

# 规格书

# Specification

品名  
Model name

TMB12A12

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

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

Version #	Spec V1.0
制作日期 Date	2018/5/4
准备 Prepared	Yang shu yin Acoustic specialist,R&D Dept.
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江苏华能电子有限公司

*Components Operating Div.  
Huaneng Electronic co.,Ltd.*

This specifications apply the TMB12A12 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	8~16VDC	
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 测试距离：0.1m Standard State, Standard Drive Circuit. Rated voltage, Distance at 0.1m
4	电流 current	≤ 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~+85°C	声压≥85dB SPL≥85dB
8	保存温度范围 Range of preservation temperature	-20~+85°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)

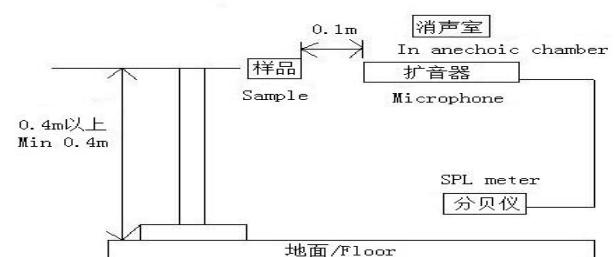
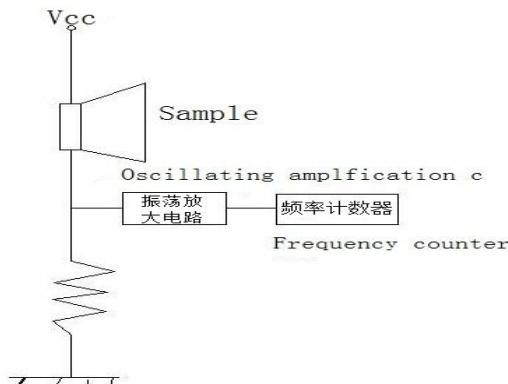
In case of doubtful judgment, the test is re—performed under Basic State.

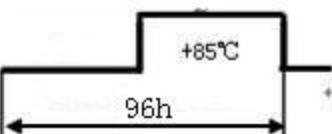
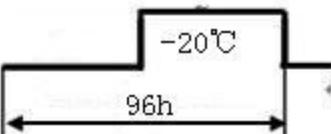
☆基本情况：温度。（20±2°C），湿度（60~70%相对湿度），空气压力（860~1060hpa）

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

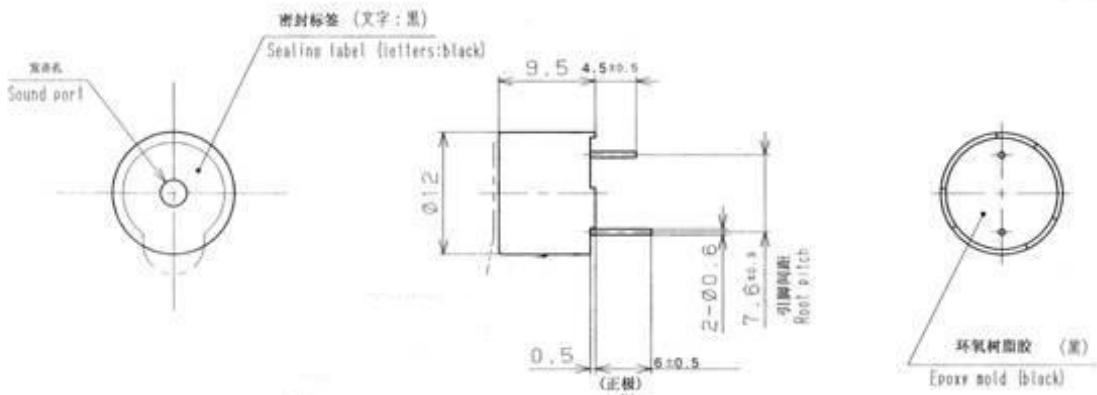
&lt;标准驱动电路&gt;/&lt;Standard Drive Circuit&gt;

&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°C环境下放置24小时 Exposure to +85°C 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 degra.	
2	低温保存试验 Low temperature preservation	-20°C环境下放置24小时 Exposure to -20°C 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°C±10°C) 电压12VDC连续测试48小时 Driving the sounder at 12VDC for 48hrs in the room temperature(25°C±10°C)		
6	高温寿命试验 High Temp. Life	高温(+85°C) 电压12VDC连续测试2小时 Driving the sounder at 12VDC for 2hrs in the low temperature(+85°C)		
7	低温寿命试验 Low Temp. Life	低温(-20°C) 电压12VDC连续测试2小时 Driving the sounder at 12VDC for 2hrs in the low temperature(-20°C)		
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.	排除弯曲的针 Exclude bending of Pin	
10	端子可焊性试验 Solderability	260±5°C 焊接温度。时间: 5±0.5sec。 Temp. 260±5°C 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	

一般公差	±0.3
角度公差	



			审批 APPROVED	张长华	材料 MATERIAL	PP0料			
			检查 CHECKED	杨树根	加工 TREATMENT				
			设计 DESIGNED		表面处理 SURFACE FIN.				
			制图 DRAWN		第三角法 THIRD ANGLE PROJECTION	尺度 SCALE 2/1 MM			
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 JIANGSU HUANENG ELECTRONICS CO.,LTD		品名 NAME	APPEARANCE DRWG	
								产品名称 Product Name	TMB12A12

## 产品特征图

