
SPECIFICATION

SHEET FOR APPROVAL

CUSTOMER:

PRODUCTS:

MODEL NUMBER: DXI40N-B DX0078

CUSTOMER PART NUMBER:

CONCISE DESCRIPTION:

“DXI40N-B D40 H 5.3 50 Ω ROHS ”

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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: -20°C ~ +65°C

3.2 STANDARD TEST CONDITIONS:

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

3.3 JUDGEMENT CONDITIONS:

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

4. ELECTROACOUSTIC CHARACTERISTIC

4.1 SOUND PRESSURE LEVEL

82±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: 0.5W (White Noise for 48hours) .

MAX POWER: 1.0W.

4.6 RESONANCE FREQUENCY (F₀): 600±20%Hz @ 1V.

4.7 SOUND POWER: 0.5W (F0~6KHz) must be normal with sine wave (5.0Vrms).

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

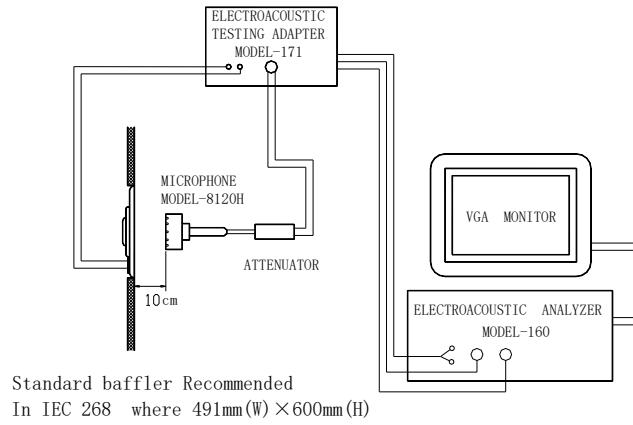


Fig.1 Illustration of measuring diagram (speaker mode)

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

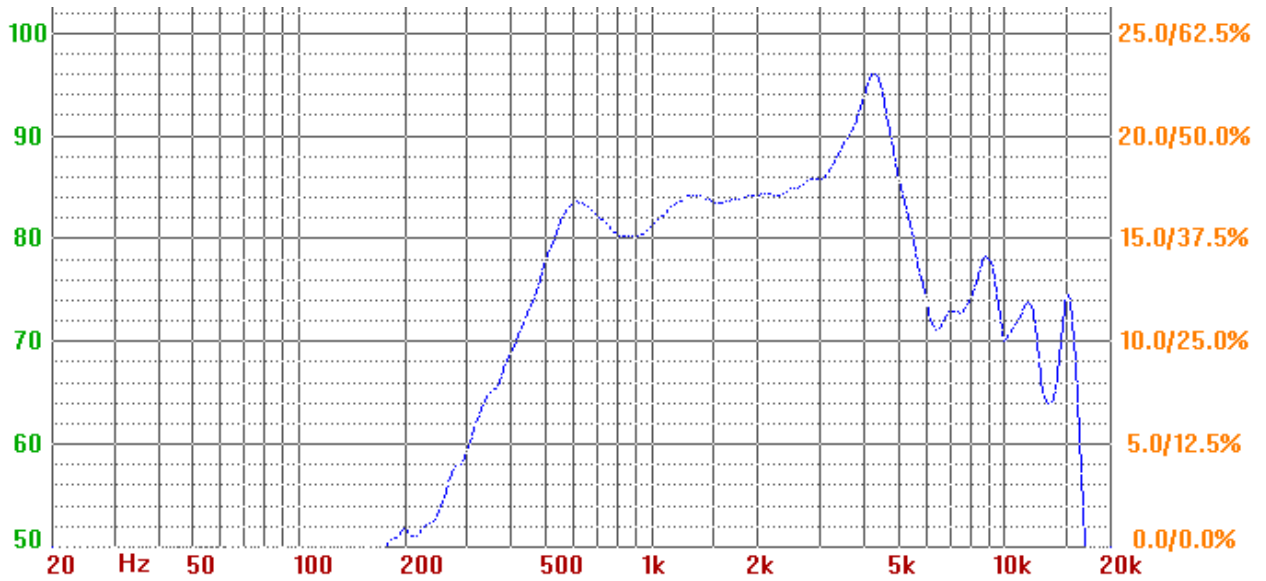


Fig.2 Typical frequency response curve (speaker mode)

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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 $^{\circ}$ C**
Duration: **96 hours**

6.2 LOW TEMPERATURE TEST

Low temperature : **-30 \pm 3 $^{\circ}$ C**
Duration: **96 hours**

6.3 HUMIDITY TEST

Temperature: **+40 \pm 2 $^{\circ}$ C**
Relative humidity: **90~95%**
Duration: **96 hours**

6.4 TEMPERATURE CYCLE TEST (See in Fig.3)

Temperature: **-30 $^{\circ}$ C** \longleftrightarrow **+70 $^{\circ}$ C**
Duration: **1hr 0.5hr 1hr**
Temperature gradient: **1~3 $^{\circ}$ C/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 @0.5W(5.0Vrms)** input power.

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TEMP. CYCLE TEST (Fig.3)

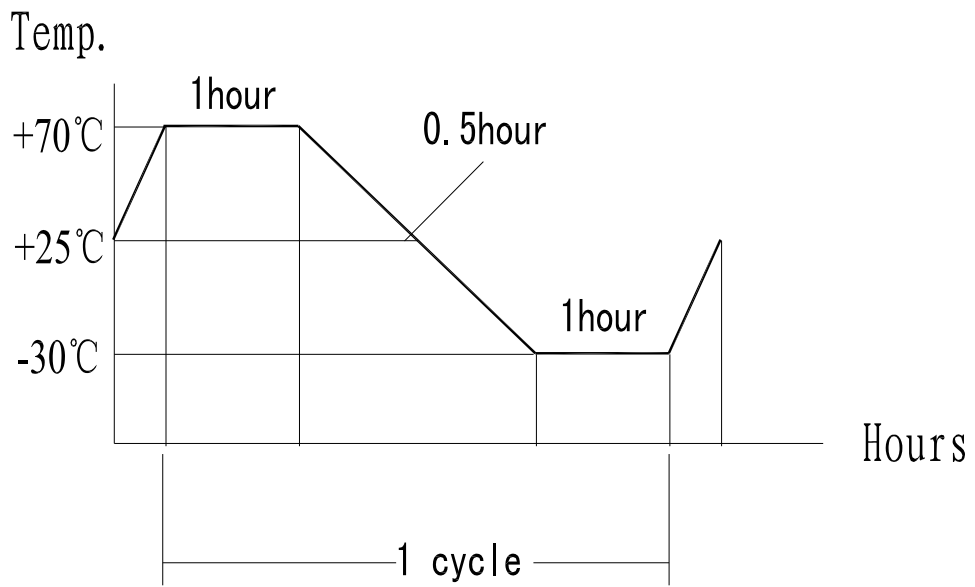


Fig.3 Illustration of temp. cycle test

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6. DIMENSIONS (Fig.4)

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

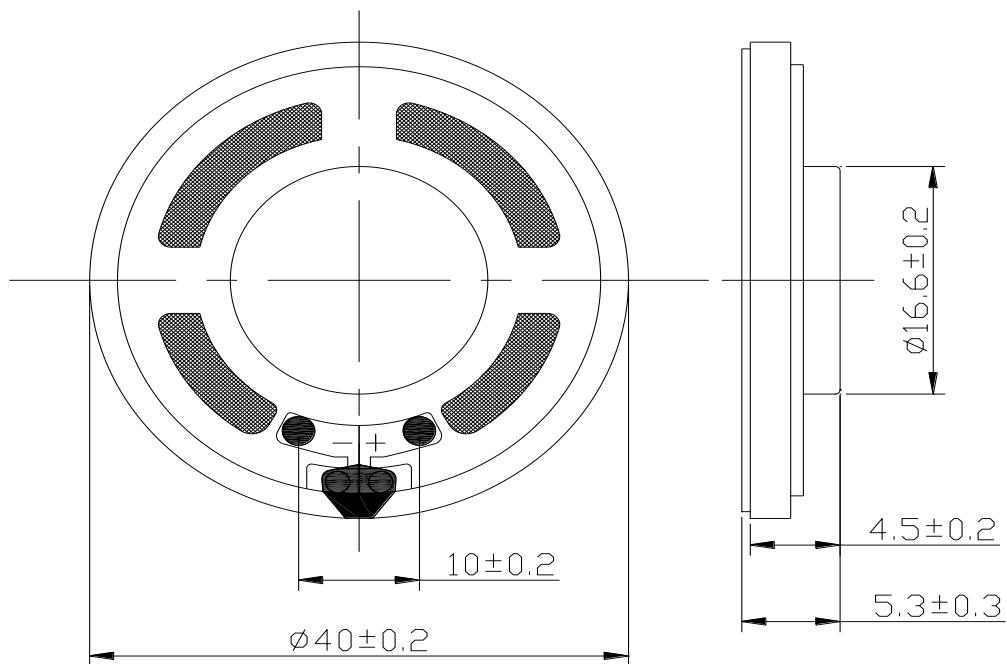


Fig.4 Outer dimension