

	Date	7-Sep-2022	SPECIFICATION	OLE WOLFF
	Page	1 / 8		www.owolff.com
	DK	P/N: OWS-081528TA-6		Revision: 00



PRELIMINARY SPECIFICATION

Speaker

Part Number	OWS-081528TA-6
Note	This item was compliance with the following requirements: 1. RoHS directive
Customer P/N	

		Prepared	Checked	Approved
Ole Wolff	Signature / Date	LIUYANLONG 2022/09/07		

		Confirmation
Customer	Signature / Date	

REVISION NOTES:

Date	Rev.	Description of Revision
2022/09/07	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. 5 Floor, Block G, WenTao Industrial Park, YingRenShi, Bao'an District, Shenzhen , PRC TEL: +86 755 82612542 TEL: +86 755 26406156
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	Date	7-Sep-2022	SPECIFICATION	OLE WOLFF
	Page	2 / 8		www.owolff.com
	DK	P/N: OWS-081528TA-6		Revision: 00

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 ~ 70° C

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

4. MECHANICAL LAYOUT & DIMENSIONS

DIMENSIONS : SHOWN IN FIGURE.4

NET WEIGHT: approx 1.85g

5. ELECTRICAL AND ACOUSTICAL CHARACTERISTICS

1	IMPEDANCE	6 ±20%Ω
2	SOUND PRESSURE LEVEL	90±3 dB(0.7W/10cm, in 1cc box) at2.0 KHz, MEASUREMENT AS SHOWN IN FIGURE.1
3	FREQUENCY RESPONSE CURVE	SHOW IN FIGURE 2
4	RESONANCE FREQUENCY	1200 ±20% Hz in 1cc box at 2.05Vrms
5	TOTAL HARMONIC DISTORTION (THD)	SHOW IN FIGURE 3 < 10% at 2KHz
6	BUZZ & RATTLE	DYNAMIC SPEAKER MUST BE FREE AUDIBLE NOISE AT 2.05Vrms, SINE WAVE BETWEEN 200Hz AND 2KHz FREQUENCY RANGE(in 1cc box).
7	INPUT POWER	(Nom./Max.):0.7W / 1W

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	Date	7-Sep-2022	SPECIFICATION	OLE WOLFF
	Page	3 / 8		www.owolff.com
	DK	P/N: OWS-081528TA-6		Revision: 00

6. RELIABILITY TEST REQUIREMENTS.

After any following tests the S.P.L should not deviate more than $\pm 3\text{dB}$ from initial value.

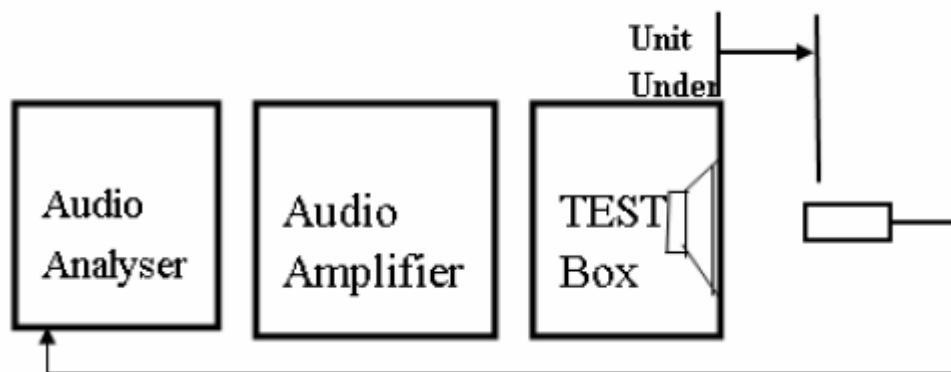
No.	ITEMS	TEST CONDITION
1.	Life Test	Rated power, pink noise 96 hrs
2.	Humidity Test	Temperature:70°C, Humidity:95%RH, Time:120hrs
3.	Drop Test	Refer to IEC 68-2-27 150cm, one time each plane 2cycles
4.	Vibration Test	Refer to IEC 68-2-34 10~55Hz, 1.5mm displacement, X-axis, 1Hour
5.	Thermal Shock Test	'-40°C / +85°C 30 cycles 30 minutes at each temperature 20 seconds maximum transition time.
6.	Temperature Cycle Test	-40°C, 30min ->75°C, 30min(5°C/min) 12cycles

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	Date	7-Sep-2022	SPECIFICATION	OLE WOLFF
	Page	4 / 8		www.owolff.com
	DK	P/N: OWS-081528TA-6		Revision: 00

7. ELECTRICAL CHARACTERISTICS MEASUREMENT (FIGURE.1)

MEASUREMENT CIRCUIT FOR DYNAMIC SPEAKER



MEASURING EQUIPMENT

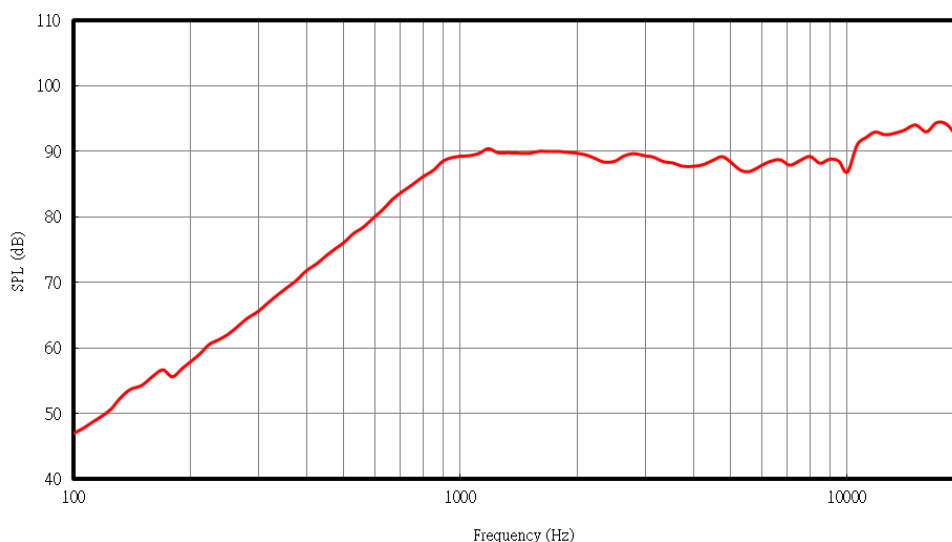
NO	EQUIPMENT	REMARKS
1.0	UNIT UNDER TEST	SPEAKER
2.0	TEST BOX	OLE WOLFF STANDARD BOX
3.0	AUDIO POWER AMPLIFIER	CRATE AUDIO SPA300
4.0	ANALYZER	LISTEN SOUNDCHECK

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	Date	7-Sep-2022	SPECIFICATION	OLE WOLFF
	Page	5 / 8		www.owolff.com
	DK	P/N: OWS-081528TA-6		Revision: 00

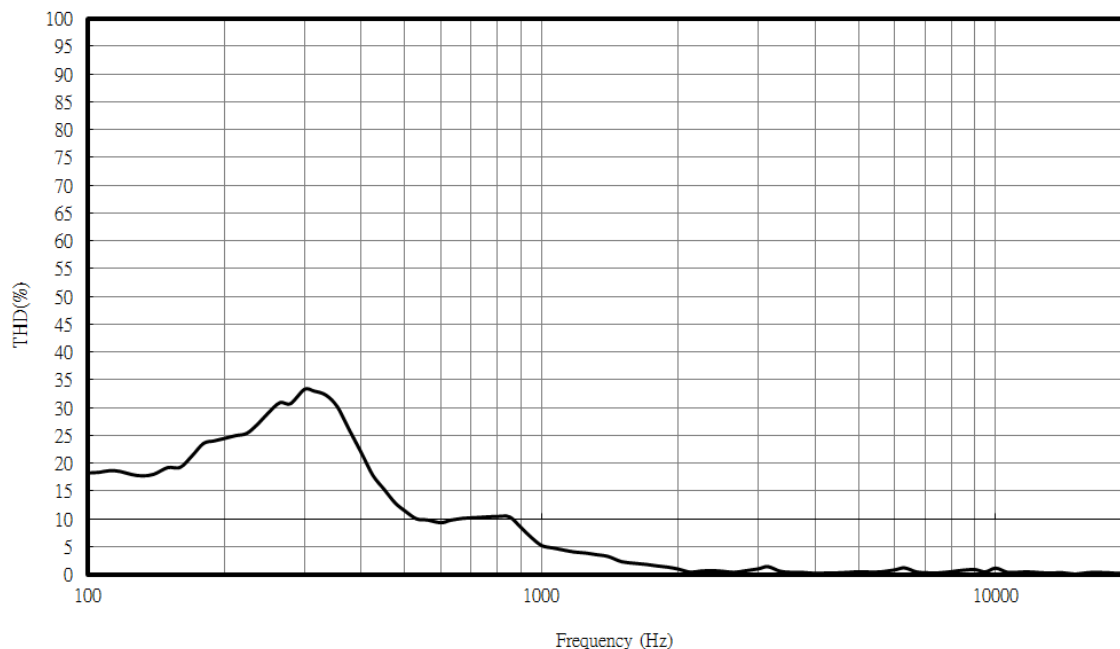
8. STANDARD FREQUENCY RESPONSE CURVE(FIGURE.2)

2.05Vrms /10cm in 1cc BOX



9. STANDARD THD CURVE (FIGURE.3)

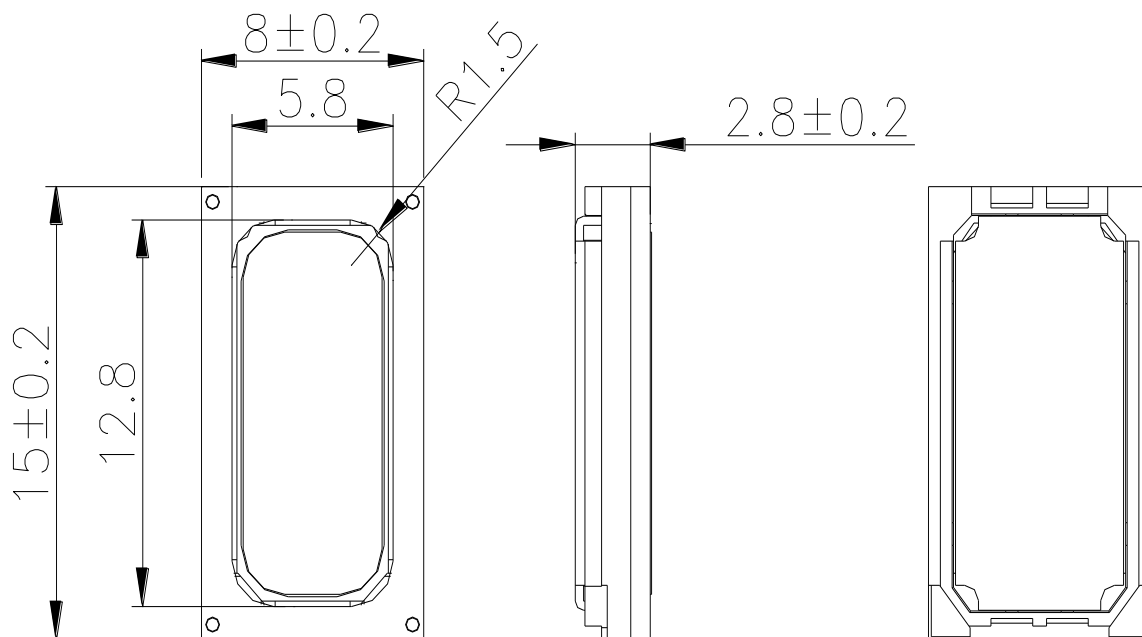
2.05Vrms /10cm in 1cc BOX



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	Date	7-Sep-2022	SPECIFICATION	OLE WOLFF
	Page	6 / 8		www.owolff.com
	DK	P/N: OWS-081528TA-6		Revision: 00

10. OUTVIEW (FIGURE.4)

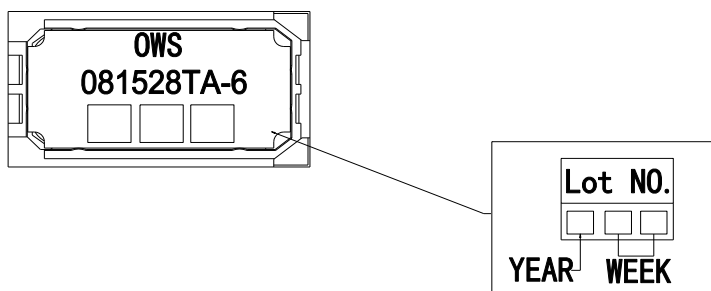


Unless otherwise specified, tolerance: ± 0.2 (unit:mm)

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	Date	7-Sep-2022	SPECIFICATION	OLE WOLFF
	Page	7 / 8		www.owolff.com
	DK	P/N: OWS-081528TA-6		Revision: 00

11.MARKING(Figure.5)

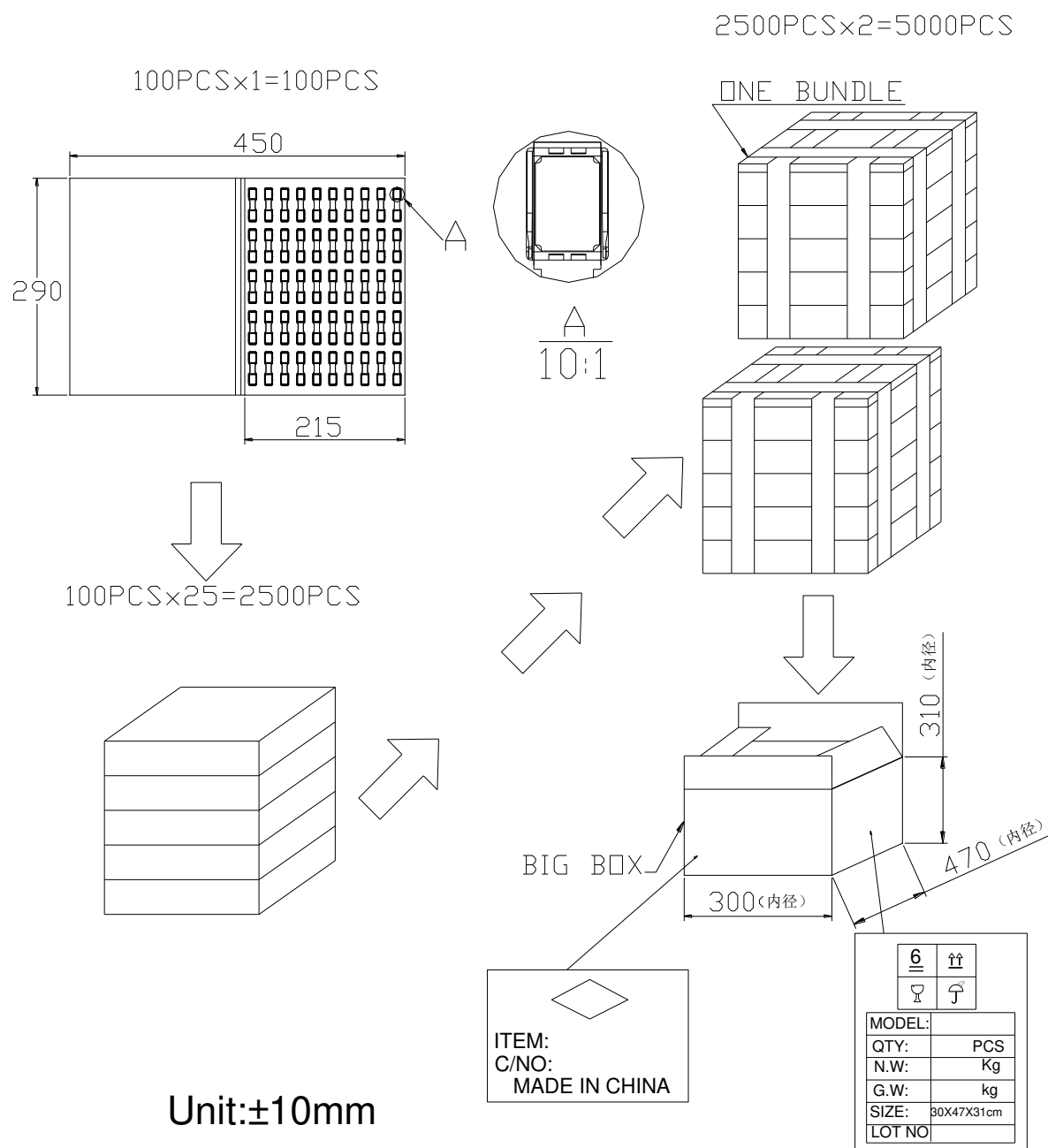


YEAR ↗		WEEK ↗	
year ↗	marking ↗	week ↗	marking ↗
2015 ↗	5 ↗	1 ↗	01 ↗
2016 ↗	6 ↗	2 ↗	02 ↗
2017 ↗	7 ↗	3 ↗	03 ↗
2018 ↗	8 ↗	4 ↗	04 ↗
2019 ↗	9 ↗	5 ↗	05 ↗
2020 ↗	0 ↗	↓	↓
2021 ↗	1 ↗		
2022 ↗	2 ↗		
↗	↗	50 ↗	50 ↗
↗	↗	51 ↗	51 ↗
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↗	↗	53 ↗	53 ↗

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	Date	7-Sep-2022	SPECIFICATION	OLE WOLFF
	Page	8 / 8		www.owolff.com
	DK	P/N: OWS-081528TA-6		Revision: 00

11. PACKING(Figure.6)



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