



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-2809-8 Ω 1W

產品名稱 (Description):

喇叭 (Speaker)

產品規格 (Specification):

28*9MM 塑膠內磁

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: 2022 年 04 月 19 日 版次: A		

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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 be as 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)

0.8 Watt (At 2.0 Vrms white noise 96 Hours)

3.3 最大輸入功率(Max. Input Power)

1.0Watt

3.4 最低共振頻率(Resonant Frequency)

900 Hz ± 20%

3.5 輸出音壓(Output S.P.L)

88± 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 , 2.83 Vrms)

3.8 工作溫度(Operating Temperature)

-25℃ ~ +50℃

3.9 儲存溫度(Storage temperature)

-25℃ ~ +55℃

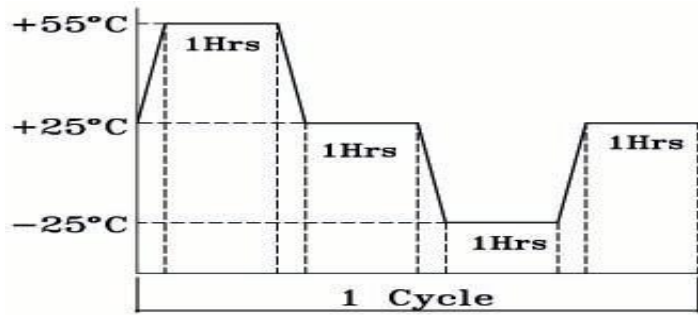
制 定	审 核	核 准	文 件 编 号
唐海兵	唐国兴		

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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)



The diagram shows a temperature profile over one cycle. The y-axis represents temperature in degrees Celsius, with marked points at +55°C, +25°C, and -25°C. The x-axis represents time, with a total duration of 1 Cycle. The profile consists of four rectangular pulses, each labeled '1Hrs'. The first pulse is at +55°C, the second at +25°C, the third at -25°C, and the fourth at +25°C. The pulses are separated by recovery periods.

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 2.5 Volts.(RMS) 100 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)

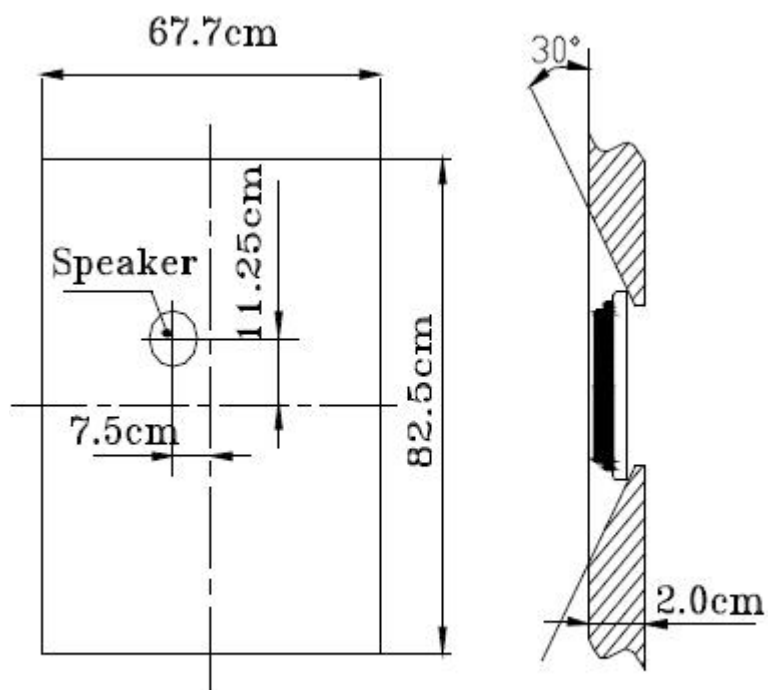
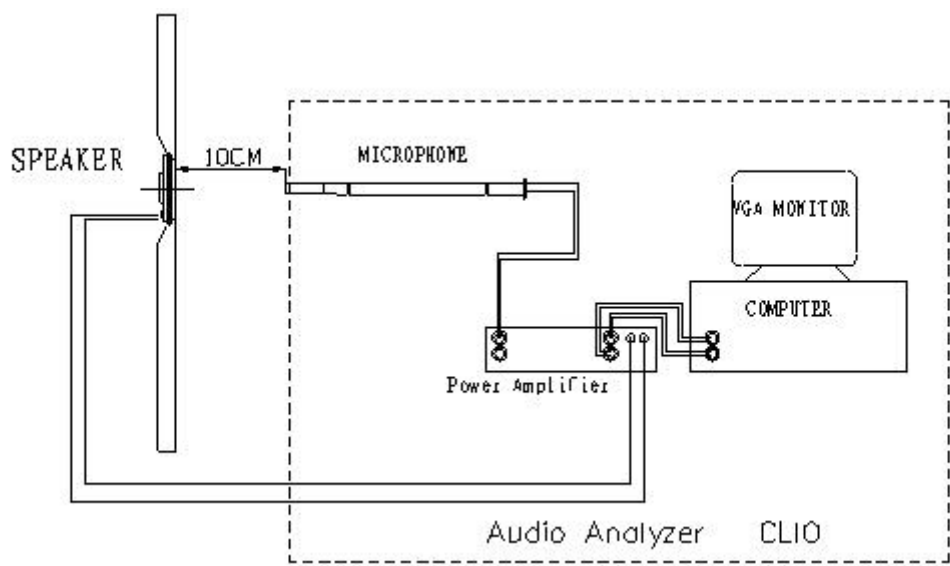
Sine wave between at 2.5Vrms / 200~5000Hz

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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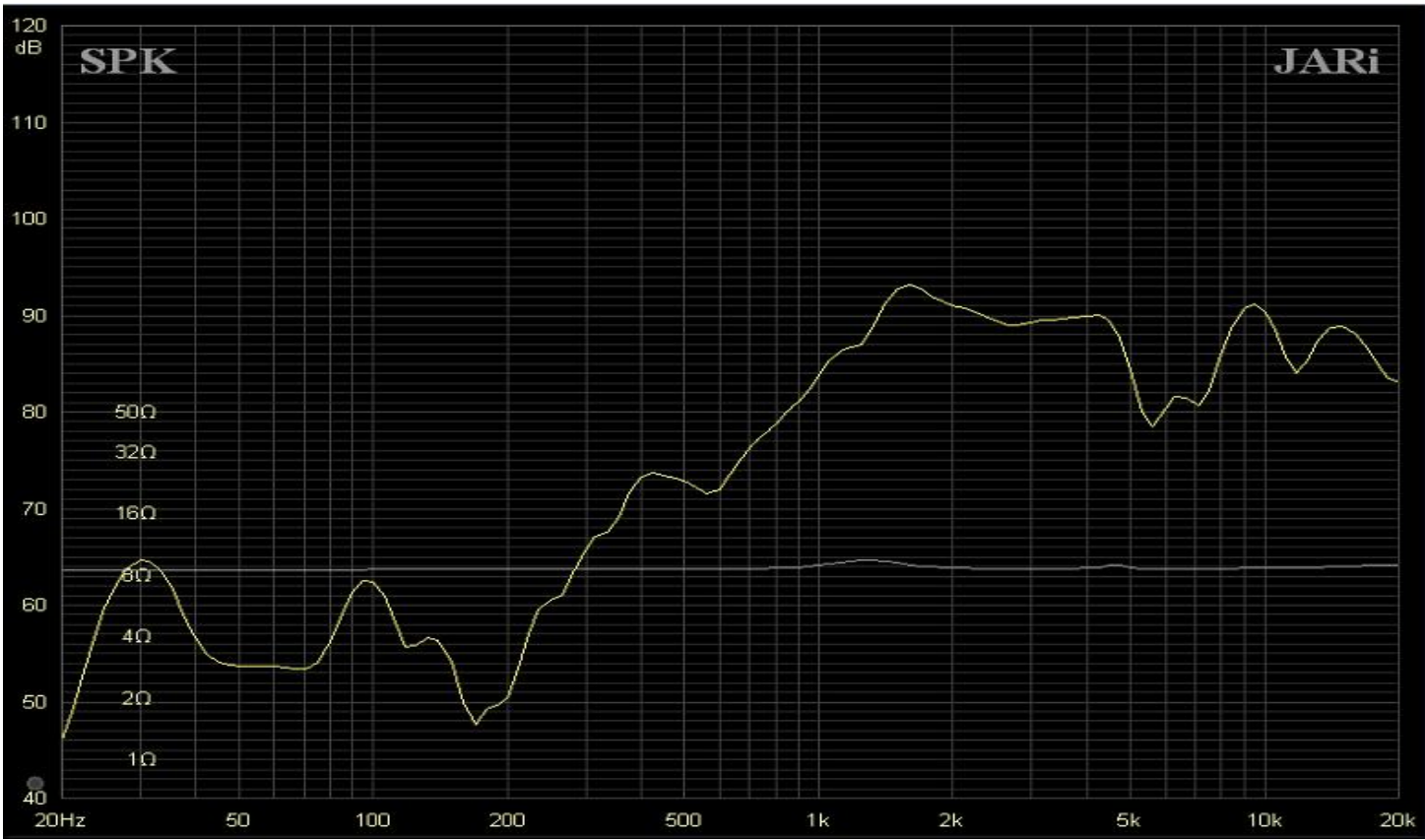
5.測量方式 (Measurement Method)



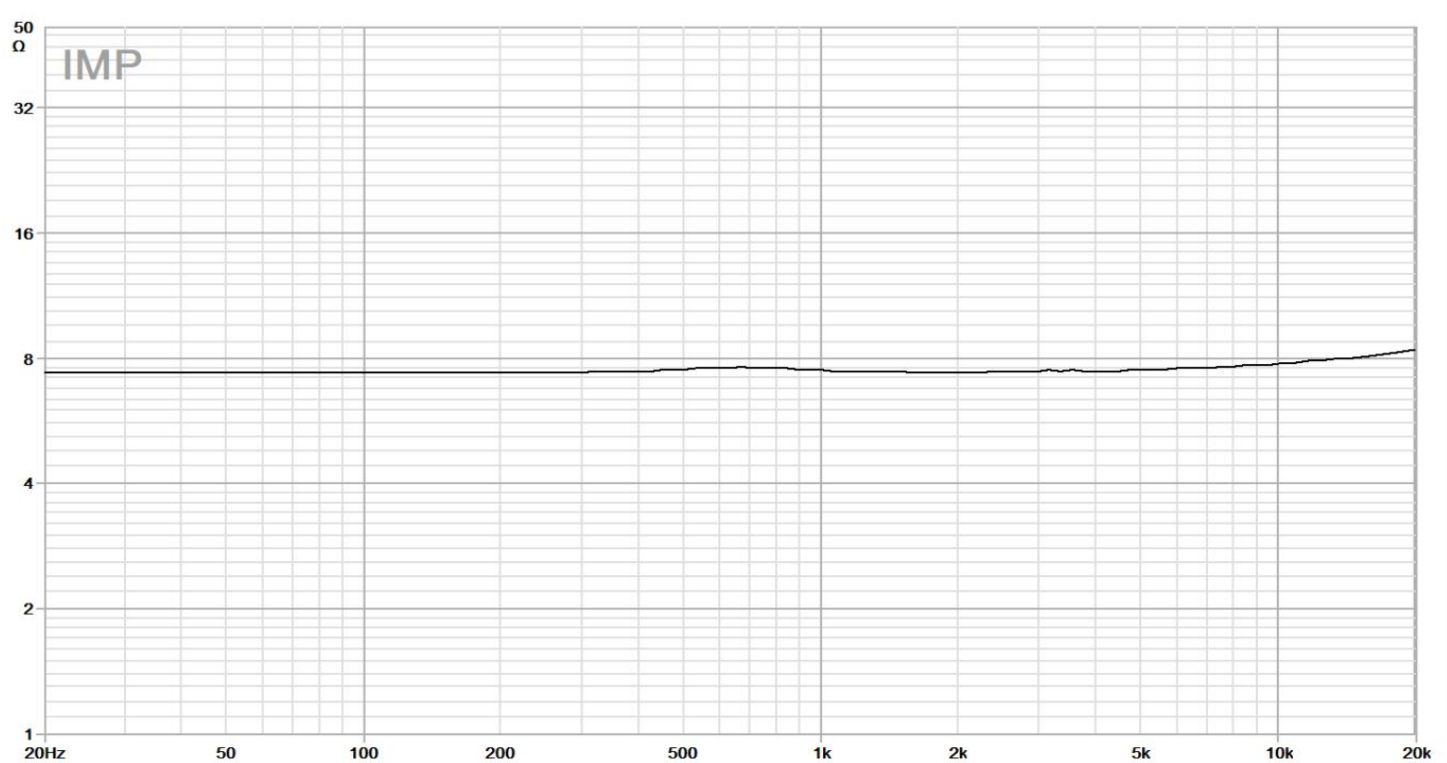
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6. 頻率響應曲線圖(Frequency Response Curve)



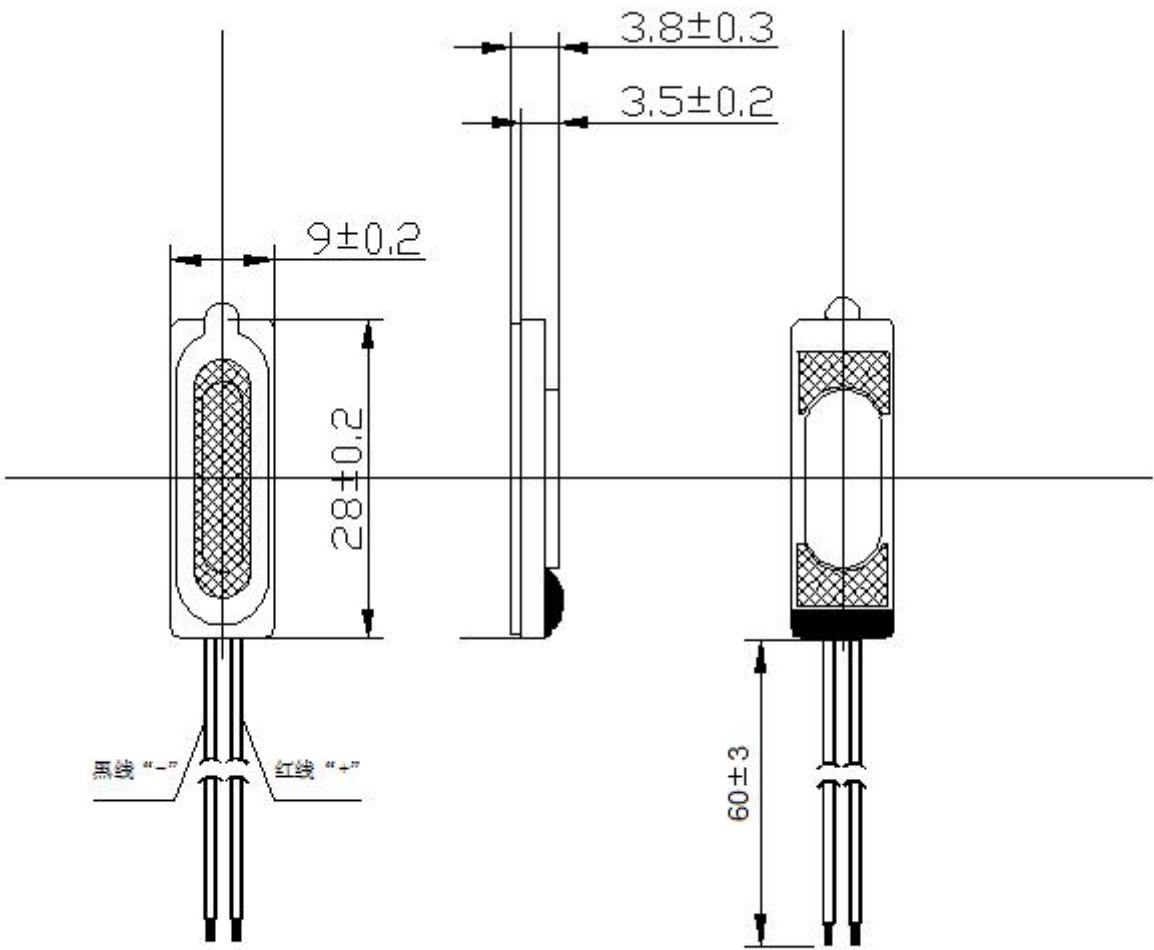
7. 阻抗曲線圖(Impedance Curve)



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8. 喇叭外觀描述

(Unit:mm tolerance:±0.3)



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9.包裝示意圖(Packing Standard):
(Unit:cm tolerance:±3)

PACKING STANDARD:

