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PRELIMINARY SPECIFICATION

Speaker

Part Number	OWS-5716TA-4C
Note	This item is in compliance with the following requirements: 1. RoHS directive 2. REACH
Customer P/N	


Ole Wolff	Signature / Date	Prepared	Checked	Approved
		WangMenghua 2022.07.14		

Customer	Signature / Date	Confirmation		

REVISION NOTES:

Date	Rev.	Description of Revision
2022.07.14	00	Initial Release

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1. SCOPE

THIS SPECIFICATION IS APPLIED FOR A DYNAMIC SPEAKER.

2. TEST CONDITIONS

TEMPERATURE : 15°C ~ 35°C

HUMIDITY : 45%~85% (R.H.)

ATMOSPHERE : 860 ~ 1060 hPa

3. GENERAL REQUIREMENTS

OPERATING TEMPERATURE RANGE: -25° C ~ 60° C

STORAGE TEMPERATURE RANGE: -25° C ~ 60° C

4. MECHANICAL LAYOUT & DIMENSIONS


DIMENSIONS : SHOWN IN FIGURE.3

NET WEIGHT: approx 84g

5. ELECTRICAL AND ACOUSTICAL CHARACTERISTICS

1	Resonance Frequency	480± 20% Hz/2.0V
2	Impedance	4± 15%Ω 1KHz/2.0V
3	Sensitivity	109.5±3 dB(1W/0.1M) AT AVG.(0.8,1.0,1.18,1.5)KHz; UL1480(86.5dBA @3meters) for reference only UL217 (83.5dBA@3meters) for reference only
4	Input Power	(Nom./Max.): 2 W /3W
5	Effective Frequency Range	F0~8KHz
6	Total Harmonic Distortion (THD)	< 5% at 1KHz,1W
7	Buzz & Rattle	2.83V 200~2KHz
8	Magnet	NdFeB φ 12.9 x2.5+ φ 12.9 x2.0t mm

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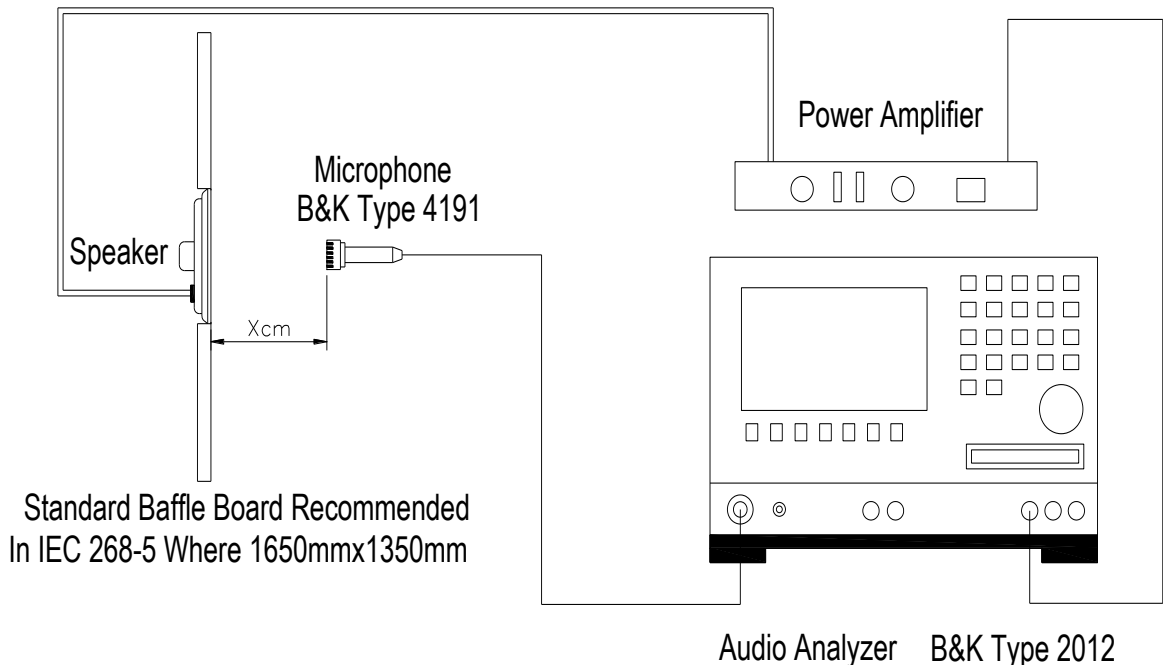
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6. RELIABILITY TEST REQUIREMENTS.

After any following tests the S.P.L should not deviate more than $\pm 3\text{dB}$ from initial value.		
No.	ITEMS	TEST CONDITION
1.	High Temp. Test	Keep 96 hours at $+60^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check
2.	Low Temp. Test	Keep 96 hours at $-25^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check
3.	Humidity Test	Keep 96 hours at $+40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ relative humidity 95% and leave 3 hours in normal temperature and then check
4.	Thermal cycle Test	Low temperature: $-25 \pm 3^{\circ}\text{C}$, High temperature: $+60 \pm 3^{\circ}\text{C}$, cycle: 1 hour/cycle, total 5 cycles.
5.	Vibration Test	10~55~10Hz sin-wave sweep 15min.5G(constant);X,Y,Z 3 direction,2hours each, total 6 hours.
6.	Drop Test	Free drop a unit from 100cm height to 20mm thick board.6 directions, total 6 times.
7.	Load Test	Rated Power white noise is applied for 96 hours.
8.	Max Power Test	Max Power 1min on, 2min off, 10cycles.
9.	Terminal strength Test	Capable of withstand 1kg load for 15seconds without resulting in any damage or rejection

7. MEASUREMENT CIRCUIT (FIG.1)

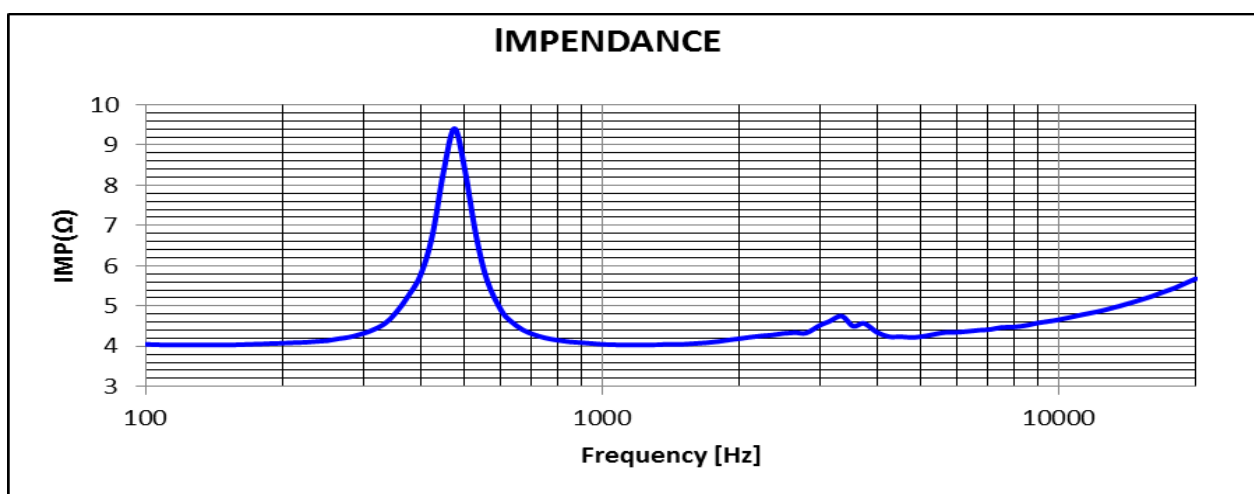
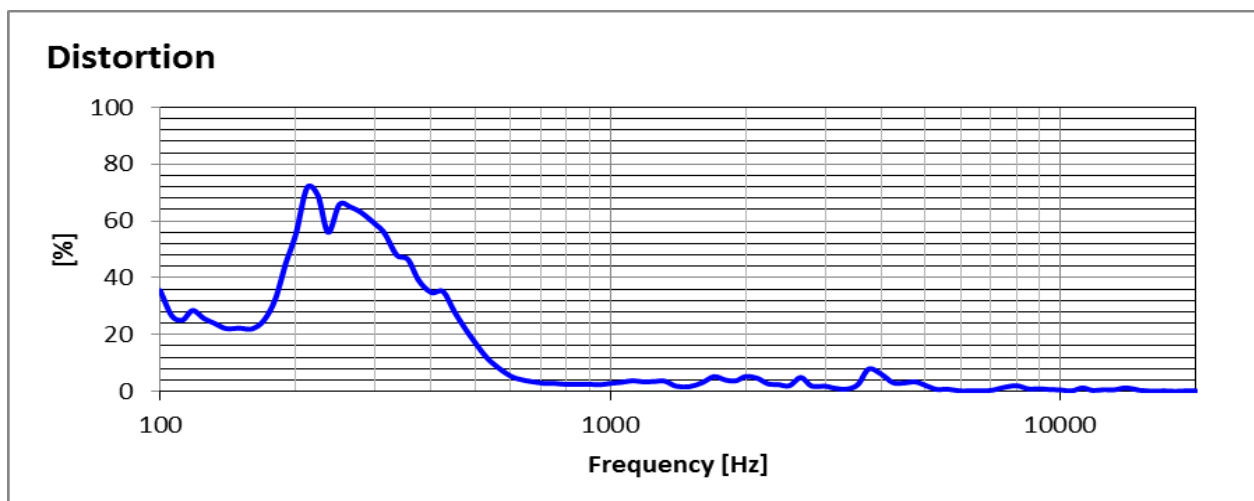
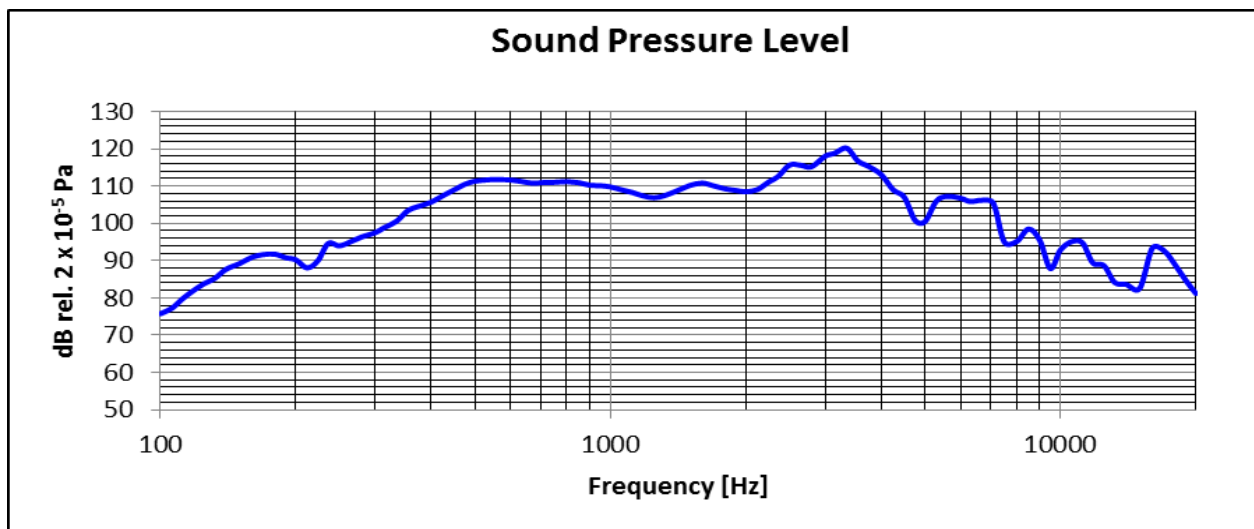
Standard test condition of speaker




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8. STANDARD FREQUENCY RESPONSE CURVE(Fig.2)

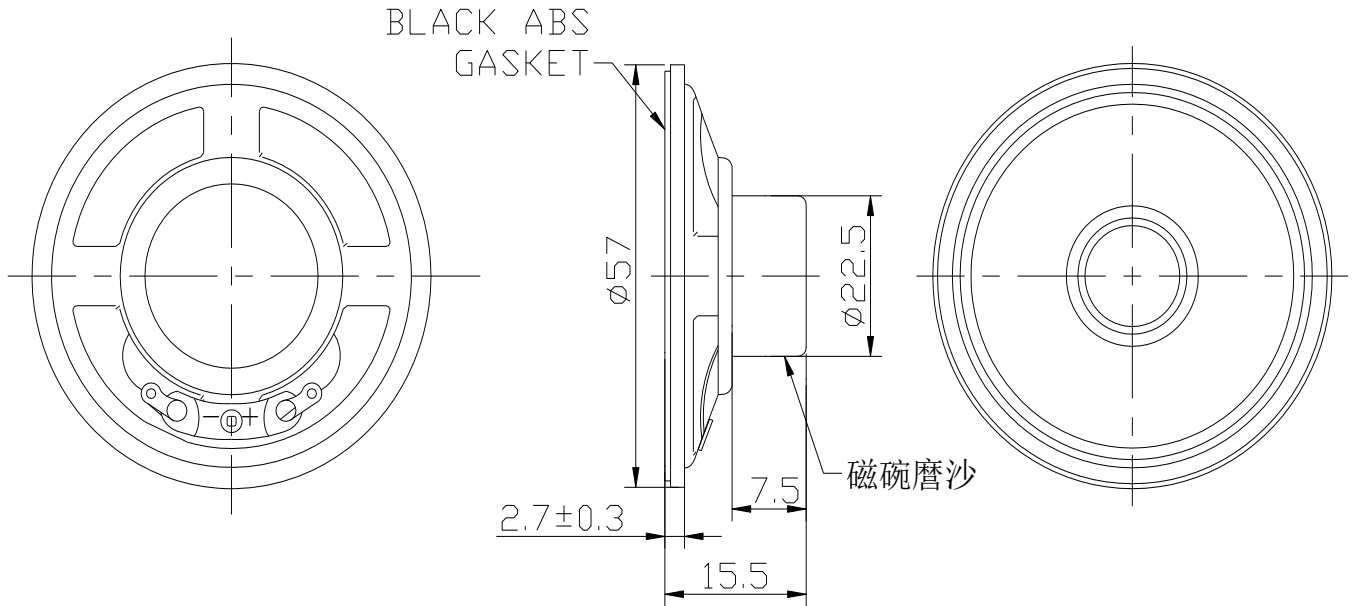


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9. OUTVIEW (Fig.3)

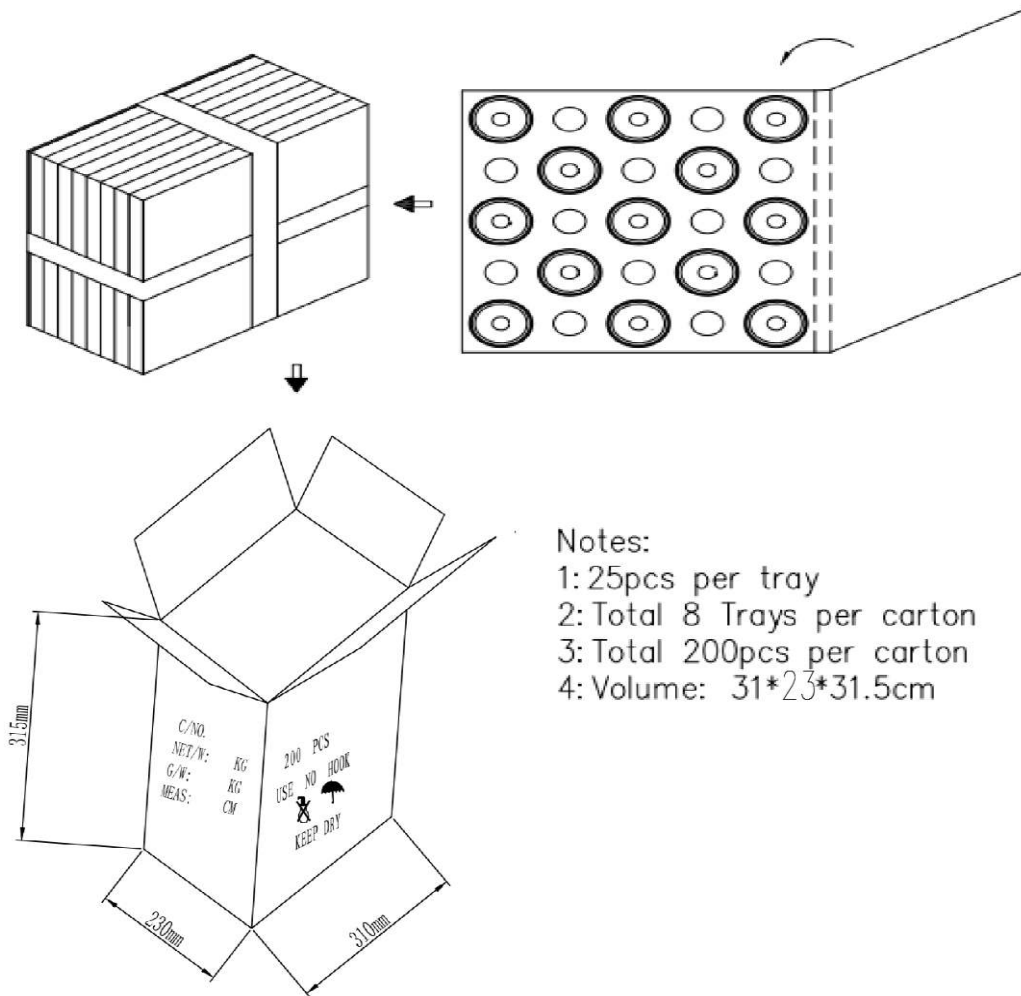
Unless otherwise specified, tolerance: ± 0.3 (unit: mm)



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10. PACKING(Fig.5)



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