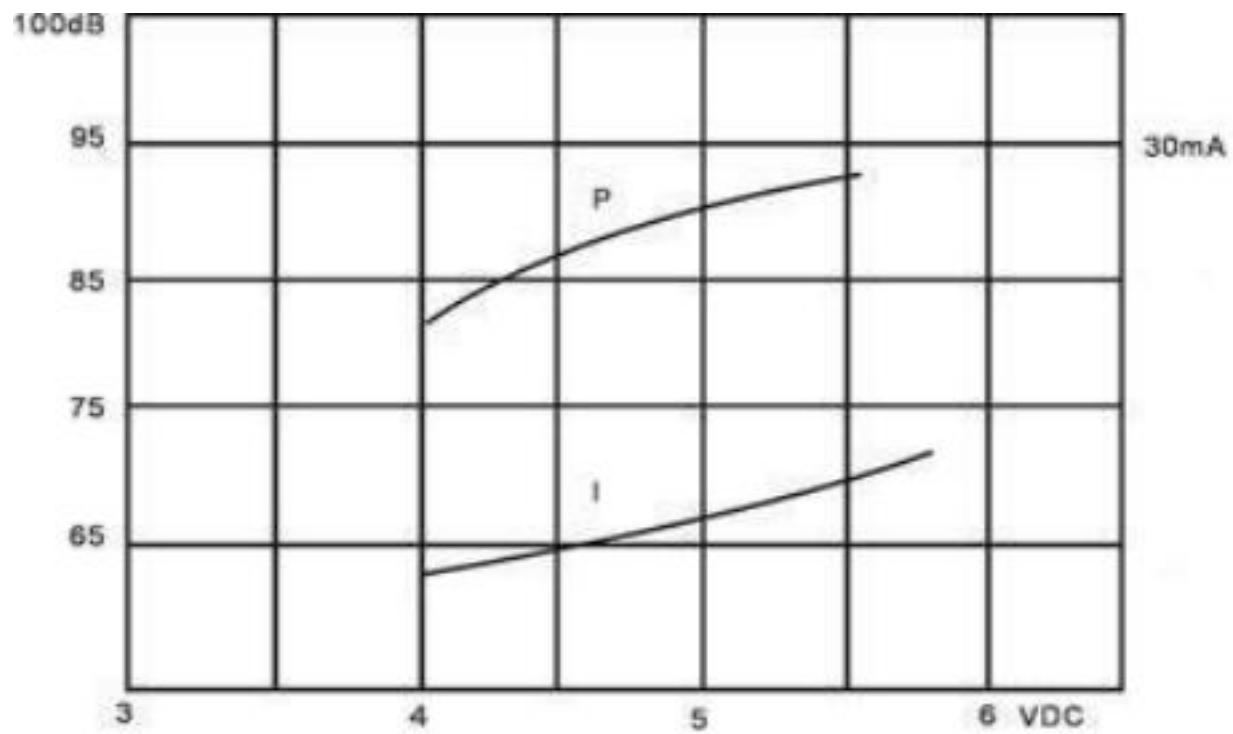


项目/Item	试验条件/Test condition	判断标准/Criteria	引用规格
1 高温保存试验 High temperature Preservation	+85°C环境下放置 96 小时 Exposure to +85°C for 96 hrs.	经过测试, 符合规格, 没有任何不合格的外观和性能, 除了是 80 分贝或以上 (2300±400 Hz)	GB/T 2423.2
2 低温保存试验 Low temperature preservation	-40°C环境下放置 96 小时 Exposure to -40°C for 96 hrs.	After the test the part shall meet specifications without any degradation in appearance And performance except SPL. SPL shall be 80 dB	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	 25°C、90~95%RH 65°C、90~95%RH a, b=0.5H 12H. (1 个周期) 10 cycles	More. (at 2300±400 Hz)	
5 常温寿命试验 Ordinary Temp. Life	常温 (25°C±10°C) 电压 5VDC 连续测试 1000 小时 Driving the sounder at 5VDC for 1000hrs in the room temperature (25°C±10°C)		
6 高温寿命试验 High Temp. Life	高温 (+85°C) 电压 5VDC 连续测试 500 小时 Driving the sounder at 5VDC for 500hrs in the low temperature (+85°C)		
7 低温寿命试验 Low Temp. Life	低温 (-40°C) 电压 5VDC 连续测试 500 小时 Driving the sounder at 5VDC for 500hrs in the low temperature (-40°C)		
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 Max91m/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	250±2°C 焊接温度。浸泡时间 3±0.5sec Soldering into solderbath:Solder Temp. 250±2°C 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°C, 浸泡时间: 5±0.5 分钟 Solvent:deionized water, Solvent temp:55±5°C Soaking time:5±0.5minutes		
13 引脚可焊性试验 Solderability	40°C, 相对湿度 90~95%RH 放置 240 小时, 370±5°C 焊接温度。 浸泡时间: 6±0.5sec. Pretreatment:40°C, 90~95%RH*240hrs Soldering into solderbath:Solder Temp. 370±5°C 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

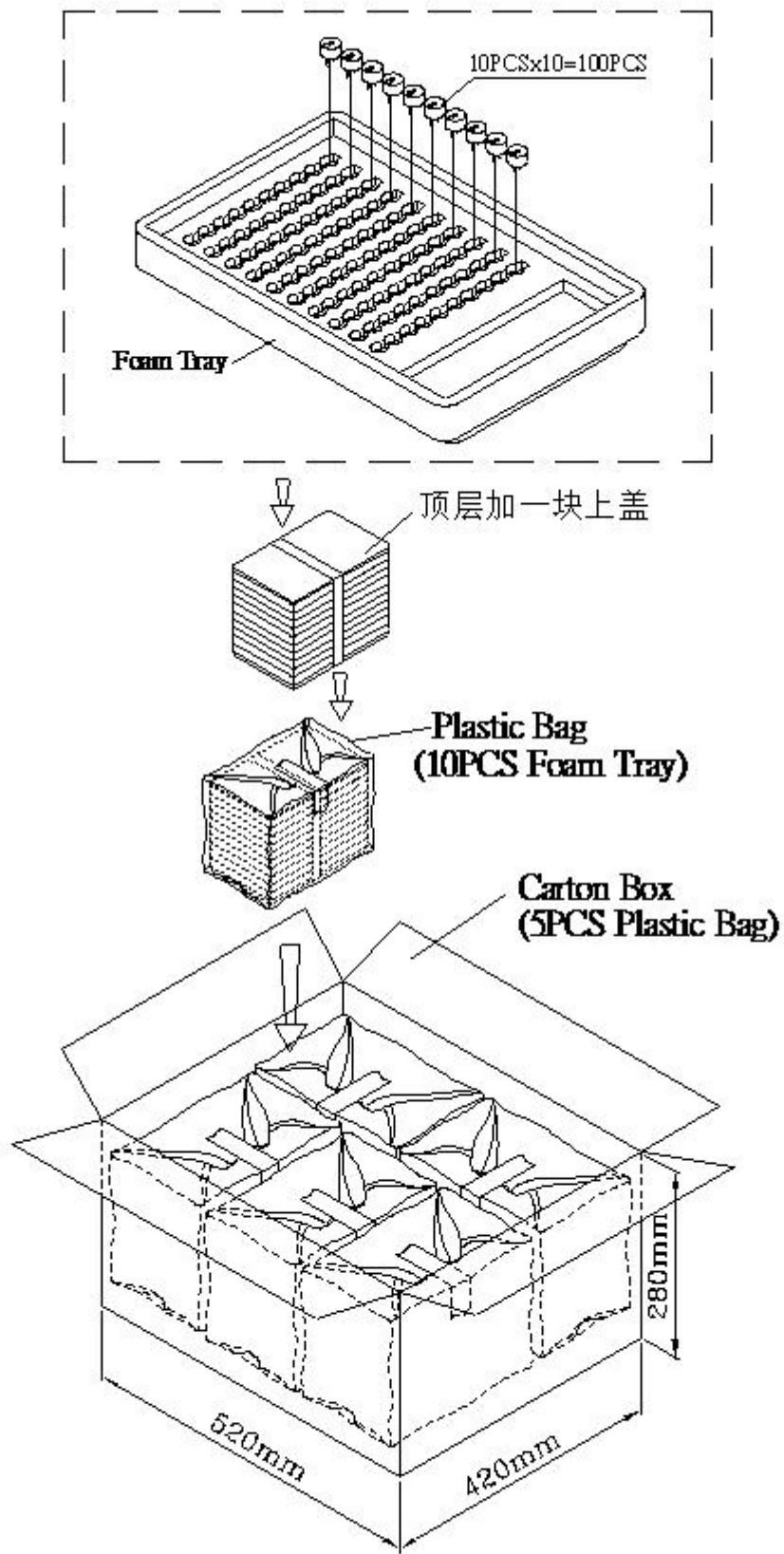
4. 尺寸图/Dimension



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