

# SPECIFICATION FOR APPROVAL

## 規 格 書

Customer ( 客 戶 名 稱 ): \_\_\_\_\_

Customer P/N(客戶番號): \_\_\_\_\_

Our P/N (本廠番號): FS3511NB0808-H5.2-R01

Approval Date(日期): 2022.09.23

Environment Request(環 境 標 准):

☐ Non-RoHS (非 RoHS 標準)

☒ RoHS (RoHS 標準)

☐ REACH (REACH 標準)

☐ Others (其他)

### CUSTOMER'S APPROVED SIGNATURE



**福声科技**  
FUSHENG TECHNOLOGY

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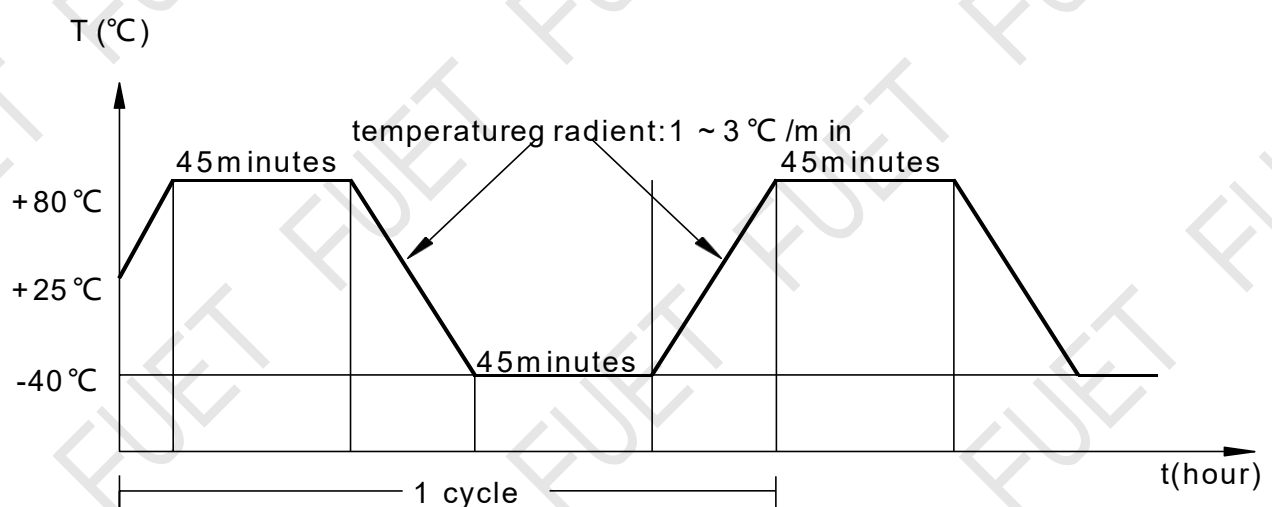
|           | DESINGER | CHECKED | APPROVED |
|-----------|----------|---------|----------|
| SIGNATURE |          |         |          |
| DATE      |          |         |          |

## Speaker Specification

|          |                                  |                                                                              |                                                         |                     |
|----------|----------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------|---------------------|
| Part No. | Customer No<br>顧客型號              |                                                                              | Customer code<br>顧客編號                                   |                     |
|          | Our Part No<br>本廠編號              | FS3511NB0808-H5.2-R01                                                        |                                                         | Revision<br>版本<br>A |
| No.      | Item<br>項目                       | Specification<br>規格                                                          | Testing Condition<br>測試條件                               |                     |
| 1.       | Rated Imp<br>共稱阻抗                | 8ohm±15%                                                                     |                                                         |                     |
| 2.       | Resonance Freq<br>最低共振周波數        | 1000Hz±20%                                                                   | Without Baffle                                          |                     |
| 3.       | Output S.P.L.<br>出力音壓            | 82±3dB                                                                       | At 0.1W 0.1M 0.8~5.0KHz<br>Average                      |                     |
| 4.       | Rated Power<br>定格入力              | at 0.8W                                                                      | at 2.53Vrms                                             |                     |
| 5.       | Max Power<br>最大入力                | at 1.2W                                                                      | at 3.1Vrms                                              |                     |
| 6.       | Frequency Range<br>實效頻寬          | FO----20kHz                                                                  |                                                         |                     |
| 7.       | Operation<br>可靠性試驗               | Must Be Normal at<br>Rated Frequency Range                                   | Program Source 0.8W<br>FO~10kHz                         |                     |
| 8.       | Buzzes & Rattles<br>異常音試驗        | Should not be audible buzz<br>and rattle at Rated<br>Frequency Range<br>無異常聲 | Sine Wave Between (正弦波入力)<br>at 2.53 Vrms / FO----10kHz |                     |
| 9.       | T H D<br>失真                      | 10% Max                                                                      | Rated Power Input 2000Hz                                |                     |
| 10.      | Magnet<br>磁鐵                     | NdFeB                                                                        |                                                         |                     |
| 11.      | Operating<br>Temperature<br>動作溫度 | -20℃ to +50℃                                                                 |                                                         |                     |
| 12.      | Storage<br>Temperature<br>儲存溫度   | -40℃ to +80℃                                                                 |                                                         |                     |
| 13.      | Weight<br>重量                     | / g/PC                                                                       |                                                         |                     |

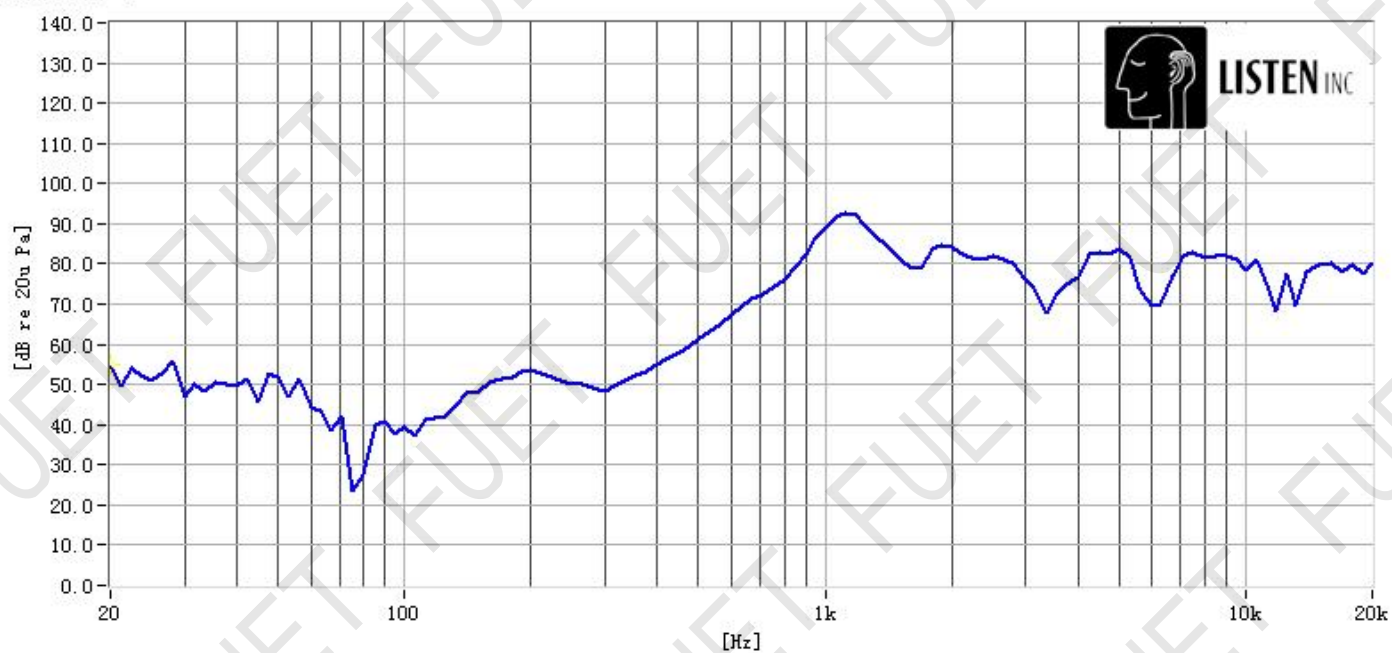
|     |                                                 |                                                                                                                                                                                                                                                                         |
|-----|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14. | Cold Test<br>耐寒試驗                               | Must be normal after having been in a test chamber for 96 hours at the condition of $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and then left 2 hours in a room.<br>( $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ , 96 小時試驗室溫兩小時後, 無異常)                                 |
| 15. | Heat Test<br>耐熱試驗                               | Must be normal after having been in a test chamber for 96 hours at the condition of $+80^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 90~95% R.H and then left 2 hours in a room.<br>( $+80^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 90~95% R.H 96 小時試驗常溫 2 小時後, 無異常的不良)        |
| 16. | Load Test<br>連續負荷試驗                             | Must be normal after load test :white noise 0.8W 96 hours. At rated frequency range<br>(白噪音 0.8W 連續 96 小時試驗後無異常的不良)                                                                                                                                                     |
| 17. | Short Term<br>Maximum Power<br>test<br>瞬間最大功率測試 | Test for 1 hour under maximum power. Input shall be white noise in rated frequency response. And the signal will be 1 second on, 59 seconds off, total 60 cycles at rated frequency range, Must be normal after the test<br>(白噪音 1.2W, 1 秒開 59 秒關, 連續 60 迴圈, 試驗後無異常之不良) |
| 18. | Drop Test<br>跌落試驗                               | Drop the speakers contained in normal box onto a board 5mm thick 6 times from a height of 1.0m . Must be normal after the test<br>(在厚 5mm 的木板上從 1.0m 的高度跌落 6 次, 無異常不良)                                                                                                  |
| 19. | Terminal strength<br>端子強度                       | A static load of 5.0N shall be applied to the terminals for 10s in any direction between terminal block and frame and between terminal block and fasten terminal. Must be normal after the test<br>(端子板和支架或焊片任一方向上 5.0N 的力 10s 無異常)                                     |
| 20. | Waterproof Test<br>防水測試                         | Use 15KPa air pressure test for 5 seconds, and the leakage of less than 6Pa is the waterproof grade IPX7<br>用 15KPa 气压测试 5 秒, 不超过 6Pa 泄露即为防水等级 IPX7                                                                                                                     |

### Temperature Cycle Test(5 cycle)

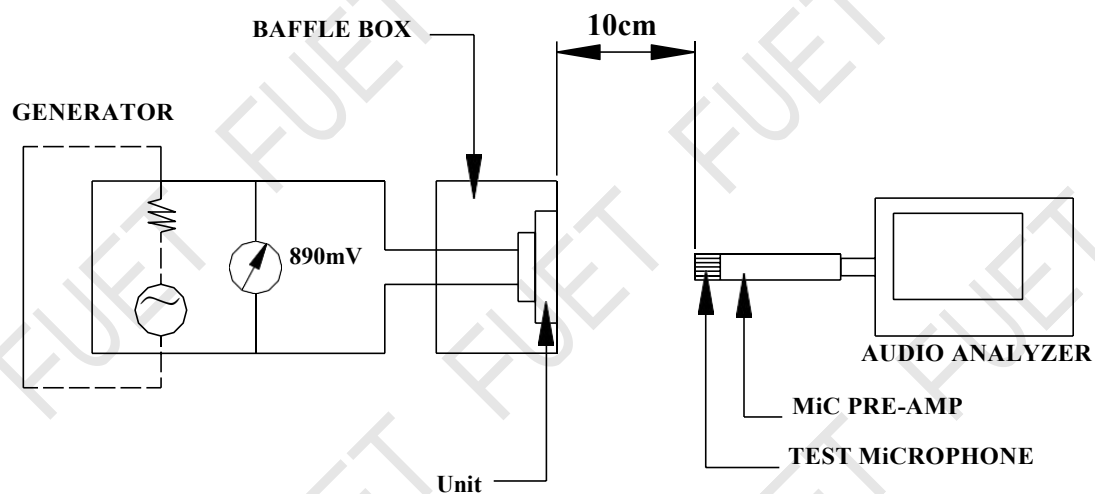
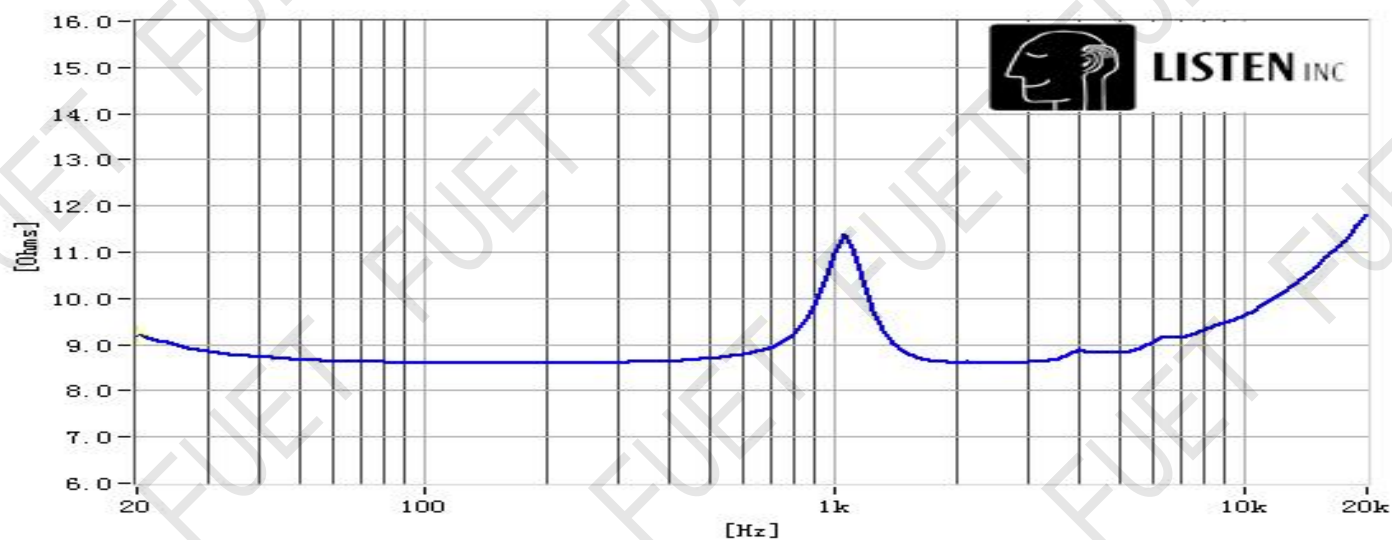


## Frequency Response

频响曲线

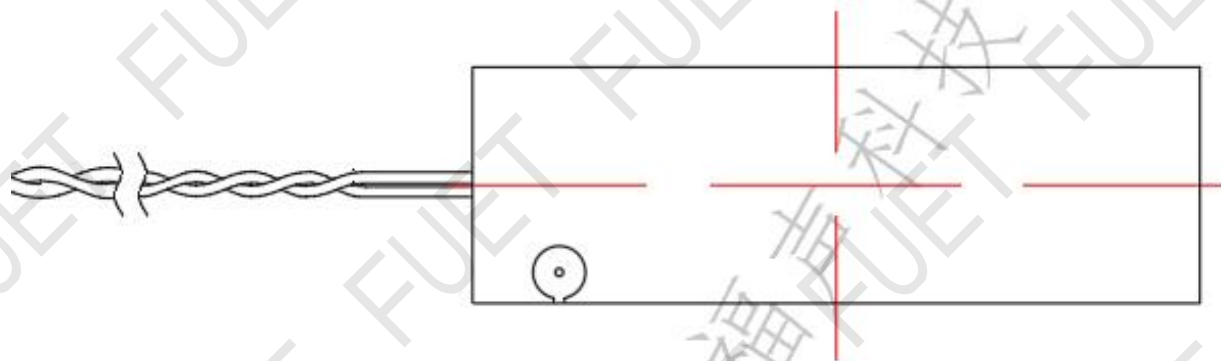
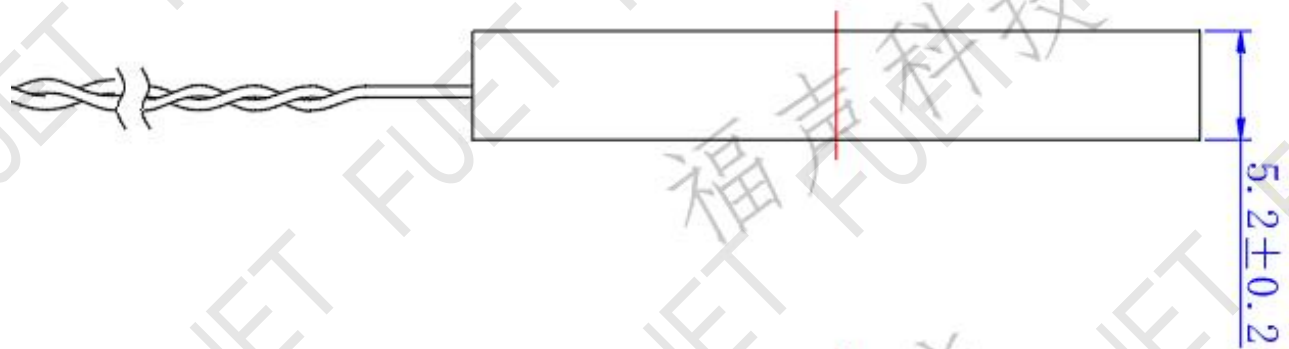
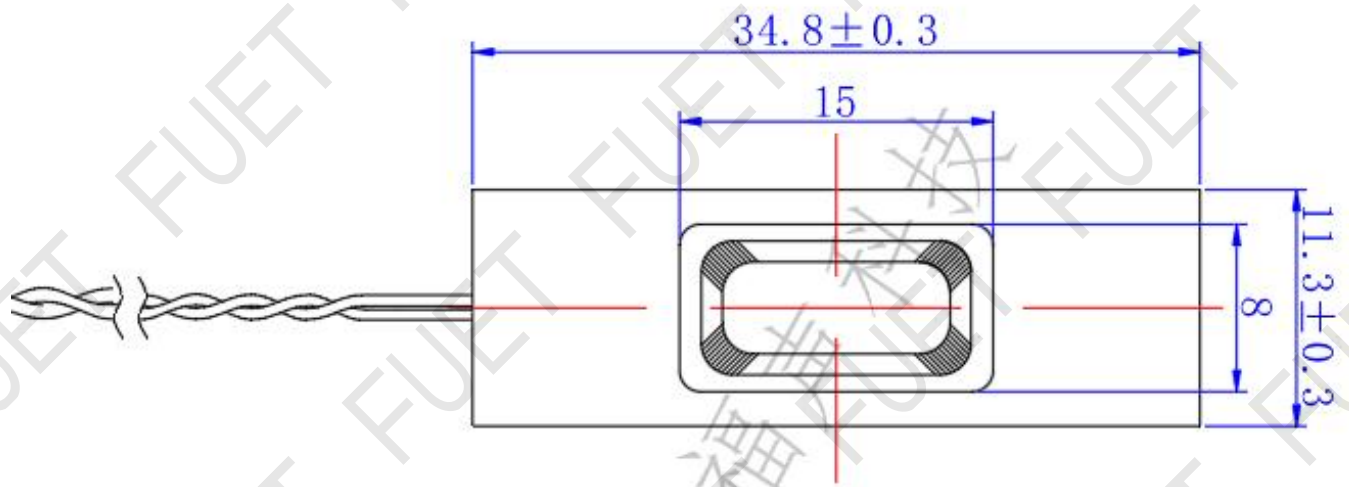


阻抗曲线



Product Outside View

未注公差:  $\pm 0.2$



泰州福声电子科技有限公司

样品检验报告单

|                     |                  |                |                       |           |            |                   |            |             |
|---------------------|------------------|----------------|-----------------------|-----------|------------|-------------------|------------|-------------|
| 名称                  | BOX              | 型号             | FS3511NB0808-H5.2-R01 |           |            | 检测数量              | 5          |             |
| 执行标准                |                  |                | 全检                    |           |            | 判定： OK            |            |             |
| 规格                  | 纯音检测             | F0<br>(Hz)     | 声压<br>(dB)            | 阻抗<br>(Ω) | 全高<br>(mm) | 外径 (mm)           | 线长<br>(mm) | 外观          |
|                     | 电压2.53V          | 1000Hz±<br>20% | 82±3dB                | 8ohm±15%  | 5.2±0.2    | 34.8*11.3±<br>0.3 | 待定         | 无<br>缺<br>损 |
| 序号                  | 频率<br>(200~5KHz) |                |                       |           |            |                   |            |             |
| 1                   | OK               | 1010           | 82.1                  | 8.5       | 5.24       | 34.85*11.32       | /          | OK          |
| 2                   | OK               | 1036           | 81.8                  | 8.4       | 5.22       | 34.85*11.33       | /          | OK          |
| 3                   | OK               | 1008           | 82.0                  | 8.5       | 5.22       | 34.86*11.36       | /          | OK          |
| 4                   | OK               | 1052           | 82.5                  | 8.4       | 5.28       | 34.86*11.38       | /          | OK          |
| 5                   | OK               | 1012           | 81.8                  | 8.4       | 5.22       | 34.84*11.36       | /          | OK          |
| 6                   | /                | /              | /                     | /         | /          | /                 | /          | /           |
| 7                   | /                | /              | /                     | /         | /          | /                 | /          | /           |
| 8                   | /                | /              | /                     | /         | /          | /                 | /          | /           |
| 9                   | /                | /              | /                     | /         | /          | /                 | /          | /           |
| 10                  | /                | /              | /                     | /         | /          | /                 | /          | /           |
| 11                  | /                | /              | /                     | /         | /          | /                 | /          | /           |
| 12                  | /                | /              | /                     | /         | /          | /                 | /          | /           |
| 13                  | /                | /              | /                     | /         | /          | /                 | /          | /           |
| 14                  | /                | /              | /                     | /         | /          | /                 | /          | /           |
| 15                  | /                | /              | /                     | /         | /          | /                 | /          | /           |
| 16                  | /                | /              | /                     | /         | /          | /                 | /          | /           |
| 17                  | /                | /              | /                     | /         | /          | /                 | /          | /           |
| 18                  | /                | /              | /                     | /         | /          | /                 | /          | /           |
| 19                  | /                | /              | /                     | /         | /          | /                 | /          | /           |
| 20                  | /                | /              | /                     | /         | /          | /                 | /          | /           |
| 外观目测符合要求<br>产品为环保产品 |                  |                | OK                    |           |            | 检查:               |            |             |
|                     |                  |                |                       |           |            | 审核:               |            |             |
|                     |                  |                |                       |           |            | 日期:               |            |             |