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SPECIFICATION FOR APPROVAL

Speaker

Part Number	OWS-2879W50A-4
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
		TANQIANFENG 2022.09.13		

Customer	Signature / Date	Confirmation

REVISION NOTES:

Date	Rev.	Description of Revision
2022.09.13	00	Initial Release

OLE WOLFF ELEKTRONIK A/S Roedengvej 25 4180 Soroe Denmark TEL: +45 57833830 FAX: +45 57820019	OLE WOLFF ELECTRONICS INC. 1525 McCarthy Blvd, Suite 1093 Milpitas, Ca 95035 USA TEL: +1 408 888 8413	OLEWOLFF ELEKTRONIK GmbH Schulstrasse 15A. DE-25451 Quickborn. Germany TEL: +49 (0) 4106 765900 FAX: +49 (0) 4106 627297	OLEWOLFF ELECTRONICS 3 Bedford Street, Woburn, Bedfordshire MK17 9QB, ENGLAND TEL: +44 (0) 1525 290755 FAX: +44 (0) 1525 290855	OLE WOLFF ELEKTRONIK Yliopistonkatu 26 (P.O.BOX 257) FI-40101 Jyväskylä Finland TEL: +358 14 338 3050 FAX: +358 14 338 3059	OLE WOLFF (ASIA) LTD. Unit B, 19/F., Bold Win Ind. Bldg., No. 16-18 Wah Sing St., Kwai Chung, N.T., H.K. TEL: +852 2424 3274 FAX: +852 2424 2219	OLE WOLFF LTD. Unit 7A08, Block 2, Elite Building, Nanshan Avenue, Nanshan District, Shenzhen, PRC. TEL: +86 755 82612542 TEL: +86 755 26406156
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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: -30° C ~ 70° C

STORAGE TEMPERATURE RANGE: -40° C ~ 85° C

4. MECHANICAL LAYOUT & DIMENSIONS

DIMENSIONS : SHOWN IN FIGURE.4

NET WEIGHT: approx 10 g

5. ELECTRICAL AND ACOUSTICAL CHARACTERISTICS

1	Resonance Frequency	570± 20% Hz/1V
2	Impedance	4 ± 20%Ω 1KHz/1V
3	Sensitivity	103±3 dB(2W/0.1M) AT F0~6KHz AVG
4	Input Power	(Nom./Max.): 2.0 W / 3.0 W
5	Effective Frequency Range	F0~20KHz
6	Total Harmonic Distortion (THD)	< 10% at 1K~20K Hz,2.0 W Sine wave
7	Buzz & Rattle	2.83V F0~20KHz
8	Magnet	NdFeB φ12.6 x3.3t mm

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6. RELIABILITY TEST REQUIREMENTS

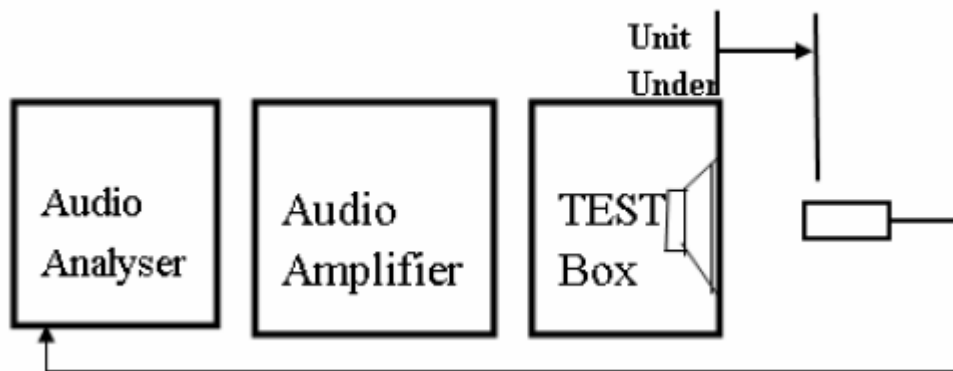
After any following tests the S.P.L should not deviate more than $\pm 3\text{dB}$ from initial value.		
No.	ITEMS	TEST CONDITION
1.	High Temp. Test	Keep 96 hours at $+85^{\circ}\text{C}\pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check
2.	Low Temp. Test	Keep 96 hours at $-40^{\circ}\text{C}\pm 3^{\circ}\text{C}$ 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: $-40\pm 3^{\circ}\text{C}$,High temperature: $+85\pm 3^{\circ}\text{C}$,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

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7. ELECTRICAL CHARACTERISTICS MEASUREMENT (FIGURE.1)

MEASUREMENT CIRCUIT FOR DYNAMIC SPEAKER



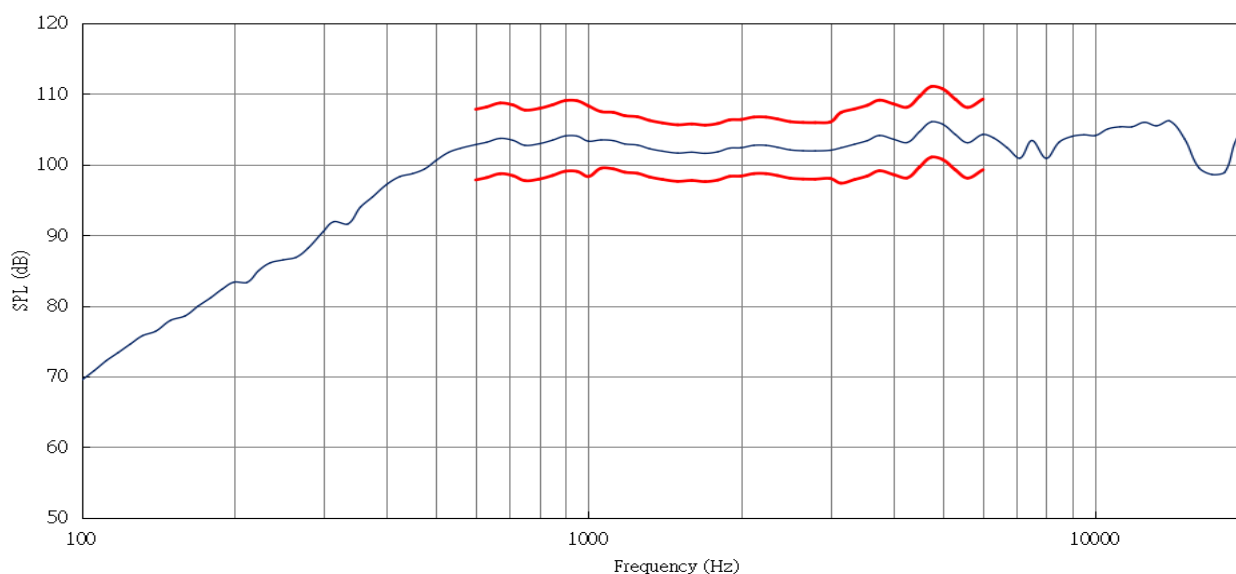
MEASURING EQUIPMENT

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 SOUNDHECK

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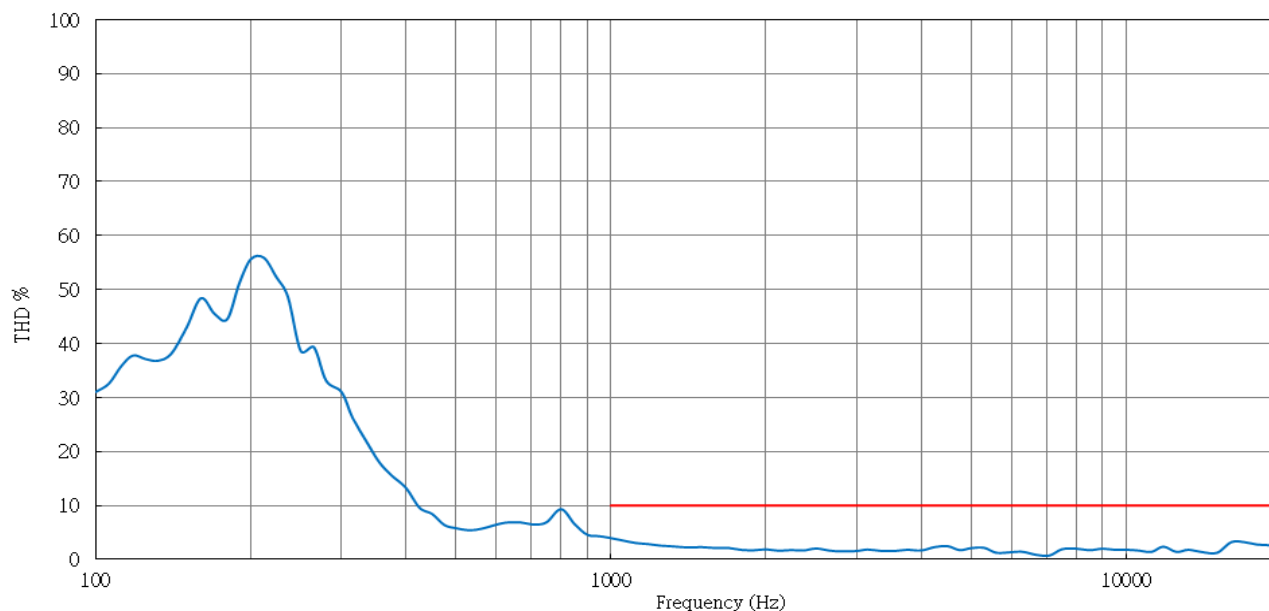
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8. STANDARD FREQUENCY RESPONSE CURVE (Fig.2)



Hz	600~1000	1060~3000	3150~6000
dB	±5	±4	±5

9. STANDARD THD CURVE (Fig.3)



Hz	1000~20000
THD	<10%

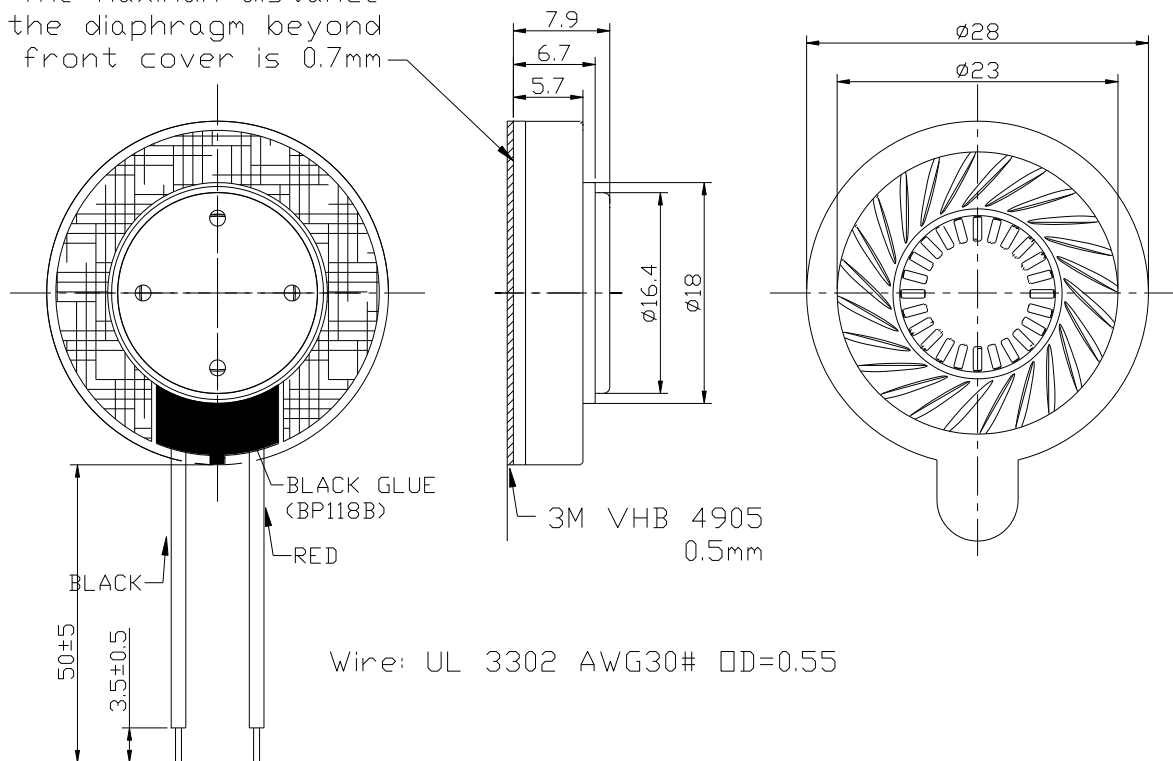
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10. OUTVIEW (Fig.4)

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

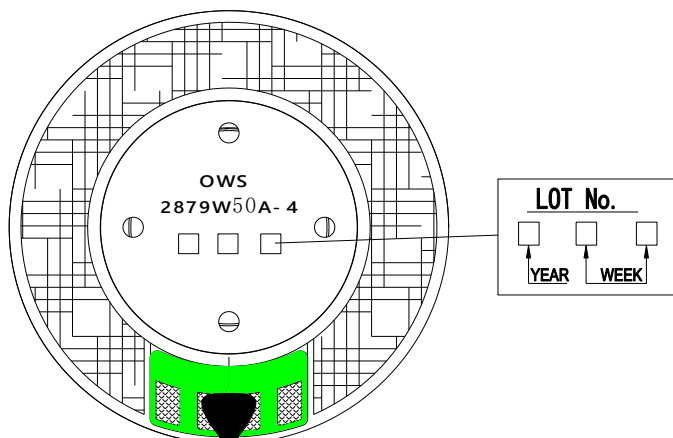
The maximum distance of the diaphragm beyond the front cover is 0.7mm



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11. MARKING (Fig.5)

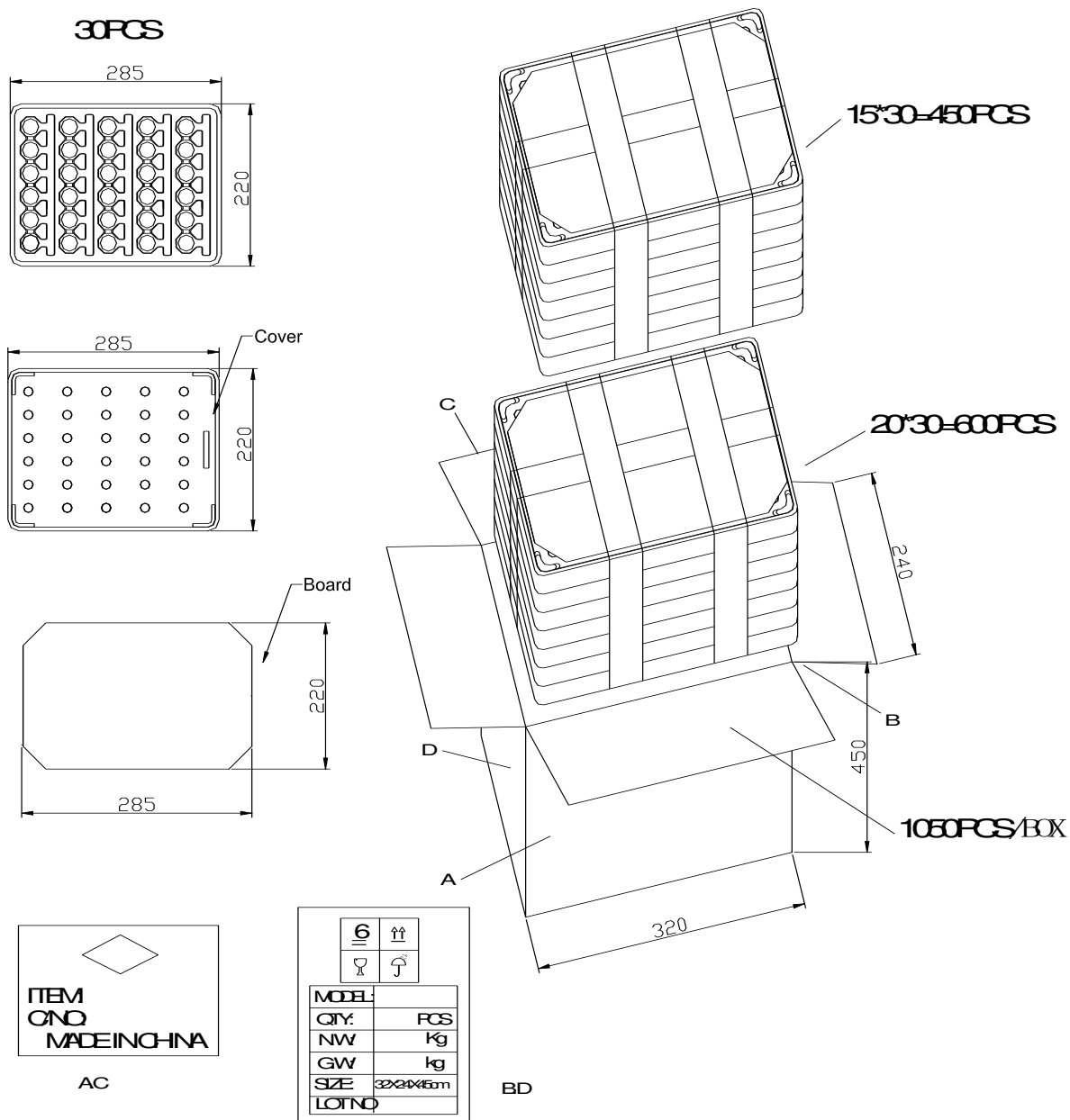


YEAR		WEEK	
year	marking	week	marking
2015	5	1	01
2016	6	2	02
2017	7	3	03
2018	8	4	04
2019	9	5	05
2020	0	↓	↓
2021	1		
2022	2		
		50	50
		51	51
		52	52
		53	53

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12. PACKING (Fig.6)



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