



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-2415 双磁带线

產品名稱 (Description):

喇叭 (Speaker)

產品規格 (Specification):

8 欧 1 瓦

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
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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℃ to +65℃

3.3 STORAGE TEMPERATURE RANGE: -25℃ to +65℃

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

$91 \pm 3\text{dB SPL}$ At800,1000,1200,1500Hz 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: $900 \pm 20\%$ Hz at 1V. (No Baffler)

4.4 TOTAL HARMONIC DISTORTION:Less than 5% at 1KHz ,1.0m,1.0W

4.5 MEASURING CIRCUIT: Shown in Fig.1.

4.6 FREQUENCY RESPONSE CURVE: Shown in Fig.2.

4.7 RATED POWER: 0.8 W. **MAX POWER:** 1.0 W.

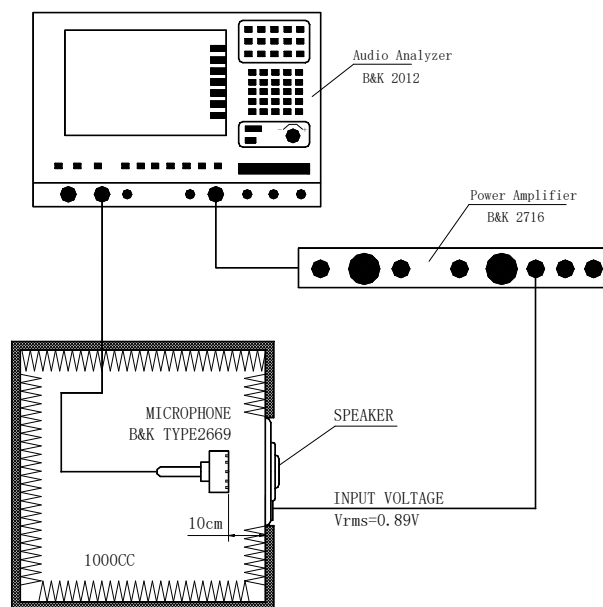
4.8 PURE SOUND DETECTION: Buzz,Rattle,etc Should not be audible at 2.53V sine wave from 200 Hz to 5K Hz.

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

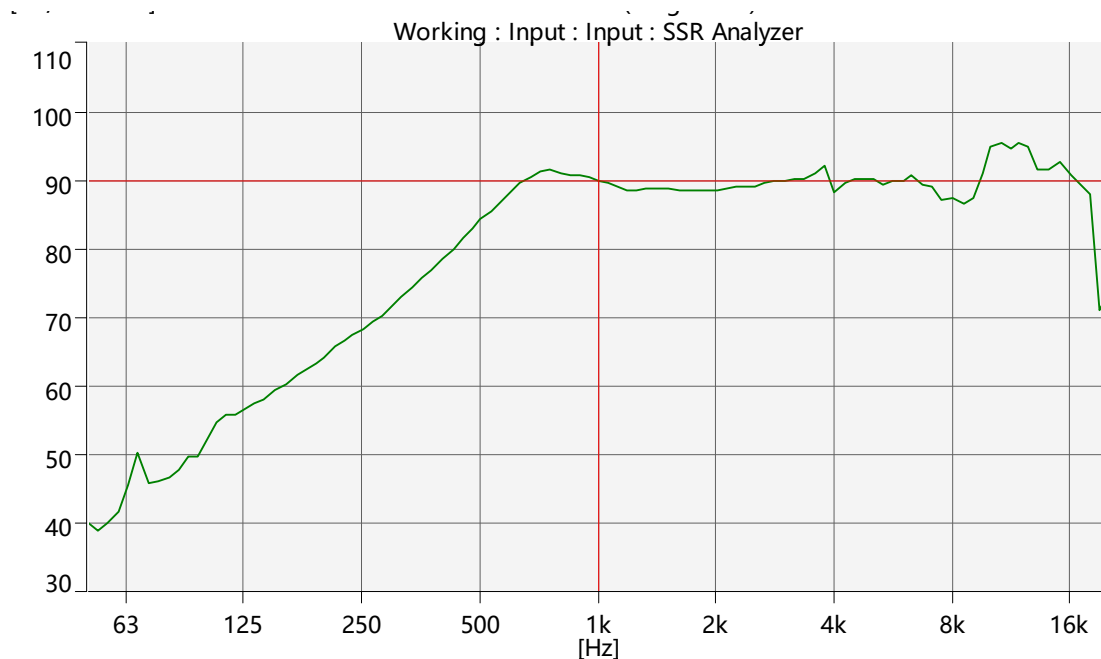
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产品规格内容

■ 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°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

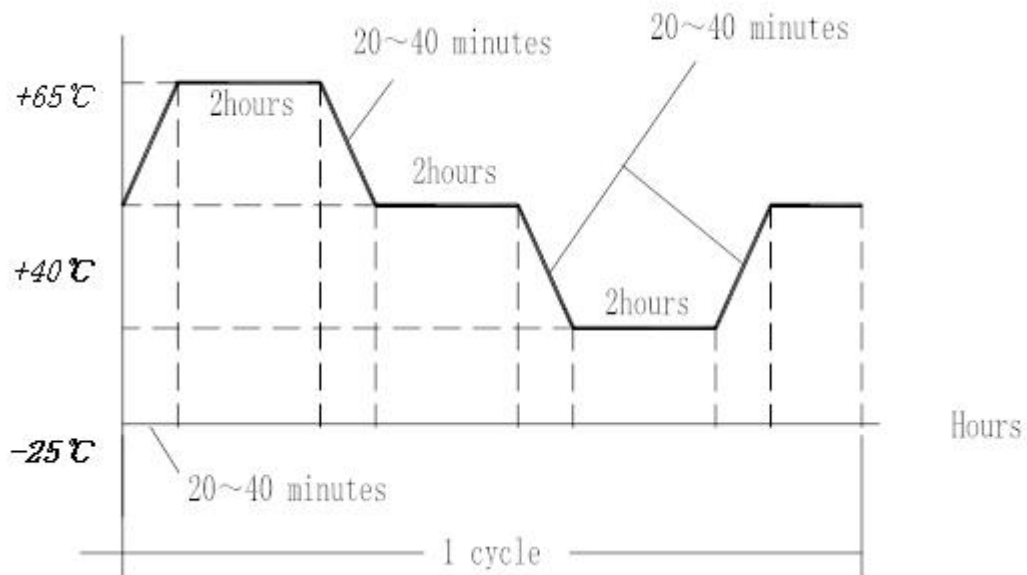
⑧ LOAD TEST

Subject samples to White Noise for 24 hours at 0.8 W input power.

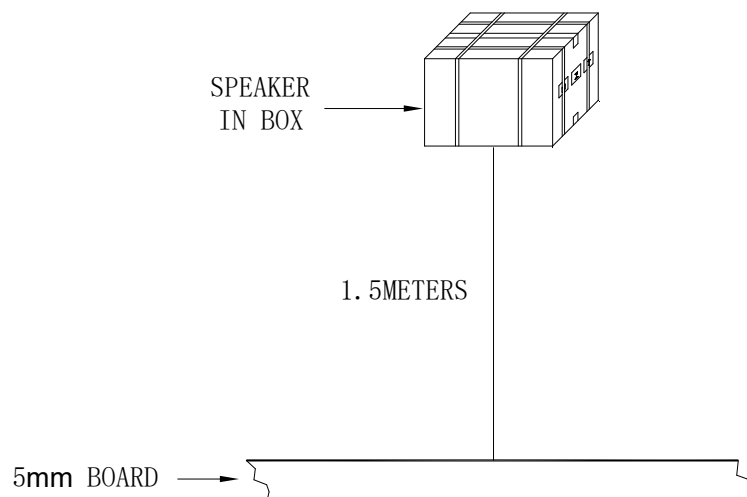
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■ TEMP. CYCLE TEST (Fig. 3)



■ DROP TEST (Fig. 4)



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■ TEMP. CYCLE TEST (Fig. 5)

