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SPECIFICATION FOR APPROVAL

Speaker

Part Number	OWS-3117TA-4
Note	This item was compliance with the following requirements: 1. RoHS directive 2. REACH
Customer P/N	


Ole Wolff	Signature / Date	Prepared	Checked	Approved
		Wangmenghua 2022.7.21		

Customer	Signature / Date	Confirmation		

REVISION NOTES:

Date	Rev.	Description of Revision
2022.7.21	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: -20° C ~ 55° C

STORAGE TEMPERATUR RANGE: -20° C ~ 55° C

4. MECANICAL LAYOUT & DIMENSIONS


DIMENSIONS : SHOWN IN FIGURE.3

NET WEIGHT: approx 14.6g

5. ELECTRICAL AND ACOUSTICAL CHARACTERISTICS

1	Resonance Frequency	240± 20% Hz/1V
2	Impedance	4 ± 15%Ω 2KHz/1V
3	Sensitivity	90±3 dB(0.89V/0.1M) AT1.0,1.2,1.5,2.0KHz AVG
4	Input Power	(Nom./Max.): 2.0 W / 2.5 W
5	Effective Frequency Range	F0~10KHz
6	Total Harmonic Distortion (THD)	< 15% at 1K Hz, 2.0 W Sine wave
7	Buzz & Rattle	2.83V F0~5KHz
8	Magnet	NdFeB φ 12.5 x3.0t mm+ φ 9.5 x1.5t mm

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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.

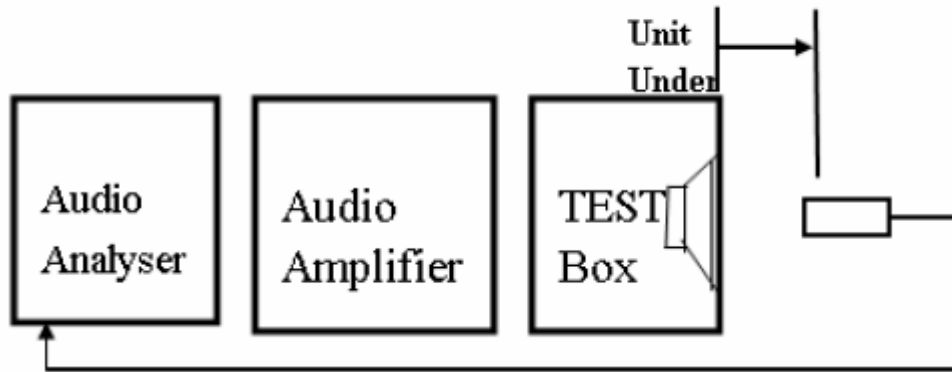
No.	ITEMS	TEST CONDITION
1.	High Temp. Test	Keep 96 hours at $+55^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check
2.	Low Temp. Test	Keep 96 hours at $-20^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check
3.	Humidity 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: $-20 \pm 3^{\circ}\text{C}$, High temperature: $+55 \pm 3^{\circ}\text{C}$, 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.

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7. ELECTRICAL CHARACTERISTICS MEASUREMENT (FIGURE.1)


MEASUREMENT CIRCUIT FOR DYNAMIC SPEAKER



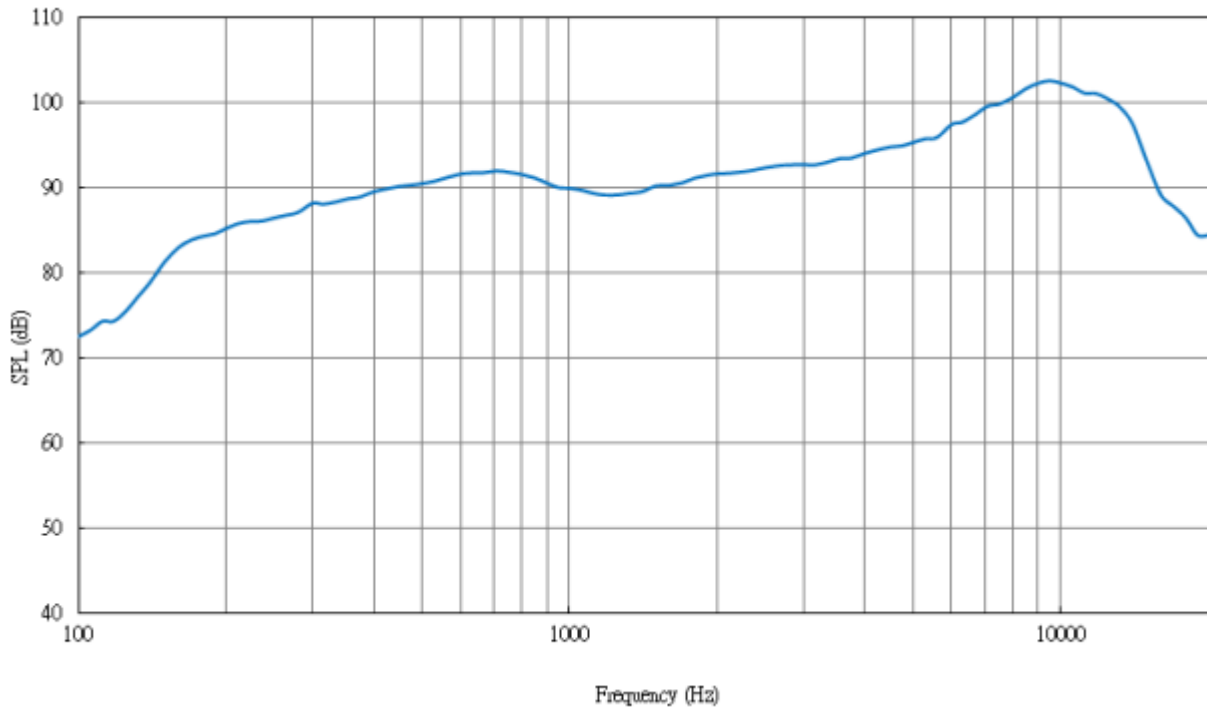
MEASURING EQUIPMENT

NO	EQUIPMENT	REMARKS
1.0	UNIT UNDER TEST	SPEAKER
2.0	TEST BOX	OLE WOLFF STANDARD BOX
3.0	AUDIO POWER AMPLIFIER	CRATE AUDIO SPA300
4.0	ANALYZER	LISTEN SOUNDCHECK


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8. STANDARD FREQUENCY RESPONSE CURVE(Fig.2)

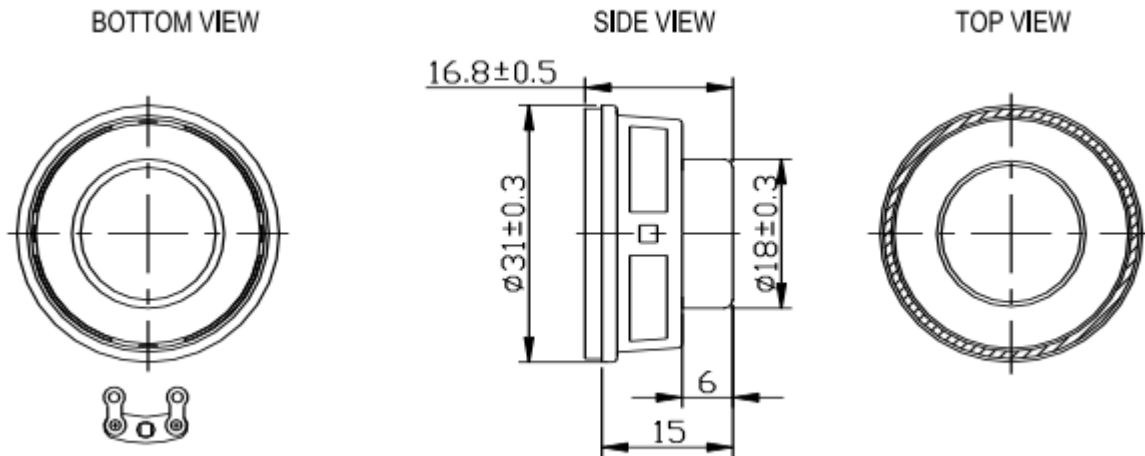


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9. OUTVIEW (Fig.3)

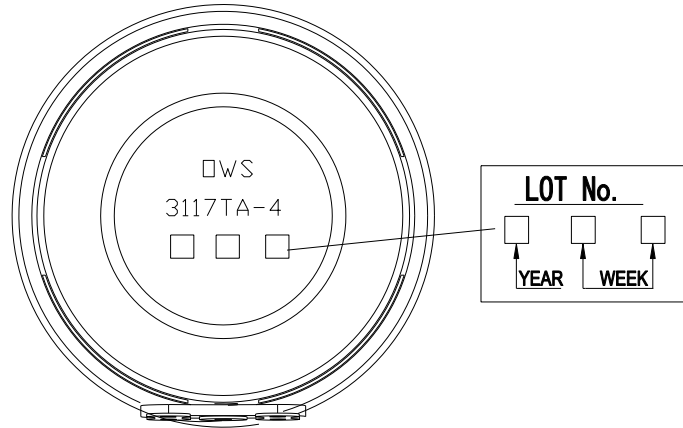
Unless otherwise specified, tolerance: ± 0.5 (unit: mm)



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10.MARKING (Fig.4)

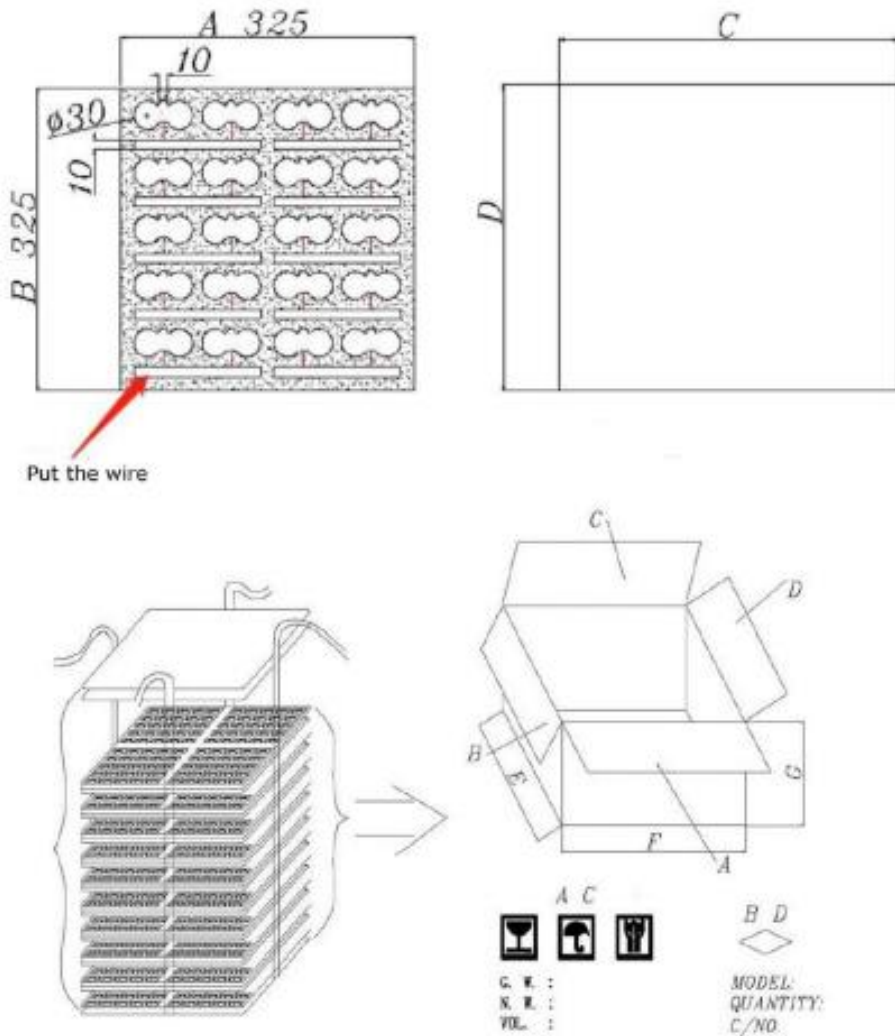


YEAR		WEEK	
year	marking	week	marking
2022	2	1	01
2023	3	2	02
2024	4	3	03
2025	5	4	04
2026	6	5	05
2027	7	↓	↓
2028	8		
2029	9		
		50	50
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		52	52
		53	53

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10.PACKING(Fig.4)



Package size: length A × width B × height	325.0 * 325.0 * 20.0 T + 5.0 mm cardboard mm	10 Tray
	10,0 pairs / tray	
Cardboard size: length C × width D × height	325.0 * 325.0 * 5.0 T	10 Tray
Carton size: length E × width F × height G	340.0 × 340.0 × 260.0 mm	10 pcs × 10 = 100 pcs / carton

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