

**样 品 承 认 书**  
Specification For Approval

|                           |                           |
|---------------------------|---------------------------|
| 客户名称 Customer Name        |                           |
| 品 名 Variety               | 无源电磁式蜂鸣器                  |
| 型 号 Part No               | SEA-12095-0540-42Ω-40P6.5 |
| 客户型号 The customer Part No |                           |
| 样品日期 Model Date           |                           |

**客户承认签署**

|                      |                     |                      |
|----------------------|---------------------|----------------------|
| 签定结果:                |                     |                      |
| 核准/ <i>Approved:</i> | 审核/ <i>Checked:</i> | 经办/ <i>Designed:</i> |
|                      |                     |                      |

**海旭确认签署**

|                      |                     |                      |
|----------------------|---------------------|----------------------|
| 核准/ <i>Approved:</i> | 审核/ <i>Checked:</i> | 经办/ <i>Designed:</i> |
| 丁爱勇                  | 黄锡梅                 | 梁嘉敏                  |

承认后请签回一份!    *Thank you very much!*

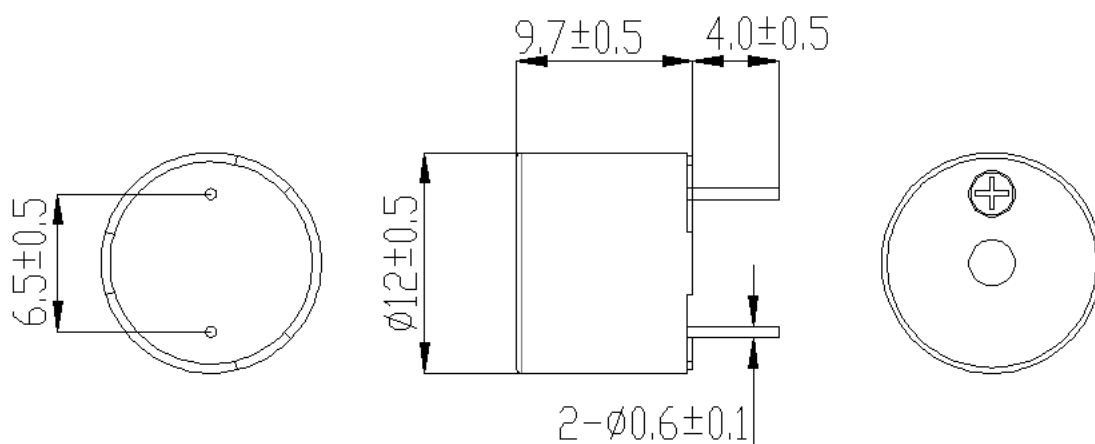
公司地址: 广东省佛山市顺德区容桂社区细滘路 81 号中建创科园 C2 栋 7 楼  
Email: ZShaixu@163.com    Web: http://www.haixucn.com/

型号 part No: SEA-12095-0540-42Ω-40P6.5

性能参数 Electrical Characteristics

|    |                                          |                                               |
|----|------------------------------------------|-----------------------------------------------|
| 1  | 额定电压 Rated Voltage (Vo_p)                | 5                                             |
| 2  | 工作电压 Operating Voltage (Vo_p)            | 4~7                                           |
| 3  | *在 10cm 处测试声压值 Sound Output at 10cm (dB) | ≥85                                           |
| 4  | *消耗电流 Current Consumption (mA)           | ≤50                                           |
| 5  | 共振频率 Resonant Frequency (Hz)             | 4000                                          |
| 6  | 线圈电阻 Coil Resistance (Ω)                 | 42±5                                          |
| 7  | 工作温度 Operating Temperature (°C)          | -20~+70                                       |
| 8  | 储存温度 Storage Temperature (°C)            | -30~+80                                       |
| 9  | 单品重量 Weight (g)                          | 1.8                                           |
| 10 | 外壳材料 Housing Material                    | 黑色 Black PPO                                  |
| 11 | 环保要求 Environmental Protection Regulation | RoHS                                          |
| 12 | 焊接方式 Welding method                      | 手工焊接 Artificial welding / 波峰焊接 wave soldering |

外形图 DIMENSIONS (UNIT: mm) 未标注公差按±0.5mm 计算 Tolerance: ±0.5mm Except Specified



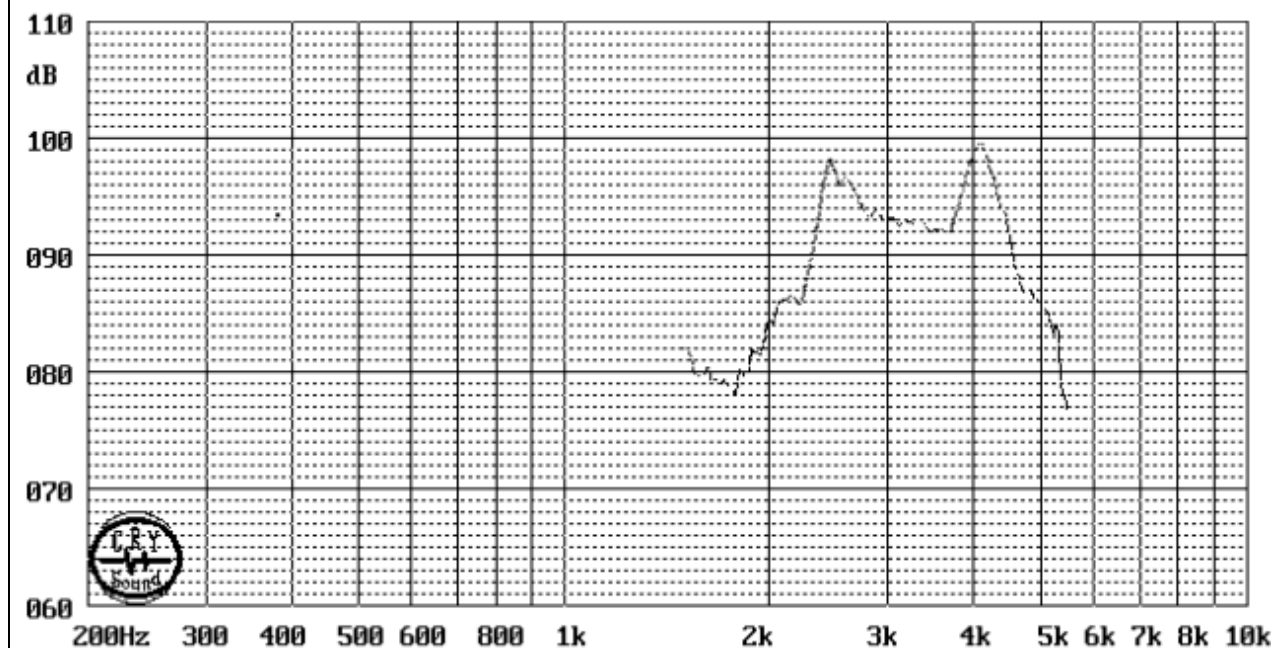
|                                       |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
|---------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <div>S&amp;S<br/>海旭科技</div>           |  | <div>昆山海旭科技电子有限公司</div> <div>Kunshan Haixu Electronic Technology Co. Ltd</div>                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| 型号 part No: SEA-12095-0540-42Ω-40P6.5 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| 可靠性测试 RELIABLY TEST                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| 项目 ITEM                               |  | 测试条件 TESTING CONDITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| 高温试验<br>High Temperature Test         |  | 放置 85±2℃ 96 小时，再室温放置 2 小时。<br>After being placed in a chamber with 85±2℃ for 96 hours and then being placed in natural condition for 2 hours.                                                                                                                                                                                                                                                                                                                                                                              |  |
| 低温试验<br>Low Temperature Test          |  | 放置-30±2℃ 96 小时，再室温放置 2 小时。<br>After being Placed in a chamber with -30±2℃ for 96 hours and then being placed in natural condition for 2 hours.                                                                                                                                                                                                                                                                                                                                                                             |  |
| 恒湿试验<br>Humidity Test                 |  | 存放在温度：60±5℃湿度：90%--95%的环境里 96 小时，然后放置到室温下放置 2 小时后测试 。<br>Stored in the temperature humidity: 60±5℃ 90%--95% environment for 96 hours, and then placed into storage at room temperature for 2 hours after the test.                                                                                                                                                                                                                                                                                                         |  |
| Temperature Cycle Test<br>温度循环试验      |  | 放置-30±2℃ 30 分钟、25℃±10℃放置 15 分钟，15 分钟后再将产品放入+85±2℃30 分钟、常温 25℃±10℃放置 15 分钟，20 个循环后放置常温下 2 小时。<br>After being placed in a chamber with -30±2℃ for 30 minutes, products shall be placed at room temperature(25℃±10℃).After 15 minutes at this temperature, products shall be placed in a chamber at +85±2℃.After 30 minutes at this temperature, products shall be return to room temperature (25℃±10℃) for15 minutes. After 20 above cycles, products shall be measured after being placed in natural condition for 2 hours. |  |
| Drop Test<br>跌落试验                     |  | 正面和侧面从 100cm 高度只有跌落在 4cm 厚度的木板上 3 次。<br>The front and side from a height of 100cm only drop in the 4cm thickness of theboard 3 times each.                                                                                                                                                                                                                                                                                                                                                                                 |  |
| Vibration Test<br>振动试验                |  | After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours.<br>频率 10~55Hz，振幅 1.5mm，3 个方向，振动 2 小时。                                                                                                                                                                                                                                                                                                                                  |  |
| Solderability Test<br>可焊性试验           |  | Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of 200±5℃ for 3±0.5 seconds (Except the edge of terminals).<br>端子在松香中浸入 5 秒并在 200±5℃锡中浸 3±0.5 秒                                                                                                                                                                                                                                                                                                                                        |  |
|                                       |  | 试验后要求<br>VARIANCE AFTER TEST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|                                       |  | 声压变化±10dB。<br>Allowable variation of SPL after test: ±10dB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                       |  | 声压变化±10dB。<br>Allowable variation of SPL after test: ±10dB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                       |  | 声压变化±10dB。<br>Allowable variation of SPL after test: ±10dB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                       |  | 声压变化±10dB。<br>Allowable variation of SPL after test: ±10dB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
|                                       |  | 95% min. lead terminals shall be wet with solder<br>有 95%吃锡效果。                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |

型号 part No: SEA-12095-0540-42Ω-40P6.5

可靠性测试 RELIABLY TEST

| 项目 ITEM                                     | 测试条件 TESTING CONDITION                                                                                                                                                                   | 试验后要求<br>VARIANCE<br>AFTER TEST                                |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Continuous<br>electricity test<br>连续通电试验    | Temperature: room temperature 25 °C<br>Voltage: rated voltage 5 V<br>Frequency: the rated frequency for 4.0 KHZ<br>Time: 500 hours<br>温度: 室温 25℃ 电压: 额定电压 5V, 频率: 额定频率 4.0KHz 时间: 500 小时 | 声压变化±10dB。<br>Allowable variation of<br>SPL after test: ±10dB. |
| terminal Strength<br>Pulling Test<br>端子强度试验 | The force of 9.8N(1.0kg) is applied to each terminal in axial direction for 10 seconds.<br>在每个端子上施加 9.8N (1.0kg) 的轴向力 10 秒。                                                              | No visible damage and<br>cutting off.<br>端子没有明显的损坏和<br>切断      |

Typical Frequency Response Curve (音频曲线图)



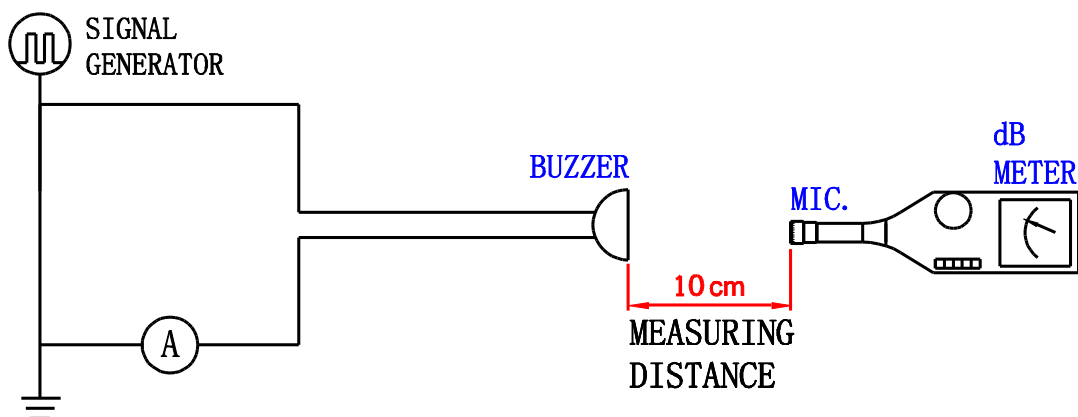
## TESTING METHOD (测试方法)

### Standard Measurement conditions

Temperature:  $25 \pm 2^{\circ}\text{C}$  Humidity: 45-65%

### Acoustic Characteristics:

The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



In the measuring test, buzzer is placed as follows:

