SPECIFICATION
FOR DYNAMIC SPEAKER & RECEIVER

Customer	
Customer P/N	OWDM-1633W-8C3M
BeStar Model Name	BSR16-11C-08H3.8RW016J LF
Product No.	171500
Issue No.	BS/TESR01.158A
Issue Date	07/04/23

Approval:

Drawn by	Checked by	Approved by	Customer approved
朱成兴	韩学慧	程久生	

For conform to the European Union Directive on the Restriction of Hazardous Substances(RoHS), this type of productions forbid use all the hazardous substances as follow:
Lead
Cadmium
Mercury
Hexavalent chromium
Polybrominated biphenyls (PBB)
Polybrominated diphenyl ethers (PBDE)

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BSR16-11C-08H3.8RW016J LF

1. Characteristics

1.1 Electrical and Mechanical Characteristics

Speaker Mode

1.	Impedance(at 2kHz)	8±15% Ω
2.	Rated Input Power	0.6W
3.	Maximum Input Power	1.0W
4.	Resonance Frequency	710±20%Hz
5.	Frequency Response	F0～20KHz
6.	Output SPL	89±3dB/0.1W 0.1m at0.8,1.0,1.2,1.5KHz Average
7.	Distortion (at 1kHz,0.6W)	≤5%
8.	Buzzes & Rattles	Dynamic speaker must be free audible noise at 2.19Vrms
		sine wave between F0 and 20KHz frequency range
9.	Operating Temperature	-30 ~ +70°C
10.	Storage Temperature	-40 ~ +85°C

Receiver Mode

1.	Sensitivity	117±3dB at 1KHz,100mV(odB=20μPa=0.0002μBar)
		Measured by Artificial Ear IEC-318
2.	Frequency Response	300～3.4KHz
3.	Rated Input Power	30mW
4.	Maximum Input Power	50mW
5.	Buzzes & Rattles	Receiver unit must be free audible noise at 0.49Vrms
		sine wave between 300Hz and 3.4KHz frequency range

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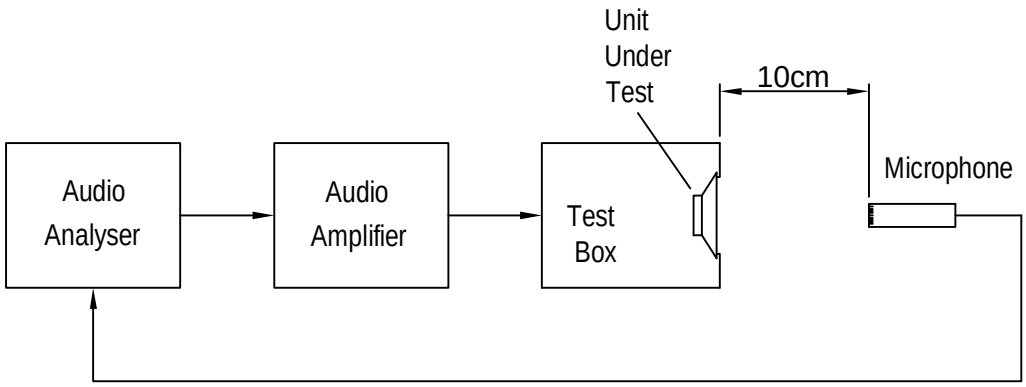
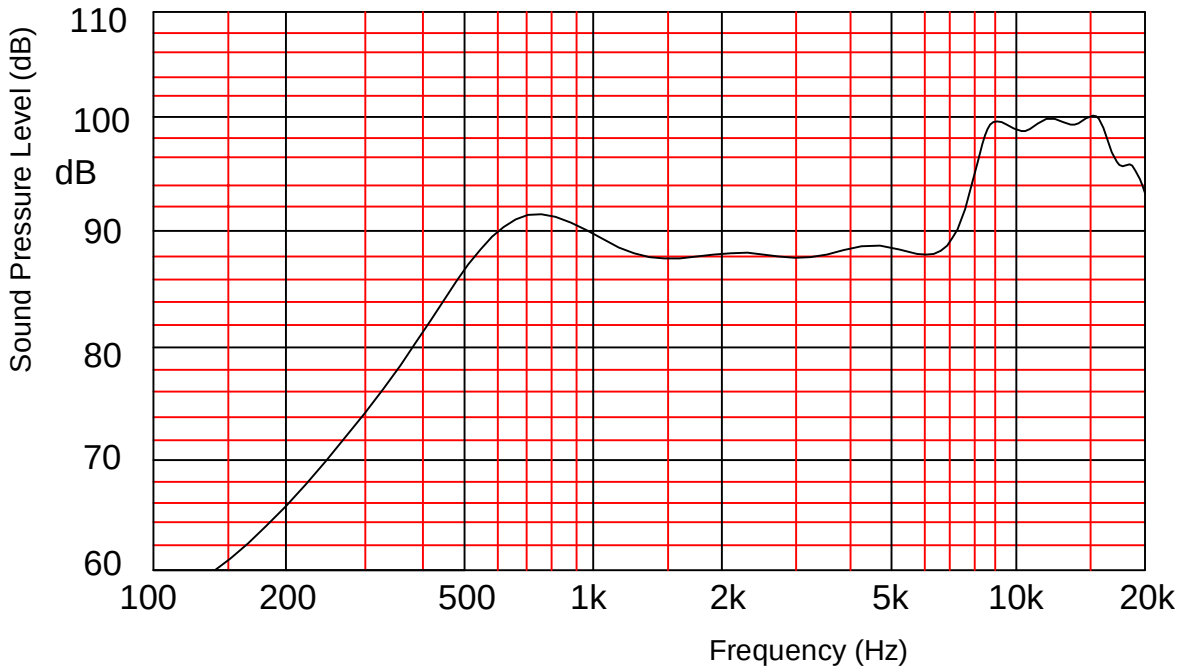
2. Measurement Method For Dynamic Speaker



3. Typical Frequency Response Curve



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A	07/04/23	朱成兴		Checked by:	韩学慧	Speaker
Rev.	Date	Drawn	Note	Approved by:	程久生	
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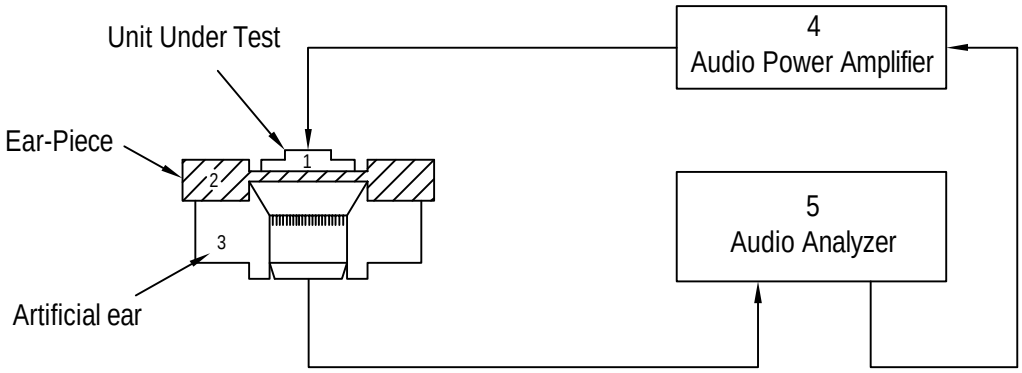
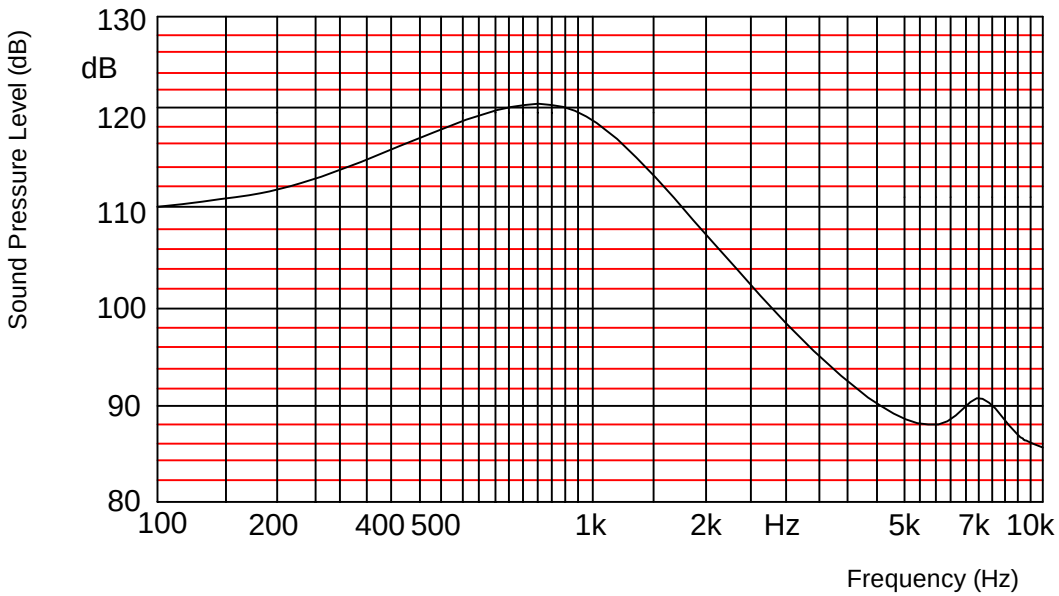
4. Measurement Methos For Receiver



5. Typical Frequency Response Curve



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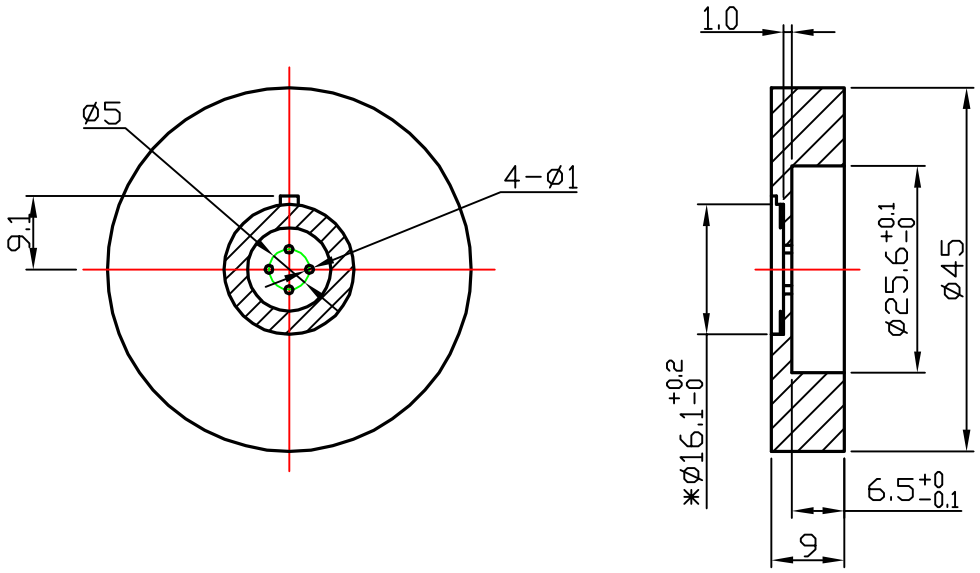
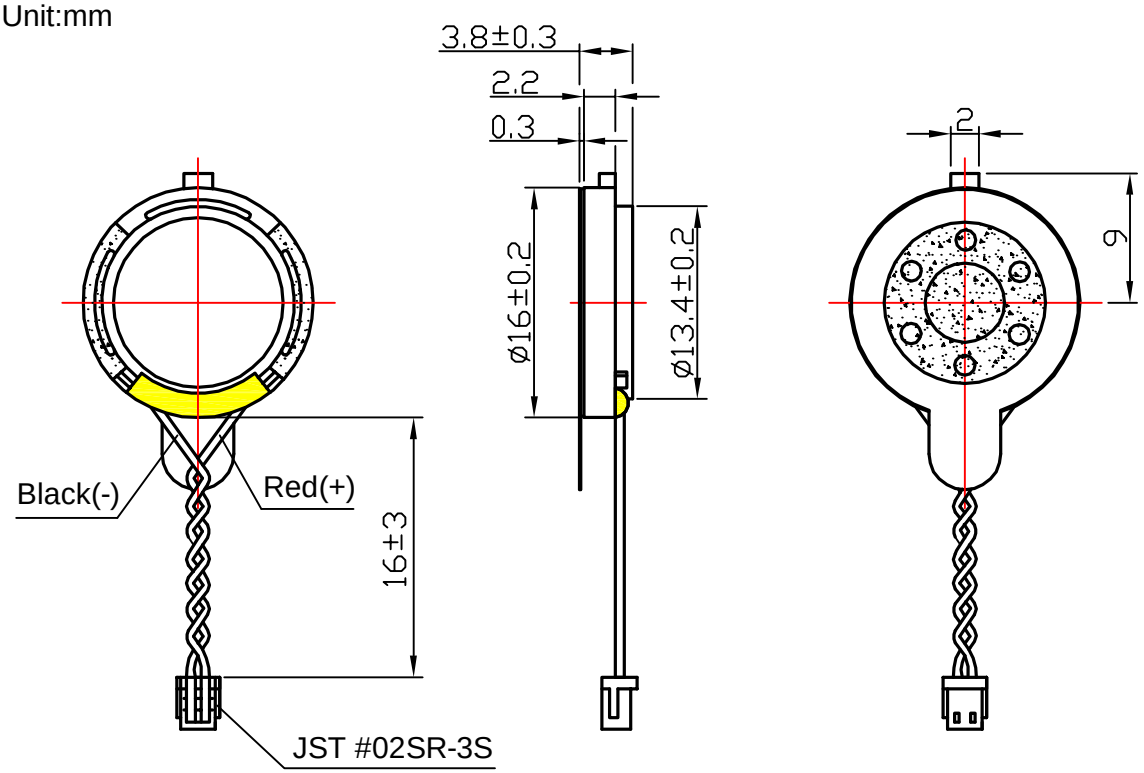
6. Ear Piece



7. Dimension

Tolerance:±0.2
Unit:mm



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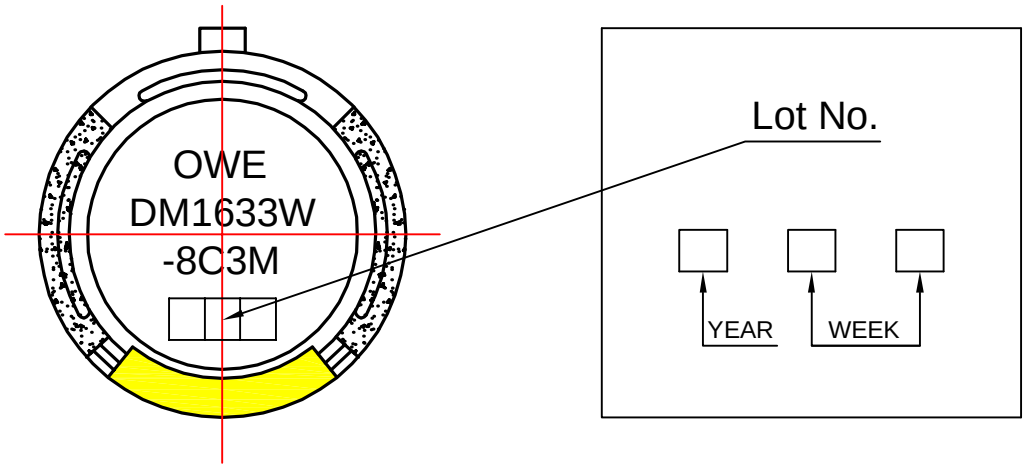
8. Method of Marking



YEAR		WEEK	
year	marking	week	marking
2006	6	1	01
2007	7	2	02
2008	8	3	03
2009	9	4	04
2010	0	⇩	⇩
2011	1		

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9. Reliability Test

9.1 Load Test

Power	0.6W
Duration	96hrs

9.2 High Temperature Test

Temperature	+85±2℃
Duration	96hrs

9.3 Low Temperature Test

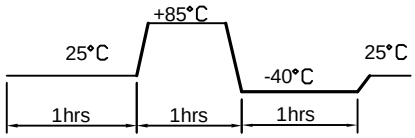
Temperature	-40±3℃
Duration	96hrs

9.4 Damp Heat

Temperature	40±3℃
Relative Humidity	90%-95%RH
Duration	96hrs

9.5 Temperature Cycle Test

Cycle	4



9.6 Drop Test

Height	100cm (in state of packing)
Times	10 (Drop onto hardwood board)

All these tests above should be measured after leaving normal temperature for 1hrs.

sensitivity difference at 1kHz shall be within ±3dB from initial value after test.

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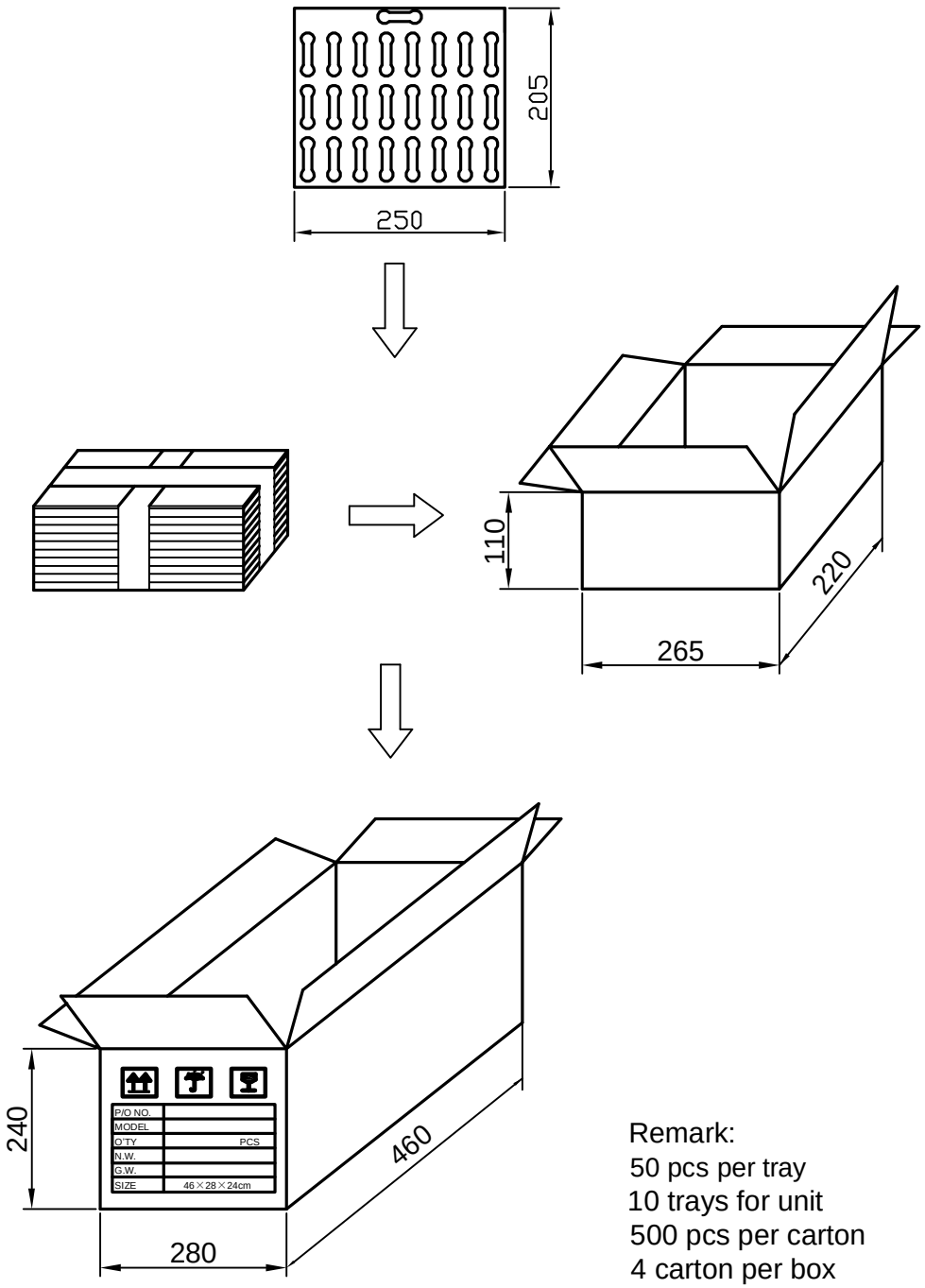
10. Packing



Remark:
50 pcs per tray
10 trays for unit
500 pcs per carton
4 carton per box
Total 2000pcs per box
Size: 46×28×24(cm)

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11. History change record

version No.	Change Items		Date	Drawn	Approved
	Before	After			
A			07/04/23	朱成兴	程久生