

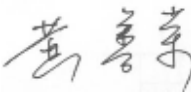
	Date	23-Aug-2019	SPECIFICATION	OLE WOLFF
	Page	1 / 11		www.owolff.com
	CN	P/N: OWDM-1936W-8B		Revision: 01



SPECIFICATION FOR APPROVAL

Dual Mode Speaker

Part Number	OWDM-1936W-8B
Note	This item is in compliance with the following requirements: 1. RoHS directive 2. REACH
Customer P/N	

		Prepared	Checked	Approved
Ole Wolff	Signature / Date	 2019.08.22		Ryan Li 2019.08.26

		Confirmation
Customer	Signature / Date	

Revision Notes:

Date	Rev.	Description of Revision
2018.10.10	00	Initial release
2019.08.22	01	Update the FR mask on P8

OLE WOLFF ELEKTRONIK A/S Roedengvej 25 4180 Soroe Denmark TEL: +45 57833830 FAX: +45 57820019	OLE WOLFF ELECTRONICS INC. 6046 Cornerstone Ct.West Suite 105 San Diego, CA 92121 USA TEL: +1 858 45 00 555 FAX: +1 858 45 00 508	OLE WOLFF ELEKTRONIK GmbH Schnackenburgallee 14 D-22525 Hamburg GERMANY TEL: +49 (0) 407669070 FAX: +49 (0) 40772929	OLE WOLFF ELECTRONICS 3 Bedford Street, Woburn, Bedfordshire MK17 9QB, ENGLAND TEL: +44 (0) 1525 290755 FAX: +44 (0) 1525 290855	OLE WOLFF ELEKTRONIK Yliopistontkatu 26A,3F P.O. Box 257 FIN-40101 Jyväskylä FINLAND TEL: +358 14 338 3050 FAX: +358 14 338 3059	OLE WOLFF (ASIA) LTD. Unit 1-5, 10/F., Peninsula Tower, 538 Castle Peak Road, Lai Chi Kok, Kowloon HONG KONG TEL: +852 2424 3274 FAX: +852 2424 2219	OLE WOLFF ELECTRONICS (M) SDN. BHD. 7, Persiaran Bukit Kecil 1, Taman Sri Nibong, 11900 Bayan Lepas, Penang MALAYSIA TEL: +604 646 9573 FAX: +604 643 0981
---	--	---	--	---	--	--

	Date	23-Aug-2019	SPECIFICATION	OLE WOLFF
	Page	2 / 11		www.owolff.com
	CN	P/N: OWDM-1936W-8B		Revision: 01

1. SCOPE

THIS SPECIFICATION IS APPLIED FOR A DYNAMIC SPEAKER FOR A MOBLUE PHONE OR SIMILAR HAND HELD APPLICATION.

2. TEST CONDITIONS

TEMPERATURE : 18°C ~ 22°C

HUMIDITY : 65% +/-5% (R.H.)

ATMOSPHERE : 860 ~ 1060 hPa

3. GENERAL REQUIREMENTS

OPERATING TEMPERATURE RANGE : -20° C ~ 65° C

STORAGE TEMPERATUR RANGE : -40° C ~ 80° C

4. MECANICAL LAYOUT & DIMENSIONS

DIMENSIONS : SHOWN IN FIGURE.5.

NET WEIGHT : 2.7 ±0.2g

5. ELECTRICAL AND ACOUSTICAL CHARACTERISTICS FOR DYNAMIC SPEAKER&RECEIVER

1	IMPEDANCE	8Ω ± 15% AT 2kHz
2	SOUND PRESSURE LEVEL	SPEAKER: 93dB±3 dB 0.1W,0.1M AT AVE 0.8K 1.0K 1.2K 1.5K 0.89V (0dB=20.0 μ Pa/V) MEASUREMENT AS SHOWN IN FIGURE.4 115dB±3dB 0.5W,0.01M AT AVE 0.8K,1.0K,1.2K,1.5K 2V(0dB=20.0 μ Pa/V) MEASUREMENT AS SHOWN IN FIGURE.6 RECEIVER: 126dB±3dB AT 1KHz 100mV IEC318 COUPLER (0dB=20.0 μ Pa/V)
3	FREQUENCY RESPONSE	F0~8KHz.
4	RESONANCE FREQUENCY	650Hz ± 20% AT 2.0V
5	TOTAL HARMONIC DISTORTION (THD)	5% MAX AT 2000Hz
6	RATED INPUT POWER	NOMINAL 0.5W MAXIMUM 0.8W

6. ELECTRIC-ACOUTICAL CHARACTERISTICS FOR RECEIVER UNIT

7	MAGNET GRADE:	4000 GAUSS±10%
8	OPERATION	MUST BE NORMAL AT A PROGRAM SOURCE 0.5W
9	POLARITY	WHEN A POSITIVE D.C VOLTAGE IS APPLIDE TO THE (+) TERMINAL,THE DIAPHRAGM SHOULD MOVE TO THE FRONT
10	BUZZ&RATTLE	DYNAMIC SPEAKER MUST BE FREE AUDIBLE NISE AT 2.0V,SINE WAVE BETWEEN 300Hz AND 3.4KHz FREQUENCY RANGE.
11	FREQUENCY RESPONSE CURVE	SPEAKER: FIGURE.5 AND FIGURE.8 RECEIVER: FIGURE.3

OLE WOLFF
ELEKTRONIK A/S
Roedengvej 25
4180 Soroe
Denmark
TEL: +45 57833830
FAX: +45 57820019

OLE WOLFF
ELECTRONICS INC.
6046 Cornerstone Ct.West
Suite 105
San Diego, CA 92121
USA
TEL: +1 858 45 00 555
FAX: +1 858 45 00 508

OLE WOLFF
ELEKTRONIK
GmbH
Schnackenburgallee 14
D-22525 Hamburg
GERMANY
TEL: +49 (0) 407669070
FAX: +49 (0) 40772929

OLE WOLFF
ELECTRONICS
3 Bedford Street, Woburn,
Bedfordshire MK17 9QB,
ENGLAND
TEL: +44 (0) 1525 290755
FAX: +44 (0) 1525 290855

OLE WOLFF
ELEKTRONIK
Yliopistonkatu 26A,3F
P.O. Box 257
FIN-40101 Jyväskylä
FINLAND
TEL: +358 14 338 3050
FAX: +358 14 338 3059

OLE WOLFF (ASIA)
LTD.
Unit 1-5, 10/F.,
Peninsula Tower,
538 Castle Peak Road,
Lai Chi Kok, Kowloon
HONG KONG
TEL: +852 2424 3274
FAX: +852 2424 2219

OLE WOLFF
ELECTRONICS
(M) SDN. BHD.
7, Persiaran Bukit Kecil 1,
Taman Sri Nibong, 11900
Bayan Lepas, Penang
MALAYSIA
TEL: +604 646 9573
FAX: +604 643 0981

	Date	23-Aug-2019	SPECIFICATION	OLE WOLFF
	Page	3 / 11		www.owolff.com
	CN	P/N: OWDM-1936W-8B		Revision: 01

7. QUALIFICATION TESTS

AFTER TEST	
SPEAKER MODE : SENSITIVITY DIFFERENCE AT 0.8K, 1.0K, 1.2K, 1.5KHz SHALL BE WITHIN ± 3 dB FROM INITIAL VALUE.	
RECEIVER MODE : SENSITIVITY DIFFERENCE AT 1.0KHz SHALL BE WITHIN ± 3 dB FROM INITIAL VALUE.	
LOAD TEST	
INPUT SIGNAL	: WHITE NOISE
INPUT POWER	: 0.5W
DURATION	: 96 HOURS
HIGH TEMPERATUER TEST	
HIGH TEMPERATURE	: $80^{\circ}\pm 2^{\circ}\text{C}$
DUATION	: 96 HOURS
LOW TEMPERATURE TEST	
LOW TEMPERATURE	: $-40^{\circ}\pm 2^{\circ}\text{C}$
DUATION	: 96 HOURS
HUMIDITY TEST	
TEMPERATURE	: $40^{\circ}\pm 2^{\circ}\text{C}$
HUMIDITY	: 90~95%
DUATION	: 96 HOURS
VIBRATION TEST	
VIBRATION	: 10-55Hz/MIN
AMPLITUDE	: 1.5MM
DURATION	: 3 HR IN EACH OF 3 AXES
DROP TEST	
HEIGHT	: 1.2M
DROP FACE	: CONCRETE FLOOR
DURATION	: 6 TIMES
TPERATURE CYCLE TESTEM	
TEMPERATURE	: $-40^{\circ}\pm 2^{\circ}\text{C}(\text{HRM.40\%})\leftrightarrow +80^{\circ}\pm 2^{\circ}\text{C}$
DURATION	: 2 HR 30MIN 2 HR(1CYCLE)
CYCLES	: 10CYCLES

8.INSULATION TESTS

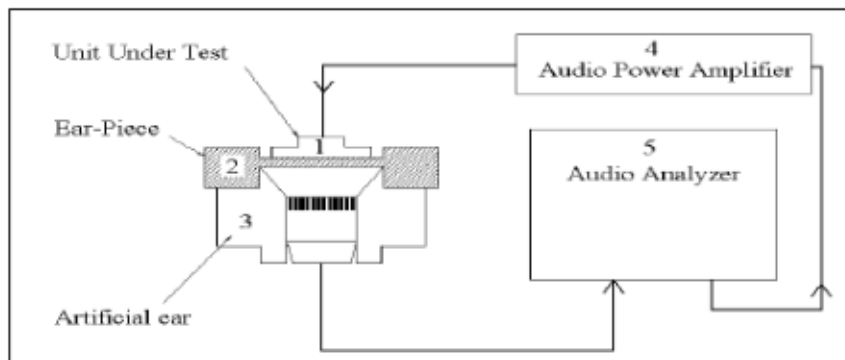
1	WITHSTAND VOLTAGE	AC 100V FOR 1MIN. BETWEEN THE TERMINAL AND THE PLASTIC CASE HOUSING.
2	INSULATION RESISTANCE	1M OHM AT DC 200V BETWEEN THE TERMINAL AND THE PLASTIC CASE HOUSING.

OLE WOLFF ELEKTRONIK A/S Roedengvej 25 4180 Soroe Denmark TEL: +45 57833830 FAX: +45 57820019	OLE WOLFF ELECTRONICS INC. 6046 Cornerstone Ct.West Suite 105 San Diego, CA 92121 USA TEL: +1 858 45 00 555 FAX: +1 858 45 00 508	OLE WOLFF ELEKTRONIK GmbH Schnackenburgallee 14 D-22525 Hamburg GERMANY TEL: +49 (0) 407669070 FAX: +49 (0) 40772929	OLE WOLFF ELECTRONICS 3 Bedford Street, Woburn, Bedfordshire MK17 9QB, ENGLAND TEL: +44 (0) 1525 290755 FAX: +44 (0) 1525 290855	OLE WOLFF ELEKTRONIK Yliopistontkatu 26A,3F P.O. Box 257 FIN-40101 Jyväskylä FINLAND TEL: +358 14 338 3050 FAX: +358 14 338 3059	OLE WOLFF (ASIA) LTD. Unit 1-5, 10/F., Peninsula Tower, 538 Castle Peak Road, Lai Chi Kok, Kowloon HONG KONG TEL: +852 2424 3274 FAX: +852 2424 2219	OLE WOLFF ELECTRONICS (M) SDN. BHD. 7, Persiaran Bukit Kecil 1, Taman Sri Nibong, 11900 Bayan Lepas, Penang MALAYSIA TEL: +604 646 9573 FAX: +604 643 0981
---	--	---	--	---	--	--

	Date	23-Aug-2019	SPECIFICATION	OLE WOLFF
	Page	4 / 11		www.owolff.com
	CN	P/N: OWDM-1936W-8B		Revision: 01

9. MEASUREMENT METHOD FOR RECEIVER UNIT(FIGURE. 1)

MEASUREMENT CIRCUIT OF IEC 318

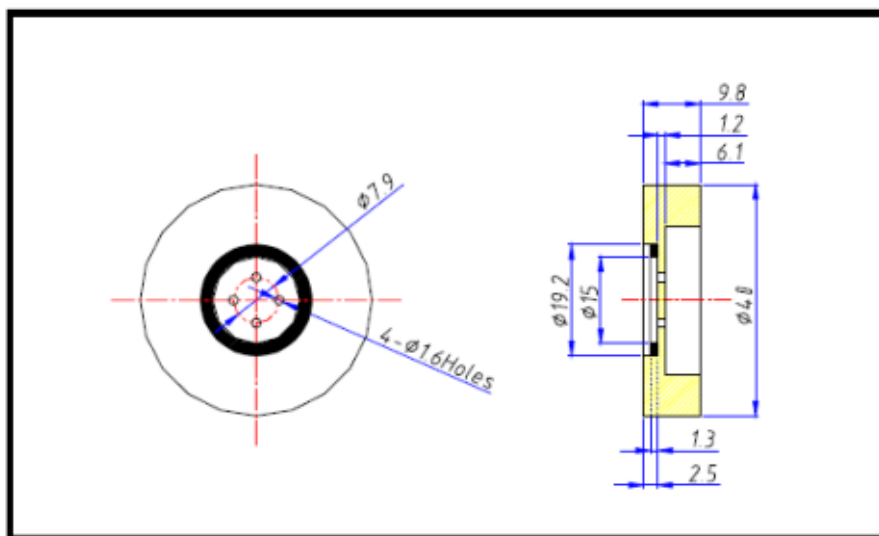


MEASURING EQUIPMENT

NO	EQUIPMENT	REMARKS
1.	UNIT UNDER TEST	RECEIVER
2.	EAR-PIECE (RECOMMENDED)	AS SHOWN IN FIGURE 2
3.	ARTIFICIAL EAR	IEC 318
4.	AUDIO POWER AMPLIFIER	CRATE AUDIO SPA300
5.	AUDIO ANALYZER	LISTEN SOUNCHECK

10. STANADRD EAR PIECE(FIGURE. 2)

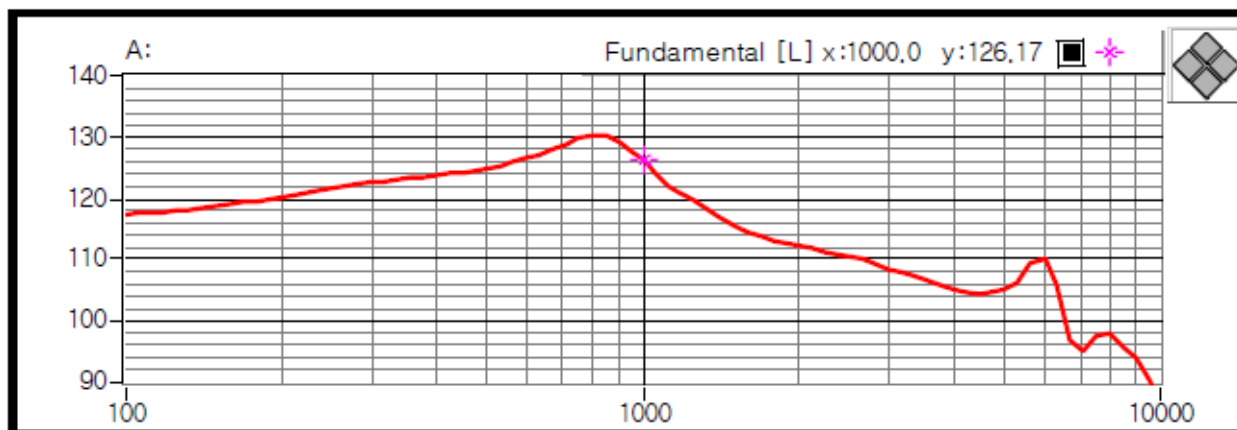
Unit:mm



OLE WOLFF ELEKTRONIK A/S Roedengvej 25 4180 Soroe Denmark TEL: +45 57833830 FAX: +45 57820019	OLE WOLFF ELECTRONICS INC. 6046 Cornerstone Ct.West Suite 105 San Diego, CA 92121 USA TEL: +1 858 45 00 555 FAX: +1 858 45 00 508	OLE WOLFF ELEKTRONIK GmbH Schnackenburgallee 14 D-22525 Hamburg GERMANY TEL: +49 (0) 407669070 FAX: +49 (0) 40772929	OLE WOLFF ELECTRONICS 3 Bedford Street, Woburn, Bedfordshire MK17 9QB, ENGLAND TEL: +44 (0) 1525 290755 FAX: +44 (0) 1525 290855	OLE WOLFF ELEKTRONIK Yliopistontkatu 26A,3F P.O. Box 257 FIN-40101 Jyväskylä FINLAND TEL: +358 14 338 3050 FAX: +358 14 338 3059	OLE WOLFF (ASIA) LTD. Unit 1-5, 10/F., Peninsula Tower, 538 Castle Peak Road, Lai Chi Kok, Kowloon HONG KONG TEL: +852 2424 3274 FAX: +852 2424 2219	OLE WOLFF ELECTRONICS (M) SDN. BHD. 7, Persiaran Bukit Kecil 1, Taman Sri Nibong, 11900 Bayan Lepas, Penang MALAYSIA TEL: +604 646 9573 FAX: +604 643 0981
---	--	---	--	---	--	--

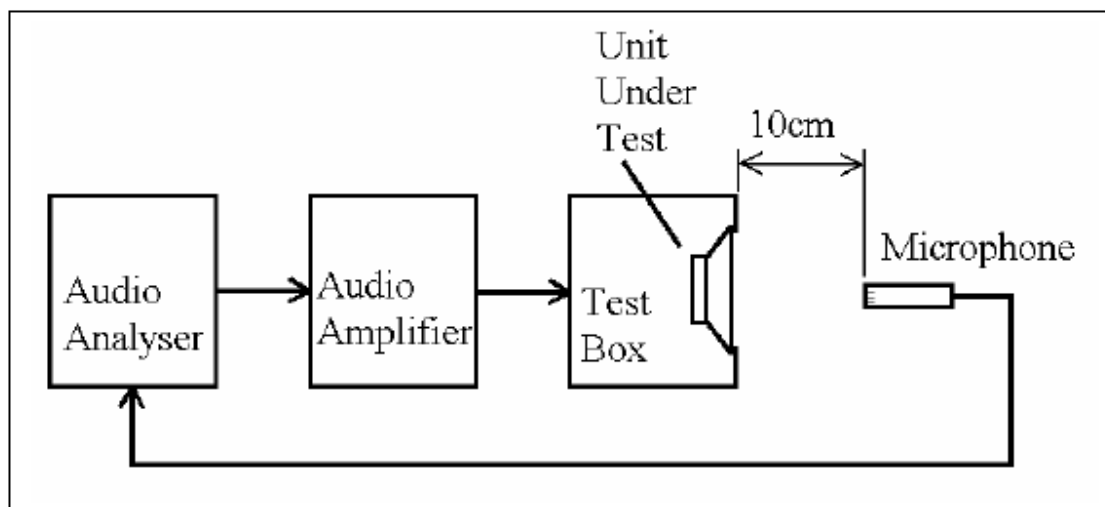
	Date	23-Aug-2019	SPECIFICATION	OLE WOLFF
	Page	5 / 11		www.owolff.com
	CN	P/N: OWDM-1936W-8B		Revision: 01

11. FREQUENCY RESPONSE (FIGURE. 3)



12. MEASUREMENT METHOD FOR DYNAMIC SPEAKER (FIGURE. 4)

MEASUREMENT CIRCUIT FOR DYNAMIC SPEAKER



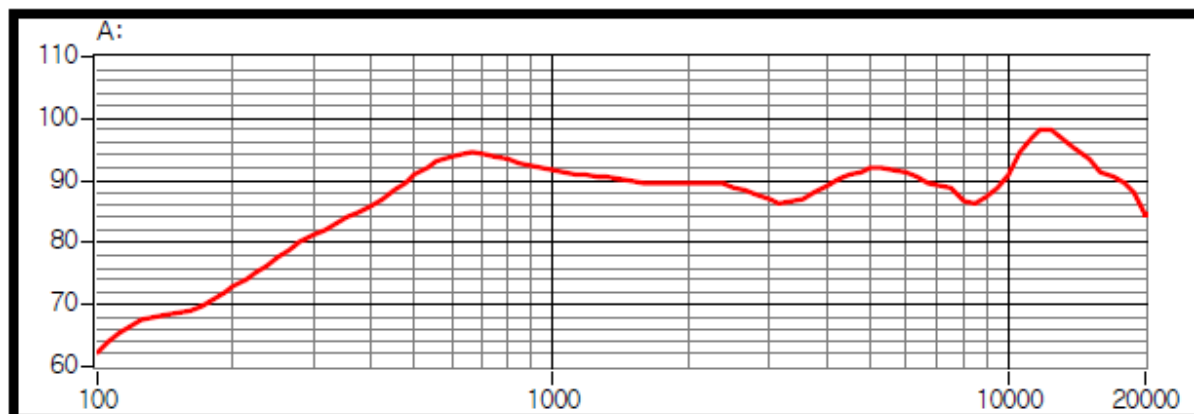
MEASURING EQUIPMENT

NO	EQUIPMENT	REMARKS
1. 0	UNIT UNDER TEST	SPEAKER
2. 0	TEST BOX	10CM× 10CM× 10CM (1000CC) BOX
3. 0	AUDIO POWER AMPLIFIER	CRATE AUDIO SPA300
4. 0	ANALYZER	LISTEN SOUNDCHECK

OLE WOLFF ELEKTRONIK A/S Roedengvej 25 4180 Soroe Denmark TEL: +45 57833830 FAX: +45 57820019	OLE WOLFF ELECTRONICS INC. 6046 Cornerstone Ct.West Suite 105 San Diego, CA 92121 USA TEL: +1 858 45 00 555 FAX: +1 858 45 00 508	OLE WOLFF ELEKTRONIK GmbH Schnackenburgallee 14 D-22525 Hamburg GERMANY TEL: +49 (0) 407669070 FAX: +49 (0) 40772929	OLE WOLFF ELECTRONICS 3 Bedford Street, Woburn, Bedfordshire MK17 9QB, ENGLAND TEL: +44 (0) 1525 290755 FAX: +44 (0) 1525 290855	OLE WOLFF ELEKTRONIK Yliopistontkatu 26A,3F P.O. Box 257 FIN-40101 Jyväskylä FINLAND TEL: +358 14 338 3050 FAX: +358 14 338 3059	OLE WOLFF (ASIA) LTD. Unit 1-5, 10/F., Peninsula Tower, 538 Castle Peak Road, Lai Chi Kok, Kowloon HONG KONG TEL: +852 2424 3274 FAX: +852 2424 2219	OLE WOLFF ELECTRONICS (M) SDN. BHD. 7, Persiaran Bukit Kecil 1, Taman Sri Nibong, 11900 Bayan Lepas, Penang MALAYSIA TEL: +604 646 9573 FAX: +604 643 0981
---	--	---	--	---	--	--

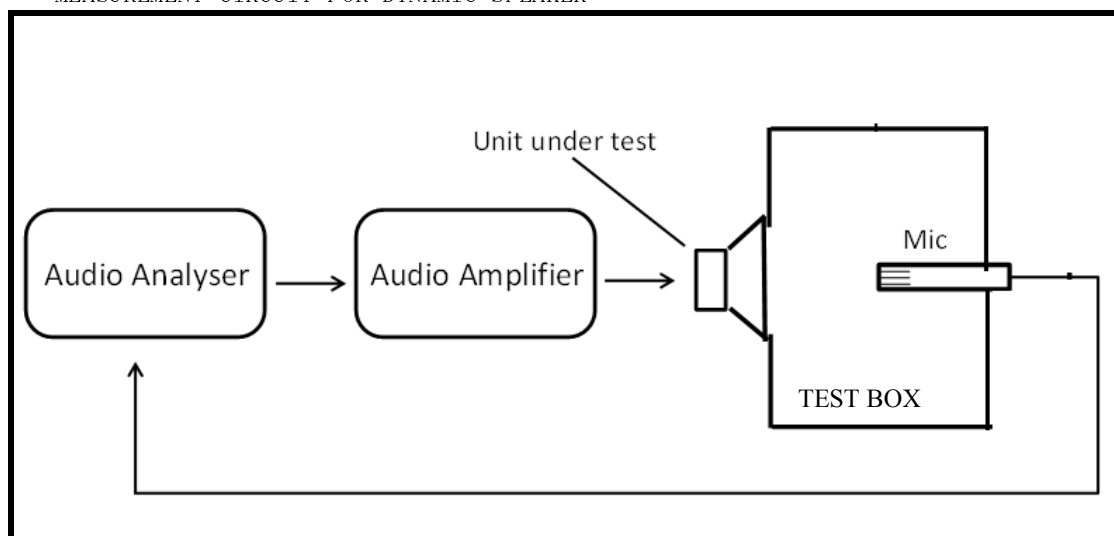
	Date	23-Aug-2019	SPECIFICATION	OLE WOLFF
	Page	6 / 11		www.owolff.com
	CN	P/N: OWDM-1936W-8B		Revision: 01

13. FREQUENCY RESPONSE (FIGURE. 5)



14. MEASUREMENT METHOD FOR DYNAMIC SPEAKER (FIGURE. 6)

MEASUREMENT CIRCUIT FOR DYNAMIC SPEAKER



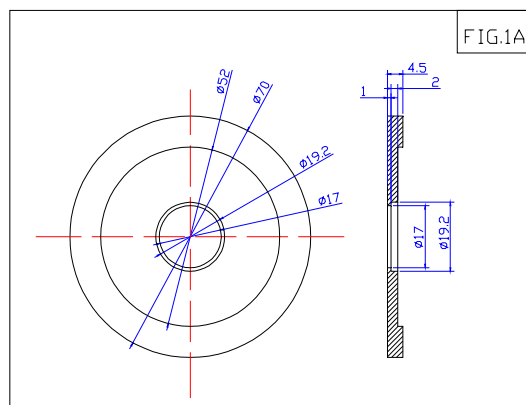
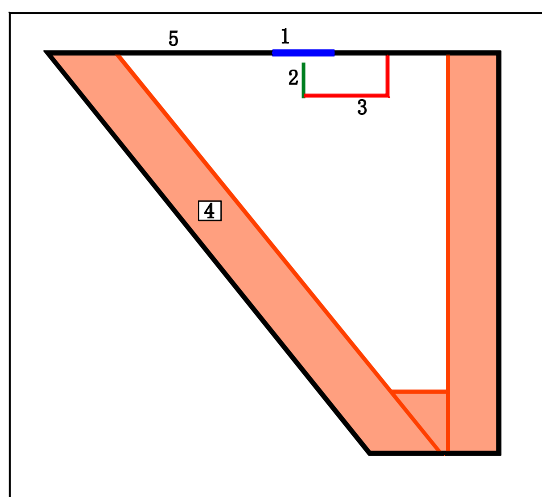
MEASURING EQUIPMENT

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

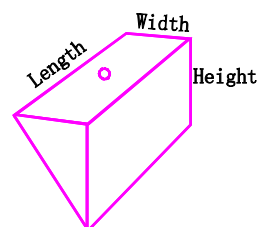
OLE WOLFF ELEKTRONIK A/S Roedengvej 25 4180 Soroe Denmark TEL: +45 57833830 FAX: +45 57820019	OLE WOLFF ELECTRONICS INC. 6046 Cornerstone Ct.West Suite 105 San Diego, CA 92121 USA TEL: +1 858 45 00 555 FAX: +1 858 45 00 508	OLE WOLFF ELEKTRONIK GmbH Schnackenburgallee 14 D-22525 Hamburg GERMANY TEL: +49 (0) 407669070 FAX: +49 (0) 40772929	OLE WOLFF ELECTRONICS 3 Bedford Street, Woburn, Bedfordshire MK17 9QB, ENGLAND TEL: +44 (0) 1525 290755 FAX: +44 (0) 1525 290855	OLE WOLFF ELEKTRONIK Yliopistontkatu 26A,3F P.O. Box 257 FIN-40101 Jyväskylä FINLAND TEL: +358 14 338 3050 FAX: +358 14 338 3059	OLE WOLFF (ASIA) LTD. Unit 1-5, 10/F., Peninsula Tower, 538 Castle Peak Road, Lai Chi Kok, Kowloon HONG KONG TEL: +852 2424 3274 FAX: +852 2424 2219	OLE WOLFF ELECTRONICS (M) SDN. BHD. 7, Persiaran Bukit Kecil 1, Taman Sri Nibong, 11900 Bayan Lepas, Penang MALAYSIA TEL: +604 646 9573 FAX: +604 643 0981
---	--	---	--	---	--	--

	Date	23-Aug-2019	SPECIFICATION	OLE WOLFF
	Page	7 / 11		www.owolff.com
	CN	P/N: OWDM-1936W-8B		Revision: 01

15.TEST BOX: OW-BOX(FIGURE.7)



Dimension of test box
Length:97cm
Width:46cm
Height:68cm
Foam thickness:8cm
Wood wall are 1.8cm thickness.



NO.	EQUIPMENT	REMARKS
1	TEST JIG	FIG. 1A
2	MICROPHONE	1/2 INCH MICROPHONE
3	MICROPHONE HOLDER	
4	DAMPING MATERIAL	FOAM RUBBER
5	BOX	WOOD
6	TEST DISTANCE MEASURED FROM FRONT OF SPEAKER FRAME TO FRONT OF TEST MICROPHONE	10mm

OLE WOLFF
ELEKTRONIK A/S
Roedengvej 25
4180 Soroe
Denmark
TEL: +45 57833830
FAX: +45 57820019

OLE WOLFF
ELECTRONICS INC.
6046 Cornerstone Ct.West
Suite 105
San Diego, CA 92121
USA
TEL: +1 858 45 00 555
FAX: +1 858 45 00 508

OLE WOLFF
ELEKTRONIK
GmbH
Schnackenburgallee 14
D-22525 Hamburg
GERMANY
TEL: +49 (0) 407669070
FAX: +49 (0) 40772929

OLE WOLFF
ELECTRONICS
3 Bedford Street, Woburn,
Bedfordshire MK17 9QB,
ENGLAND
TEL: +44 (0) 1525 290755
FAX: +44 (0) 1525 290855

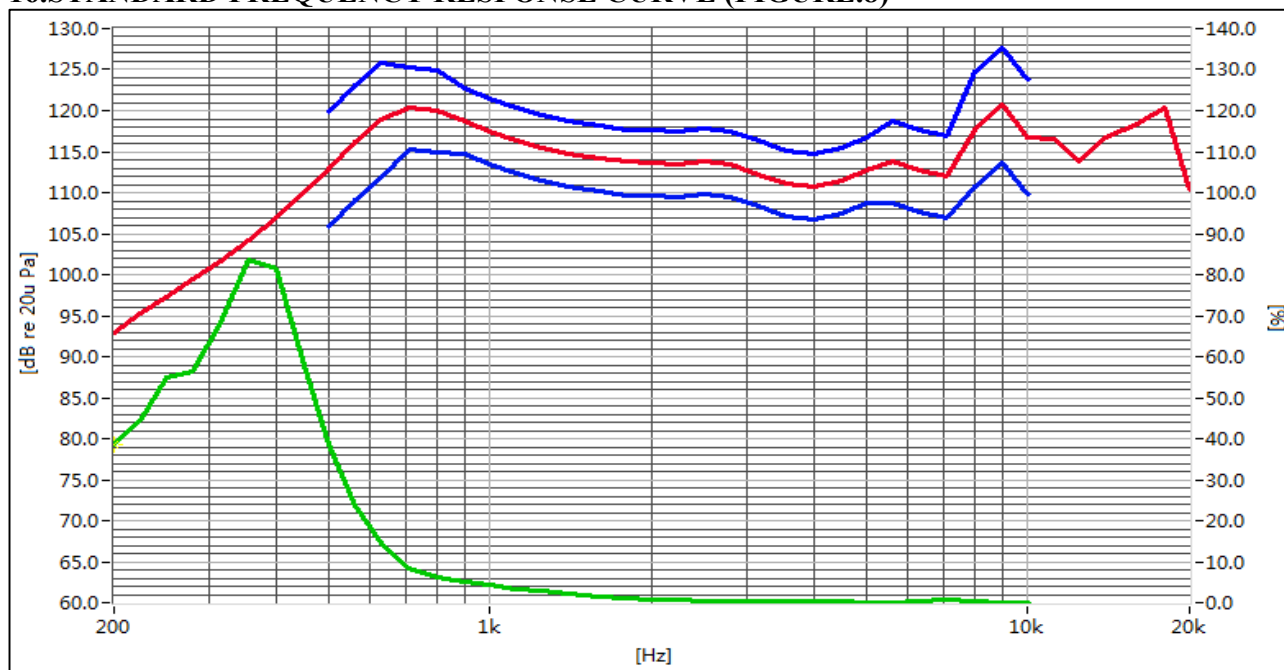
OLE WOLFF
ELEKTRONIK
Yliopistontkatu 26A,3F
P.O. Box 257
FIN-40101 Jyväskylä
FINLAND
TEL: +358 14 338 3050
FAX: +358 14 338 3059

OLE WOLFF (ASIA)
LTD.
Unit 1-5, 10/F.,
Peninsula Tower,
538 Castle Peak Road,
Lai Chi Kok, Kowloon
HONG KONG
TEL: +852 2424 3274
FAX: +852 2424 2219

OLE WOLFF
ELECTRONICS
(M) SDN. BHD.
7, Persiaran Bukit Kecil 1,
Taman Sri Nibong, 11900
Bayan Lepas, Penang
MALAYSIA
TEL: +604 646 9573
FAX: +604 643 0981

	Date	23-Aug-2019	SPECIFICATION	OLE WOLFF
	Page	8 / 11		www.owolff.com
	CN	P/N: OWDM-1936W-8B		Revision: 01

16.STANDARD FREQUENCY RESPONSE CURVE (FIGURE.8)



F&R Mask:

F. Point	500	...	630	...	800	...	5k	...	7.1k	...	10k	Hz
Upper Limit	+7	+7	+7	+5	+5	+4	+5	+6	+7	+7	+7	dB
Lower Limit	-7	-7	-7	-5	-5	-4	-5	-6	-7	-7	-7	dB

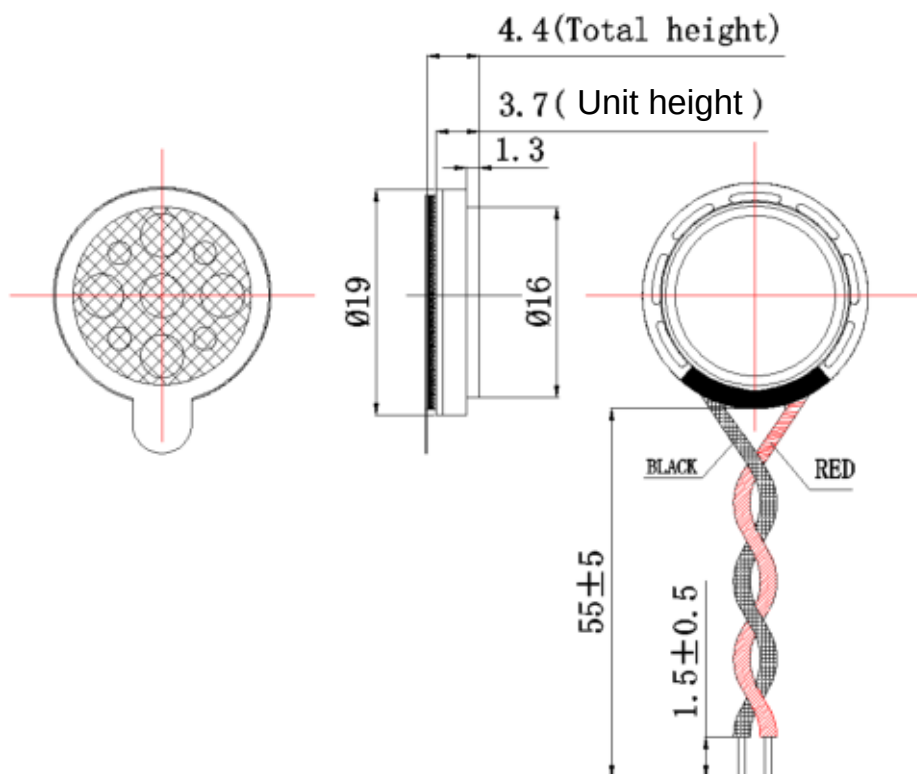
OLE WOLFF ELEKTRONIK A/S Roedengvej 25 4180 Soroe Denmark TEL: +45 57833830 FAX: +45 57820019	OLE WOLFF ELECTRONICS INC. 6046 Cornerstone Ct.West Suite 105 San Diego, CA 92121 USA TEL: +1 858 45 00 555 FAX: +1 858 45 00 508	OLE WOLFF ELEKTRONIK GmbH Schnackenburgallee 14 D-22525 Hamburg GERMANY TEL: +49 (0) 407669070 FAX: +49 (0) 40772929	OLE WOLFF ELECTRONICS 3 Bedford Street, Woburn, Bedfordshire MK17 9QB, ENGLAND TEL: +44 (0) 1525 290755 FAX: +44 (0) 1525 290855	OLE WOLFF ELEKTRONIK Yliopistontkatu 26A,3F P.O. Box 257 FIN-40101 Jyväskylä FINLAND TEL: +358 14 338 3050 FAX: +358 14 338 3059	OLE WOLFF (ASIA) LTD. Unit 1-5, 10/F., Peninsula Tower, 538 Castle Peak Road, Lai Chi Kok, Kowloon HONG KONG TEL: +852 2424 3274 FAX: +852 2424 2219	OLE WOLFF ELECTRONICS (M) SDN. BHD. 7, Persiaran Bukit Kecil 1, Taman Sri Nibong, 11900 Bayan Lepas, Penang MALAYSIA TEL: +604 646 9573 FAX: +604 643 0981
---	--	---	--	---	--	--

	Date	23-Aug-2019	SPECIFICATION	OLE WOLFF
	Page	9 / 11		www.owolff.com
	CN	P/N: OWDM-1936W-8B		Revision: 01

17. DIMENSION(Figure.9)

Unit:mm

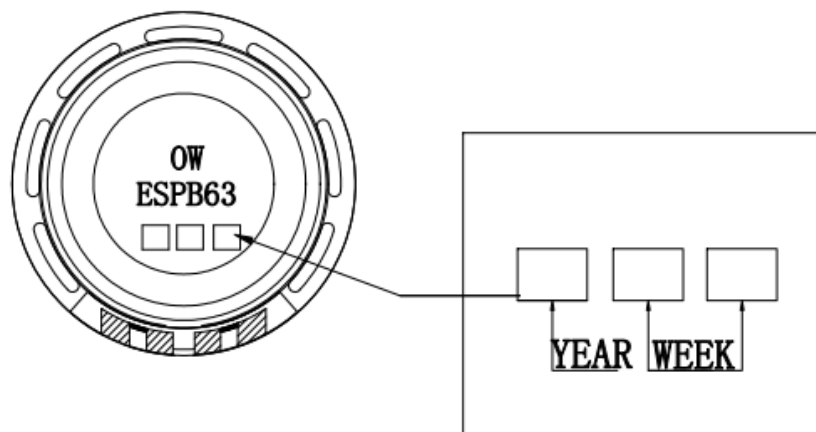
Tolerance:+/-0.2



OLE WOLFF ELEKTRONIK A/S Roedengvej 25 4180 Soroe Denmark TEL: +45 57833830 FAX: +45 57820019	OLE WOLFF ELECTRONICS INC. 6046 Cornerstone Ct.West Suite 105 San Diego, CA 92121 USA TEL: +1 858 45 00 555 FAX: +1 858 45 00 508	OLE WOLFF ELEKTRONIK GmbH Schnackenburgallee 14 D-22525 Hamburg GERMANY TEL: +49 (0) 407669070 FAX: +49 (0) 40772929	OLE WOLFF ELECTRONICS 3 Bedford Street, Woburn, Bedfordshire MK17 9QB, ENGLAND TEL: +44 (0) 1525 290755 FAX: +44 (0) 1525 290855	OLE WOLFF ELEKTRONIK Yliopistontkatu 26A,3F P.O. Box 257 FIN-40101 Jyväskylä FINLAND TEL: +358 14 338 3050 FAX: +358 14 338 3059	OLE WOLFF (ASIA) LTD. Unit 1-5, 10/F., Peninsula Tower, 538 Castle Peak Road, Lai Chi Kok, Kowloon HONG KONG TEL: +852 2424 3274 FAX: +852 2424 2219	OLE WOLFF ELECTRONICS (M) SDN. BHD. 7, Persiaran Bukit Kecil 1, Taman Sri Nibong, 11900 Bayan Lepas, Penang MALAYSIA TEL: +604 646 9573 FAX: +604 643 0981
---	--	---	--	---	--	--

	Date	23-Aug-2019	SPECIFICATION	OLE WOLFF
	Page	10 / 11		www.owolff.com
	CN	P/N: OWDM-1936W-8B		Revision: 01

18.METHOD OF MARKING (FIGURE.10)

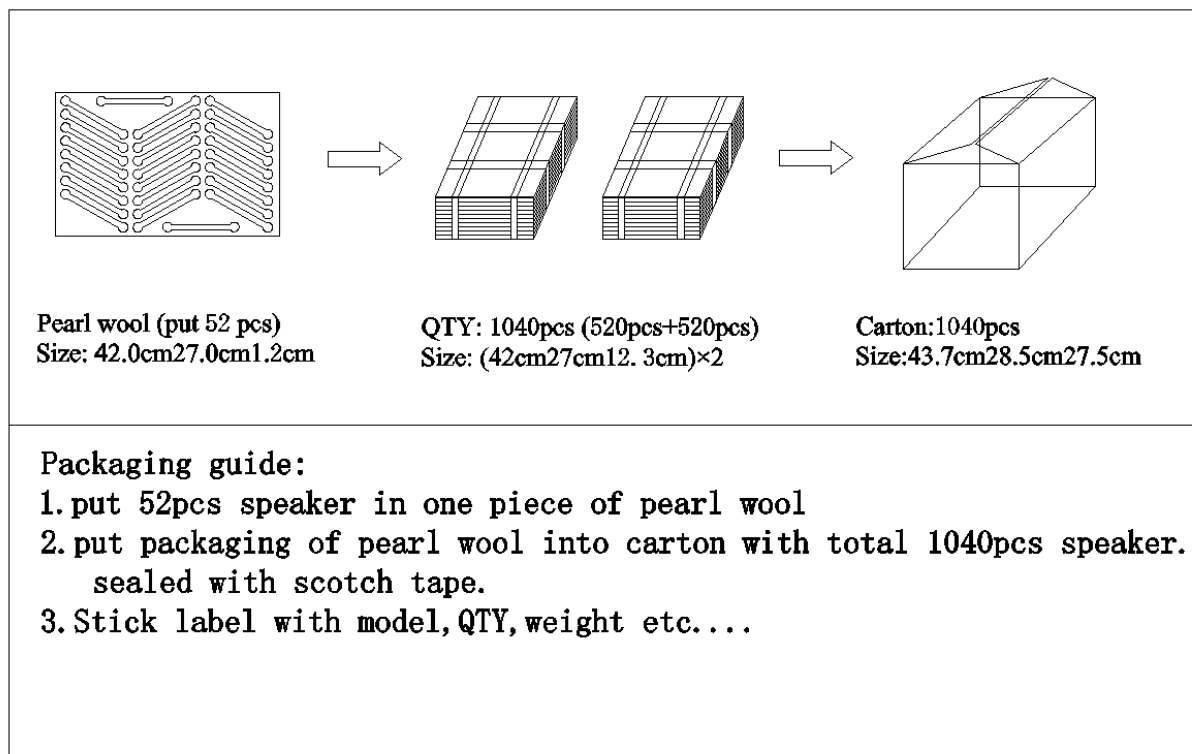


YEAR		WEEK	
year	marking	week	marking
2019	9	1	01
2020	0	2	02
2021	1	3	03
2022	2	4	04
2023	3	5	05
		↓	↓
		51	51
		52	52

OLE WOLFF ELEKTRONIK A/S Roedengvej 25 4180 Soroe Denmark TEL: +45 57833830 FAX: +45 57820019	OLE WOLFF ELECTRONICS INC. 6046 Cornerstone Ct.West Suite 105 San Diego, CA 92121 USA TEL: +1 858 45 00 555 FAX: +1 858 45 00 508	OLE WOLFF ELEKTRONIK GmbH Schnackenburgallee 14 D-22525 Hamburg GERMANY TEL: +49 (0) 407669070 FAX: +49 (0) 40772929	OLE WOLFF ELECTRONICS 3 Bedford Street, Woburn, Bedfordshire MK17 9QB, ENGLAND TEL: +44 (0) 1525 290755 FAX: +44 (0) 1525 290855	OLE WOLFF ELEKTRONIK Yliopistontkatu 26A,3F P.O. Box 257 FIN-40101 Jyväskylä FINLAND TEL: +358 14 338 3050 FAX: +358 14 338 3059	OLE WOLFF (ASIA) LTD. Unit 1-5, 10/F., Peninsula Tower, 538 Castle Peak Road, Lai Chi Kok, Kowloon HONG KONG TEL: +852 2424 3274 FAX: +852 2424 2219	OLE WOLFF ELECTRONICS (M) SDN. BHD. 7, Persiaran Bukit Kecil 1, Taman Sri Nibong, 11900 Bayan Lepas, Penang MALAYSIA TEL: +604 646 9573 FAX: +604 643 0981
---	--	---	--	---	--	--

	Date	23-Aug-2019	SPECIFICATION	OLE WOLFF
	Page	11 / 11		www.owolff.com
	CN	P/N: OWDM-1936W-8B		Revision: 01

19.PACKING METHOD(Figure 11)



OLE WOLFF ELEKTRONIK A/S Roedengvej 25 4180 Soroe Denmark TEL: +45 57833830 FAX: +45 57820019	OLE WOLFF ELECTRONICS INC. 6046 Cornerstone Ct.West Suite 105 San Diego, CA 92121 USA TEL: +1 858 45 00 555 FAX: +1 858 45 00 508	OLE WOLFF ELEKTRONIK GmbH Schnackenburgallee 14 D-22525 Hamburg GERMANY TEL: +49 (0) 407669070 FAX: +49 (0) 40772929	OLE WOLFF ELECTRONICS 3 Bedford Street, Woburn, Bedfordshire MK17 9QB, ENGLAND TEL: +44 (0) 1525 290755 FAX: +44 (0) 1525 290855	OLE WOLFF ELEKTRONIK Yliopistontkatu 26A,3F P.O. Box 257 FIN-40101 Jyväskylä FINLAND TEL: +358 14 338 3050 FAX: +358 14 338 3059	OLE WOLFF (ASIA) LTD. Unit 1-5, 10/F., Peninsula Tower, 538 Castle Peak Road, Lai Chi Kok, Kowloon HONG KONG TEL: +852 2424 3274 FAX: +852 2424 2219	OLE WOLFF ELECTRONICS (M) SDN. BHD. 7, Persiaran Bukit Kecil 1, Taman Sri Nibong, 11900 Bayan Lepas, Penang MALAYSIA TEL: +604 646 9573 FAX: +604 643 0981
---	--	---	--	---	--	--