

# SPECIFICATION

## SHEET FOR APPROVAL

(Revision: 043A Update: 01)

**CUSTOMER:** 福克斯  
**PRODUCT:** 腔体喇叭  
**DYNAMIC SPEAKER:** HTR40BOX-外置喇叭  
++  
**MODEL NUMBER:**  
**CUSTOMER PART NUMBER:**  
40BOX 喇叭 4 欧 3W

	PREPARED	CHECKED	APPROVED
SIGNATURE	杨永明		
DATE	2026-03-10		

### CUSTOMER CONFIRMATION

SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

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文件编码: HTR/HYSX-2415-043A/01

### REVISION HISTORY



**1. SCOPE**

This specification covers our product of dynamic speaker unit for mobile telephone use.

**2. MECHANICAL LAYOUT & DIMENSIONS**

Shown in Fig.5

**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 SOUND PRESSURE LEVEL**

**96±3dB SPL @ 600.800.900.1K,1.2KHz in average** (0dB SPL=20µPa)

Measuring condition: 0.1W (Sine wave) 10cm measured with baffler shown in Fig.1.

**4.2 IMPEDANCE:** 3.6±15%Ω (@1KHz 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: 3.0W. MAX POWER:3.5W**

**4.6 RESONANCE FREQUENCY (F<sub>0</sub>): 700±20%Hz @ 1V. (Without Baffler)**

**4.7 DISTORTION:** < 10% Maximum (at : 3W 1000Hz)

**4.8 BUZZ RATTLE:**Should not be audible buzz and rattle at3.4V Sine wave between200to5kHz

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

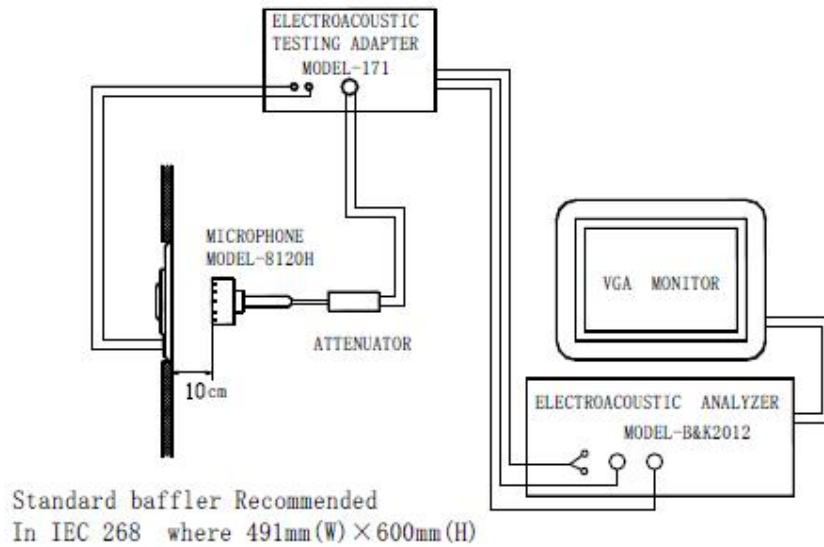


Fig.1 Illustration of measuring diagram (speaker mode)

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



ig.2 Typical frequency response curve (speaker mode)

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<b>5. RELIABILITY TESTS</b>					
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.					
<b>5.1 HIGH TEMPERATURE TEST</b>					
High temperature:	$+70\pm 2^\circ\text{C}$	Duration:	96 hours		
<b>5.2 LOW TEMPERATURE TEST</b>					
Low temperature :	$-40\pm 2^\circ\text{C}$	Duration:	96 hours		
<b>5.3 HEAT SHOCK TEST (See in Fig.3)</b>					
High temperature:	$+70\pm 2^\circ\text{C}$				
Low temperature:	$-30\pm 2^\circ\text{C}$				
Changeover time:	< 30 minutes				
Duration:	1 hour				
Cycle:	50				
<b>5.4 HUMIDITY TEST</b>					
Temperature:	$+40\pm 2^\circ\text{C}$				
Relative humidity:	90~95%				
Duration:	96 hours				
<b>5.5 TEMPERATURE CYCLE TEST (See in Fig.4)</b>					
Temperature:	$-40^\circ\text{C}$	$+70^\circ\text{C}$			
Duration:	45 minutes	45 minutes			
Temperature gradient:	1~3°C/min.				
Cycle:	25				
<b>5.6 DROP TEST</b>					
Mounted with dummy set mass:	100 g				
Height:	1.52 m				
Cycle:	6 (1 each plain) onto the concrete board				
<b>5.7 LOAD TEST</b>					
White noise (EIA filter) for 96 hours @0.8W input power.					
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■ HEAT SHOCK TEST (Fig.3)

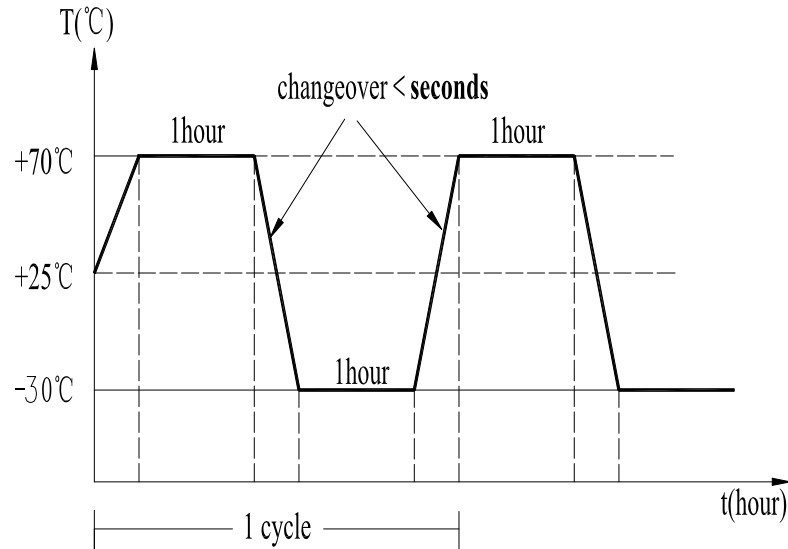


Fig.3 Illustration of heat shock test

■ TEMP. CYCLE TEST (Fig.4)

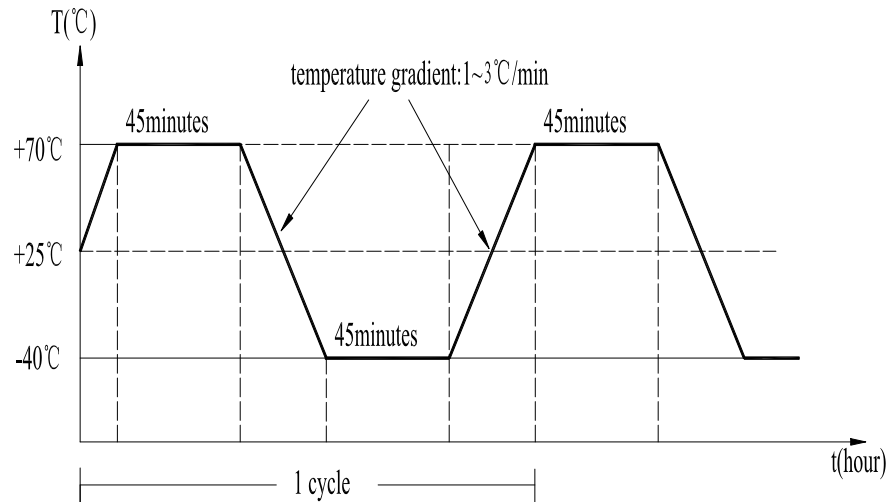


Fig.4 Illustration of temp. cycle test

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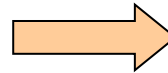
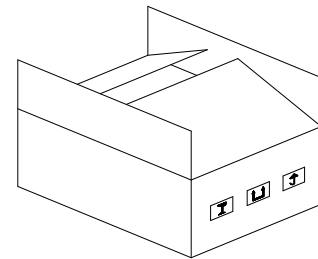
**6. DIMENSIONS (Fig.5)** Unless otherwise specified, tolerance:  $\pm 0.2$  (unit: mm)



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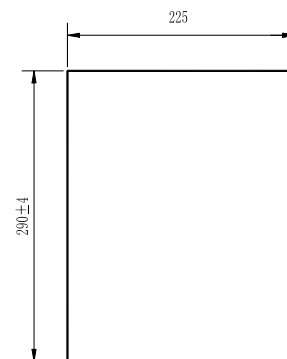
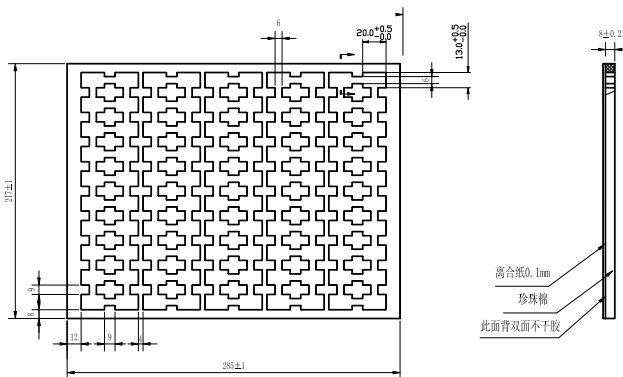
**7. PACKING DETAILS (Fig.6)**

DYNAMIC SPEAKER  
 TYPE:  
 QUANTITY: PCS  
 GROSS WT: KG  
 NET WT: KG  
 VOLUME: × × CM



**DRAWING OF PS (POLYSTYRENE) TRAY (BOTTOM) (TOP)**

**DRAWING OF PS (POLYSTYRENE) COVER**



(unit: mm)

**【NOTE】**

1. 100pcs of receiver in each tray;
2. 25/30rays in one paper box.

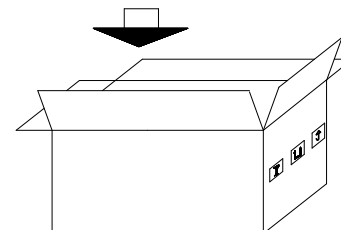


Fig.6 Illustration of packaging & marking

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