

SPECIFICATION

SHEET FOR APPROVAL

CUSTOMER:

PRODUCTS: DYNAMIC SPEAKER

MODEL NUMBER: DXI30N-A DX0008

CUSTOMER PART NUMBER:

CONCISE DESCRIPTION:

“DXI30N-A D30 H 4.8 120 Ω”

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ISSUED DATE		UPDATE	00	
REVERSION				
<p>1. SCOPE</p> <p>This specification covers our product of dynamic speaker unit is for cordless phone use. .</p> <p>2. MECHANICAL LAYOUT & DIMENSIONS</p> <p>Shown in Fig.4</p> <p>3. GENERAL REQUIREMENTS</p> <p>3.1 OPERATING TEMPERATURE RANGE: -20°C ~ +65°C</p> <p>3.2 STANDARD TEST CONDITIONS:</p> <p>Temperature: 17~25°C</p> <p>Relative Humidity: 45% ~80%(RH)</p> <p>Air Pressure: 860~1060 hPa</p> <p>3.3 JUDGEMENT CONDITIONS:</p> <p>Temperature: 20±2°C</p> <p>Relative Humidity: 60% ~70%(RH)</p> <p>Air Pressure: 860~1060 hPa</p> <p>4. ELECTROACOUSTIC CHARACTERISTIC</p> <p>4.1 SOUND PRESSURE LEVEL</p> <p>78±3dB SPL (Average at 800Hz,1000Hz,1200Hz,1500Hz)</p> <p>Measuring condition: 0.1W (Sine wave) 0.1m measured with baffler shown in Fig.1.</p> <p>4.2 IMPEDANCE: 120±20%Ω (@2KHz 1V) without baffler.</p> <p>4.3 MEASURING DIAGRAM: Shown in Fig.1.</p> <p>4.4 TYPICAL FREQUENCY RESPONSE CURVE: Shown in Fig.2.</p> <p>4.5 RATED POWER: 0.25W (White Noise for 48hours) .</p> <p>MAX POWER: 0.5W.</p> <p>4.6 RESONANCE FREQUENCY (F₀): 700±20%Hz @ 1V.</p> <p>4.7 SOUND POWER: 0.25W (F0~10KHz) must be normal with sine wave (5.4Vrms).</p>				

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

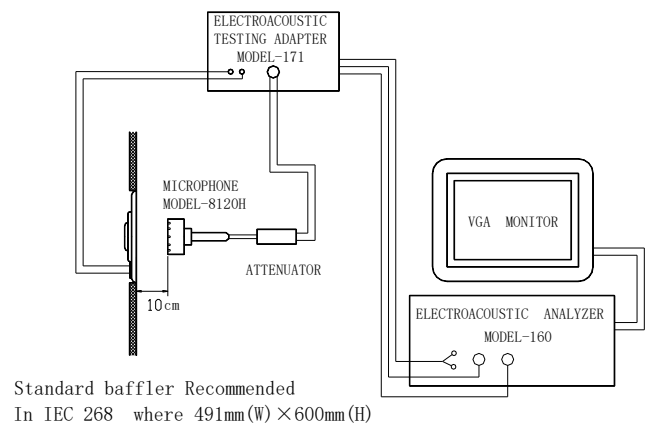


Fig.1 Illustration of measuring diagram (speaker mode)

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

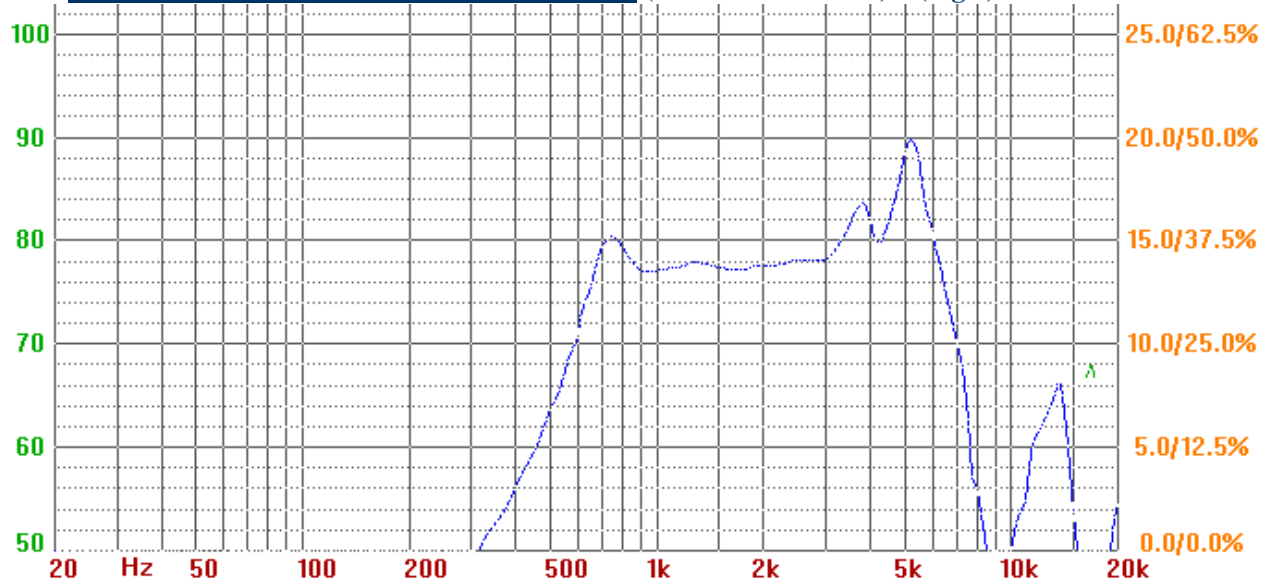


Fig.2 Typical frequency response curve (speaker mode)

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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: $+70\pm 3^{\circ}\text{C}$ Duration: 96 hours				
6.2 LOW TEMPERATURE TEST Low temperature : $-30\pm 3^{\circ}\text{C}$ Duration: 96 hours				
6.3 HUMIDITY TEST Temperature: $+40\pm 2^{\circ}\text{C}$ Relative humidity: 90~95% Duration: 96 hours				
6.4 TEMPERATURE CYCLE TEST (See in Fig.3) Temperature: -30°C \longleftrightarrow $+70^{\circ}\text{C}$ Duration: 1hr 0.5hr 1hr Temperature gradient: $1\sim 3^{\circ}\text{C}/\text{min.}$ 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(5.4Vrms) input power.				

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TEMP. CYCLE TEST (Fig.3)

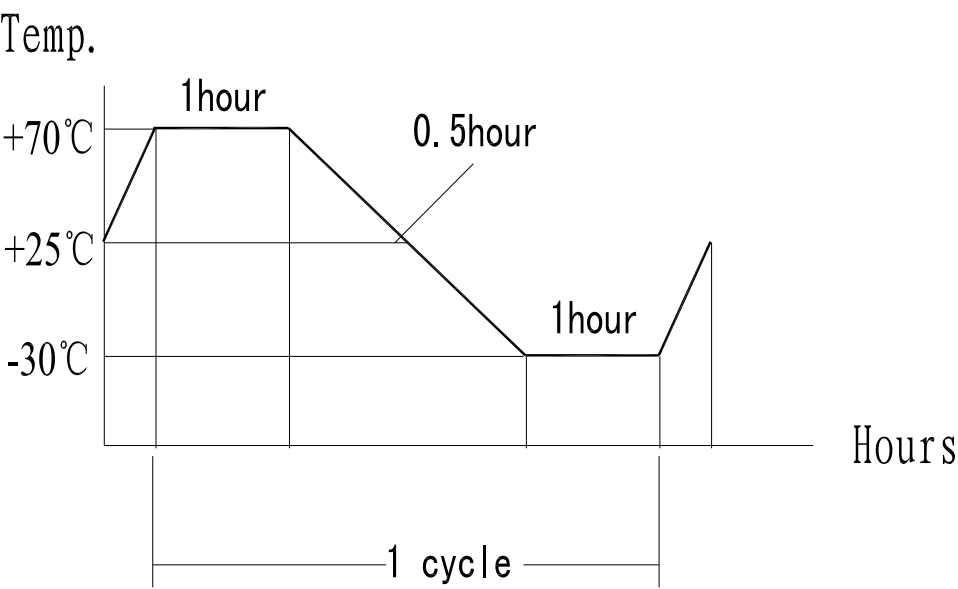
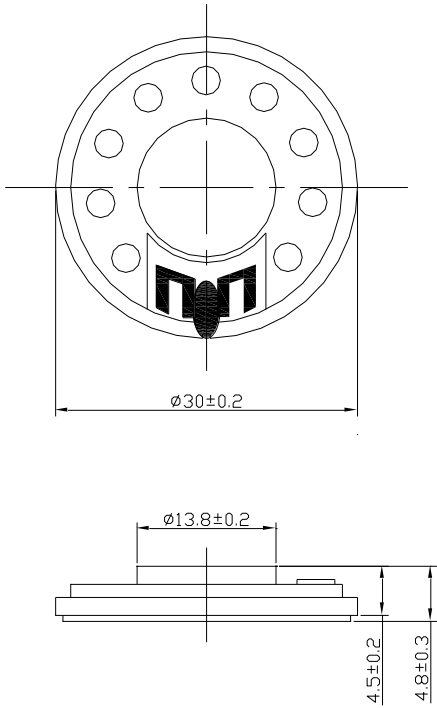


Fig.3 Illustration of temp. cycle test

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<p>6. DIMENSIONS (Fig.4)</p> <p>Unless otherwise specified, tolerance: ± 0.2 (unit: mm)</p> <div><p>The figure shows two views of a circular component. The top view is a circle with a diameter dimension of $\varnothing 30 \pm 0.2$. It features 12 small circular holes arranged in a circle around a central circular feature. The side view shows the component's profile with a central diameter dimension of $\varnothing 13.8 \pm 0.2$ and two vertical height dimensions: 4.5 ± 0.2 and 4.8 ± 0.3.</p></div>				
<p><i>Fig.4 Outer dimension</i></p>				