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)：XHXDZ-4330BOX-1.25-L160MM

產品名稱(Description)：喇叭(Speaker)

產品規格(Specification)：4Ω

客戶承認欄 (Customer Authorization Signature)	深圳市興華鑫電子科技有限公司 承認欄 (Supplier Audit)		
	審核	檢查	制作
	唐国兴	唐海兵	王前进
	日期： 2026 年 01 月 14 日 版次：A		

深圳市兴华鑫电子科技有限公司 工程专用章

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深圳市兴华鑫电子科技有限公司

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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):

4.0Ω ± 20% (AT 1.6K Hz ,1.0 Vrms)

3.2 額定輸入功率(Rated Input Power)

3.0 Watt (At 3.47 Vrms white noise 96 Hours)

3.3 最大輸入功率(Max. Input Power)

3.5Watt

3.4 最低共振頻率(Resonant Frequency)

1000Hz ± 20%

3.5 輸出音壓(Output S.P.L)

98± 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 ,0.63Vrms)

3.8 工作溫度(Operating Temperature)

-25℃ ~ +65℃

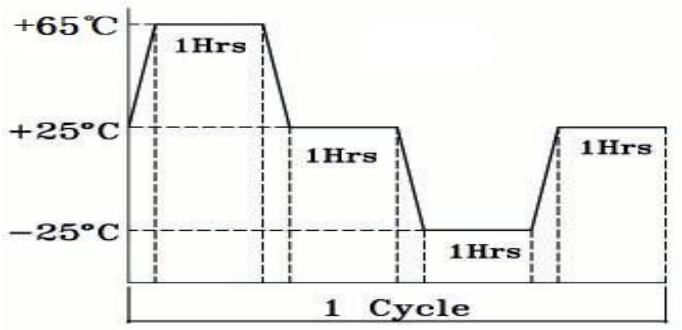
3. 9 儲存溫度(Storage temperature)

-25℃ ~ +65℃

制 定	审 核	核 准	文 件 编 号
王前进	唐海兵	唐国兴	

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℃±3℃)
B	High Temperature (+65℃±3℃)
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℃ ± 3℃
B	測試時間(Durations)	96 Hours
C	恢覆時間(Durations of recovery)	6 Hours

4.3 連續負載測試(Load Test)

White Noise Without Weighted Filter 3.47 Volts.(RMS) 96 Hrs.

4.4 跌落試驗(Drop Test)

75 cm Free Falling On Concrete Floor, 10 Times.

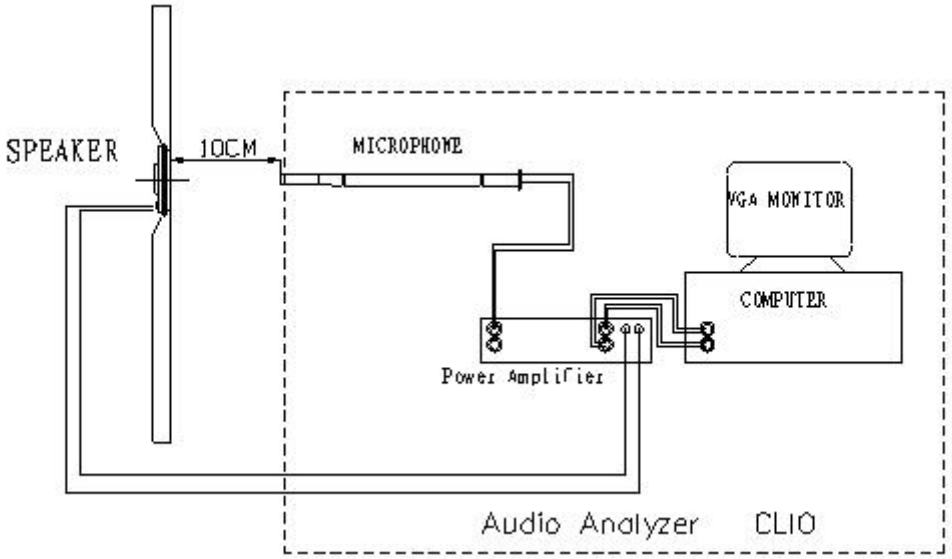
4.5 異常音測試(Buzzes & Rattles)

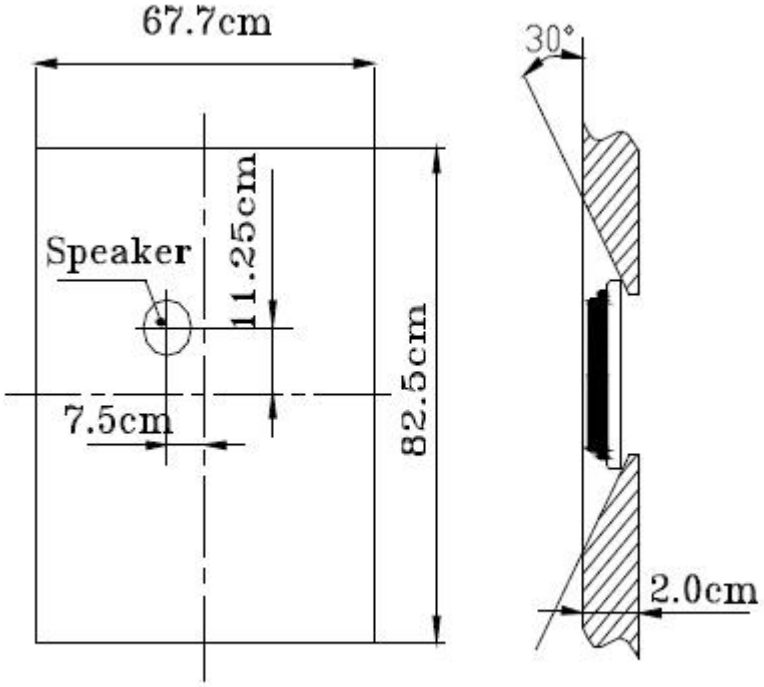
Sine wave between at 3.0Vrms / 200~5000Hz

4.6 極性測試(Polarity test)

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

5.測量方式 (Measurement Method)





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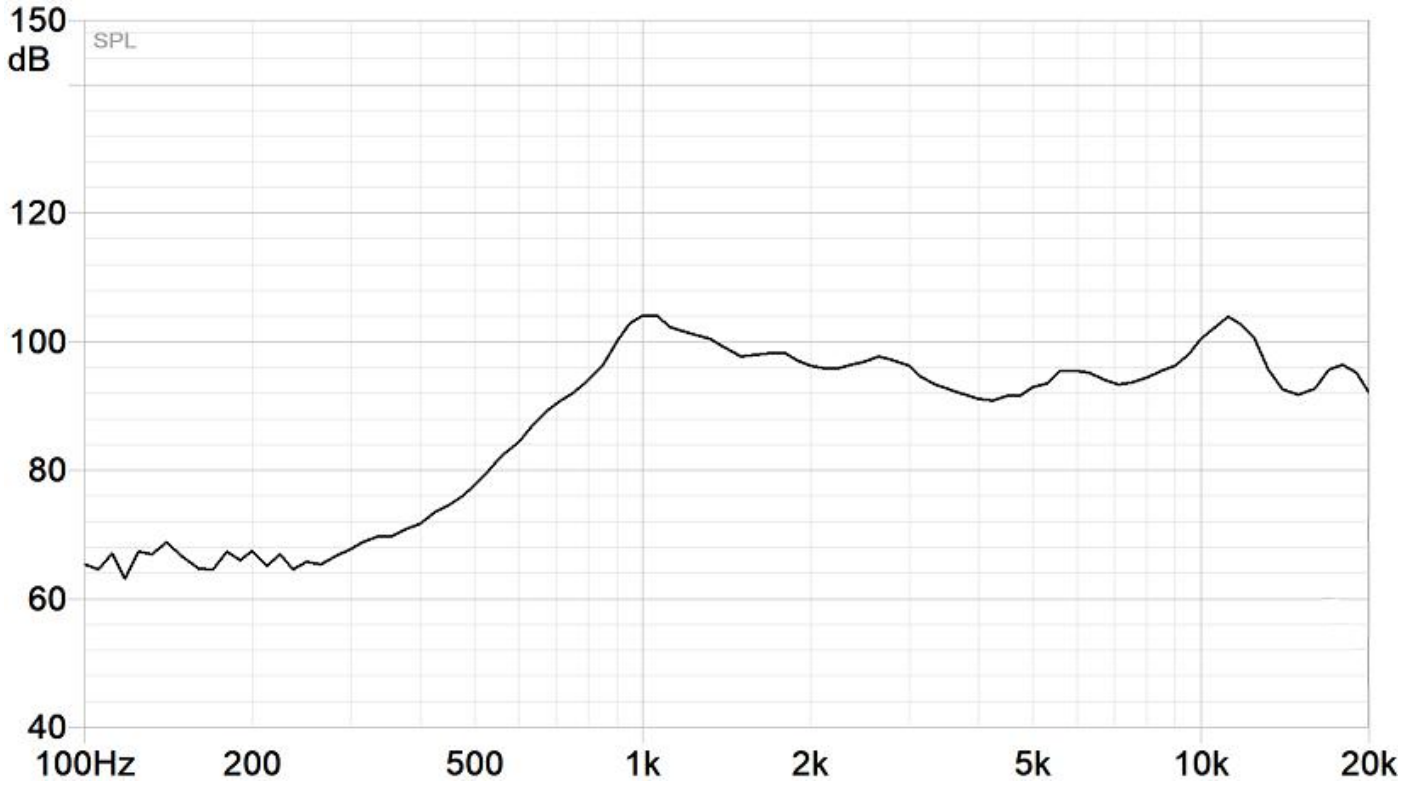
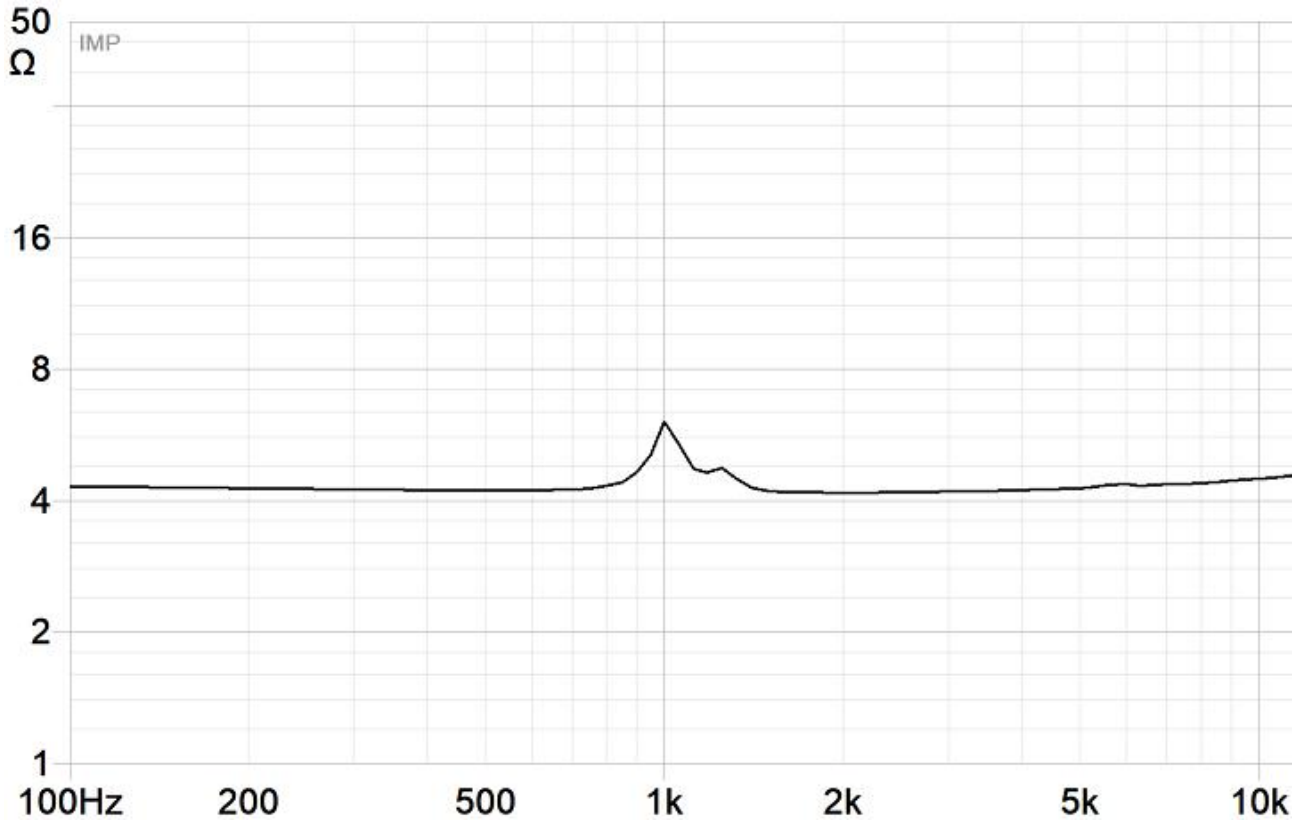
6. 頻率響應曲線圖(Frequency Response Curve)



7. 阻抗曲線圖(Impedance Curve)



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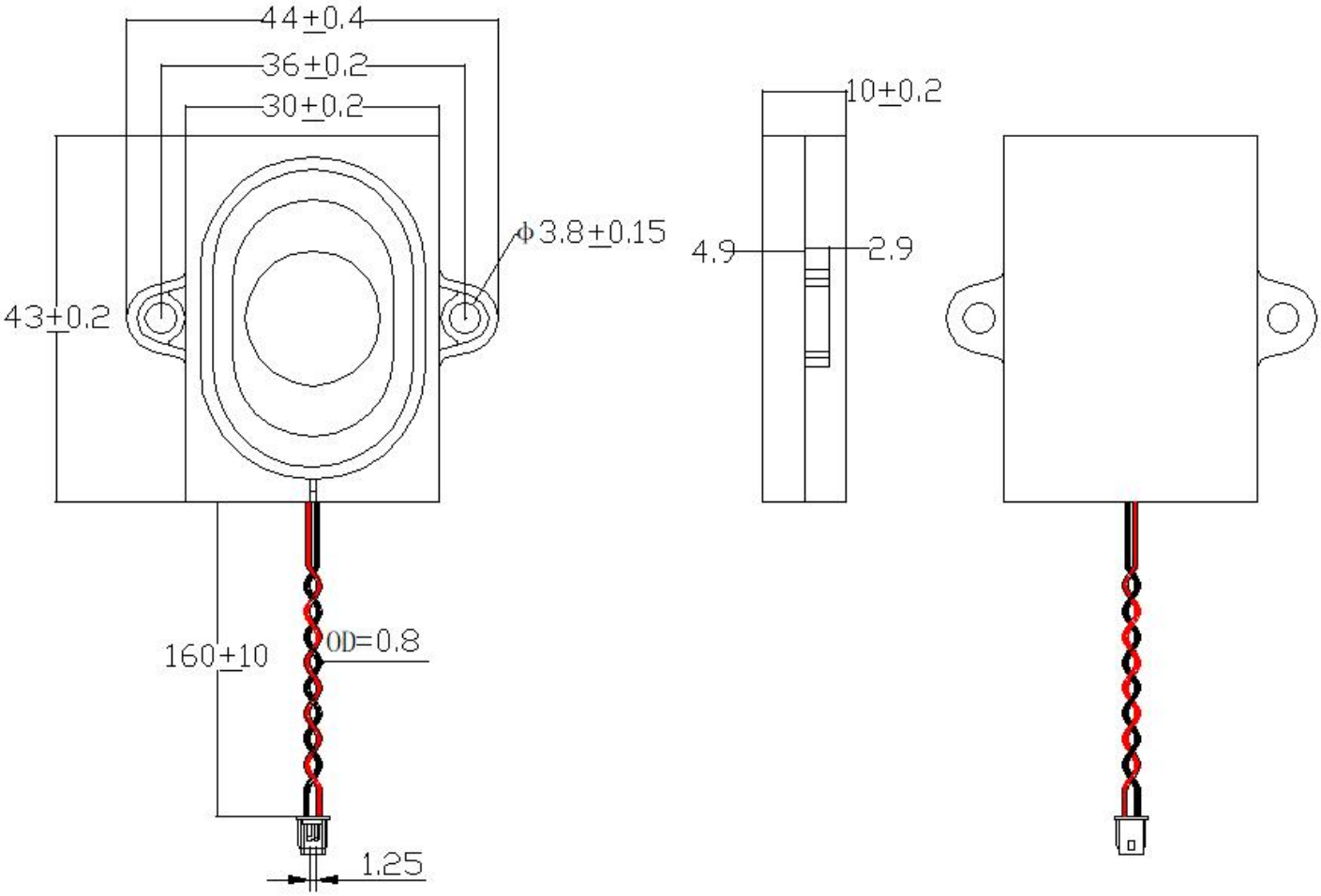
8. 喇叭外觀描述

（Unit:mm　tolerance:±0.3）



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10.包裝示意圖(Packing Standard):

（Unit:cm tolerance:±3）