

规格书 Specification

品名
Model name

HND-2316

PROPRIETARY
Huaneng Electronic co.,Ltd.

CONFIDENTIAL
Huaneng Electronic co.,Ltd.

| | |
|----------------|--|
| Version # | Spec V1.0 |
| 制作日期 Date | 2019/5/17 |
| 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.
Huaneng Electronic co., Ltd.*

1.适用范围：本规范适用于HND-2316蜂鸣器。

This specifications apply the HND-2316 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 | 3~24VC | |
| 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 振荡频率 Oscillation frequency | 3000±500Hz | |
| 5 响应时间 Response time | Max 50mS | 最低工作电压 Lowest operation voltage |
| 6 工作温度范围 Range of operation temperature | -20~+80°C | 声压 ≥85dB SPL ≥85dB |
| 7 保存温度范围 Range of preservation temperature | -30~+85°C | |
| 8 引线强度 Terminal strength | 10N | 拉负荷方向的终端轴 Pull load on the direction of the terminal axis |
| 9 外部尺寸 Externals size | Φ23*16 | 参阅附图 Refer to the attached drawing |
| 10 重量 Mass | 8g | |

☆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)

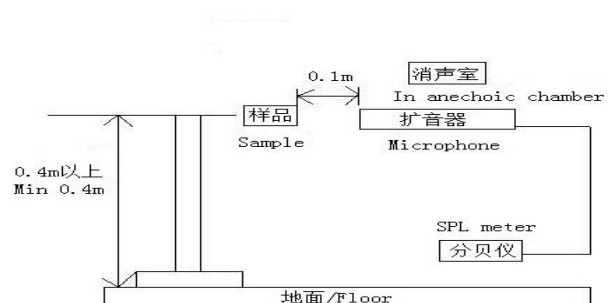
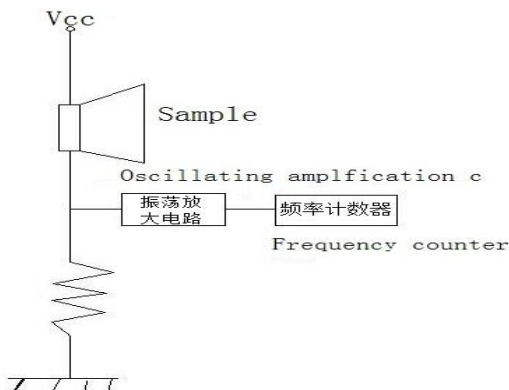
In case of doubtful judgment,the test is re-performed under Basic State.

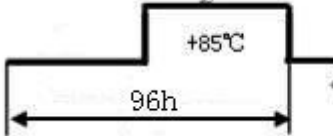
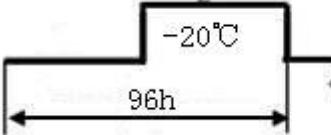
☆基本情况：温度。（20±2°C），湿度（60~70%相对湿度），空气压力（860~1060hpa）

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

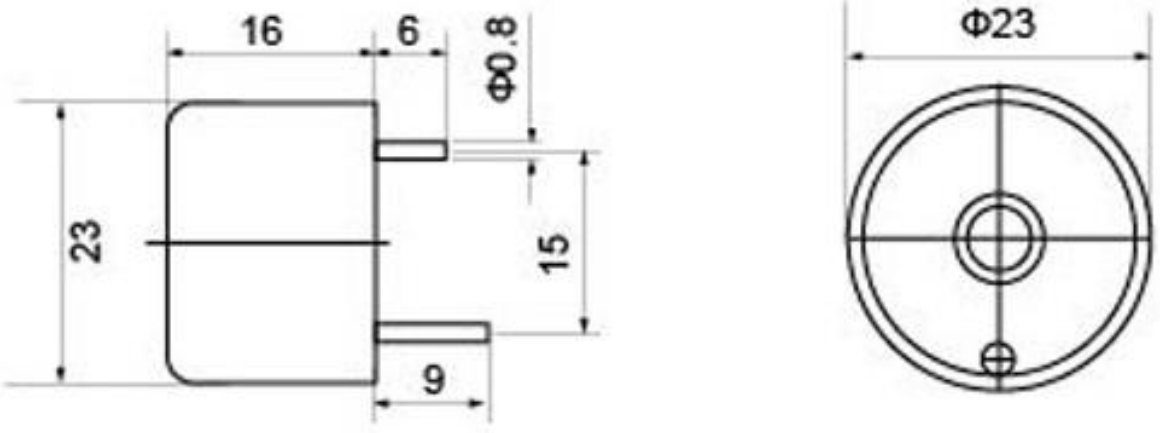
<标准驱动电路>/<Standard Drive Circuit>

<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℃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 -40℃ 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. | 排除弯曲的针 Exclude bending of Pin | |
| 10 | 端子可焊性试验 Solderability | 260±5℃焊接温度。时间: 5±0.5sec。 Soldering into solderbath:Solder 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 | |

√ s 一般公差 ±0.3
角度公差



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|------------|--------------------|-------------------------|-----|---|-------------|----------------|-----------------|
| | | 审批 APPROVED | 张长华 | 材料 MATERIAL | PPO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 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

