



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): 4049BOX-4 Ω 3W-2P1.25

產品名稱 (Description): 喇叭 (Speaker)

產品規格 (Specification): 40*49MM 2P1.25 端子

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	唐玉来	吴银娟
	日期: 2025 年 05 月 23 日 版次: A		

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地址: 深圳市宝安区新安街道新乐社区新乐路 88 号厂房四层

TEL: 0755-27892904

E-mail: jacky.tang@jsxhxdz.com

Http: www.jsxhxdz.com

深圳市兴华鑫电子科技有限公司

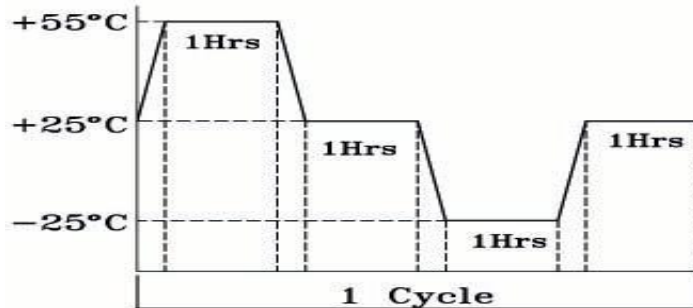
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產品規格內容 (SPECIFICATION)					
1.使用範圍 (Scope)					
此份規格書是針對多媒體產品內，所使用的微型揚聲器單體所提出的報告。					
This specification covers our product of miniature speaker unit for multimedia product.					
2.标准测试条件(Test condition)					
一般规格试验状态（特殊要求除外）：常温 5~35℃，常湿 45%~85%，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):					
4Ω ± 15% (AT 1.6K Hz ,1.0 Vrms)					
3.2 額定輸入功率(Rated Input Power)					
3.0 Watt (At 3.46Vrms 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)					
600 Hz ± 20%					
3.5 輸出音壓(Output S.P.L)					
95 ± 3dB (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 , 3.46 Vrms)					
3.8 工作溫度(Operating Temperature)					
-25℃ ~ +50℃					
3. 9 儲存溫度(Storage temperature)					
-25℃ ~ +55℃					
制 定	审 核	核 准	文 件 编 号		
吴银娟	唐玉来	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 (+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 3.46Volts.(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)

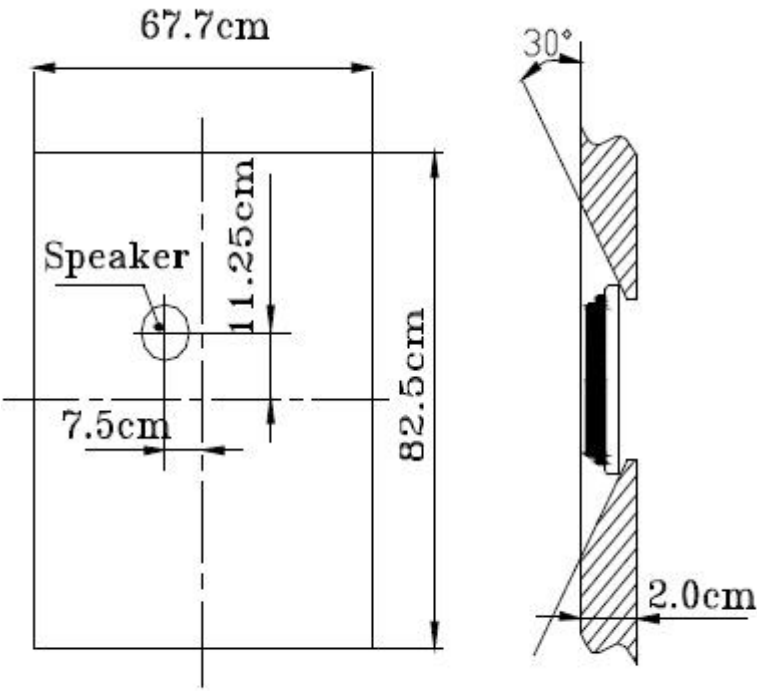
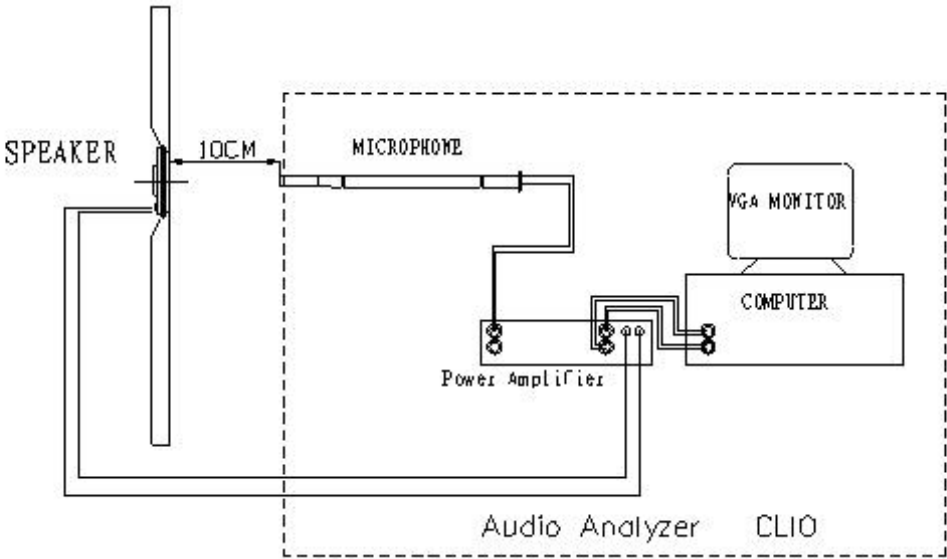
Sine wave between at 3.46Vrms / 50~5000Hz

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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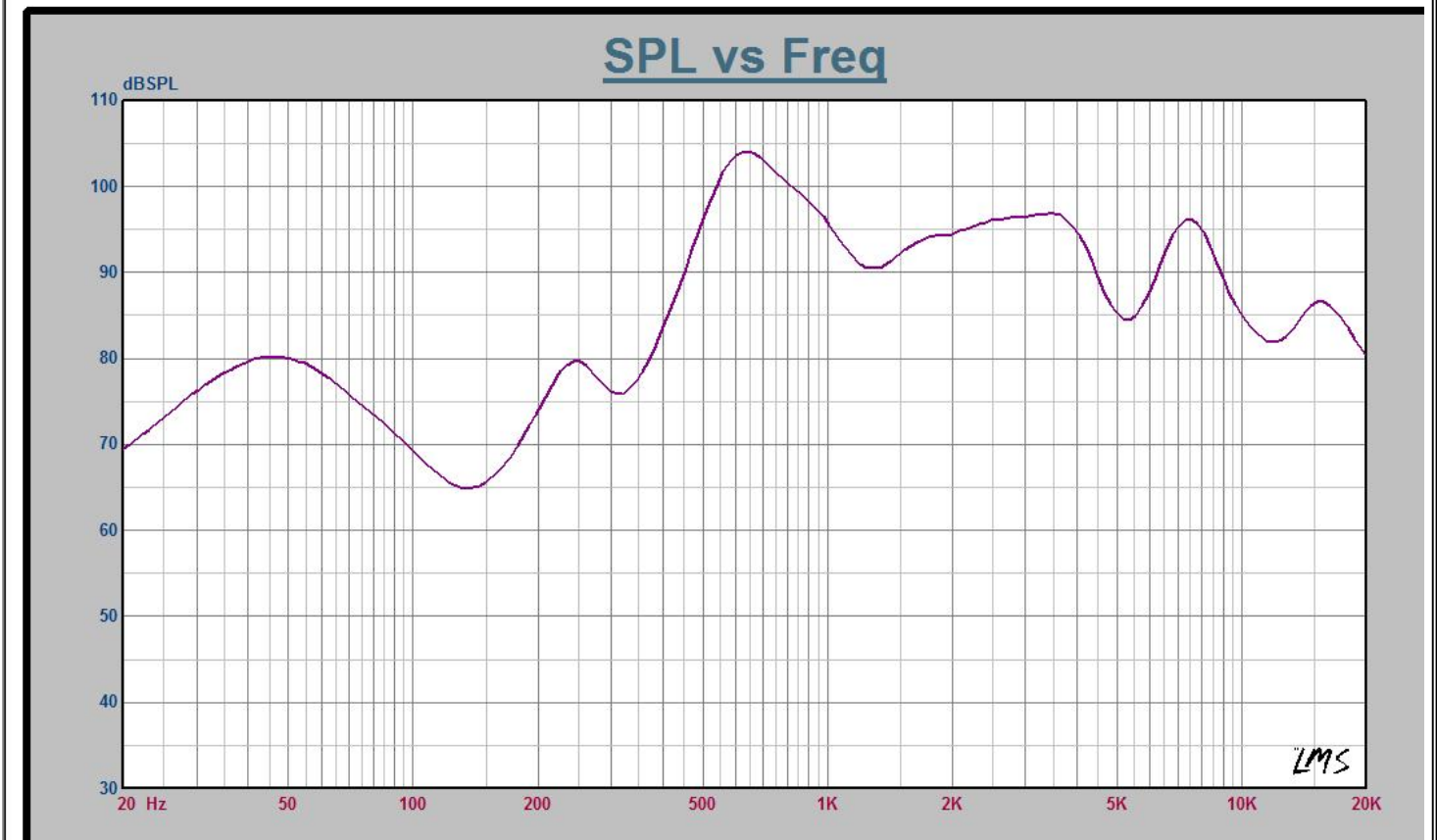
5.測量方式 (Measurement Method)



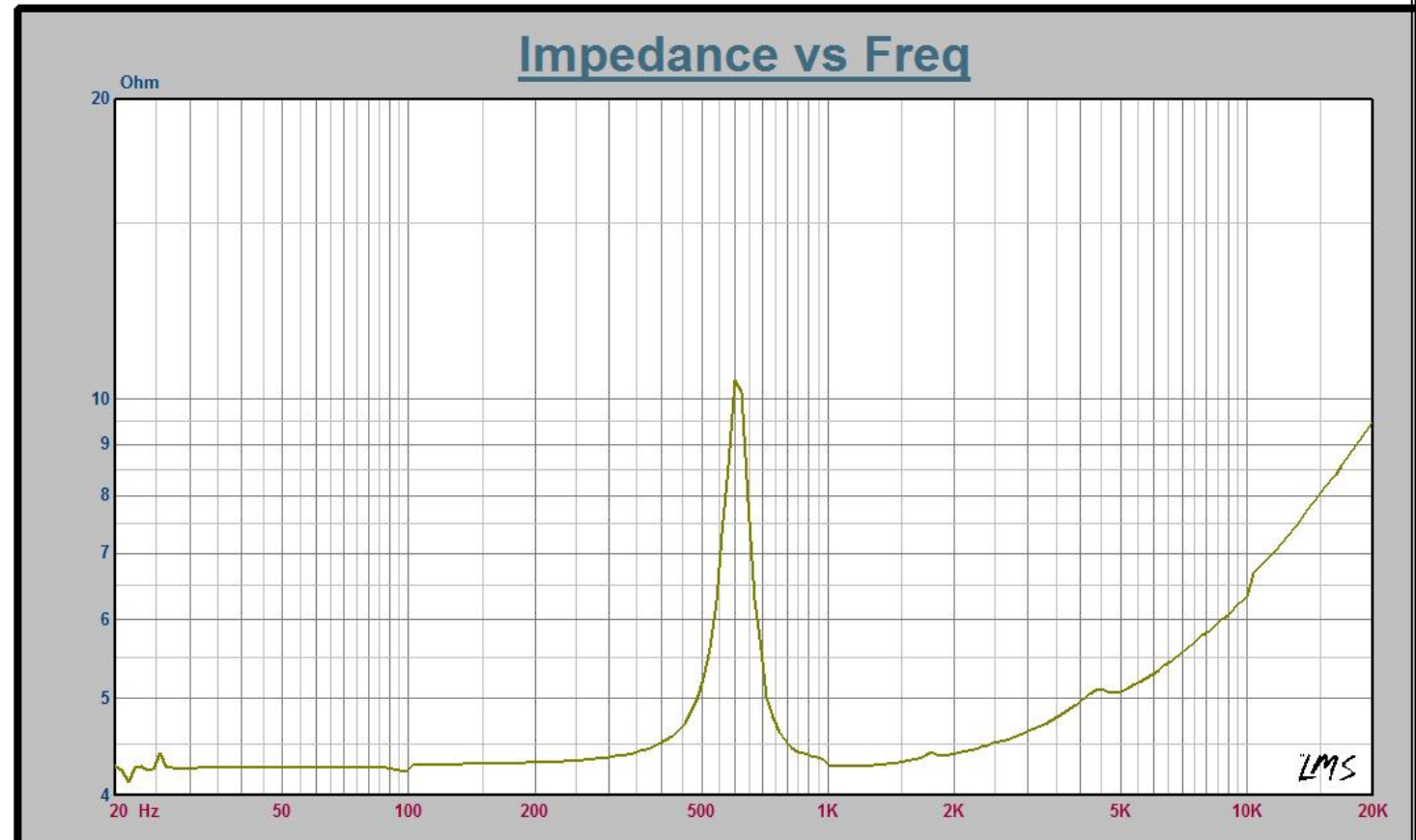
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6. 頻率響應曲線圖(Frequency Response Curve)



7. 阻抗曲線圖(Impedance Curve)



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8. 喇叭外觀描述
(Unit:mm tolerance:±0.3)

