

# SPECIFICATION FOR APPROVAL

## 规格书

Customer ( 客户名称 ):

Customer P/N(客户编号):

Our P/N (本厂编号):

FS3816NB0830-H8.0-R01

Approval Date(日期):

2023-07-02

Environment Request(环境标准):

☐ Non-RoHS (非 RoHS 标准)

☒ RoHS (RoHS 标准)

☐ REACH (REACH 标准)

☐ Others (其他)

### CUSTOMER'S APPROVED SIGNATURE



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

Alteration History

变更历史

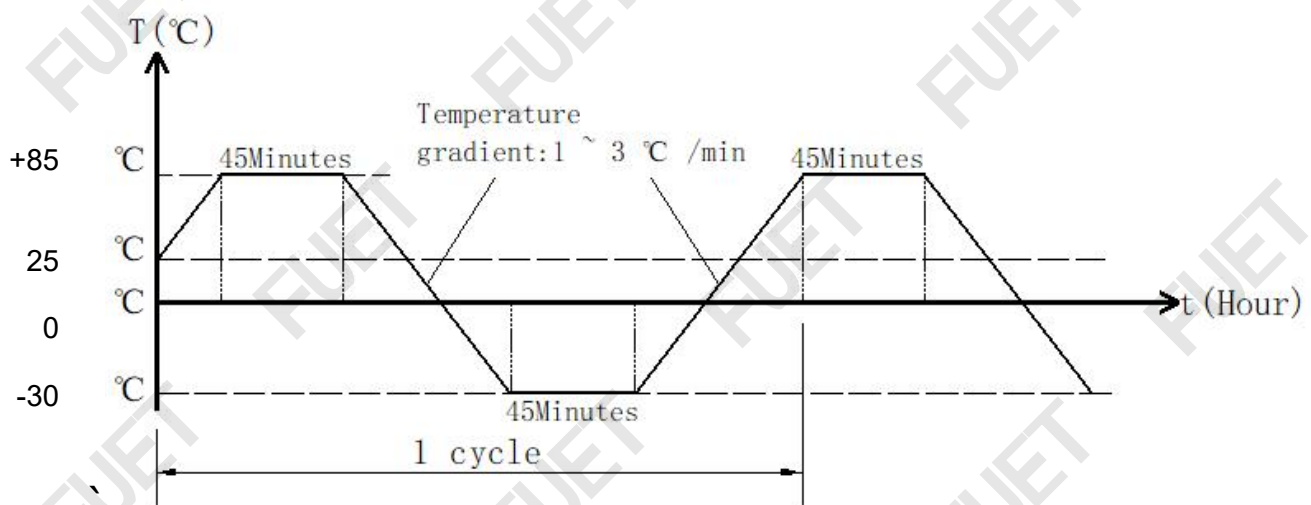
| Note<br>序号 | Date<br>日期 | Detail changes<br>变 更 内 容 | Reason<br>变更理由 | Revision<br>变更表示 |
|------------|------------|---------------------------|----------------|------------------|
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## Speaker Specification

|          |                               |                                                                              |                                                      |                         |
|----------|-------------------------------|------------------------------------------------------------------------------|------------------------------------------------------|-------------------------|
| Part No. | Customer No<br>客户型号           |                                                                              | Customer code<br>客户编号                                |                         |
|          | Our Part No<br>本厂编号           | FS3816NB0830-H8. 0-R01                                                       |                                                      | Revision<br>版本<br><br>A |
| No.      | Item<br>项目                    | Specification<br>规格                                                          | Testing Condition<br>测试条件                            |                         |
| 1.       | Rated Imp<br>共称阻抗             | 8.0Ω±15%                                                                     | At 1800 Hz 1.0Vrms                                   |                         |
| 2.       | Resonance Freq<br>最低共振周波数     | Fo: 1020Hz±20%                                                               | Without Baffle                                       |                         |
| 3.       | Output S.P.L.<br>出力音压         | 87.8±3dB                                                                     | At 0.1m1.0w f0~10.0KHz Average                       |                         |
| 4.       | Rated Power<br>额定功率           | At 3.0W                                                                      | at 4.89V rms                                         |                         |
| 5.       | Max Power<br>最大功率             | at 3.5W                                                                      | at 5.29 V rms                                        |                         |
| 6.       | Frequency Range<br>实效频宽       | F0 ~10kHz                                                                    | Output S.P.L -10dB                                   |                         |
| 7.       | Operation<br>可靠性试验            | Must Be Normal at<br>Rated Frequency Range                                   | ProgramSource 3.0W<br>200-5.0kHz                     |                         |
| 8.       | Buzzes & Rattles<br>异常音试验     | Should not be audible buzz<br>and rattle at Rated<br>Frequency Range<br>无异常声 | Sine Wave Between (正弦波入力 )<br>at 4.89Vrms / 200-5kHz |                         |
| 9.       | T H D<br>失真                   | 10% Max                                                                      | Rated Power Input 2000Hz                             |                         |
| 10.      | Magnet<br>磁铁                  | Nd Fe B                                                                      |                                                      |                         |
| 11.      | Operating Temperature<br>动作温度 | -30℃ to + 75℃                                                                |                                                      |                         |
| 12.      | Storage Temperature<br>储存温度   | -30℃ to +85℃                                                                 |                                                      |                         |
| 13.      | Weight<br>重量                  | 5.3/ g/PC                                                                    |                                                      |                         |

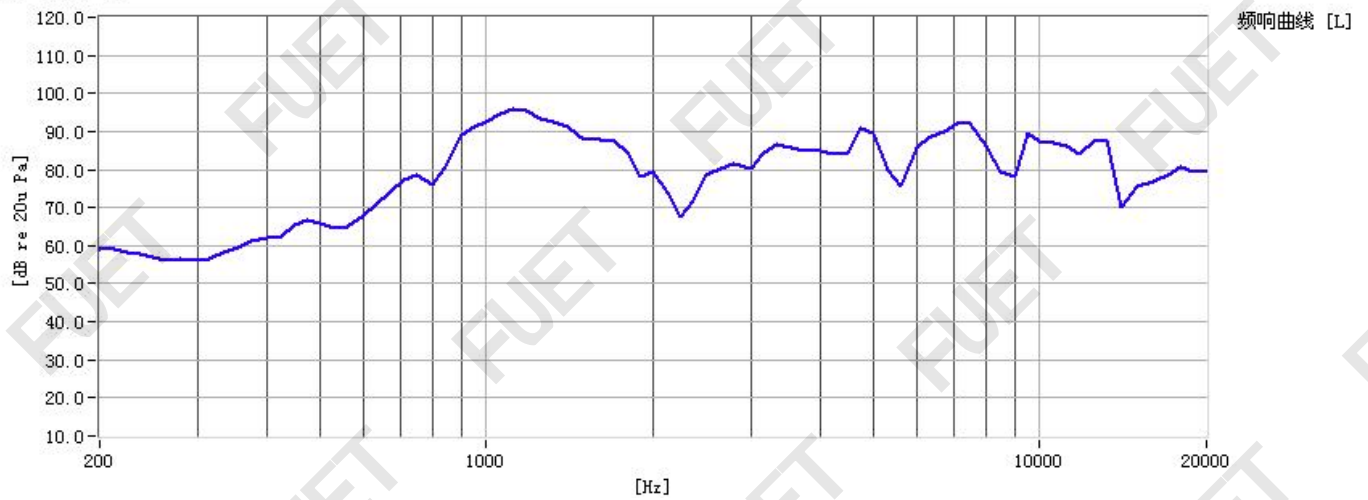
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|-----|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14. | Cold Test<br>耐寒试验                     | Must be normal after having been in a test chamber for 96 hours at the condition of $-30^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and then left 2 hours in a room.<br>( $-30^{\circ}\text{C} \pm 2^{\circ}\text{C}$ , 96 小时试验室温两小时后, 无异常)                                 |
| 15. | Heat Test<br>耐热试验                     | Must be normal after having been in a test chamber for 96 hours at the condition of $+60^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 90~95% R.H and then left 2 hours in a room.<br>( $+85^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 90~95% R.H 96 小时试验, 常温 2 小时后, 无异常的不良)      |
| 16. | Load Test<br>连续负荷试验                   | Must be normal after load test :white noise 5.0W 96 hours. At rated frequency range<br>(白噪音 3.0W 连续 96 小时试验后无异常的不良)                                                                                                                                                     |
| 17  | Short Term Max Power test<br>瞬間最大功率试验 | 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 3.5W, 1 秒开 59 秒关, 连续 60 回合, 试验后无异常之不良) |
| 18. | Polarity<br>极性                        | When a DC source 's "+" polarity is attached to speaker's "+" polarity, "-" polarity is attached speaker's "-" polarity, the membrane will move forward. Red wire is "+" and the black wire is "-".<br>(红点边为正极)                                                         |
| 19. | Drop Test<br>跌落试验                     | 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 的木板上从 1.0m 的高度跌落 6 次, 无异常不良)                                                                                                  |
| 20  | Tension Test<br>拉力测试                  | 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 无异常)                                       |

### Temperature Cycle Test(5 cycle)

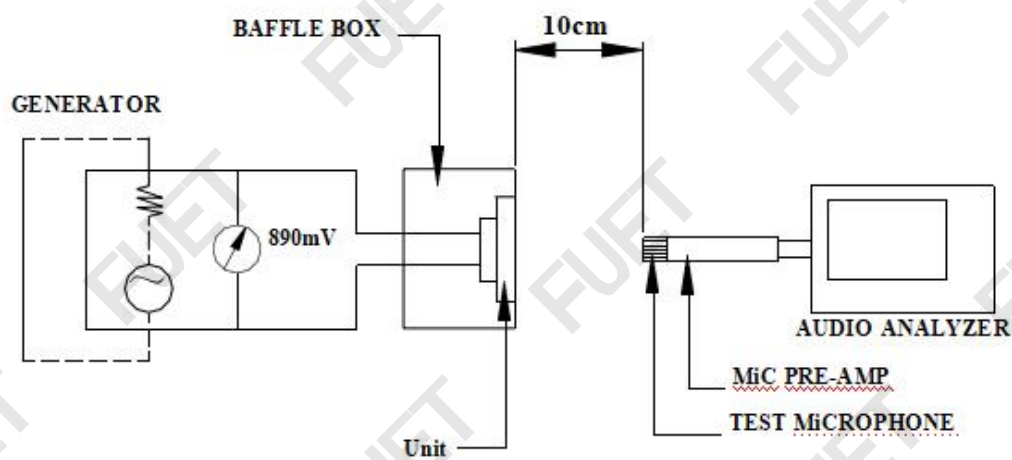
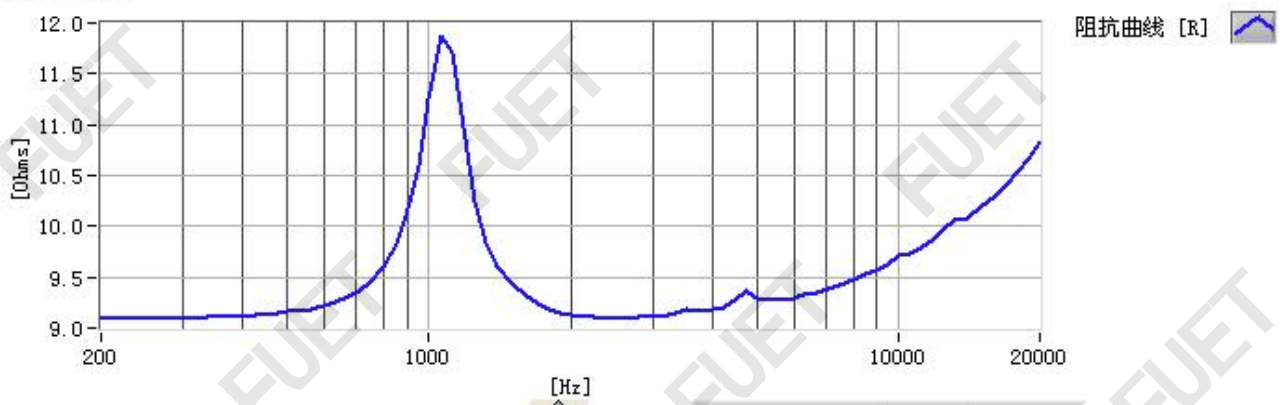


## Frequency Response

频响曲线



阻抗曲线



Product Outside View

