



**APPROVAL SHEET  
FOR  
SPEAKER**

*GUANGZHOU YUENENG TECHNOLOGY CO., LTD.*

**CUSTOMER:**

**MODEL NO.:** YN7033-0802WD120

**OUR PART NO.:**

**CUSTOMER PART NO.:**

<b>CUSTOMER</b>	<b>APPROVED</b>	<b>CHECKED</b>

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<b>SPECIFICATION</b>		<b>MODEL NO.</b>	YN7033-0802WD120	<b>Total Page</b> 5
<b>ISSUED DATE</b>	2021/05/11	<b>SPEC. NO.</b>	2022/7/11	

## 1. SCOPE

THIS SPECIFICATION IS APPLIED TO THE DYNAMIC RECEIVER/SPEAKER WHICH IS USED IN CELLULAR PORTABLE PRODUCT.

## 2. GENERAL SPECIFICATIONS

ANALYSIS ITEMS	SPECIFICATIONS
1. TYPE	Micro Dynamic Box
2. OUT SIDE SIZE	70mm*33mm*16mm , Shown Fig.3
3. IMPEDANCE	8 Ω ± 10% at 1KHz
4. RESONANCE FREQUENCY	650 ± 20% Hz at 1.0V Sine wave
5. SENSITIVITY (S.P.L.)	102dB ± 3dB at 1.2w/ 10cm AT 0.8 1.0 1.2 1.5KHz in average
6. RATED / MAX. POWER	2W /3W
7. FREQUENCY RANGE	F0~20kHz
8. DISTORTION	Less than 5 % at 1KHz 1V
9. UNIT WEIGHT	Approx 22g ± 0.5g
10. MEASURING DIAGRAM	Shown in Fig.1
11. FREQUENCY RESPONSE	Shown in Fig.2
12. OPERATING TEMPERATURE	- 20°C ~ +60°C
13. STORAGE TEMPERATURE	- 20°C ~ +60°C
14. OPERATION TEST	Not be audible at 3.46V sine wave between 300~ 5KHz

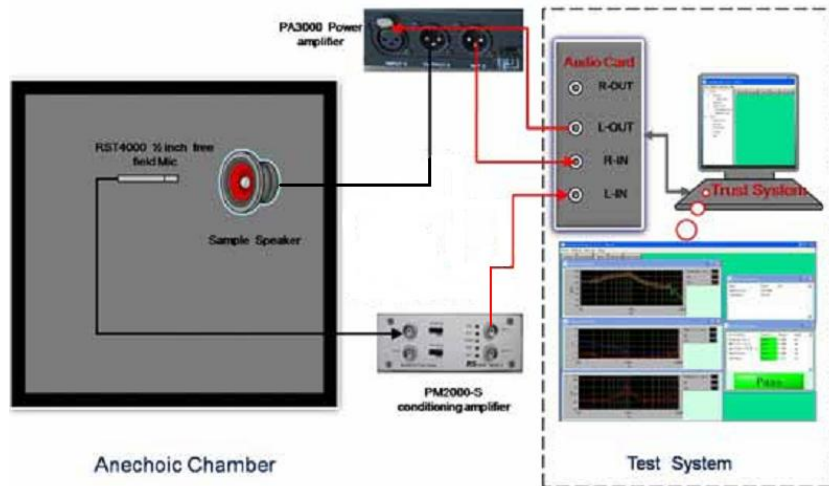
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### **3. ENVIRONMENTAL CHARACTERISTICS**

<b>RESULTS OF AFTER TEST</b>	Sensitivity difference shall be within (3dB) and should satisfy the test described under item 14 after each following test.
<b>1. APPEARANCE</b>	Should not exist any obstacle to be harmful to normal operation : damages \ cracks \ rusts and distortions etc.
<b>3. POLARITY</b>	When positive voltage is applied to the terminal marked (+), diaphragm should move to the front.
<b>4. LOAD TEST</b>	2W white noise is applied for 96 hours and satisfy the test listed on item 05,08,14.
<b>5. HIGH TEMPERATURE DURABILITY</b>	After having been in a test chamber for 48hours at the condition of $+80^{\circ}\text{C} \pm 5^{\circ}\text{C}$ and then let 2 hours in a room .
<b>6. COLD TEMPERATURE DURABILITY</b>	After having been in a test chamber for 48 hours at the condition of $-40^{\circ}\text{C} \pm 5^{\circ}\text{C}$ and then let 2 hours in a room .
<b>7. HUMIDITY DURABILITY</b>	After having been in a test chamber for 48hours at the condition of $+40^{\circ}\text{C} \pm 5^{\circ}\text{C}$ 90%~96% RH and then let 2 hours in a room .
<b>8.TEMPERATURE CYCLE DURABILITY</b>	Low temperature $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ (2 hour )/ high temperature $+85 \pm 2^{\circ}\text{C}$ (2 hour ) : 1 cycle , total 10 cycles and then let 2 hours in a room .
<b>9.VIBRATION DURABILITY</b>	Frequency Range:10Hz ~ 500Hz Amplitude : 0.35mm or acceleration : $50\text{m/s}^2$ Duration : 2h per axis=10 cycles ; 3 axis
<b>10.DROP TEST</b>	The speaker unit shall stand 10 random drops from a height of 1 meter to a concrete floor faced with 5m/m thick hard wood board and be nothing mechanical damage.
<b>11.PACKING STRENGTH</b>	As per packing condition, from height of 1 meter, the unit is to be dropped 1 time each in three planes on concrete floor.

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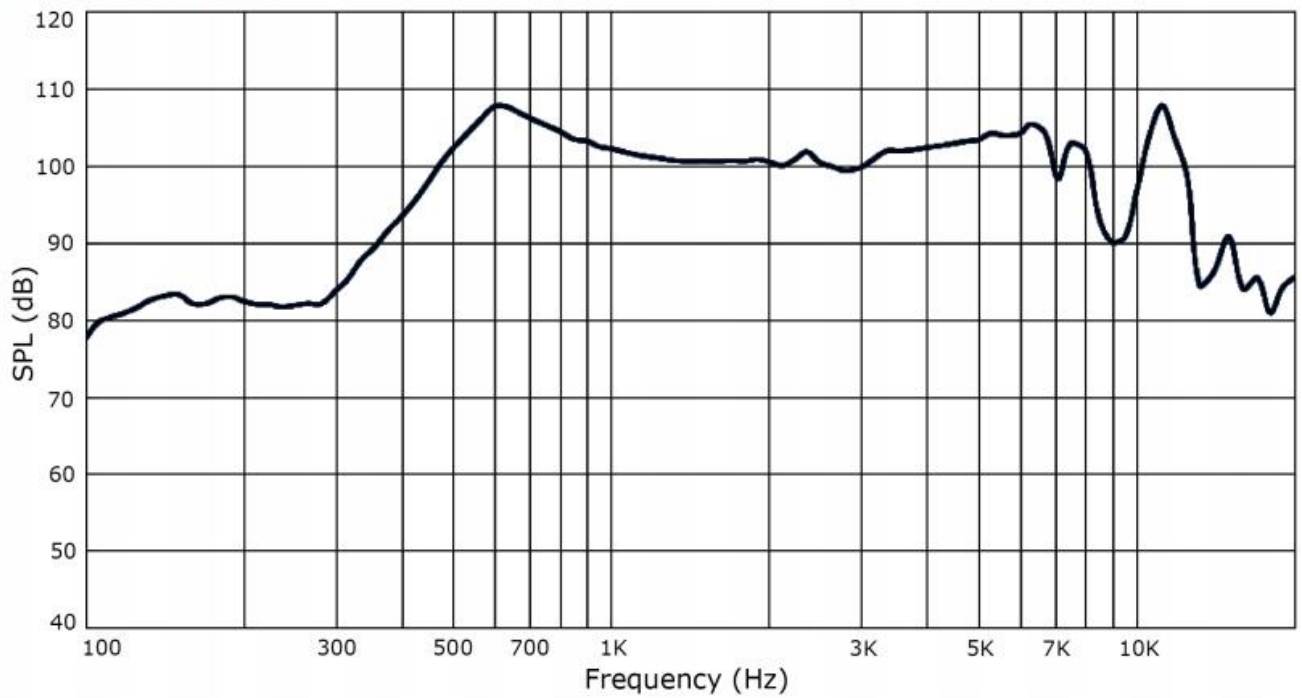
#### 4. STANDARD TEST CONDITION OF SPEAKER (Fig.1)



#### EAKER MODE) (Fig.2)

**Frequency Response Curve**

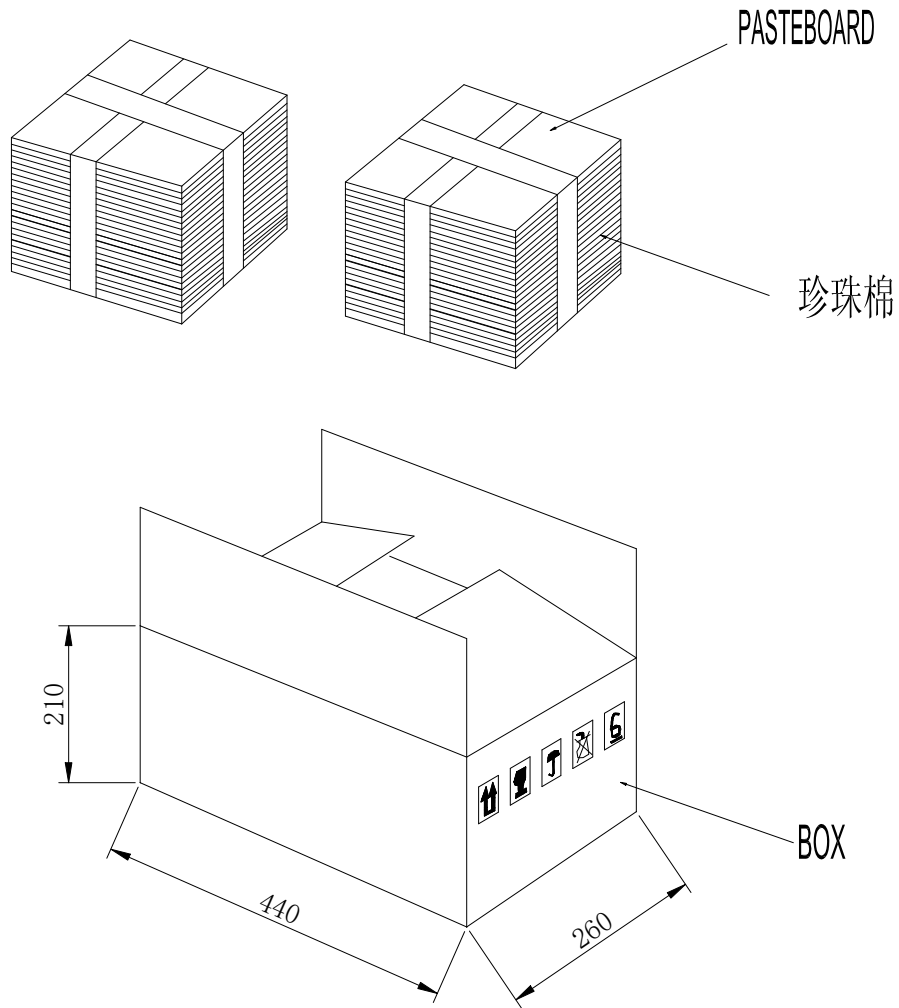
Test Conditions: 4.0 Vrms / 10 cm



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**4.PACKING (Fig.4)**



IIT:MM

NOTES:

1. 100 PCS PER TRAY PE PAN.
2. 2000 PCS PER CARTONS.
3. 2 CARTONS PER BOX.
4. 2000 PCS PER BOX.

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