



深圳市兴华鑫电子科技有限公司

Shenzhen xinghuaxin Electronic Technology Co., Ltd

# 承認書

## SPECIFICATION FOR APPROVAL

客戶 (Customer):

客戶料號 (Customer P/N):

興華鑫型號 (Supplier P/N):

XHVDZ-TMB09A12

產品名稱 (Description):

蜂鸣器 (Buzzer)

產品規格 (Specification):

9\*5.5MM 12V 一体式

|                                                |                                        |     |     |
|------------------------------------------------|----------------------------------------|-----|-----|
| 客戶承認欄<br>(Customer Authorization<br>Signature) | 深圳市興華鑫電子科技有限公司 承認欄<br>(Supplier Audit) |     |     |
|                                                | 審核                                     | 檢查  | 制作  |
|                                                | 唐国兴                                    | 唐玉来 | 吴银娟 |
|                                                | 日期: 2022 年 04 月 19 日<br>版次: A          |     |     |

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地址: 深圳市宝安区新安街道新乐社区新乐路 88 号厂房四层

TEL: 0755-27892904 13652428659

QQ: 438730351 2993501458

E-mail: [xhvdzsound@163.com](mailto:xhvdzsound@163.com)

Http: [www.jsxhvdz.com](http://www.jsxhvdz.com)

1.基本规格/General specification

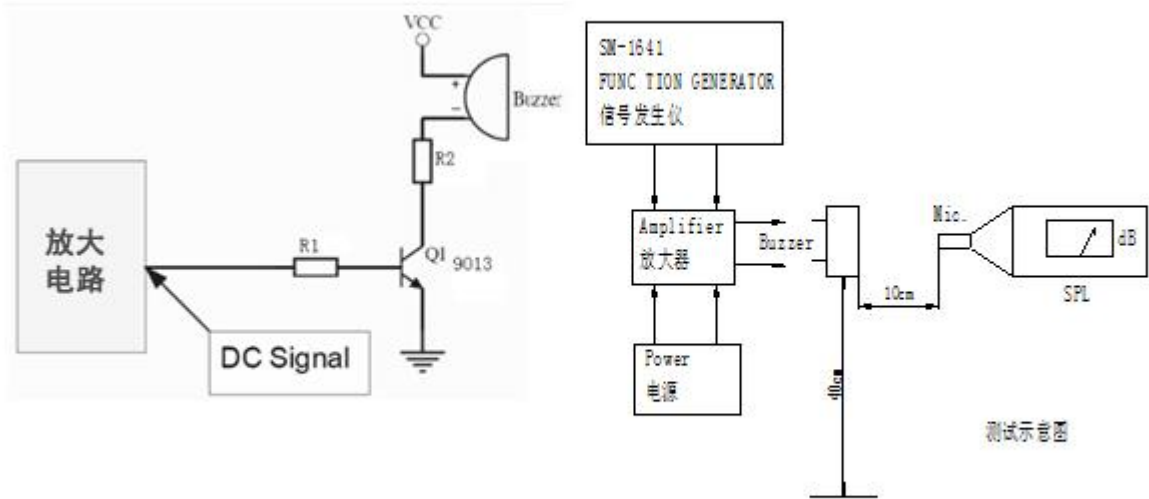
| 项目/Item |                              | 规格/Spec    | 条件/Condition                                                                                                       |
|---------|------------------------------|------------|--------------------------------------------------------------------------------------------------------------------|
| 1       | 额定电压 Rated voltage           | 12VDC      | 测试环境：标准状态，标准驱动电路，<br>额定电压<br>测试距离：0.1m<br>Standard State,Standard Drive Circuit.<br>Rated voltage,Distance at 0.1m |
| 2       | 工作电压 Operation voltage       | 8-16VDC    |                                                                                                                    |
| 3       | 声压 Sound Pressure Level=SPL  | Min 85dB   |                                                                                                                    |
| 4       | 电流 current                   | Max30mA    |                                                                                                                    |
| 5       | 振荡频率 Oscillation frequency   | 2700±200Hz |                                                                                                                    |
| 6       | 工作温度范围 Operating Temperature | -20~+75℃   |                                                                                                                    |
| 7       | 保存温度范围 Storage temperature   | -30~+80℃   |                                                                                                                    |
| 8       | 外部尺寸 Externals size （mm）     | φ 9*H5.5   | 参阅附图 Refer to the attached drawing                                                                                 |
| 9       | 重量 Mass                      | 0.7g       |                                                                                                                    |
| 10      | 材质 Housing Material          | PBT        |                                                                                                                    |

2.电气和声学测试条件/Electrical And Acoustical Measuring Condition

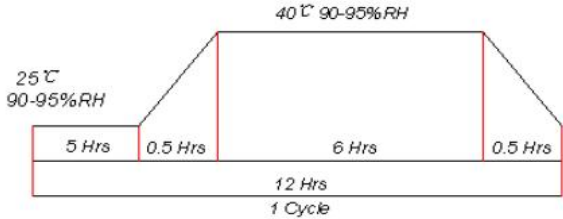
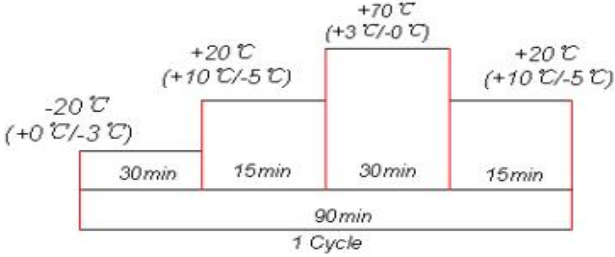
驱动电路/Recommended Driving Circuit

设置Recommended Setting

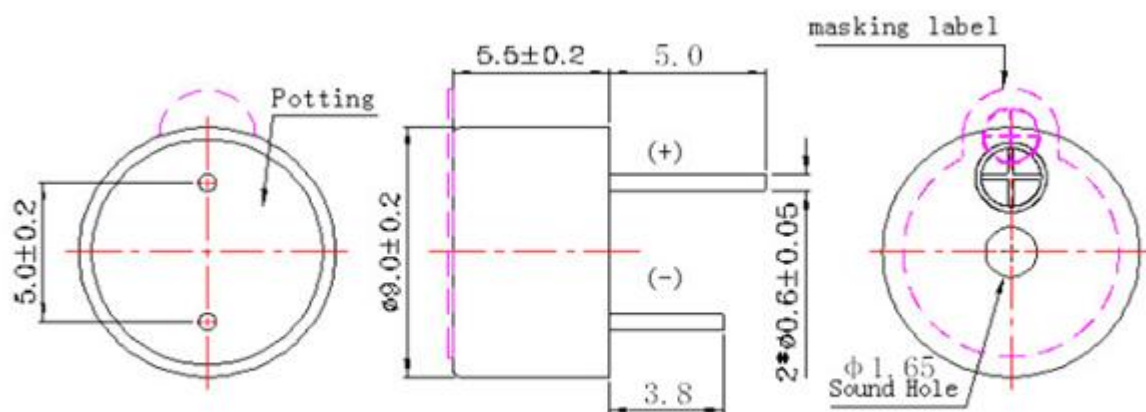
Resonant frequency, 1/2 duty cycle. Square wave.  
Signal amplitude should be large enough to saturate the transistor.



### 3.可靠性测试/Reliability Test

|   | 项目ITEM                                      | 测试方法TEST                                                                                                                                                                                                       |
|---|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | 高温试验<br>High Temperature Test               | 在+80℃±2℃储存温度下存放96小时，恢复2小时后测试<br>After being placed in a chamber with +80±2℃ for 96 hours and then being placed in normal condition for 2 hours                                                                 |
| 2 | 低温试验<br>Low Temperature Test                | 在-20℃±2℃储存温度下存放96小时，恢复2小时后测试<br>After being placed in a chamber with -20±2℃ for 96 hours and then being placed in normal condition for 2 hours                                                                 |
| 3 | 恒定湿热试验<br>Humidity Test                     |                                                                                                                              |
| 4 | 温度变化试验<br>Temperature Cycle Test            |                                                                                                                             |
| 6 | 跌落试验<br>Drop Test                           | 70cm高自由掉落到40mm 的木板上，每个方向三次<br>Drop on a hard wood board of 40mm thick, any directions, three times, at the height of 70cm                                                                                      |
| 7 | 插针的抗拉强度试验<br>Terminal Strength Pulling Test | 插针承受1.0kg拉力，负荷时间5s<br>The force 5 seconds of 1.0kg is applied to each terminal.                                                                                                                                |
| 8 | 可焊性试验<br>Solder ability Test                | 焊锡温度255±5℃，浸润时间为3±0.5s，试验后目测产品情况<br>Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of 255±5℃ for 3±0.5 seconds.                                                           |
| 9 | 回流焊测试<br>Soldering Test                     | <p>Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +300 5°C for 3 1 seconds.</p> <p>90%min. lead terminals shall be wet with solder (Except the edge of terminals).</p> |

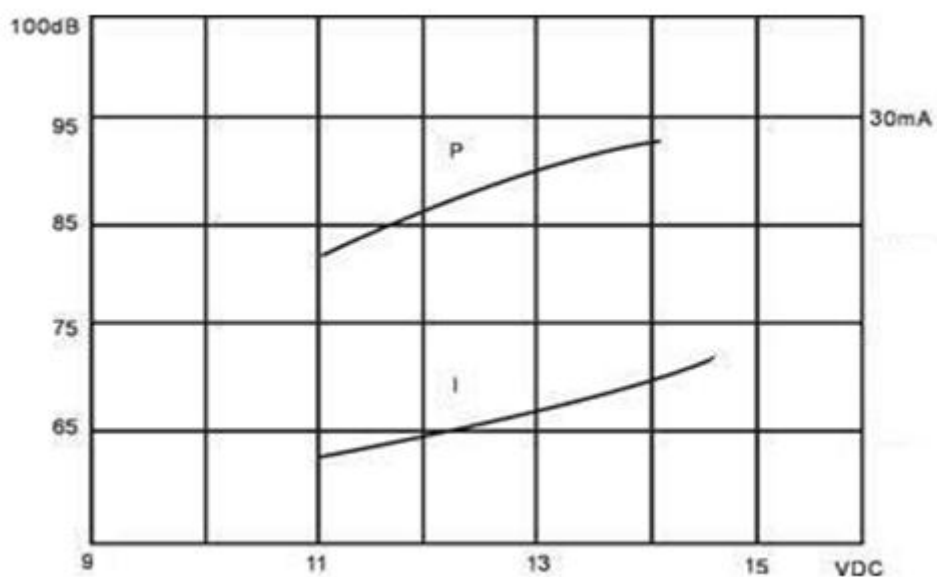
#### 4.尺寸图Dimension



\*Unit: mm; Tolerance:  $\pm 0.3$ mm Except Specified

\*Housing Material: Black PBT

#### 5.频率响应/Frequency Response



12Vo-p 50% duty Square wave, 10cm

6.产品包装picking

