



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-1712-8  $\Omega$  1W

產品名稱 (Description):

喇叭 (Speaker)

產品規格 (Specification):

塑膠內磁 雙磁

|                                                |                                        |     |     |
|------------------------------------------------|----------------------------------------|-----|-----|
| 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          |     |     |

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## 产品规格内容

## 1. SCOPE

This specification cover our product of speaker for use in your products.

## 2. MECHANICAL LAYOUT & DIMENSIONS

Shown in Fig.5

### 3. GENERAL REQUIREMENTS

**3.1 WEIGHT:** Approx      gram

### 3.2 OPERATING TEMPERATURE RANGE: -25°C to +65°C

### 3.3 STORAGE TEMPERATURE RANGE: -25°C to +65°C

### 3.4 STANDARD CONDITIONS:

Temperature: 17~25℃

Relative Humidity: 45%~80% (RH)

Air Pressure: 860~1060hPa

### 3.5 JUDGEMENT CONDITIONS:

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

Relative Humidity: 60%~70% (RH)

Air Pressure: 860~1060hPa

#### 4. SPEAKER MODE

#### 4.1 SOUND PRESSURE LEVEL

**88±3dB SPL** At 800, 1000, 1200, 1500Hz in average (0dB SPL=20 μPa)

Input voltage: 0.1W(Sine wave)0.1M Measured baffler recommended.

**4.2 IMPEDANCE:**  $8 \pm 15\%$  ohm (at 1000Hz 1.0V)

#### 4.3 RESONANCE FREQUENCY: $1100 \pm 20\%$ Hz at 1V. (No Baffler)

**4.4 TOTAL HARMONIC DISTORTION:** Less than 5% at 1KHz,0.1m,0.1W

**4.5 MEASURING CIRCUIT:** Shown in Fig.1.

**4.6 FREQUENCY RESPONSE CURVE:** Shown in Fig. 2.

**4.7 RATED POWER: 0.5 W. MAX POWER: 1.0 W.**

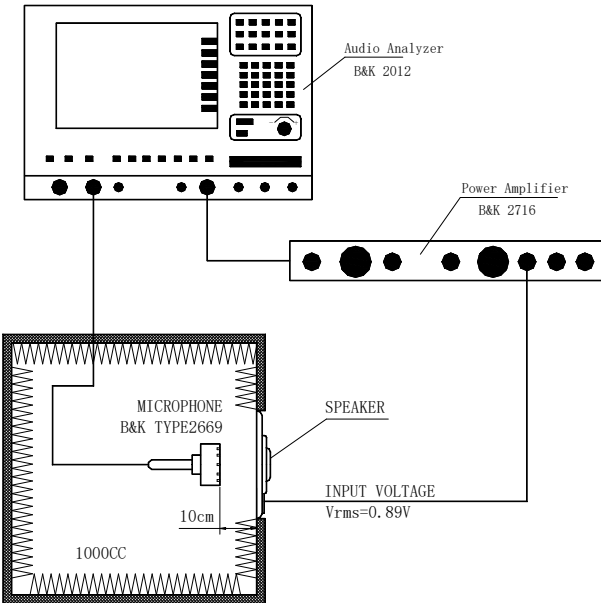
4. 8 **PURE SOUND DETECTION:** Buzz,Rattle,etc Should not be audible at 2.0V sine wave from 200 Hz to 5K Hz.

**4. 9 POLARITY:** When a positive DC current is applied to the terminal marked (+), diaphragm shall move forward.

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## 产品规格内容

### ■ FREQUENCY MEASURING CIRCUIT (Fig. 1)



### ■ FREQUENCY RESPONSE CURVE (Fig. 2)



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## 产品规格内容

### 5. RELIABILITY TESTS

#### ① AFTER TEST

Sensitivity difference shall be within  $\pm 3\text{dB}$  after test (at  $800\sim 1500\text{KHz}$  average value), pure sound detection is normal  
when the sample is recovered 4 hours at house temperature

#### ② HIGH TEMPERATURE TEST

High temperature:  $+65^{\circ}\text{C} \pm 2^{\circ}\text{C}$

Duration : 96 hours

#### ③ LOW TEMPERATURE TEST

Low temperature :  $-25^{\circ}\text{C} \pm 2^{\circ}\text{C}$

Duration : 96 hours

#### ④ HUMIDITY TEST

Temperature :  $+30^{\circ}\text{C} \pm 2^{\circ}\text{C}$

Relative humidity: 90~95%

Duration : 96 hours

#### ⑤ TEMPERATURE CYCLE TEST (See in Fig.3)

Temperature :  $-25^{\circ}\text{C}$   $+65^{\circ}\text{C}$

Duration : 2 hours 2 hours

Cycle : 6 cycle

#### ⑥ VIBRATION TEST

Vibration : 10-55Hz/min

Amplitude : 1.5mm

Duration : 2 hours each axes

#### ⑦ DROP TEST(With handset or Approved equipment) See in Fig.4

Height : 1.5 m

Cycle : 6 cycles onto the 5mm board

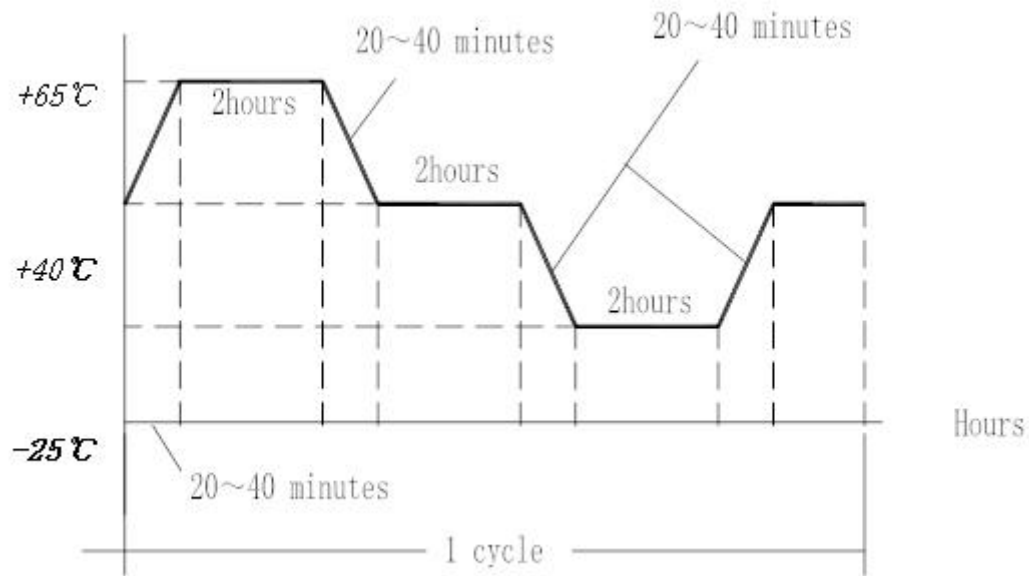
#### ⑧ LOAD TEST

Subject samples to White Noise for 24 hours at 0.5 W input power.

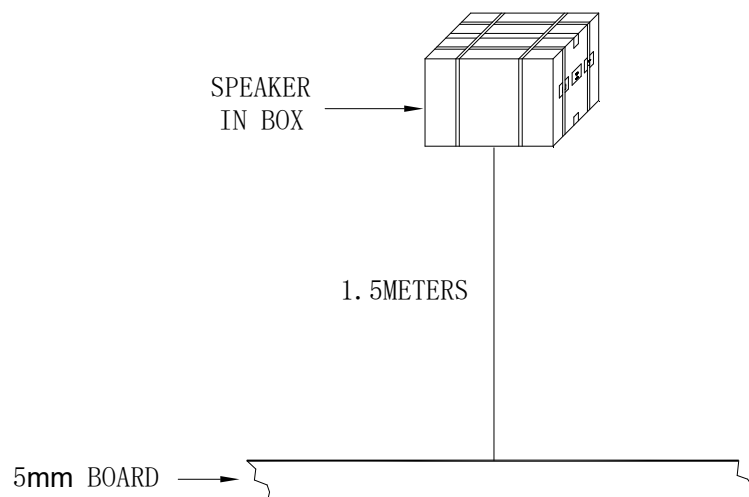
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## 产品规格内容

### ■ TEMP. CYCLE TEST (Fig. 3)



### ■ DROP TEST (Fig. 4)



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## 产品规格内容

### ■ DIMENSIONS (Fig. 5)

