

规格书  
Specification

品名  
Model name

HNB09A12  
ROHS

**PROPRIETARY**  
Huaneng Electronic co.,Ltd.

**CONFIDENTIAL**  
Huaneng Electronic co.,Ltd.

Version #	Spec V1.0
制作日期 Date	2017/7/31
准备 Prepared	Yang shu yin Acoustic specialist,R&D Dept.
审核 Approved	Zhang chang hua Executive Manager,R&D Dept.



江苏华能电子有限公司

Components Operating Div.  
HuanengElectronic co.,Ltd.

2018/5/4

1.适用范围：本规范适用于HNB09A12 ROHS蜂鸣器。

This specifications apply the HNB09A05 ROHS 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	8~15VDC	
3	声压 Sound Pressure Level=SPL	Min 85dB	
4	平均消费电流 Average consumption current	Max 30mA	
5	振荡频率 Oscillation frequency	2700±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	-20~+70℃	声压 ≥80dB SPL ≥80dB
8	保存温度范围 Range of preservation temperature	-30~+85℃	
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	Φ9×5.5	参阅附图 Refer to the attached drawing
11	重量 Mass	0.7g	

☆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)

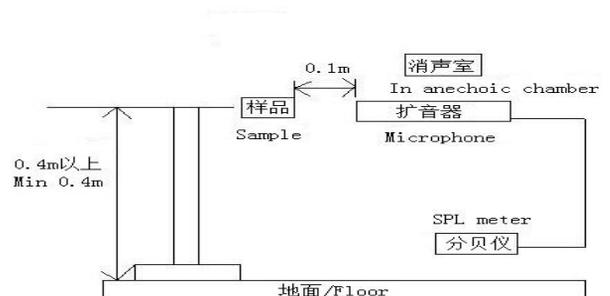
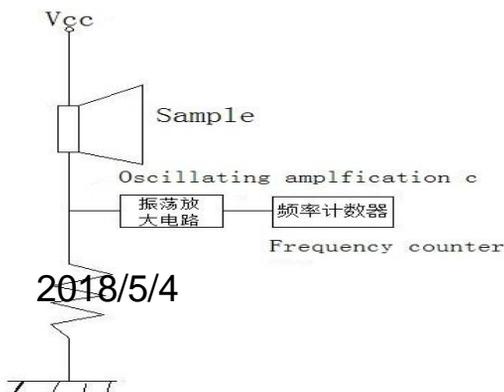
In case of doubtful judgment, the test is re-performed under Basic State.

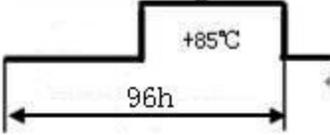
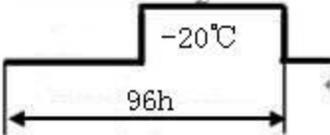
☆基本情况：温度。（20±2℃），湿度（60~70%相对湿度），空气压力（860~1060hpa）

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

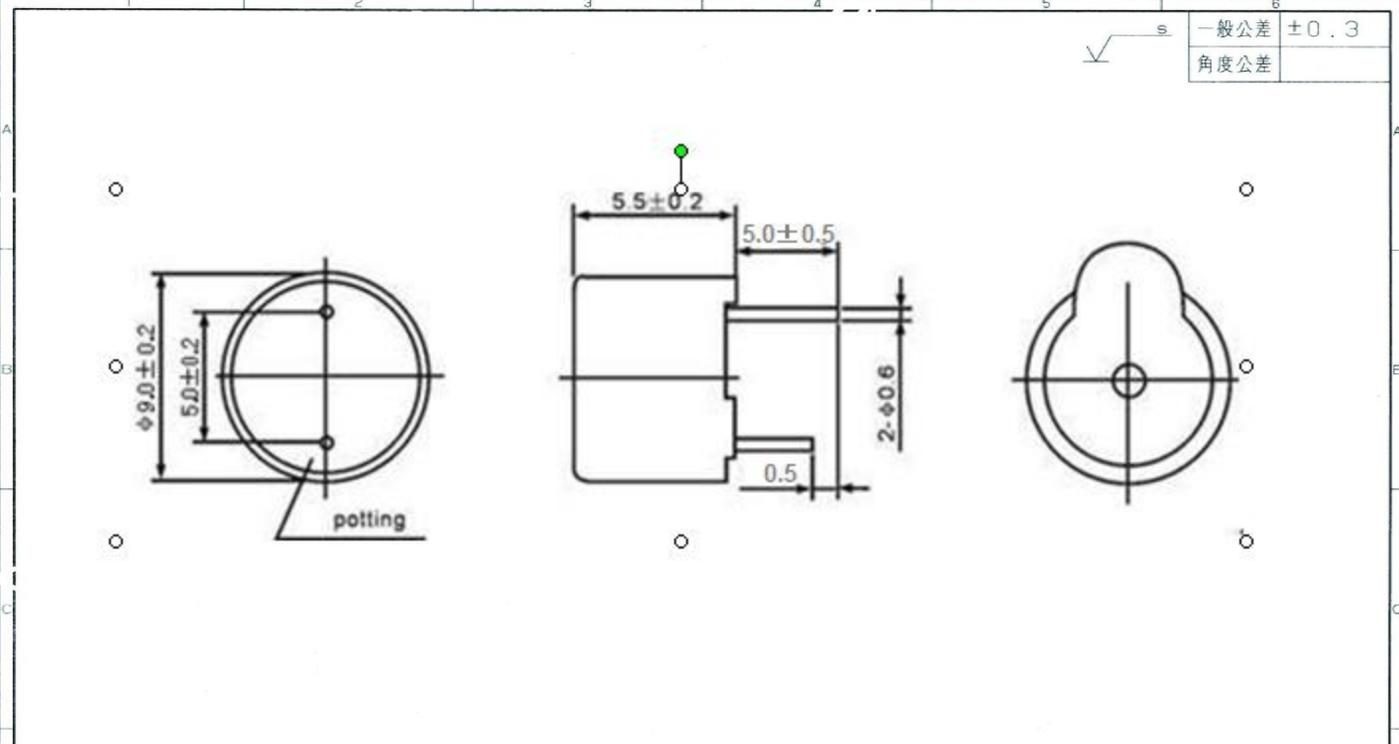
&lt;标准驱动电路&gt;/&lt;Standard Drive Circuit&gt;

&lt;标准测试治具&gt;/&lt;Standard Test Fixture&gt;



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24小时 Exposure to +85℃ for 24 hrs.	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.	
2 低温保存试验 Low temperature preservation	-20℃环境下放置24小时 Exposure to -20℃ for 24 hrs.		
3 高温试验 High temperature Shock			
4 低温试验 Low temperature Shock			
5 常温寿命试验 Ordinary Temp. Life	常温 (25℃±10℃) 电压12VDC连续测试48小时 Driving the sounder at 12VDC for 48hrs 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2小时 Driving the sounder at 12VDC for 2hrs in the low temperature (+85℃)		
7 低温寿命试验 Low Temp. Life	低温 (-20℃) 电压12VDC连续测试2小时 Driving the sounder at 12VDC for 2hrs in the low temperature (-20℃)		
8 端子拉力试验 Lead strength	10N的拉力在端子上拉10±1秒 Pull load on the direction of the terminal axis for 10±1 sec.		
9 跌落试验 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.		
10 端子可焊性试验 Solderability	260±5℃焊接温度。时间: 5±0.5sec。 Temp. 260±5℃ Soaking Time: 5±0.5sec	端子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	

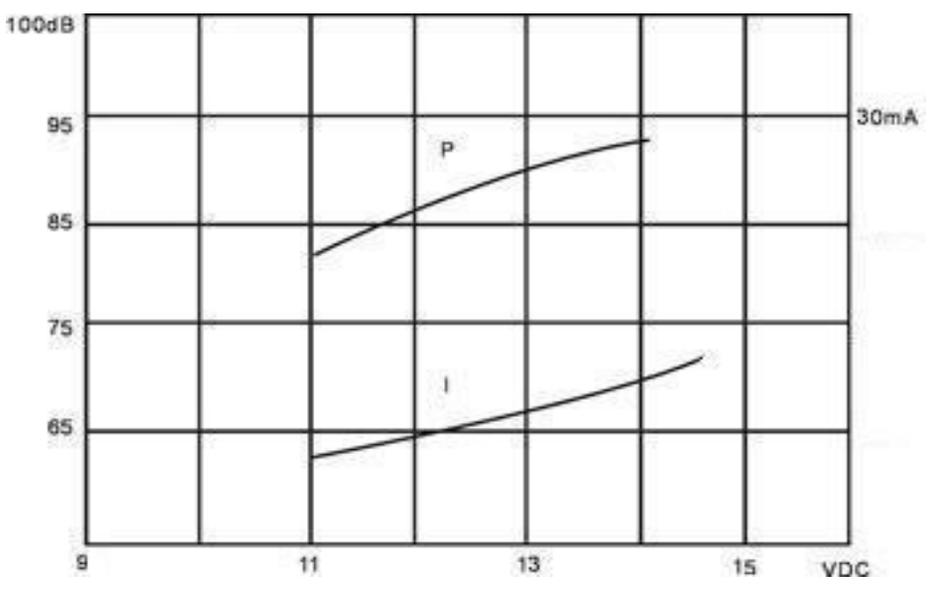
2018/5/4



一般公差	$\pm 0.3$
角度公差	

		审批 APPROVED	张长华	材料 MATERIAL	PP0料	制造日期 DATE	出图日期
		检查 CHECKED	杨树银	加工 TREATMENT		品名 NAME	APPEARANCE DRWG
		设计 DESIGNED		表面处理 SURF. FIN.			产品名称
		制图 DRAWN		第三角法	 尺度 2/1 mm SCALE	品号 CODE NO.	
日期 DATE	变更号码 CHANGE NO.	变更内容 CHANGE CONTENTS		江苏华能电子有限公司 HUANENG Electronic Co.Ltd			

产品特征图



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