

**/RoHS**

# **SPECIFICATION**

## **SHEET FOR APPROVAL**

(Revision: 2004A    Update: 00)

**CUSTOMER:**

**PRODUCTS: SPEAKER**

**MODEL NUMBER: CHF40S<sub>2</sub>N-7#B025W16-01**

**CUSTOMER PART NUMBER:**

**NEW JIA LIAN CONCISE DESCRIPTION:**

***"D40    H6.3    16/Ω    0.25W"***

**SPECIFICATION**

MODEL NO.

CHF28TSN-7#B025W16-01

P2/5

PRODUCE DATE

2006.1.6

REVERSION

2006A

UPDATE

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**1. SCOPE**

Your orders of sample are performed subject to your instructions please be acknowledged and approve

**2. MECHANICAL LAYOUT & DIMENSIONS:** Shown in Fig.1

**3. GENERAL REQUIREMENTS**

**3.1 OPERATING TEMPERATURE RANGE:** -20°C ~ +60°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. SPEAKER MODE**

**4.1 IMPEDANCE:**  $16 \pm 15\% \Omega$  (@1KHz 1V) without baffler.

**4.2 SOUND PRESSURE LEVEL**

86 ±3dB SPL @1000, 1200, 1500, 2000 Hz AVE (0dB SPL=20μPa)

Measuring condition: 0.1W (Sine wave) 10cm measured with baffler shown in Fig.2.

**4.3 MEASURING DIAGRAM:** Shown in Fig.2.

**4.4 TYPICAL FREQUENCY RESPONSE CURVE:** Shown in Fig.3. (Or see the enclosure1)

**4.5 RESONANCE FREQUENCY (F<sub>0</sub>):** 830 ± 20% Hz @ 1V. (Without baffler)

**4.6 RATED POWER:** 0.25W. **MAX. POWER:** 0.5W.

**4.7 FREQ RESPONSE:** F<sub>0</sub> to 20kHz.(Output S.P.L. -10dB)

**4.8 BUZZER & RATTLES:**

Should not be audible buzz and rattle at 1.41V Sine wave between F<sub>0</sub> to 20kHz .

**4.9 DISTORTION:** <5% Maximum (1000Hz / at 0.1W)

NO	DATE	DUE TO	NEW STATUS		SIGNATURE
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2					
3					
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<b>SPECIFICATION</b>		MODEL NO.	HF40S2N-7#B025W16-01	<b>P3/5</b>
PRODUCE DATE	2005.12.14			
REVERSION	2004A	UPDATE	00	

**5. 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.

**5.1 HIGH TEMPERATURE TEST**

High temperature:  $+55\pm 2^\circ\text{C}$   
 Duration: 16 hours

**5.2 LOW TEMPERATURE TEST**

Low temperature :  $-25\pm 2^\circ\text{C}$   
 Duration: 16 hours

**5.3 HEAT SHOCK TEST**

High temperature:  $+55\pm 2^\circ\text{C}$   
 Low temperature:  $-25\pm 2^\circ\text{C}$   
 Changeover time: 20 ~ 40 minutes  
 Duration: 2hour  
 Cycle: 2

**5.4 HUMIDITY TEST**

Temperature:  $+40\pm 2^\circ\text{C}$   
 Relative humidity: 90~95%  
 Duration: 16 hours

**5.5 VIBRATION TEST**

Frequency: 10~55Hz/min  
 Amplitude: 1.5mm  
 Duration: 2 hours each axes

**5.6 DROP TEST (Speaker in approved fixture)**

Height: 1.5 m  
 Cycle: 6 (1 each plain)  
 onto the concrete board

**5.7 LOAD TEST**

Speaker mode: White noise (EIA filter) for 48 hours @0.25W input power.

NO	DATE	DUE TO	NEW STATUS		SIGNATURE
			REVISION	UPDATE	
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2					
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# SPECIFICATION

MODEL NO.

HF40S2N-7#B025W16-01

P4/5

ISSUED DATE

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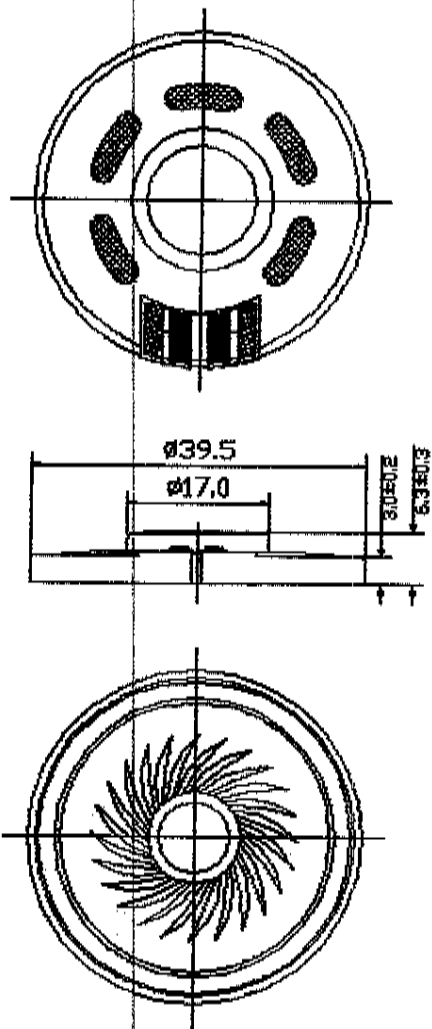
2004A

UPDATE

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### 6. DIMENSIONS (Fig.1)

Unless otherwise specified, tolerance:  $\pm 0.2$  (unit: mm)



NO	PART NAME	MATERIAL	PRODUCING AREA
A			
B			
C			
D			
E			
F			
G			
H			

*Fig.1 Outer dimension*

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			REVISION	UPDATE	
1					
2					
3					
4					

# SPECIFICATION

MODEL NO.

HF40S2N-7#B025W16/-01

P5/5

PRODUCE DATE

2005.12.14

REVERSION

2004A

UPDATE

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## ■ FREQUENCY MEASURING CIRCUIT (SPEAKER MODE) (Fig.2)

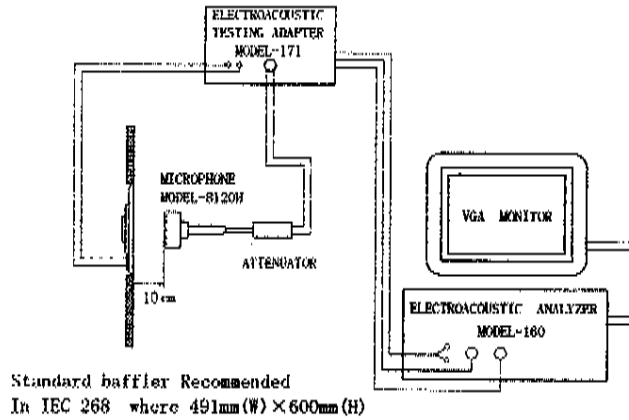


Fig.2 Illustration of measuring diagram (speaker mode)

## ■ TYPICAL FREQUENCY RESPONSE CURVE (SPEAKER MODE) (Fig.3)

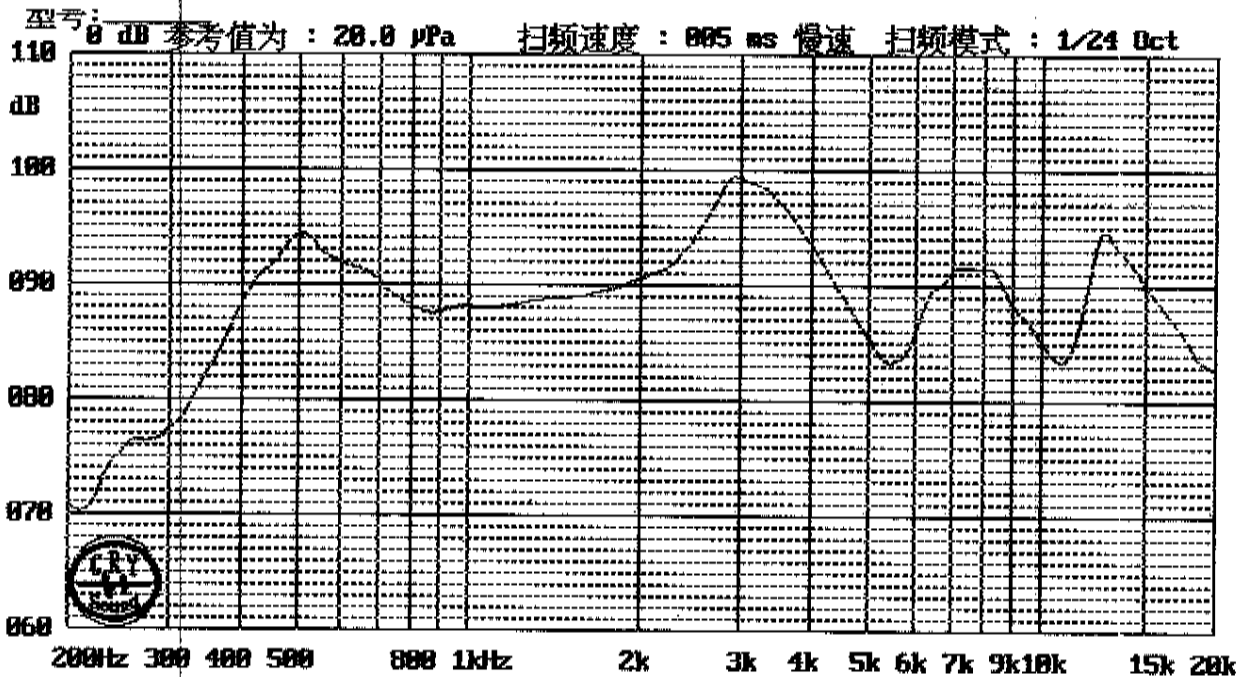


Fig.3 Typical frequency response curve (speaker mode)

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