



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 三磁

產品名稱 (Description):

喇叭 (Speaker)

產品規格 (Specification):

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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MODEL : XHxDZ-2809 三磁

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±2℃
Relative Humidity:	60%~70% (RH)
Air Pressure:	860~1060hPa

4. SPEAKER MODE

4.1 SOUND PRESSURE LEVEL

89±3dB SPL At1000,1300,1500,2000Hz in average (0dB SPL=20 μ Pa)

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

4.2 IMPEDANCE: 8±15% ohm(at 1000Hz 1.0V)

4.3 RESONANCE FREQUENCY:900±20%Hz at 1V. (No Baffler)

4.4 TOTAL HARMONIC DISTORTION:Less than 5% at 1KHz ,1.0m,0.8W

4.5 MEASURING CIRCUIT: Shown in Fig.1.

4.6 FREQUENCY RESPONSE CURVE: Shown in Fig.2.

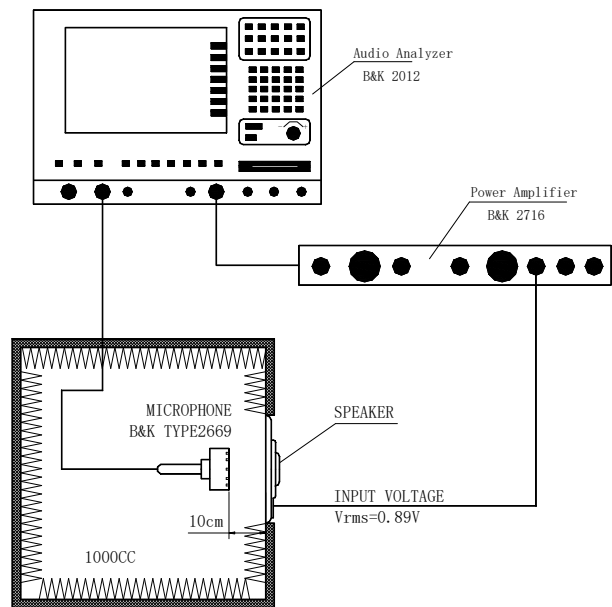
4.7 RATED POWER: 1 W. MAX POWER: 1.5W.

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

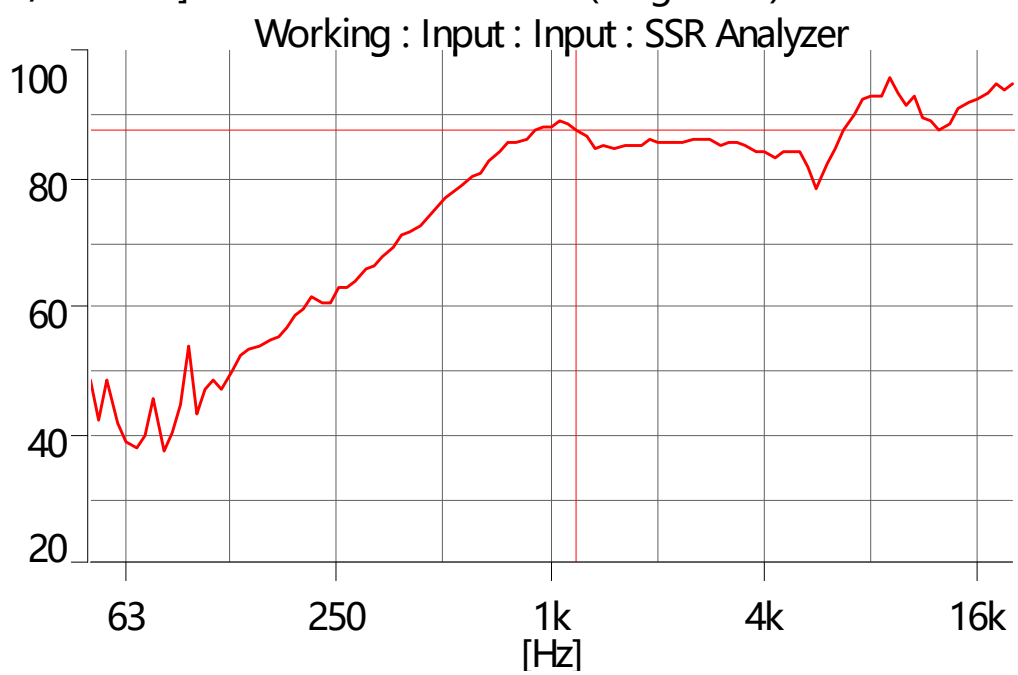
4.9 POLARITY: When a positive DC current is applied to the terminal marked (+), diaphragm shall move forward.

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FREQUENCY MEASURING CIRCUIT (Fig. 1)



FREQUENCY RESPONSE CURVE (Fig. 2)



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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: $90 \sim 95\%$
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 : $10\text{-}55\text{Hz/min}$
Amplitude : 1.5mm
Duration : 2 hours each axes

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

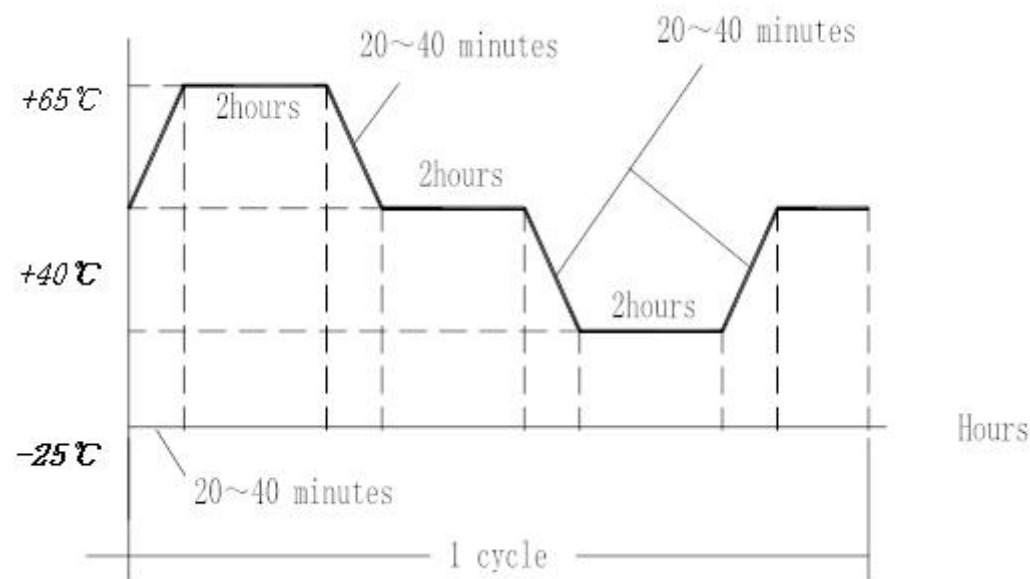
Height : 1.5 m
Cycle : 6 cycles onto the 5mm board

⑧ LOAD TEST

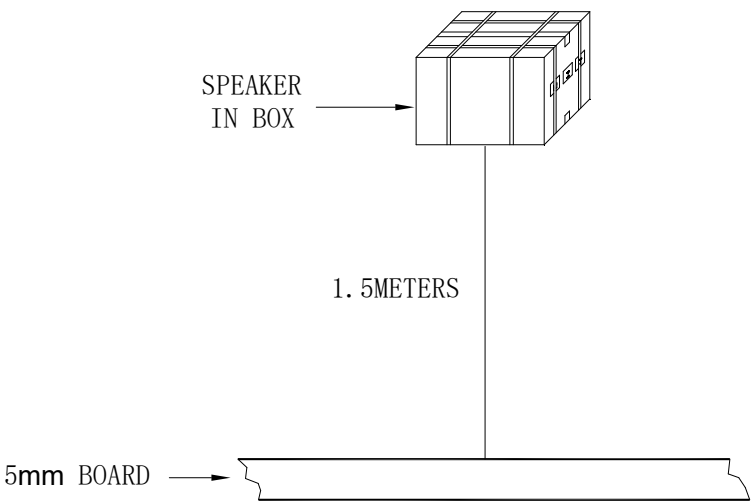
Subject samples to White Noise for 24 hours at 0.8 W input power.

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TEMP. CYCLE TEST (Fig. 3)



DROP TEST (Fig. 4)



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■ TEMP. CYCLE TEST (Fig. 5)

