



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-4028 腔体(矩形)-复合膜

產品名稱 (Description):

喇叭 (Speaker)

產品規格 (Specification):

8Ω L160MM 1.25 端子

|                                                |                                        |     |     |
|------------------------------------------------|----------------------------------------|-----|-----|
| 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                                    | 唐海兵 | 王前进 |
|                                                | 日期: 2025 年 09 月 23 日<br>版次: A          |     |     |

声音让生活更精彩!

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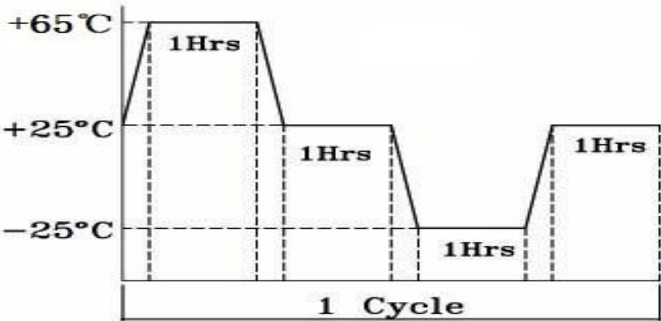
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|                                                                                                                                                                                                                                                     |                       |      |            |          |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------|------------|----------|-------|
| Model No.                                                                                                                                                                                                                                           | XHXDZ-4028 腔体(矩形)-复合膜 | Date | 2025-09-23 | Page No. | 1 / 6 |
| 產品規格內容 (SPECIFICATION)                                                                                                                                                                                                                              |                       |      |            |          |       |
| 1.使用範圍 (Scope)                                                                                                                                                                                                                                      |                       |      |            |          |       |
| 此份規格書是針對多媒體產品內，所使用的微型揚聲器單體所提出的報告。                                                                                                                                                                                                                   |                       |      |            |          |       |
| This specification covers our product of miniature speaker unit for multimedia product.                                                                                                                                                             |                       |      |            |          |       |
| 2.标准测试条件(Test condition)                                                                                                                                                                                                                            |                       |      |            |          |       |
| 一般规格试验状态（特殊要求除外）：常温 5~35℃，常湿 45%~85%，气压 860~1060hPa.                                                                                                                                                                                                |                       |      |            |          |       |
| 判定上有疑问时，试验状态为：温度 20±2℃，相对湿度 60%~70%，气压 860~1060 hPa.                                                                                                                                                                                                |                       |      |            |          |       |
| The test conditions unless otherwise specified should be normal temperature 5 to 35 ℃,Normal humidity 45 to 85% and normal atmospheric pressure 860 to 1060 hPa,However,if there arises a doubt in judgment,the test conditions shall beas follows: |                       |      |            |          |       |
| Temperature 20±2℃                                                                                                                                                                                                                                   |                       |      |            |          |       |
| Humidity 60%~70%                                                                                                                                                                                                                                    |                       |      |            |          |       |
| Atmosphere 860~1060 hPa                                                                                                                                                                                                                             |                       |      |            |          |       |
| 3.電聲特性 (ELECTRO-ACOUSTIC CHARACTERISTICS)                                                                                                                                                                                                           |                       |      |            |          |       |
| 3.1 額定阻抗(Rated Impedance):                                                                                                                                                                                                                          |                       |      |            |          |       |
| 8.0Ω ± 20% (AT 1.6K Hz ,1.0 Vrms)                                                                                                                                                                                                                   |                       |      |            |          |       |
| 3.2 額定輸入功率(Rated Input Power)                                                                                                                                                                                                                       |                       |      |            |          |       |
| 2.0 Watt (At 4.0Vrms white noise 96 Hours)                                                                                                                                                                                                          |                       |      |            |          |       |
| 3.3 最大輸入功率(Max. Input Power)                                                                                                                                                                                                                        |                       |      |            |          |       |
| 2.5 Watt                                                                                                                                                                                                                                            |                       |      |            |          |       |
| 3.4 最低共振頻率(Resonant Frequency)                                                                                                                                                                                                                      |                       |      |            |          |       |
| 950Hz ± 20%                                                                                                                                                                                                                                         |                       |      |            |          |       |
| 3.5 輸出音壓(Output S.P.L)                                                                                                                                                                                                                              |                       |      |            |          |       |
| 94± 3dB (0.1Watt , 0.1 Meter. Average at 0.8K,1.0K,1.5K,2.0K Hz)                                                                                                                                                                                    |                       |      |            |          |       |
| 3.6 實效頻率範圍(Frequency Range)                                                                                                                                                                                                                         |                       |      |            |          |       |
| Fo ~ 20KHz (By Output S.P.L. -10dB)                                                                                                                                                                                                                 |                       |      |            |          |       |
| 3.7 失真率(Distortion)                                                                                                                                                                                                                                 |                       |      |            |          |       |
| Less than 5% (At 1.6KHz ,0.89Vrms)                                                                                                                                                                                                                  |                       |      |            |          |       |
| 3.8 工作溫度(Operating Temperature)                                                                                                                                                                                                                     |                       |      |            |          |       |
| -25℃ ~ +65℃                                                                                                                                                                                                                                         |                       |      |            |          |       |
| 3. 9 儲存溫度(Storage temperature)                                                                                                                                                                                                                      |                       |      |            |          |       |
| -25℃ ~ +65℃                                                                                                                                                                                                                                         |                       |      |            |          |       |
| 制 定                                                                                                                                                                                                                                                 | 审 核                   | 核 准  | 文 件 编 号    |          |       |
| 王前进                                                                                                                                                                                                                                                 | 唐海兵                   | 唐国兴  |            |          |       |

|           |                      |      |            |          |       |
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4.可靠性測試 (Reliability Test)

4.1 高低溫差循環測試(Temperature Cycling Test)



|   |                                                            |  |
|---|------------------------------------------------------------|--|
| A | Low Temperature (-25°C±3°C)                                |  |
| B | High Temperature (+65°C±3°C)                               |  |
| C | Number of Cycle (3 Cycles)                                 |  |
| D | Duration of Exposure 1 Hours, at Each Temperature Extremes |  |
| E | Duration of Recovery 1 Hours                               |  |

4.2 抗濕度試驗(Humidity Test)

|   |                             |                        |
|---|-----------------------------|------------------------|
| A | 相對濕度(Relative Humidity)     | 90-95% at + 40°C ± 3°C |
| B | 測試時間(Durations)             | 96 Hours               |
| C | 恢復時間(Durations of recovery) | 6 Hours                |

4.3 連續負載測試(Load Test)

White Noise Without Weighted Filter 4.0 Volts.(RMS) 96 Hrs.

4.4 跌落試驗(Drop Test)

75 cm Free Falling On Concrete Floor, 10 Times.

4.5 異常音測試(Buzzes & Rattles)

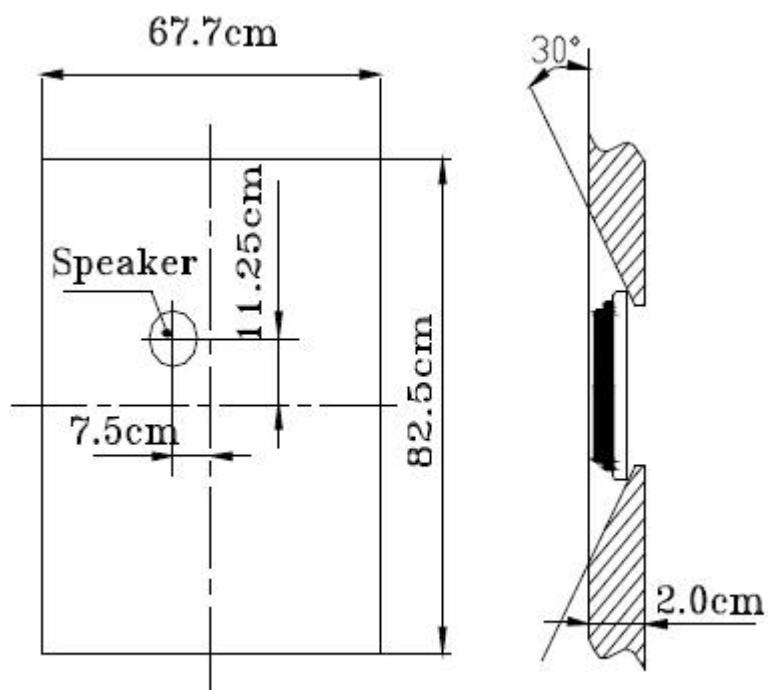
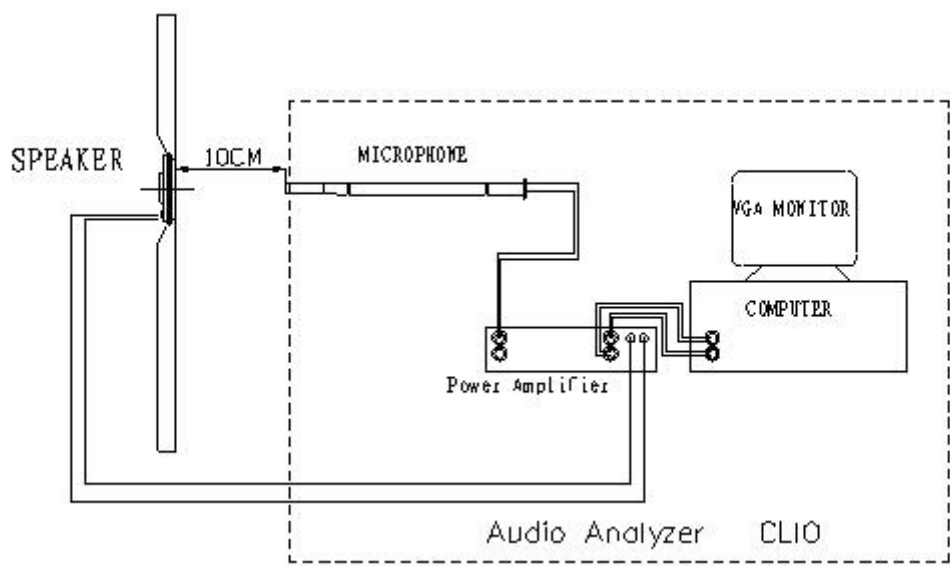
Sine wave between at 3.0Vrms / 200~5000Hz

4.6 極性測試(Polarity test)

Diaphragm Shall Move Forward When Apply a Positive DC. Current to the “+”or “Marked” Terminal.

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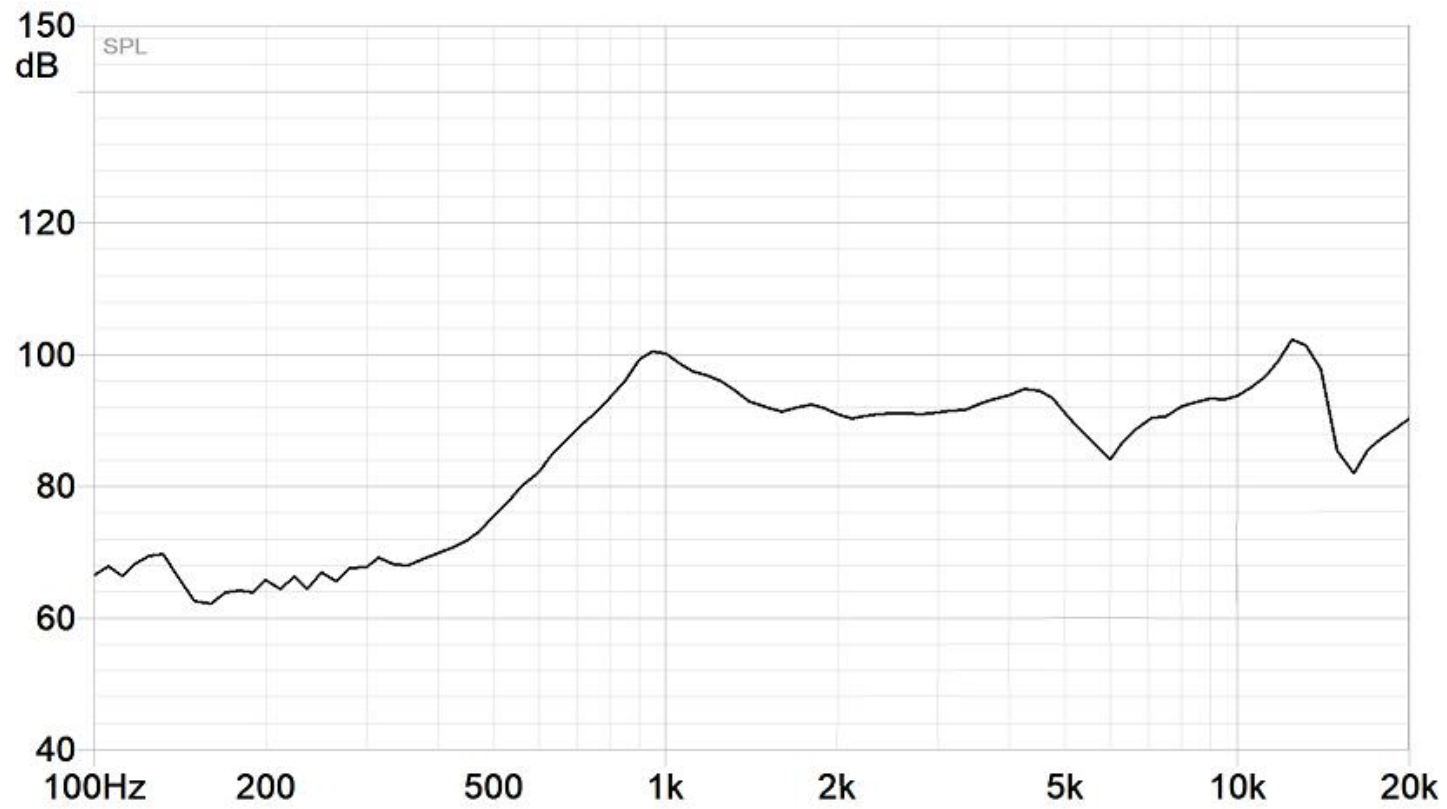
5.測量方式 (Measurement Method)



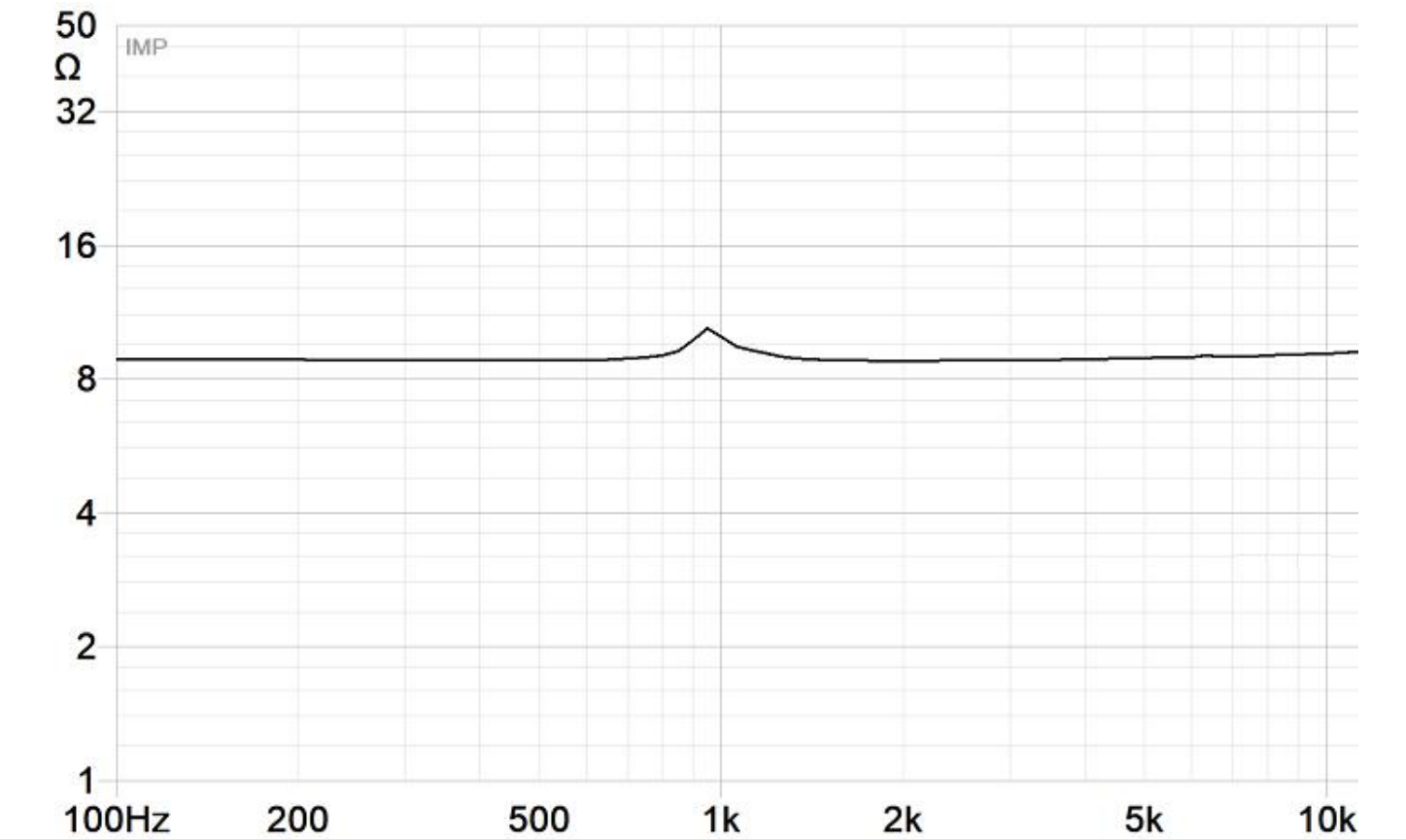
產品規格內容 (SPECIFICATION)

|           |                       |      |            |          |     |
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6. 頻率響應曲線圖(Frequency Response Curve)



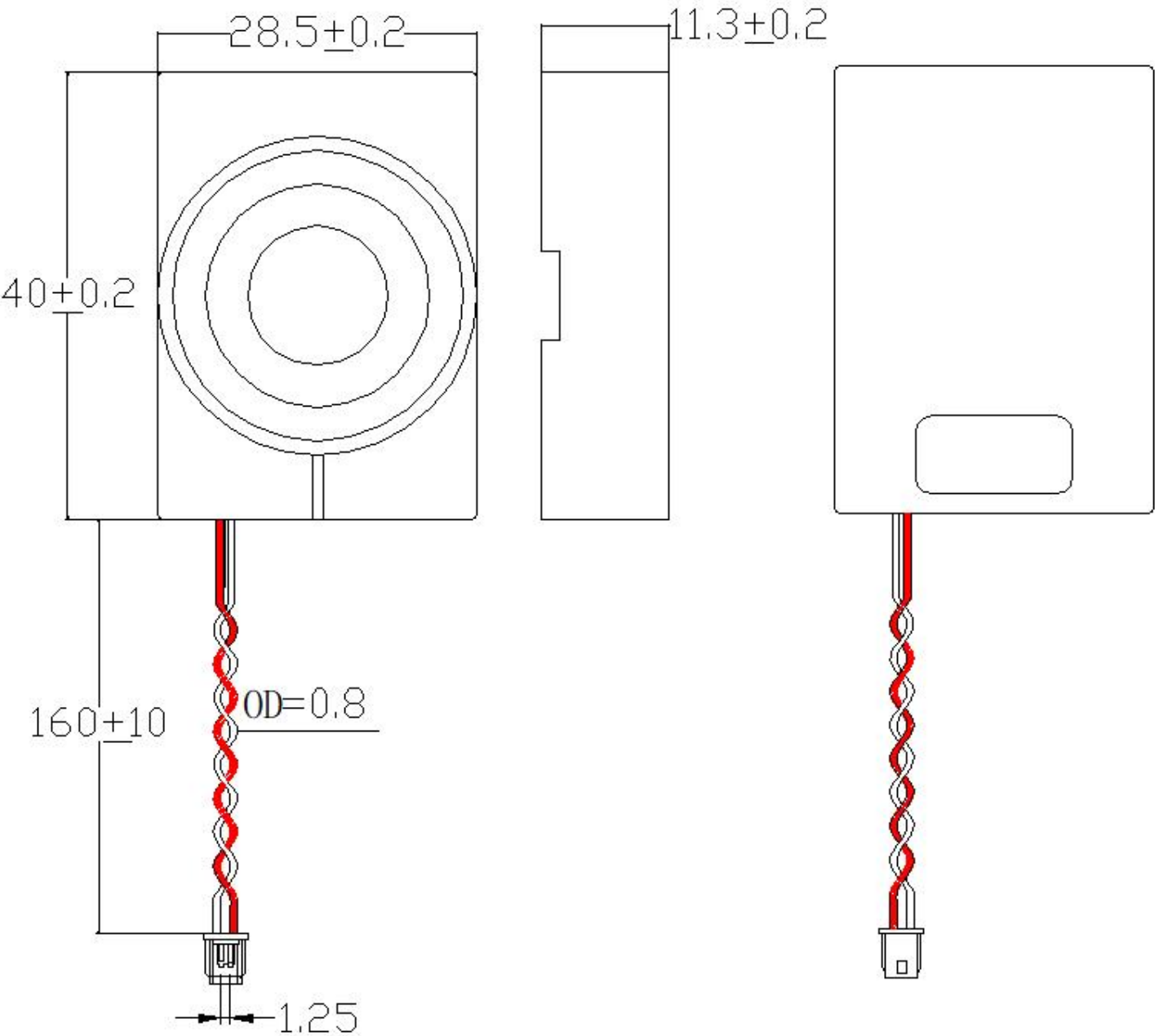
7. 阻抗曲線圖(Impedance Curve)



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8. 喇叭外觀描述

(Unit:mm tolerance:±0.3)



產品規格內容 (SPECIFICATION)

|           |                       |      |            |          |     |
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10.包裝示意圖(Packing Standard):

(Unit:cm tolerance:±3)

PACKING STANDARD:

