



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-4230 腔体-4 欧 3 瓦
產品名稱 (Description): 喇叭 (Speaker)
產品規格 (Specification): _____

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	制作
	唐国兴	田鑫
	日期: 2024 年 06 月 18 日 版次: A	

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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 $20 \pm 2^{\circ}\text{C}$ ，相对湿度 60%~70%，气压 860~1060 hPa.

The test conditions unless otherwise specified should be normal temperature 5 to 35 $^{\circ}\text{C}$, 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 be as follows:

Temperature $20 \pm 2^{\circ}\text{C}$

Humidity 60%~70%

Atmosphere 860~1060 hPa

3.電聲特性 (ELECTRO-ACOUSTIC CHARACTERISTICS)

3.1 額定阻抗(Rated Impedance):

$4\Omega \pm 15\%$ (AT 1.6K Hz ,4.0 Vrms)

3.2 額定輸入功率(Rated Input Power)

3Watt (At 4.0Vrms white noise 96 Hours)

3.3 最大輸入功率(Max. Input Power)

3.2 Watt

3.4 最低共振頻率(Resonant Frequency)

$1500\text{ Hz} \pm 20\%$

3.5 輸出音壓(Output S.P.L)

$98 \pm 3\text{dB}$ (1.0 Watt , 0.1 Meter. Average at 1.5K,2.0K,2.5K,3.0K 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 , 4.0Vrms)

3.8 工作溫度(Operating Temperature)

$-25^{\circ}\text{C} \sim +50^{\circ}\text{C}$

3.9 儲存溫度(Storage temperature)

$-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$

制 定

审 核

核 准

文 件 编 号

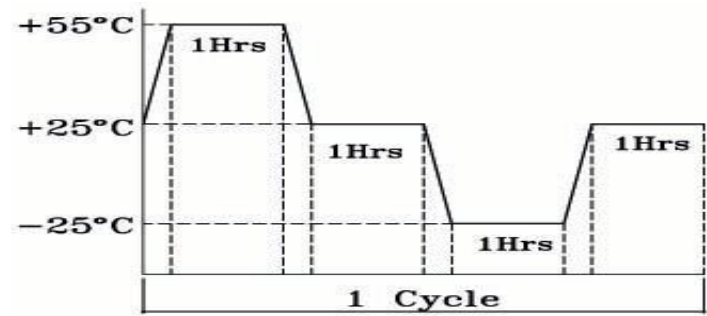
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4.可靠性測試 (Reliability Test)

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



A	Low Temperature (-25°C±3°C)
B	High Temperature (+55°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 4.0Volts.(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 4.0Vrms / 50~5000Hz

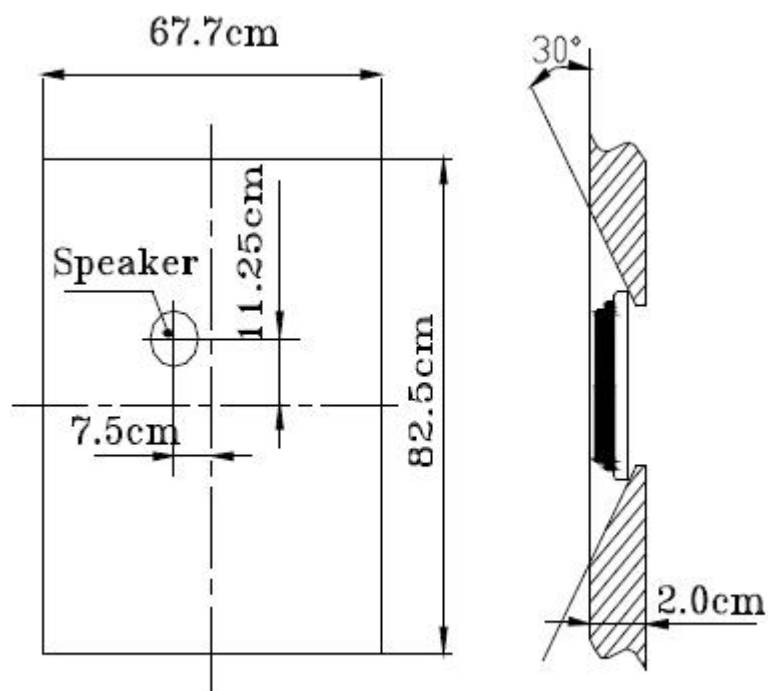
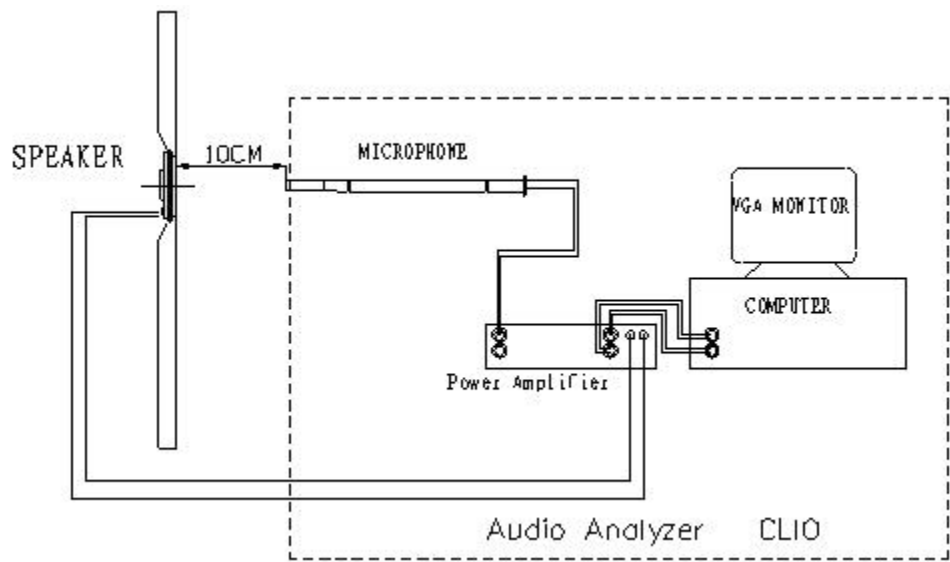
4.6 極性測試(Polarity test)

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

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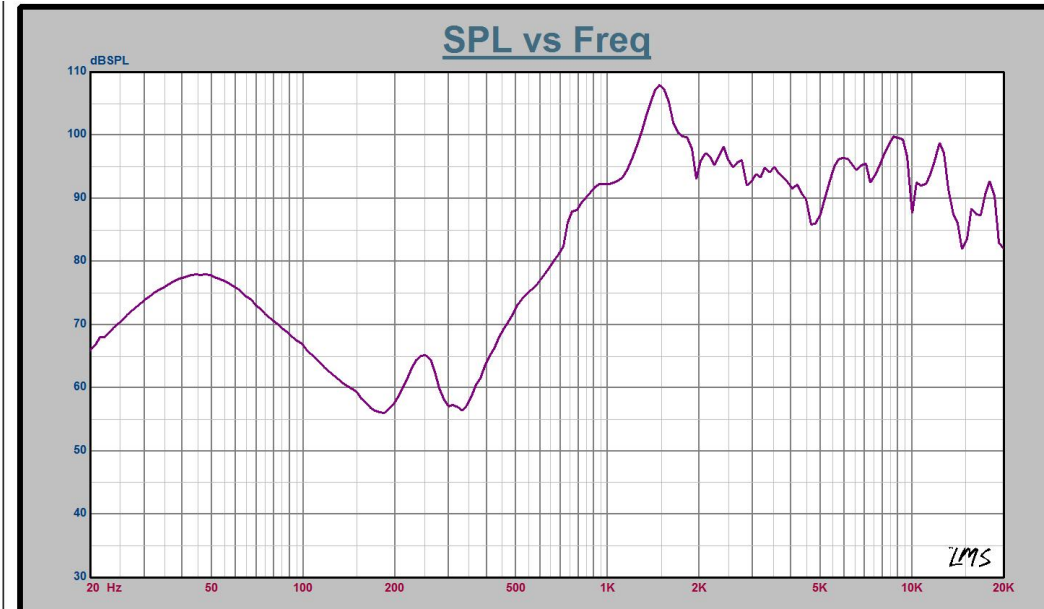
5.測量方式 (Measurement Method)



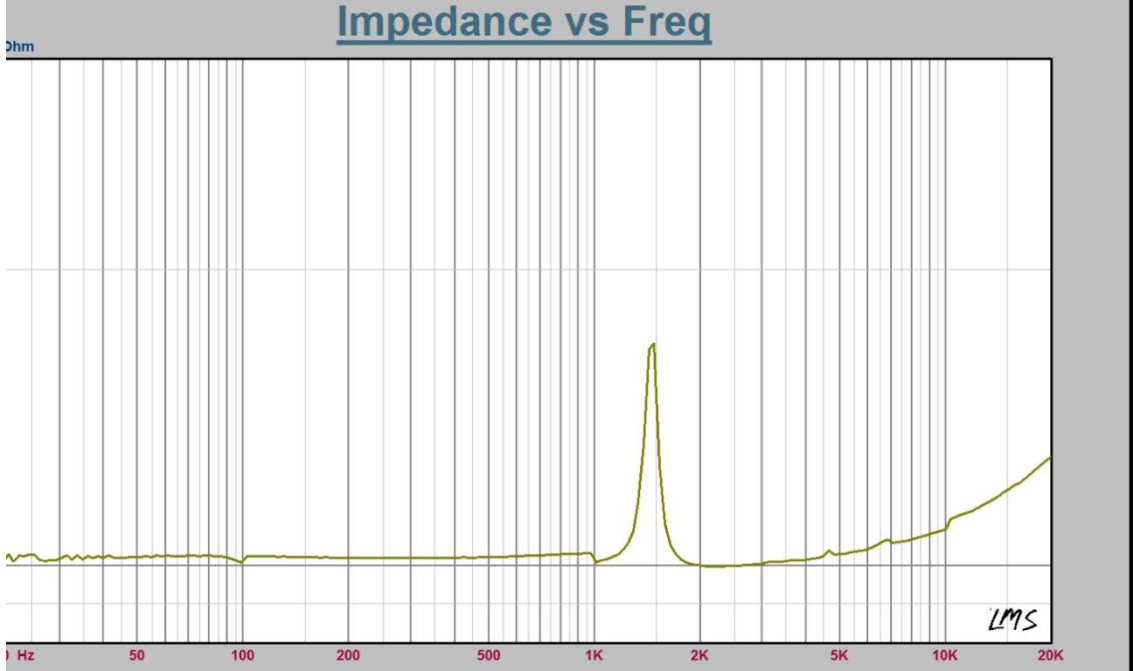
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6. 頻率響應曲線圖(Frequency Response Curve)



7. 阻抗曲線圖(Impedance Curve)



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8. 喇叭外觀描述

(Unit:mm tolerance:±0.3)

