



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-8540

產品名稱 (Description):

蜂鸣器 (Buzzer)

產品規格 (Specification):

SMD-8.5\*8.5\*4.0MM

|                                                |                                        |     |     |
|------------------------------------------------|----------------------------------------|-----|-----|
| 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                   |     |     |
|                                                | 版次： A                                  |     |     |

声音让生活更精彩!

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: [xhxdzsound@163.com](mailto:xhxdzsound@163.com)

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

1.基本规格/General specification

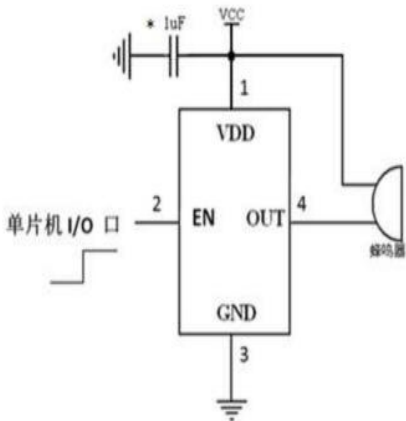
| 项目/Item |                              | 规格/Spec           | 条件/Condition                                                                     |
|---------|------------------------------|-------------------|----------------------------------------------------------------------------------|
| 1       | 额定电压 Rated voltage           | 3.6Vo-p           |                                                                                  |
| 2       | 工作电压 Operation voltage       | 2.5~4.5Vo-p       |                                                                                  |
| 3       | 声压 Sound Pressure Level=SPL  | Min 85dB          | 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. |
| 4       | 电流 current                   | Max80mA           |                                                                                  |
|         | 阻抗 Coil Resistance           | $16 \pm 5 \Omega$ |                                                                                  |
| 5       | 振荡频率 Oscillation frequency   | 2700Hz $\pm$ 300  |                                                                                  |
| 6       | 工作温度范围 Operating Temperature | -20~+70℃          | 声压 $\geq 85\text{dB}$ SPL $\geq 85\text{dB}$                                     |
| 7       | 保存温度范围 Storage temperature   | -30~+85℃          |                                                                                  |
| 8       | 外部尺寸 Externals size (mm)     | 8.5*8.5*4         | 参阅附图 Refer to the attached drawing                                               |
| 9       | 重量 Mass                      | 0.5g              |                                                                                  |
| 10      | 材质 Housing Material          | LCP               |                                                                                  |

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

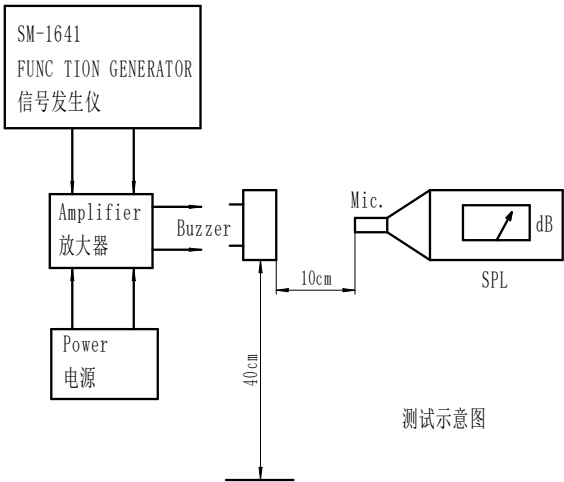
驱动电路/Recommended Driving Circuit

设置 Recommended Setting

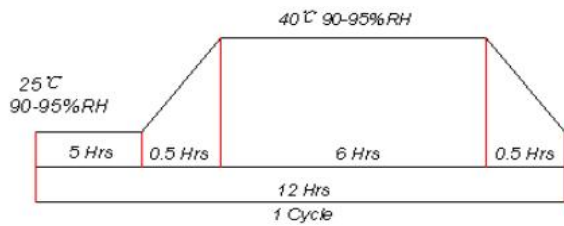
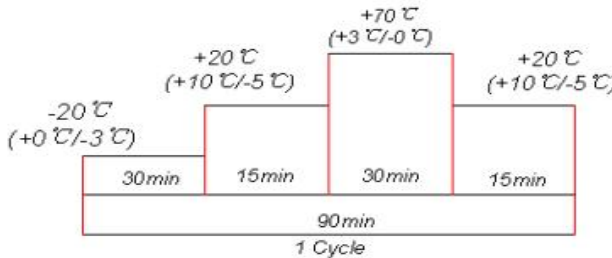
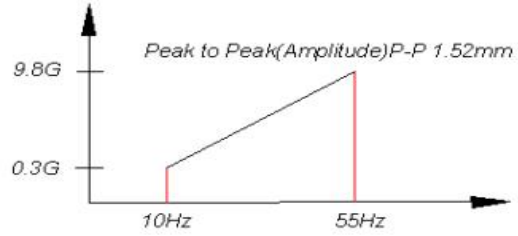
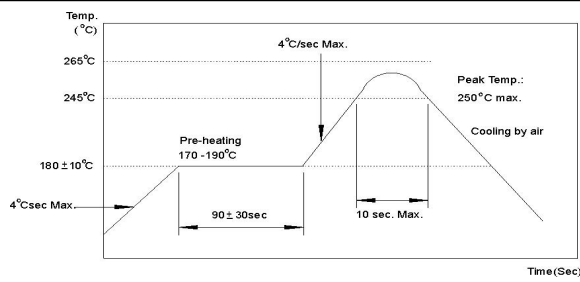
Resonant frequency, 1/2 duty cycle. Square wave.  
Signal amplitude should be large enough to saturate the transistor.



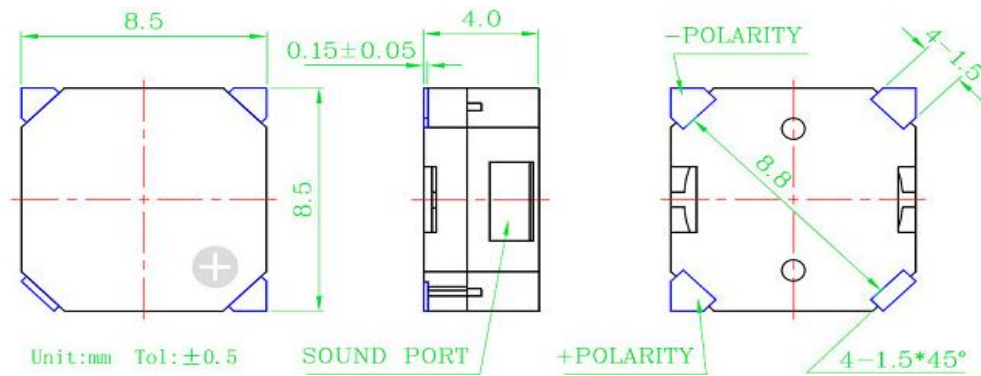
注：\*建议在芯片电源输入端增加1uF电源滤波电容。



### 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 $+80^{\circ}\text{C}\pm 2^{\circ}\text{C}$ 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 $+80\pm 2^{\circ}\text{C}$ for 96 hours and then being placed in normal condition for 2 hours       |
| 2 | 低温试验<br>Low Temperature Test                | 在 $-20^{\circ}\text{C}\pm 2^{\circ}\text{C}$ 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 $-20\pm 2^{\circ}\text{C}$ 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            |                                                                                                                                |
| 5 | 振动试验<br>Vibration 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 $255\pm 5^{\circ}\text{C}$ ，浸润时间为 $3\pm 0.5\text{s}$ ，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 $255\pm 5^{\circ}\text{C}$ for $3\pm 0.5$ seconds. |
| 9 | 回流焊测试<br>Soldering Test                     |                                                                                                                               |

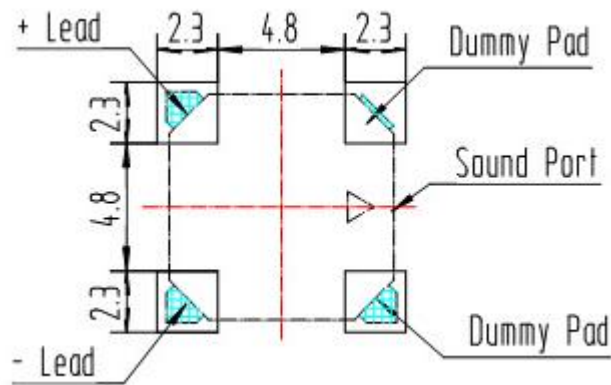
#### 4.尺寸图 Dimension



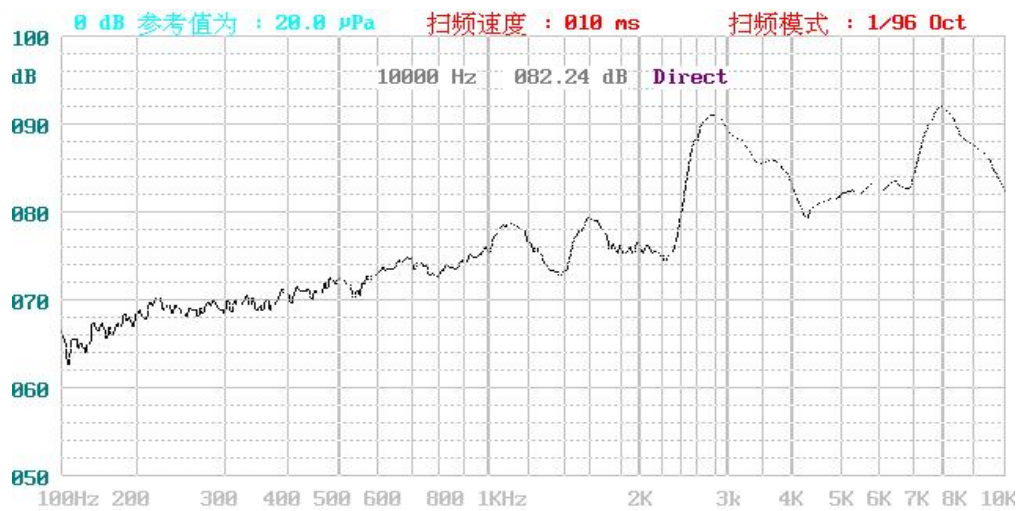
\*Unit: mm; Tolerance: ±0.3mm Except Specified

\*Housing Material: Black LCP

#### 5.1 Soldering pattern



#### 5.2 频率响应/Frequency Response



3.6Vo-p 50% duty Square wave,10cm

6.包装方式/Packing

