



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-20MM-8  $\Omega$  1W

產品名稱 (Description):

喇叭 (Speaker)

產品規格 (Specification):

20MM 塑膠內磁

|                                                |                                        |     |     |
|------------------------------------------------|----------------------------------------|-----|-----|
| 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                                    | 唐玉来 | 吴银娟 |
|                                                | 日期: 2022 年 04 月 19 日<br>版次: A          |     |     |

声音让生活更精彩!

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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 °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±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

## 產品規格內容 (SPECIFICATION)

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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 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)



產品規格內容 (SPECIFICATION)

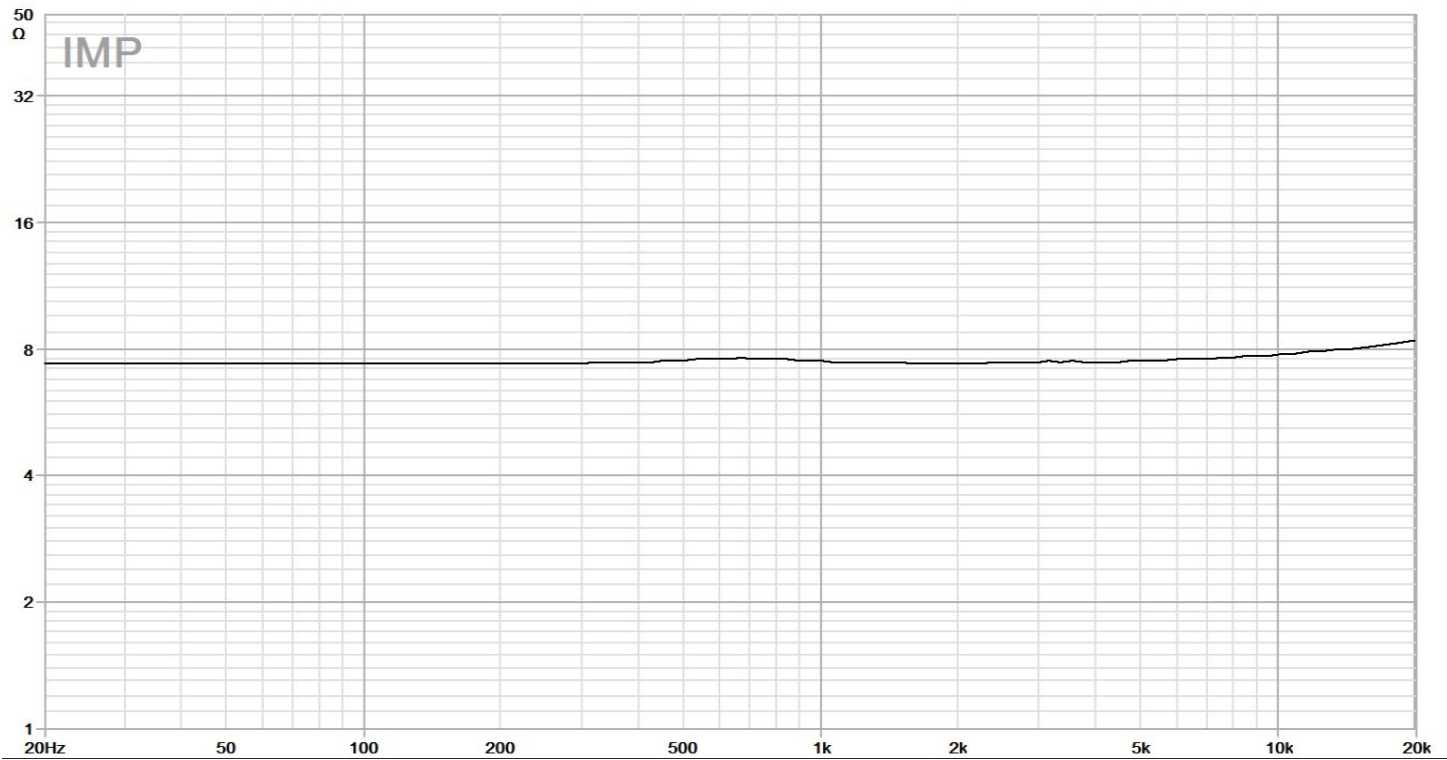
|           |                  |      |            |          |     |
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6. 頻率響應曲線圖(Frequency Response Curve)



|    |                                                   |                |              |              |
|----|---------------------------------------------------|----------------|--------------|--------------|
| 结果 | Polar: + --                                       | Avg.Sen: -- -- | F0: 816.9 -- | Zmax: 8.8 -- |
| 参数 | 扬声器: 测试电压[89.4 mV] 倍频程[1/12 Oct] 扫频范围[20-20000Hz] | M_Avg --       | 线控按钮Ohm:     |              |
|    | 传声器: 测试声压[94 dB] 倍频程[1/24 Oct] 扫频范围[20000-20Hz]   |                |              |              |

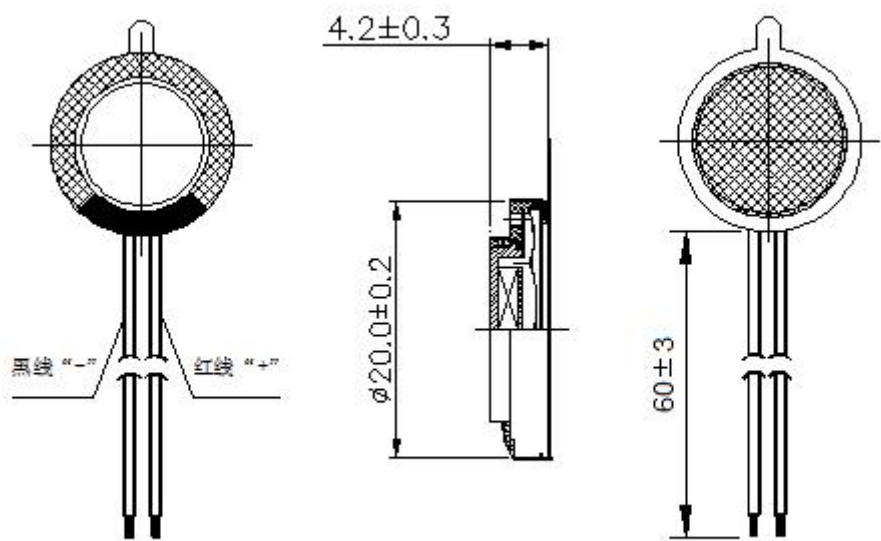
7. 阻抗曲線圖(Impedance Curve)



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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:

