

**GANET**®

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## **SPECIFICATION SHEET**

CUSTOMER: \_\_\_\_\_

DESCRIPTION:                     SPEAKER                    

MODEL:                     SP0150H05008WD-L150                    

PART NO.: \_\_\_\_\_

REV:                     A1                    

DATE:                     2024/7/18                    

APPROVED BY

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APPROVED BY	<i>wChen</i>	CHECKED BY	<i>YJ Li</i>	PREPARED BY	<i>Jack Lo</i>
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SPECIFICATIONS

MODEL NO.  
SP0150H05008WD-L150

SHEET

TITLE  
SPEAKER

PART NO.

1 OF 6

ALTERNATION HISTORY

Marking	Date	ECN NO.	REV.	Description	Page	Prepare By	Approve By
--	2024-7-12	-----	A0		P1-P6	<i>Jack Lo</i>	<i>wChen</i>
	2024-7-18	-----	A	1.Change connector pitch to 1.25 2. Redfine Fo=1000±20%Hz	P3	<i>Jack Lo</i>	<i>wChen</i>

1. DESCRIPTION

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This specification covers our product of dynamic speaker unit

## 2. GENERAL REQUIREMENTS

2.1 OPERATING TEMPERATURE RANGE: -20°C ~ +60°C

2.2 STANDARD TEST CONDITIONS:

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

2.3 JUDGEMENT CONDITIONS:

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

## 3. ELECTRONIC ACOUSTIC CHARACTERISTICS

### 3.1 SOUND PRESSURE LEVEL

87±3dB SPL @1KHz/ 1.5KHz/ 2KHz average (0dB SPL=20μPa)

Measuring condition: 0.5W (Sine wave ) in Fig.3.

3.2 IMPEDANCE:8±15% Ω(@1KHz 1V) .

3.3 MEASURING DIAGRAM: Shown in Fig.2.

3.4 TYPICAL FREQUENCY RESPONSE CURVE: Shown in Fig.3.

3.5.1 RATED POWER:	0.5W
3.5.2 RATED NOISE POWER (IN FREE AIR)	0.6W
3.5.3 MAXIMUM INPUT POWER	0.8W
3.5.4 SHORT TERM MAXIMUM POWER (IN FREE AIR)	1W

3.6 RESONANCE FREQUENCY (F<sub>0</sub>): 1000±20%Hz @ 1V.

3.7 DISTORTION: Less than 5% at 2KHz 0.1W

## 4. MECHANICAL LAYOUT & DIMENSIONS (Fig.1)

Other tolerance : ±0.2

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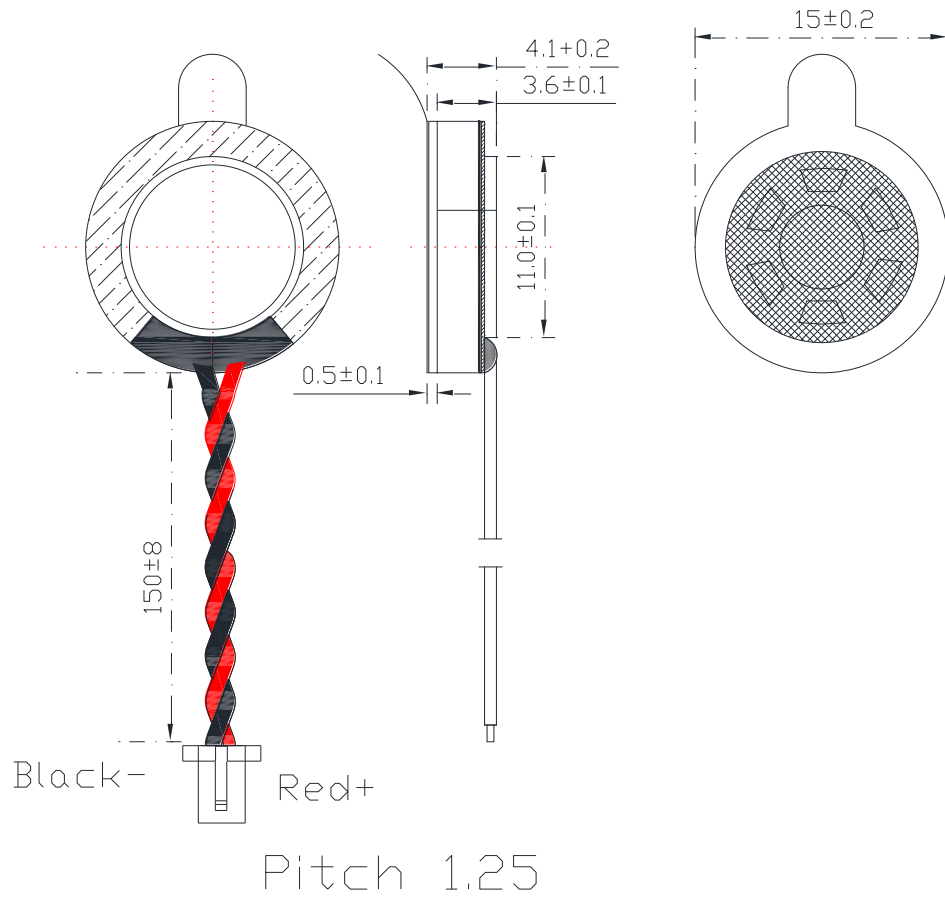


Fig.1 Outer dimension (unit: mm)

**Bill of Material**

ITEM	DESCRIPTIONS	SPEC.	QTY	REMARK
1	Diaphragm	PEN	1PCS	
2	Voice coil	SHTW	1PCS	
3	Magnet	Nd-Fe-B	1PCS	
4	Washer	SPCC	1PCS	
5	Point of contact	PCB	1PCS	
6	Front cover	SPCC	1PCS	
7	Wire terminal	1571#28AWG Pitch 1.25	1PCS	RED/ BLACK
8	Frame	PBT GF 15%	1PCS	
9	Dustproof net	Non woven	1PCS	BLACK

**5. FREQUENCY MEASURING CIRCUIT (Fig.2)**

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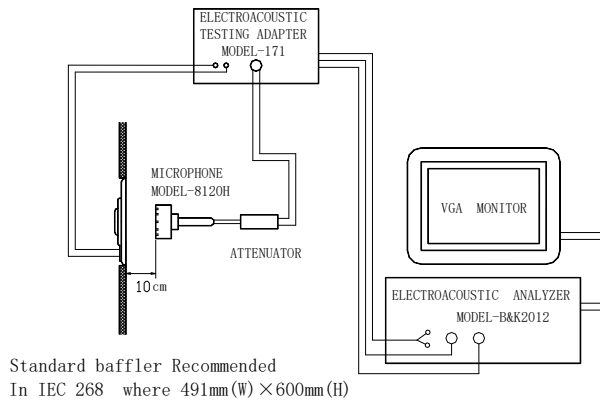
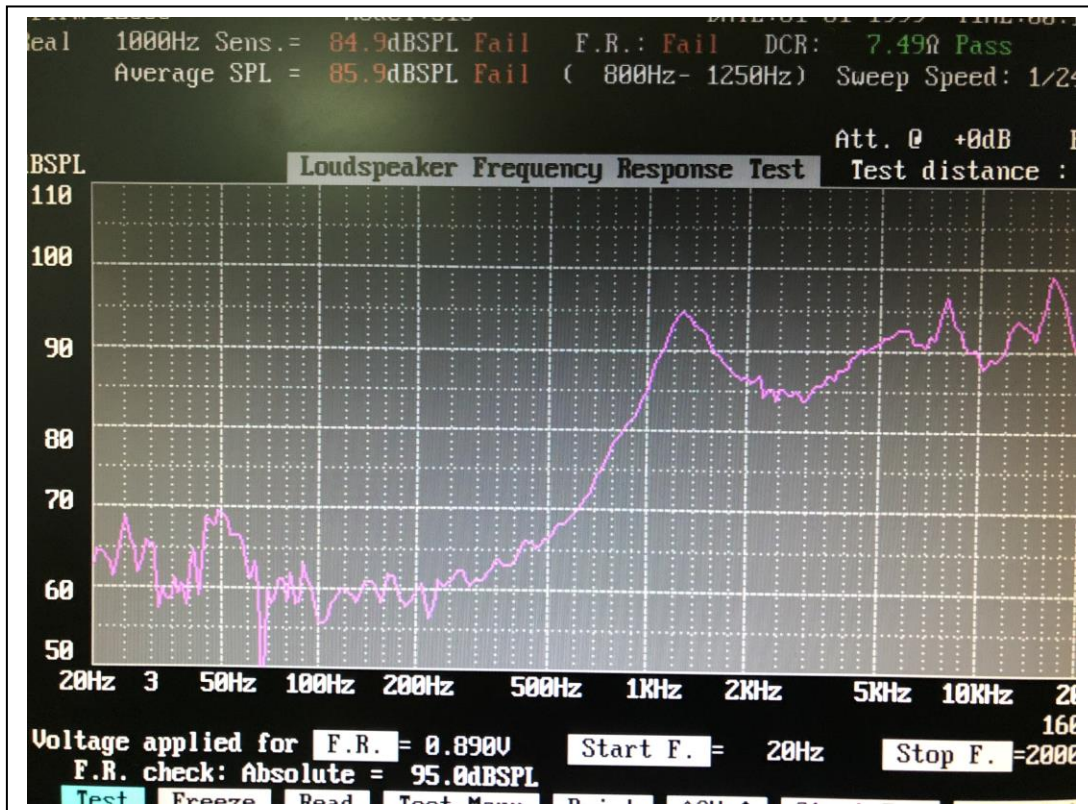


Fig.3 Illustration of measuring diagram

■ TYPICAL FREQUENCY RESPONSE CURVE (Fig.3)



6. RELIABILITY TESTS

The sound pressure as specified shall not be any function and mechanical dangerous after any below testing.

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#### 6.1 HIGH TEMPERATURE STORAGE TEST

High temperature: +75±2°C  
Duration: 96 hours

#### 6.2 LOW TEMPERATURE STORAGE TEST

Low temperature : -20±2°C  
Duration: 96 hours

#### 6.1 HIGH TEMPERATURE OPERATION TEST      Input power: 0.5W

High temperature: +55±2°C  
Duration: 48 hours

#### 6.2 LOW TEMPERATURE OPERATION TEST      Input power: 0.5W

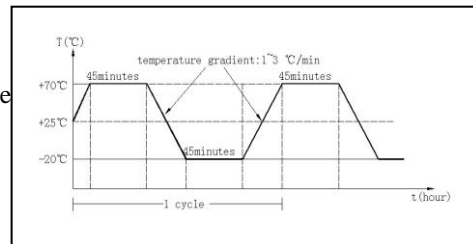
Low temperature : -20±2°C  
Duration: 48 hours

#### 6.3 HIGH TEMPERATURE HIGH HUMIDITY OPERATION TEST

Temperature: +40±2°C      Input power: 0.5W  
Relative humidity: 90 ~ 95%  
Duration: 48 hours

#### 6.4 TEMPERATURE CYCLE OPERATION TEST

Temperature: -20°C      +70°C  
Duration: 45 minutes      45 minute  
Temperature gradient: 1~3°C/min.  
Cycle: 25  
Input power: 1.0W



#### 6.5 DROP TEST

Mounted with dummy set mass: 100 g  
Height: 1.5 m  
Cycle: 6 (1 each plain) onto the concrete board

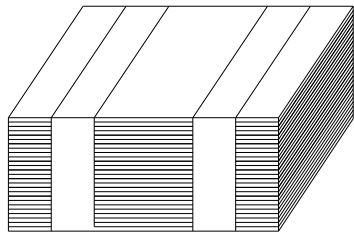
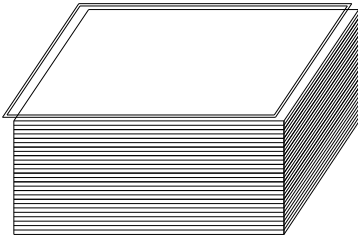
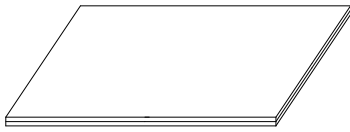
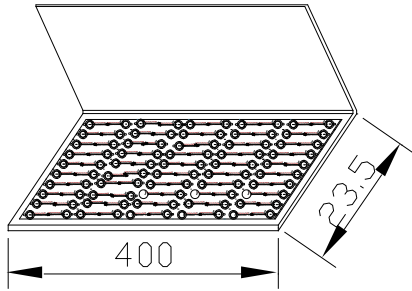
#### 6.6 LOAD TEST

- (1) Speaker mode: White noise (EIA filter) for 96 hours @0.5W input power.
- (2) A voltage of 500V DC shall be applied for 1 min between a terminal and frame, the impedance should above 1MΩ
- (3) Speaker with cable fixed at both ends of the testing equipment in the rally, can bear the weight for 0.5KG.

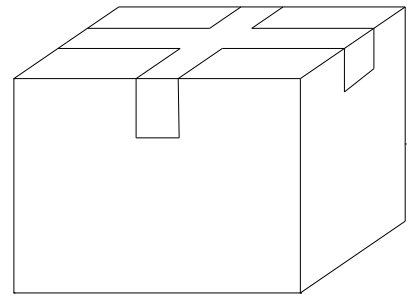
### 7. Packing

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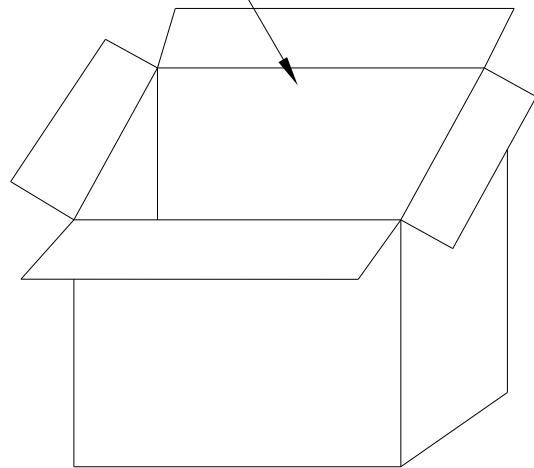
100pcs\*1= 100pcs



100pcs\*40层= 4000pcs



L430\*W260\*H370



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