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# SPECIFICATION FOR APPROVAL

## Speaker

Part Number	OWS-121733TA-8
Note	This item was compliance with the following requirements: 1. RoHS directive 2. REACH
Customer P/N	

Ole Wolff	Signature / Date	Prepared	Checked	Approved
		YanRui 2020.1.16		

Customer	Signature / Date	Confirmation		

### REVISION NOTES:

Date	Rev.	Description of Revision
2020.1.16	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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## 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 2.1g

## 5. ELECTRICAL AND ACOUSTICAL CHARACTERISTICS

1	IMPEDANCE	$8 \pm 15\% \Omega$
2	SOUND PRESSURE LEVEL	99±3 dB(1W/10cm, in 1cc box) at 0.8,1.0,1.5,2.0KHz average, MEASUREMENT AS SHOWN IN FIGURE.1
3	FREQUENCY RESPONSE CURVE	SHOW IN FIGURE 2
4	RESONANCE FREQUENCY	1000 ±20% Hz in 1cc box at 2.83Vrms
5	TOTAL HARMONIC DISTORTION (THD)	SHOW IN FIGURE 3 < 10% at 2KHz
6	BUZZ & RATTLE	DYNAMIC SPEAKER MUST BE FREE AUDIBLE NOISE AT 2.83Vrms, SINE WAVE BETWEEN 200Hz AND 2KHz FREQUENCY RANGE(in 1cc box).
7	INPUT POWER	(Nom./Max.): 1 W / 1.2W

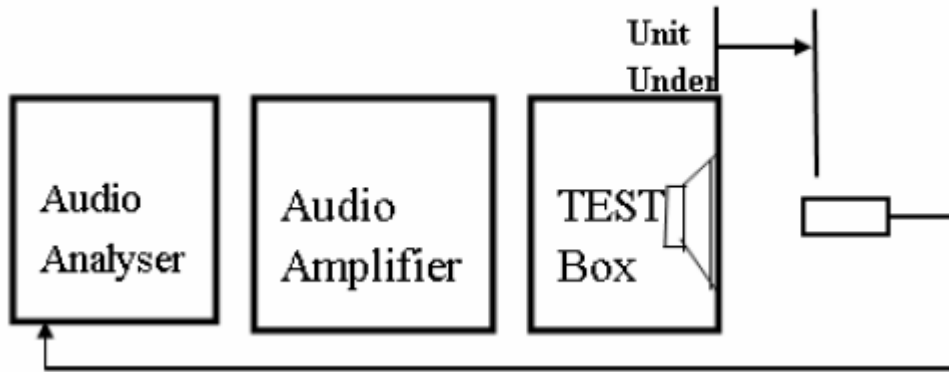
OLE WOLFF ELEKTRONIK A/S Roedengvej 25 4180 Soroe Denmark  TEL: +45 57833830 FAX: +45 57820019	OLE WOLFF ELECTRONICS INC. 1525 McCarthy Blvd, Suite 1093 Milpitas, Ca 95035 USA  TEL: +1 408 888 8413	OLEWOLFF ELEKTRONIK GmbH Schulstrasse 15A. DE-25451 Quickborn. Germany  TEL: +49 (0) 4106 765900 FAX: +49 (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 Yhöpistonkatu 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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## 7. ELECTRICAL CHARACTERISTICS MEASUREMENT (FIGURE.1)

### MEASUREMENT CIRCUIT FOR DYNAMIC SPEAKER



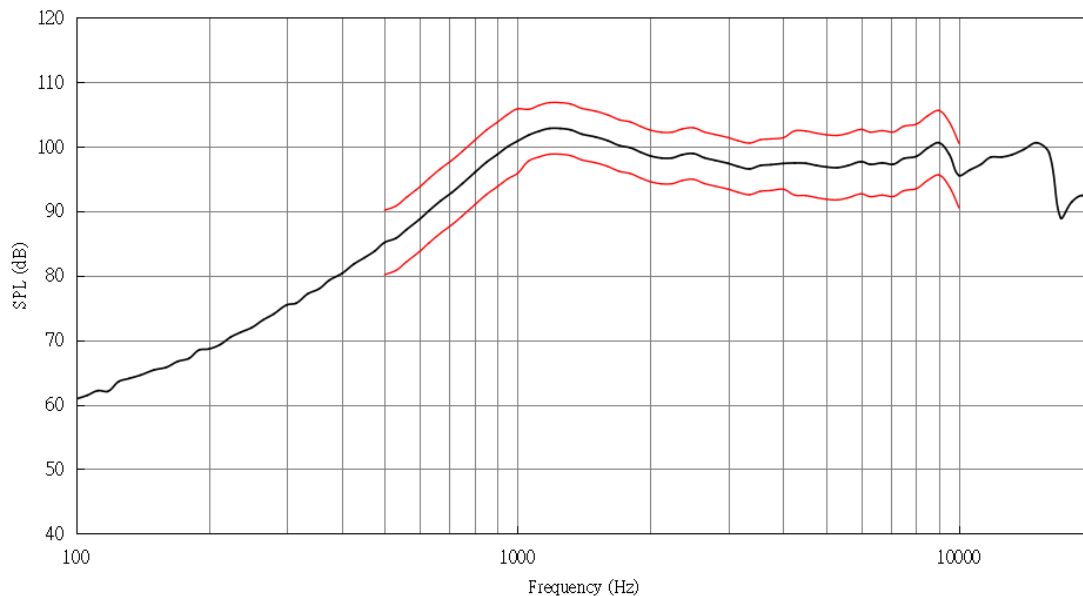
### MEASURING EQUIPMENT

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(FIGURE.2)

**2.83Vrms /10cm in 1cc BOX**

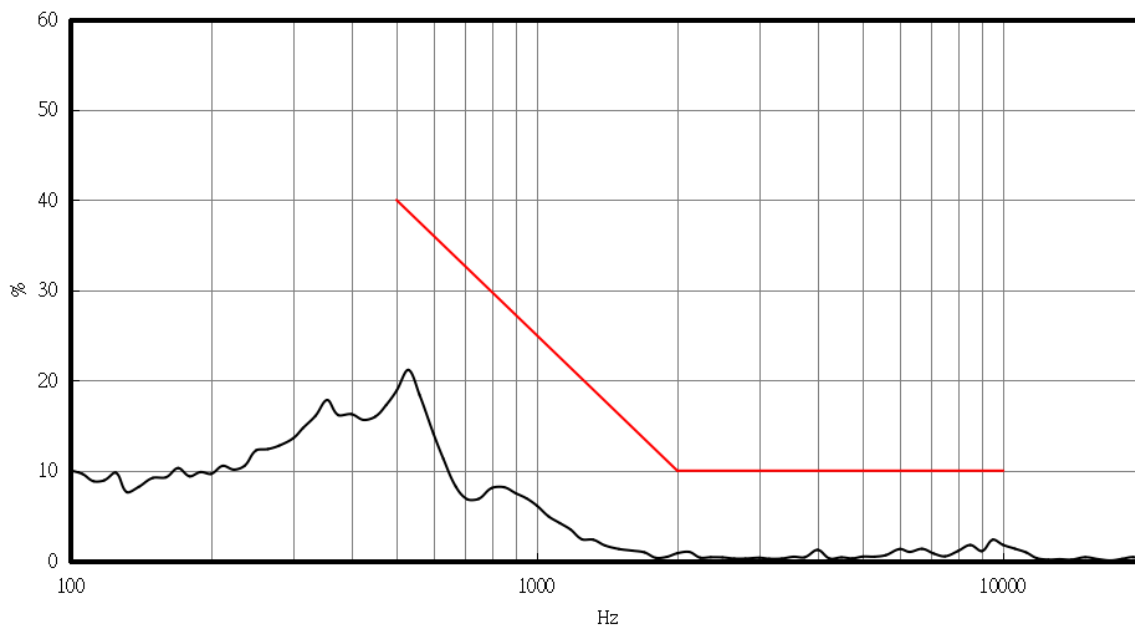


Hz	500~1000	1060~4000	4250~10000
dB	±5	±4	±5

### 9. S

### TANDARD THD CURVE (FIGURE.3)

**2.83Vrms /10cm in 1cc BOX**



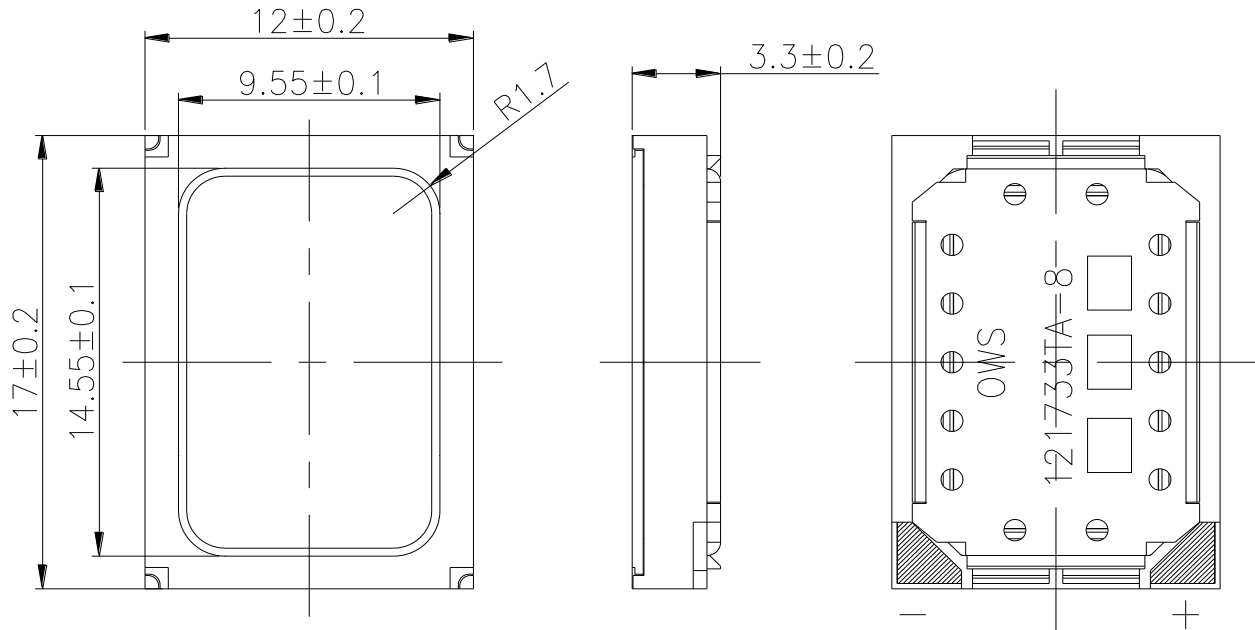
Hz	500	2000	10000
THD	40	10	10

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## 10. OUTVIEW (FIGURE.4)

Unless otherwise specified, tolerance:  $\pm 0.2$  (unit: mm)

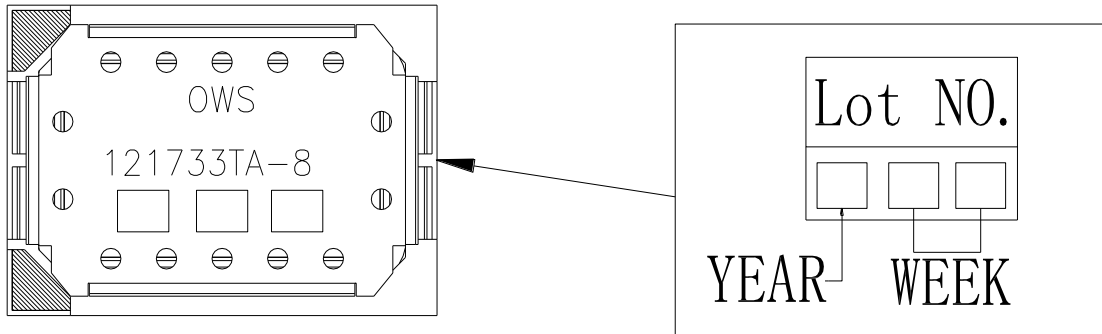
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<p>OLE WOLFF ELEKTRONIK A/S Roedengvej 25 4180 Soroe Denmark</p> <p>TEL: +45 57833830 FAX: +45 57820019</p>	<p>OLE WOLFF ELECTRONICS INC. 1525 McCarthy Blvd, Suite 1093 Mblptas, Ca 95035 USA</p> <p>TEL: +1 408 888 8413</p>	<p>OLEWOLFF ELEKTRONIK GmbH Schulstrasse 15A. DE-25451 Quickborn. Germany</p> <p>TEL: +49 (0) 4106 765900 FAX: +49 (0) 4106 627297</p>	<p>OLEWOLFF ELECTRONICS 3 Bedford Street, Woburn, Bedfordshire MK17 9QB, ENGLAND</p> <p>TEL: +44 (0) 1525 290755 FAX: +44 (0) 1525 290855</p>	<p>OLE WOLFF ELEKTRONIK Yliopistonkatu 26 (P.O.BOX 257) FI-40101 Jyväskylä Finland</p> <p>TEL: +358 14 338 3050 FAX: +358 14 338 3059</p>	<p>OLE WOLFF (ASIA) LTD. Unit B, 19/F, Bold Win Ind. Bldg., No. 16-18 Wah Sing St., Kwai Chung, N.T., H.K.</p> <p>TEL: +852 2424 3274 FAX: +852 2424 2219</p>	<p>OLE WOLFF LTD. 5 Floor, Block G, WenTao Industrial Park, YingRenShi, Bao'an District, Shenzhen, PRC</p> <p>TEL: +86 755 82612542 TEL: +86 755 26406156</p>
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**MARKING(FIGURE.5)**



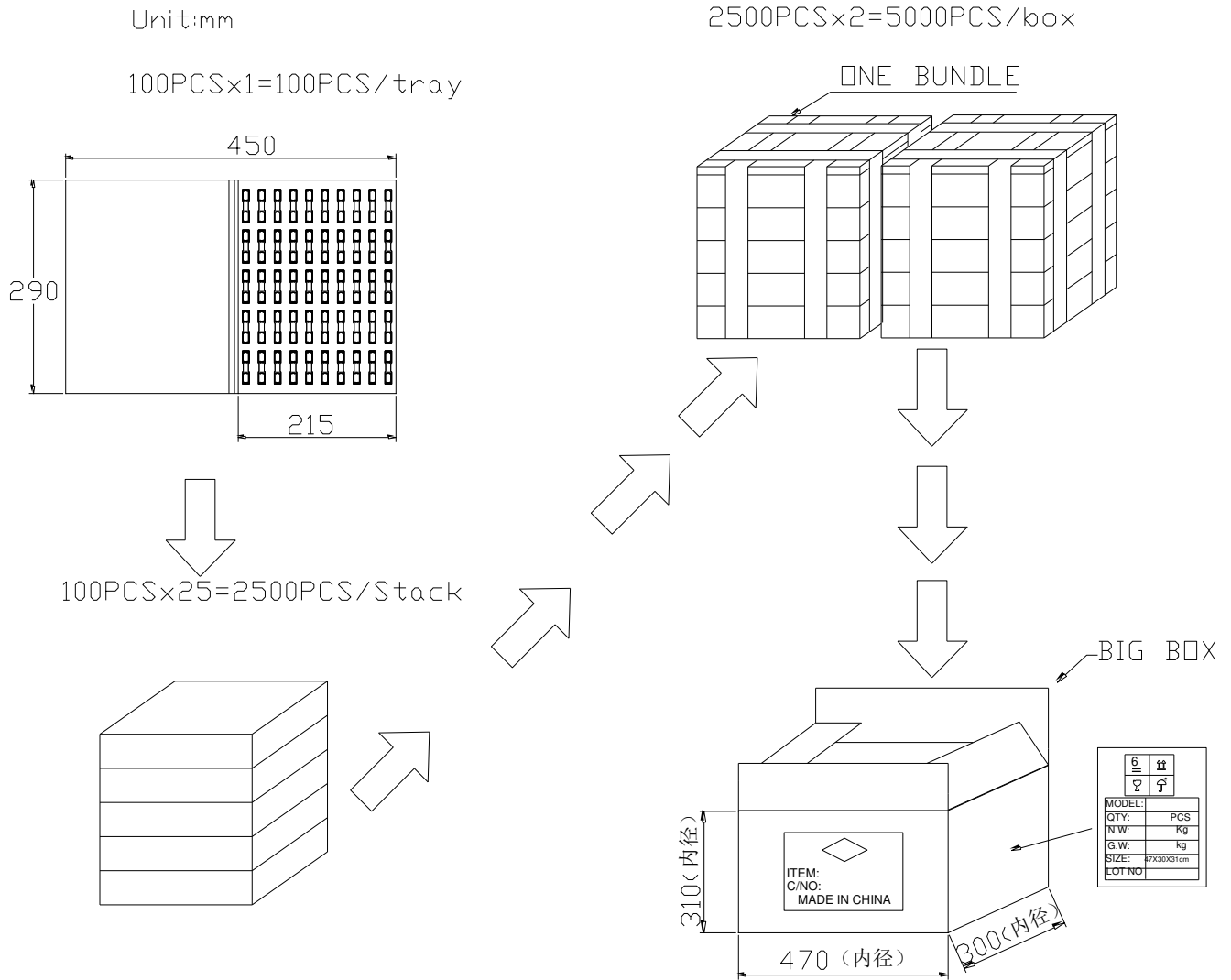
YEAR		WEEK	
year	marking	week	marking
2015	5	6	06
2016	6	↓	↓
2017	7		
2018	8		
		50	50
		51	51
		52	52
		53	53

↑

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## 12. PACKING(Figure.6)



Unless otherwise specified, tolerance: ±10 (unit:mm)

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