

SPECIFICATION FOR DYNAMIC SPEAKER & RECEIVER

Customer	
Customer P/N	
BeStar Model Name	BSR1813-11C-08H05RW025 LF
Product No.	170410
Issue No.	BS/TESR01.107A
Issue Date	06/06/21

Approval:

- 1.Characteristics
- 2.Typical Frequency Response Curve
- 3.Dimension
- 4.Frequency response curve
- 5.Block Diagram
- 6.Reliability Test
- 7.Packing
- 8.History change record

Drawn by	Checked by	Approved by	Customer approved
朱成兴	尹海棠	郭敏	

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)



BESTAR ELECTRONICS INDUSTRY CO.,LTD
 No.199 HuangHe West Road.New district,changzhou,
 jiangsu Province,P.R.China
 Tel:86-519-8222567 Fax:86-519-8222551
 Http:www.be-star.com
 E-mail: wu@be-star.com, info@be-star.com

BSR1813-11C-08H05RW025 LF

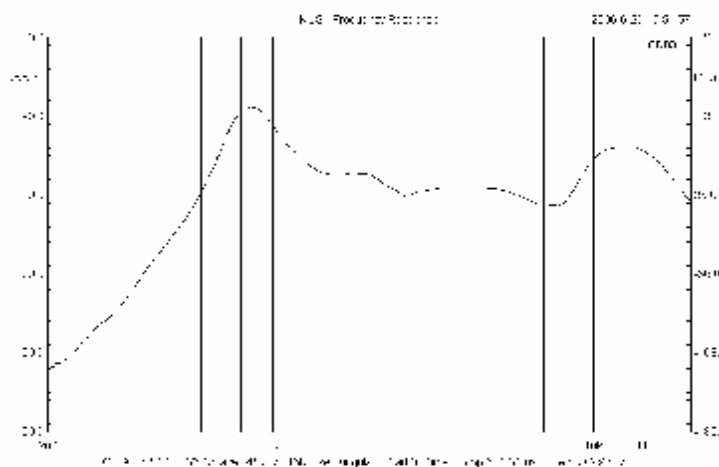


1. Characteristics

1.1 Electrical and Mechanical Characteristics

No.	Item	Specification
1.	Impedance(at 2.0kHz)	$8 \pm 15\% \Omega$
2.	Rated Input Power	0.5W
3.	Maximum Input Power	0.7W
4.	Resonance Frequency	$900 \pm 20\% \text{Hz}$
5.	Frequency Response	F0 ~ 20KHz
6.	Output SPL	$90 \pm 3\text{dB}/0.1\text{M } 0.1\text{W at } 1\text{KHz}$
7.	Sensitivity	$119 \pm 3\text{dB/at } 1\text{KHz } 100\text{mV}(\text{odB}=20\mu\text{Pa}=0.0002\mu\text{Bar})$ Measured by Artificial Ear IEC-318
8.	Frequency Response	300 ~ 3.4KHz
9.	Distortion (at1kHz,0.3W)	$\leq 5\%$
10.	Buzzes & Rattles	Must be normal at sine wave 2.0V
11.	Operating Temperature	$-20 \sim +65^{\circ}\text{C}$
12.	Storage Temperature	$-20 \sim +65^{\circ}\text{C}$

2. Typical Frequency Response Curve



				Date:	06/06/21	BSR1813-11C-08H05RW025 LF
				Drawn by:	朱成兴	
A	06/06/21	朱成兴		Checked by:	尹海棠	speaker & receiver
Rev.	Date	Drawn	Note	Approved by:	郭 敏	

BESTAR ELECTRONICS INDUSTRY CO.,LTD

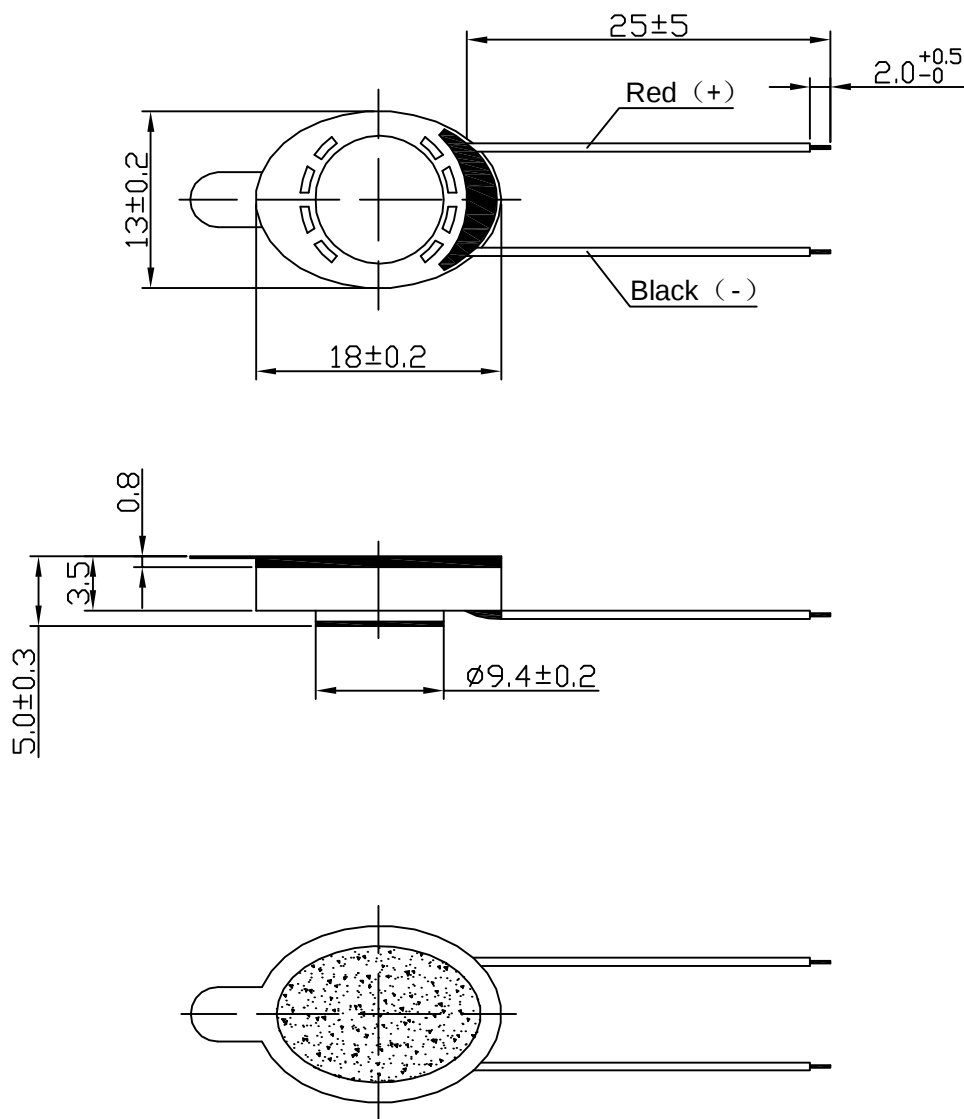
www.be-star.com wu@be-star.com

DRG NO: BS/TESR01.107A

Page:1 of 6

BSR1813-11C-08H05RW025 LF

3. Dimension



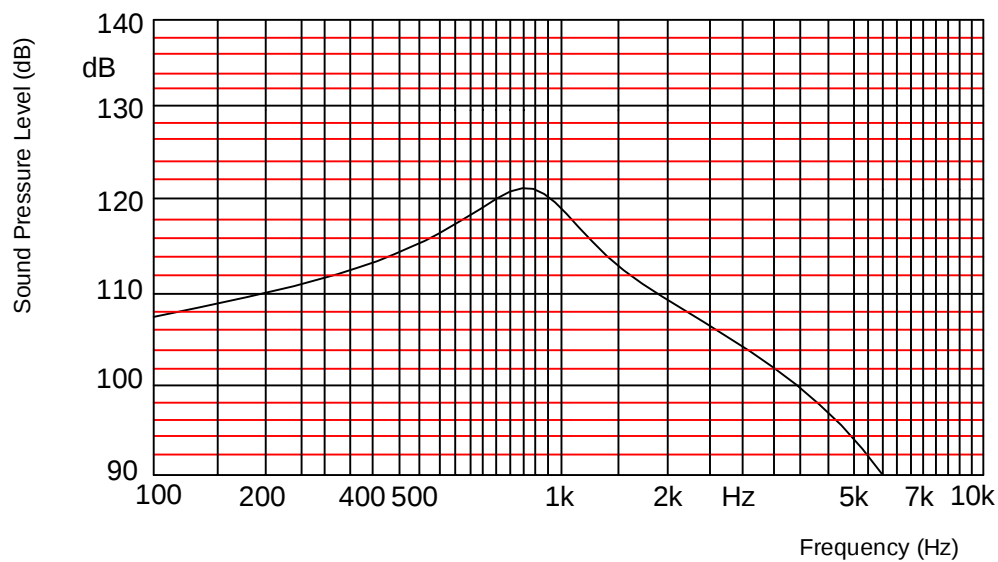
UL1571 AWG32#

Unit:mm

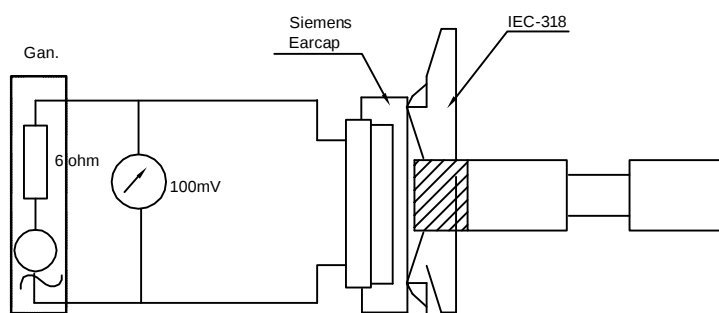
				Date:	06/06/21	BSR1813-11C-08H05RW025 LF
				Drawn by:	朱成兴	
A	A	06/06/21	朱成兴	Checked by:	尹海棠	speaker & receiver
	Rev.	Date	Drawn	Approved by:	郭敏	
BESTAR ELECTRONICS INDUSTRY CO.,LTD						DRG NO: BS/TESR01.107A
www.be-star.com wu@be-star.com						Page:2 of 6

BSR1813-11C-08H05RW025 LF

4. Frequency response curve



5. Block Diagram



				Date:	06/06/21	BSR1813-11C-08H05RW025 LF
				Drawn by:	朱成兴	
A	A	06/06/21	朱成兴	Checked by:	尹海棠	speaker & receiver
Rev.	Date	Drawn	Note	Approved by:	郭 敏	
BESTAR ELECTRONICS INDUSTRY CO.,LTD						DRG NO: BS/TESR01.107A
www.be-star.com wu@be-star.com						Page:3 of 6

BSR1813-11C-08H05RW025 LF

6. Reliability Test

6.1 Load Test

Power 0.5W
Duration 96hrs

6.2 High Temperature Test

Temperature $+65\pm 3^{\circ}\text{C}$
Duration 48hrs

6.3 Low Temperature Test

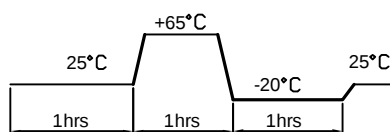
Temperature $-20\pm 3^{\circ}\text{C}$
Duration 96hrs

6.4 Damp Heat

Temperature $40\pm 3^{\circ}\text{C}$
Relative Humidity 90%-95%RH
Duration 96hrs

6.5 Temperature Cycle Test

Cycle 4



6.6 Drop Test

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

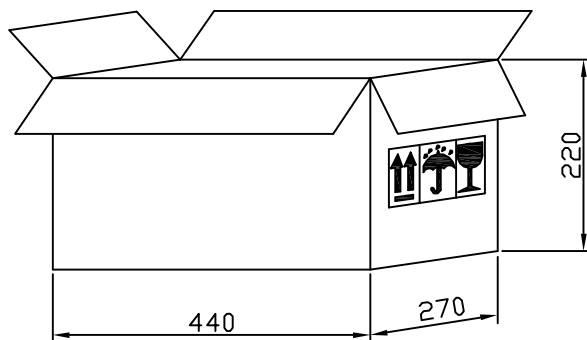
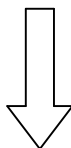
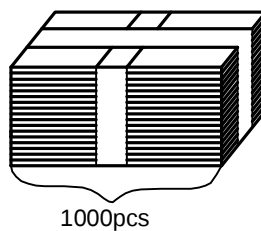
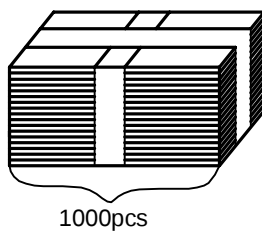
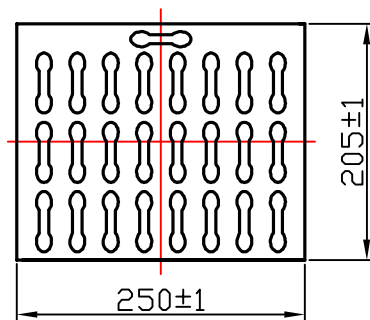
All these tests above should be measured after leaving normal temperature for 1hrs.

sensitivity difference at 1kHz shall be within $\pm 3\text{dB}$ from initial value after test.

A				Date:	06/06/21	BSR1813-11C-08H05RW025 LF
				Drawn by:	朱成兴	
	A	06/06/21	朱成兴	Checked by:	尹海棠	speaker & receiver
	Rev.	Date	Drawn	Approved by:	郭 敏	
BESTAR ELECTRONICS INDUSTRY CO.,LTD						DRG NO: BS/TESR01.107A
www.be-star.com wu@be-star.com						Page:4 of 6

BSR1813-11C-08H05RW025 LF

7. Packing



Remark:
50 pcs per tray
20 trays for unit, 2 units per carton
Total 2000pcs per carton
Size: 44×27×22(cm)

This print and information there in are propriety to Bestar Electronics Industry Co., Ltd. and shall not be used in whole or in part without its written content

				Date:	06/06/21	BSR1813-11C-08H05RW025 LF	
				Drawn by:	朱成兴		
A	06/06/21	朱成兴		Checked by:	尹海棠	speaker & receiver	
Rev.	Date	Drawn	Note	Approved by:	郭 敏		
BESTAR ELECTRONICS INDUSTRY CO.,LTD						DRG NO: BS/TESR01.107A	Page:5 of 6
www.be-star.com wu@be-star.com							
6	5	4	3	2	1		

8. History change record

[illegible]

				Date:	06/06/21	BSR1813-11C-08H05RW025 LF	
				Drawn by:	朱成兴		
A	06/06/21	朱成兴		Checked by:	尹海棠	speaker & receiver	
Rev.	Date	Drawn	Note	Approved by:	郭 敏		
BESTAR ELECTRONICS INDUSTRY CO.,LTD www.be-star.com wu@be-star.com						DRG NO: BS/TESR01.107A	Page:6 of 6