

SPECIFICATION

SHEET FOR APPROVAL

PRODUCTS: DYNAMIC SPEAKER

MODEL NUMBER: DXI30N-A DX0050

CONCISE DESCRIPTION:

“DXI30N-A D30 H 4.8 50 Ω ”

	PREPARED	CHECKED	APPROVED
SIGNATURE			
DATE	2019/4/11	2019/4/11	2019/4/11

SPECIFICATION		MODEL NO.	DXI30N-A	P1/5
ISSUED DATE		UPDATE	00	
REVERSION				

1. SCOPE

This specification covers our product of dynamic speaker unit is for cordless phone use. .

2. MECHANICAL LAYOUT & DIMENSIONS

Shown in Fig.4

3. GENERAL REQUIREMENTS

3.1 OPERATING TEMPERATURE RANGE: -20C ~ +65C

3.2 STANDARD TEST CONDITIONS:

Temperature:	17~25C
Relative Humidity:	45%~80%(RH)
Air Pressure:	860~1060 hPa

3.3 JUDGEMENT CONDITIONS:

Temperature:	20±2C
Relative Humidity:	60%~70%(RH)
Air Pressure:	860~1060 hPa

4. ELECTROACOUSTIC CHARACTERISTIC

4.1 SOUND PRESSURE LEVEL

80±3dB SPL (Average at 800Hz,1000Hz,1200Hz,1500Hz)

Measuring condition: 0.1W (Sine wave) 0.1m measured with baffler shown in Fig.1.

4.2 IMPEDANCE: 50±20%Ω (@2KHz 1V) without baffler.

4.3 MEASURING DIAGRAM: Shown in Fig.1.

4.4 TYPICAL FREQUENCY RESPONSE CURVE: Shown in Fig.2.

4.5 RATED POWER: 0.25W (White Noise for 48hours) .

MAX POWER: 0.5W.

4.6 RESONANCE FREQUENCY (F₀): 700±20%Hz @ 1V.

4.7 SOUND POWER: 0.25W (F0~6KHz) must be normal with sine wave (3.5Vrms).

SPECIFICATION		MODEL NO.	DXI30N-A	P2/5
ISSUED DATE		UPDATE	00	
REVERSION				

■ **FREQUENCY MEASURING CIRCUIT (SPEAKER MODE) (Fig.1)**

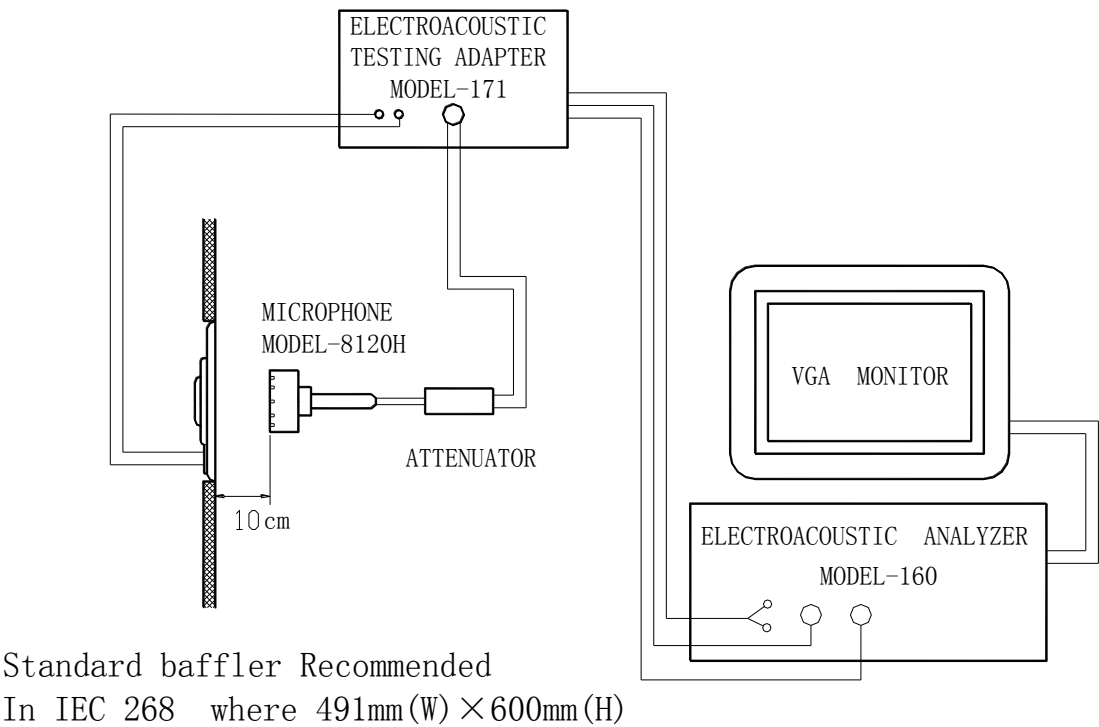


Fig.1 Illustration of measuring diagram (speaker mode)

■ **TYPICAL FREQUENCY RESPONSE CURVE (SPEAKER MODE) (Fig.2)**

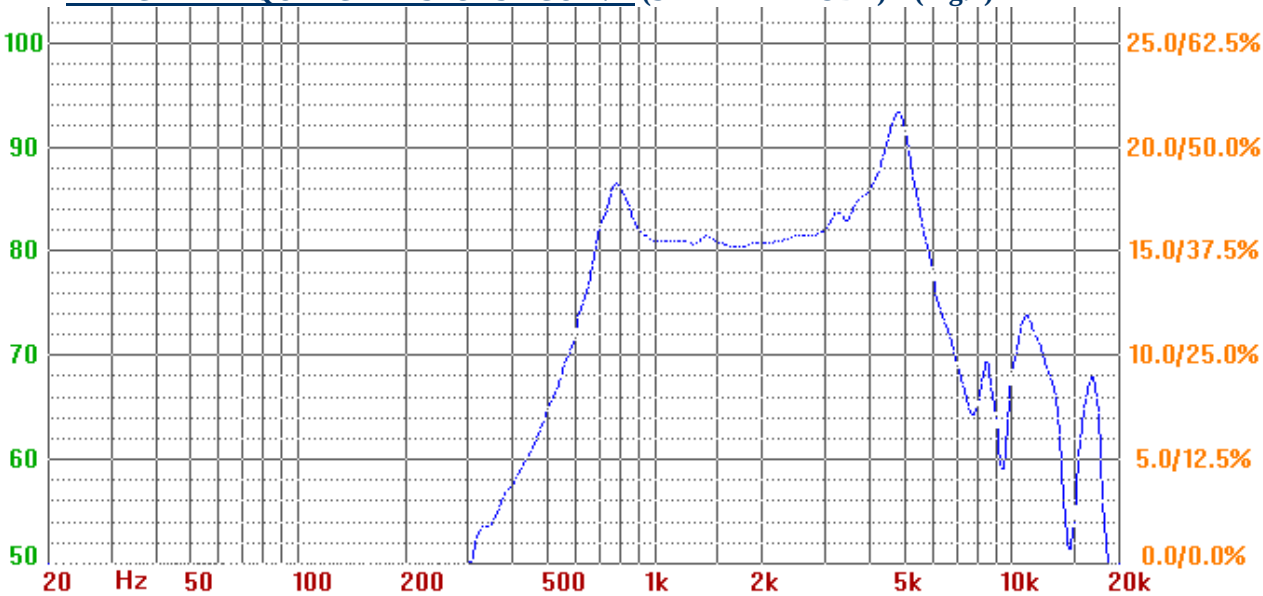


Fig.2 Typical frequency response curve (speaker mode)

SPECIFICATION		MODEL NO.	DXI30N-A	P3/5
ISSUED DATE		UPDATE	00	
REVERSION				
6. RELIABILITY TESTS The sound pressure as specified shall neither deviate more than $\pm 3\text{dB}$ from the initial value, nor any significant damage after any of following testing.				
6.1 HIGH TEMPERATURE TEST High temperature: $+70\pm 3\text{C}$ Duration: 96 hours				
6.2 LOW TEMPERATURE TEST Low temperature : $-30\pm 3\text{C}$ Duration: 96 hours				
6.3 HUMIDITY TEST Temperature: $+40\pm 2\text{C}$ Relative humidity: 90~95% Duration: 96 hours				
6.4 TEMPERATURE CYCLE TEST (See in Fig.3) Temperature: -30C $\longleftrightarrow$ $+70\text{C}$ Duration: 1hr 0.5hr 1hr Temperature gradient: 1~3C/min. Cycle: 6				
6.5 DROP TEST Mounted with dummy set mass: 100 g Height: 75cm Cycle: 3times(corner, side, plane) onto the concrete board				
6.6 LOAD TEST Speaker mode: White noise (EIA filter) for 48 hours @0.25W(3.5Vrms) input power.				

SPECIFICATION		MODEL NO.	DXI30N-A	P4/5
ISSUED DATE				
REVERSION		UPDATE	00	

TEMP. CYCLE TEST (Fig.3)

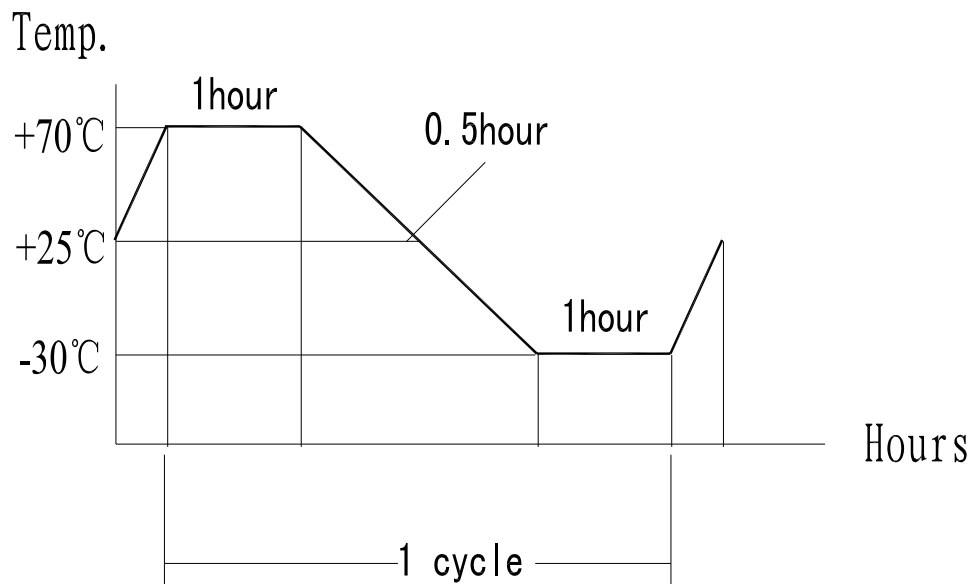


Fig.3 Illustration of temp. cycle test

SPECIFICATION		MODEL NO.	DXI30N-A	P5/5
ISSUED DATE		UPDATE	00	
REVERSION				

6. DIMENSIONS (Fig.4)

Unless otherwise specified, tolerance: ±0.2 (unit: mm)

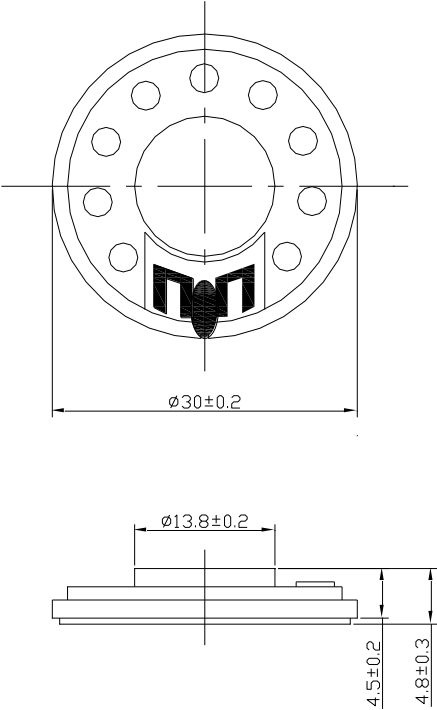


Fig.4 Outer dimension