

	APPROVAL SHEET FOR SMARTPHONE box		
	TOTAL PAGE	12	www.bestargroups.com
			RoHS

Customer		Model Name	BBS139-08H10.8-R-L105
Customer P/N	bocinas	Product No.	Necksound
Date	09 JAN.2019	Issue No.	BS/TES01.****SZ2
Page	01 of 12	Issue Date	2019/01/09

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Drawn by	Checked by	Approved by	Customer approved
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BBS139-08H10.8-R-L105

1. Test Climatic Condition

1.1 Ambient Temperature :15°C~35°C, Preferably at 20°C

1.2 Relative Humidity:25% to 75%

1.3 Air Pressure:86kPa~106kPa

No.	Item	Specification
1.	Dimension	38*16.37*10.73(mm)
2.	AC Impedance	8 Ω ±15%(at 2KHz/1Vrms)
3.	Rated Input Power	0.7W(in 1.0cc box) 2.37Vrms
4.	Maximum Input Power	1.0W(2.83Vrms in 1.0cc box)
5.	Resonance Frequency	850Hz ±20% (in 1.0cc box)
6.	Frequency Response	F0~20KHz
7.	S.P.L	89±3dB/0.1m/0.7W at 2KHz (in 1.0cc box)
8.	THD	≤10% at 1.0-10KHz(0.1m/0.7W/ in 1.0cc box)
9.	Buzzes & Rattles	Must be normal at sine wave 0.89Vrms
		2.37Vrms (in 1.0cc box) from 200~3400Hz
10.	Polarity	Positive voltage to (+),Diaphragm moves forward
11.	Operating Temperature	-20~+ 70°C
12.	Storage Temperature	-20~+ 70°C`
13.	Weight	~1.5g±0.3g
14.	Waterproof requirements	IP67

2. Description

2.1 Acoustic component Performance Specification

2.2 The present document specifies performance requirements for the acoustic characteristics of box

3. Characteristics

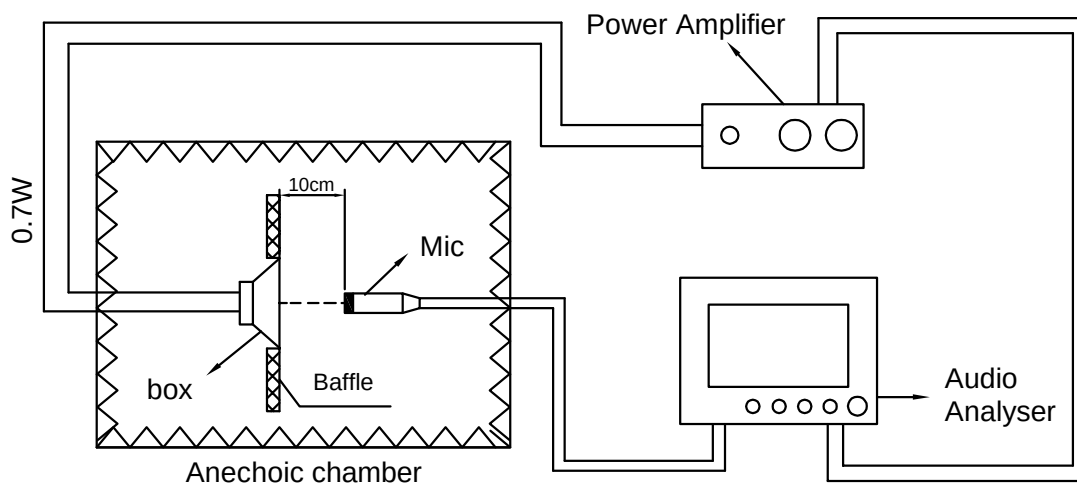
3.1 Electrical and Mechanical Characteristics

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4. Test Setup

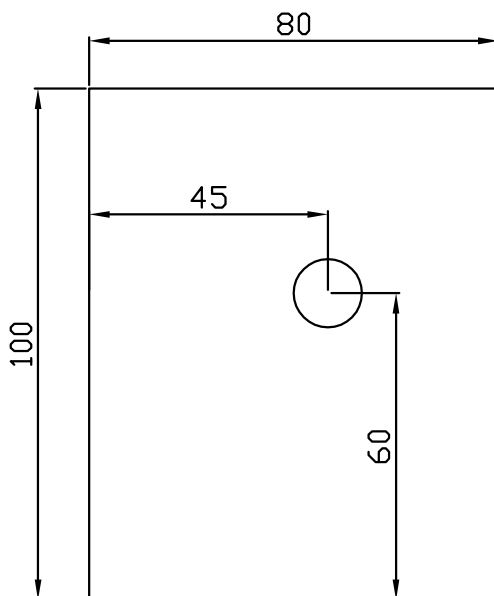
4.1 box Measurement Circuit



4.2 Baffle Drawing

unit:cm

tolerance:±2



4.3 Test Method

The box shall be mounted in a baffle of the dimensions 80X100cm show figure 4.2,

The measuring free-field microphone shall be placed 10cm from DUT, on axis.

The test voltage is 0.9W and swept sine-wave range is 100Hz~20KHz with a R80 of test sequence

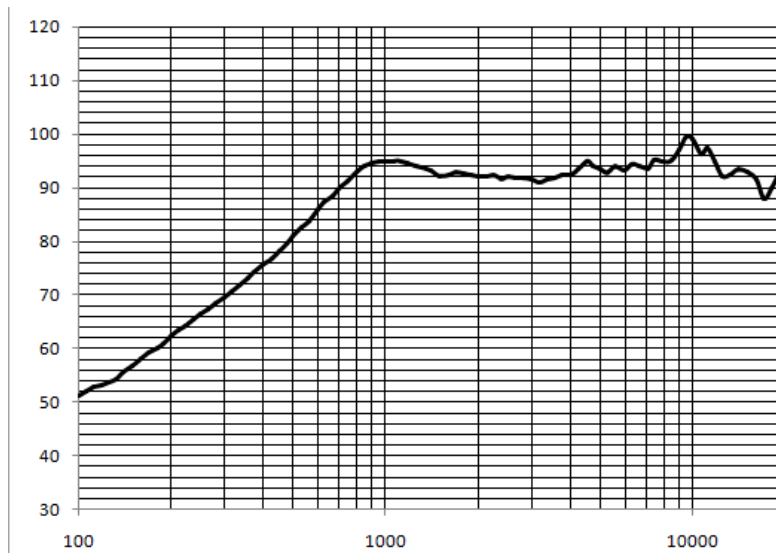
				Date:	2019/01/09	BBS139-08H10.8-R-L105
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4.4 Frequency Response Curve (only for reference)

A: Frequency Response Magn 0 dB re 20.00 μ Pa/V 1/12Oct

Sound Pressure Level (dB)



Frequency (Hz)

SPL upper and lower limits

	500	700	800	1000	1320	2000	3000	4000	5000	6000
Upper	+4	+4	+4	+3	+3	+3	+4	+4	+4	+4
Lower	-4	-4	-4	-3	-3	-3	-4	-4	-4	-4

4.4.1 Sensitivity

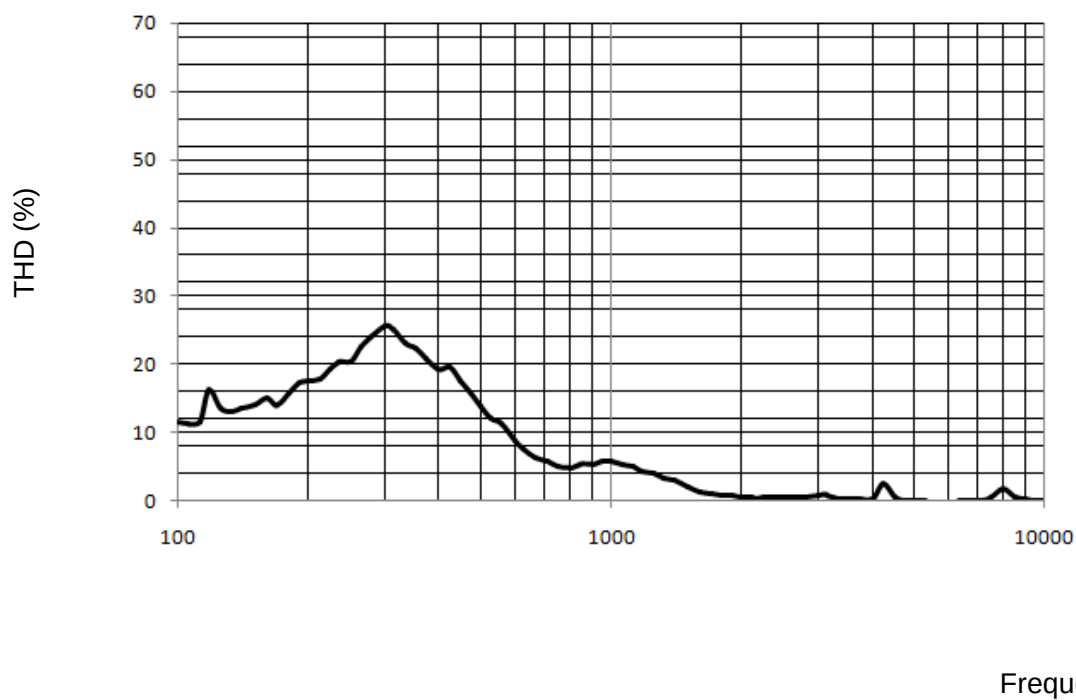
SPL is expressed in dB rel 20 μ Pa, computed according to IEC 268-5.
Measurement set up according chapter 4.1 and parameters according chapter 4.4.

This test is performed on the production line by 100%.

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4.5 Total Harmonic Distortion (only for reference)

A: Frequency Response Magn 0 dB re 20.00 μ Pa/V 1/12Oct

4.5.1 THD

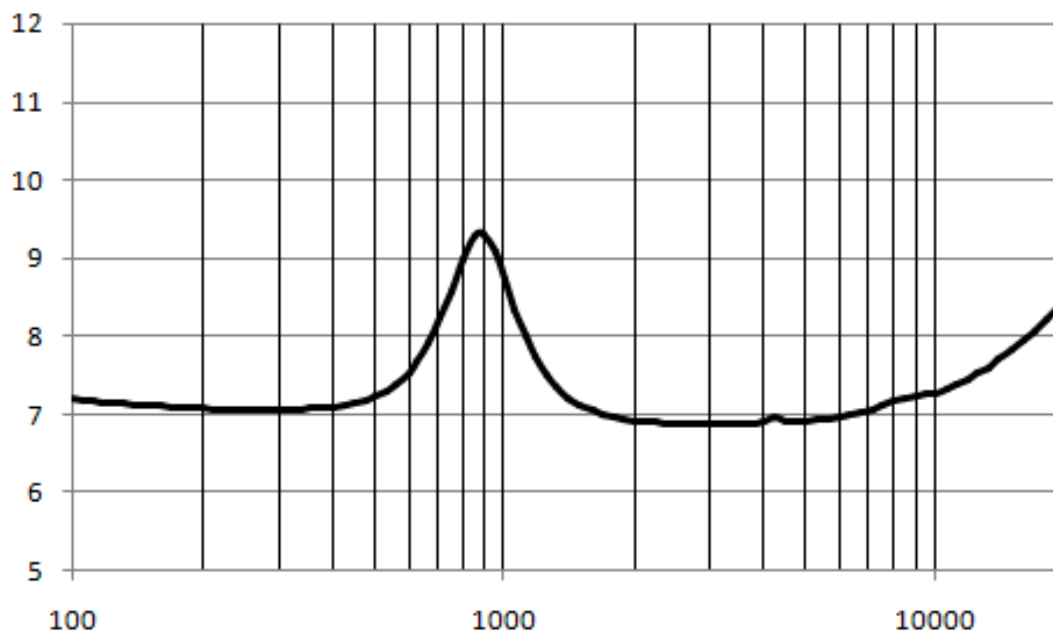
THD is measured according test set up in chapter 4.1 and parameters according chapter 4.5

This test is performed on the production line by 100%.

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4.6 F0 Curve (only for reference)

A: Frequency Response Magn 0 dB re 20.00 μ Pa/V 1/12Oct

Frequency (Hz)

4.6.1 Resonance Frequency

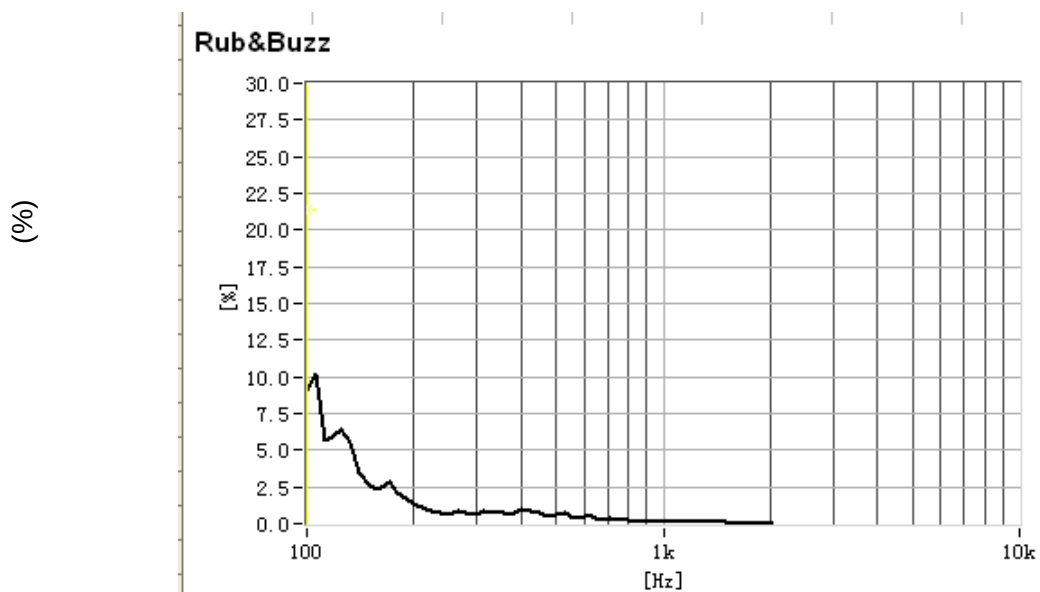
Resonance frequency is measured according test set up in chapter 4.1
and parameters according chapter 4.6

This test is performed on the production line by 100%.

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4.7 R&B Curve (only for reference)

A: Frequency Response Magn 0 dB re 20.00 μ Pa/V 1/12Oct

4.7.1 R&B

Frequency (Hz)

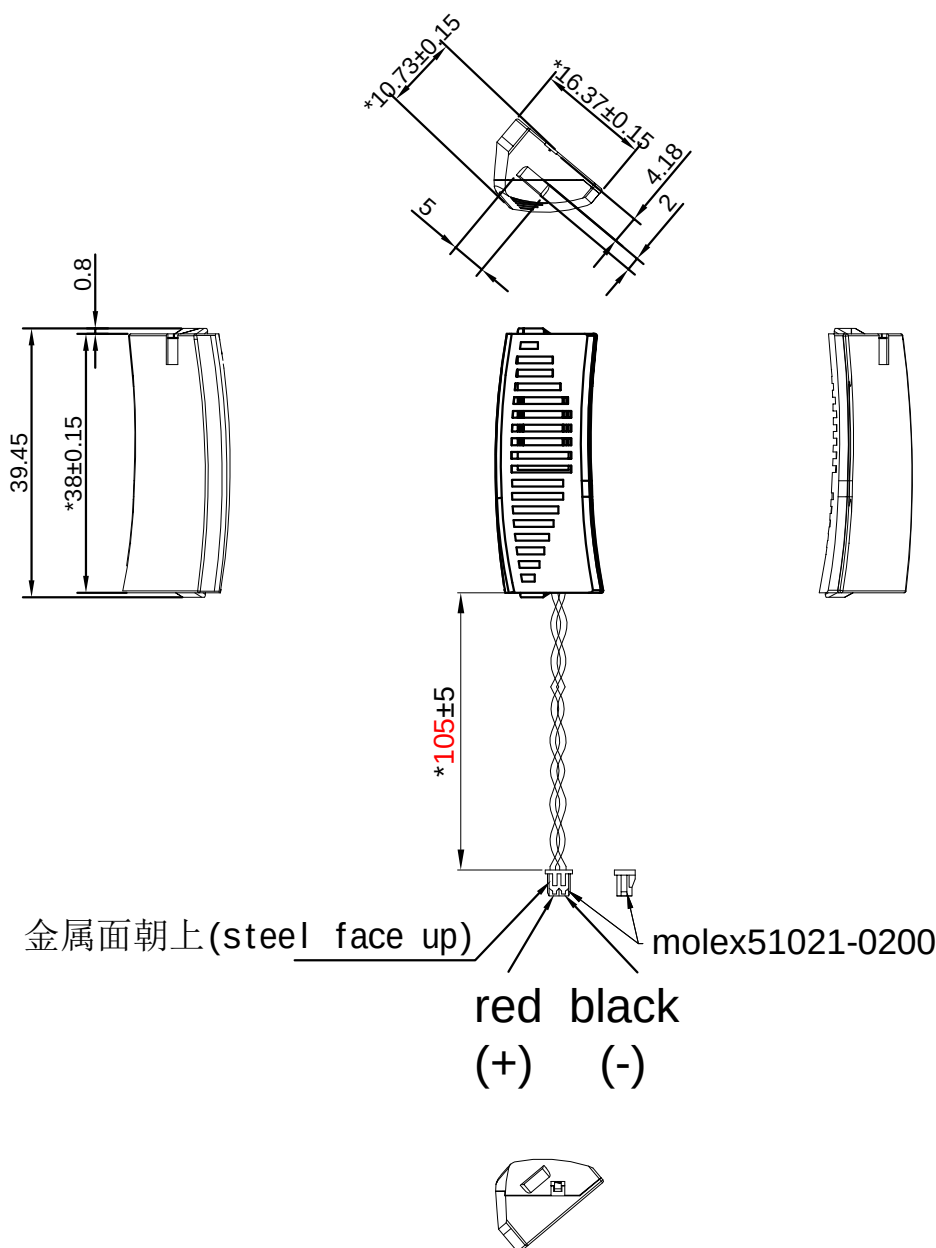
R&B is measured according test set up in chapter 4.1 and parameters according chapter 4.7

This test is performed on the production line by 100%.

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5. Drawing

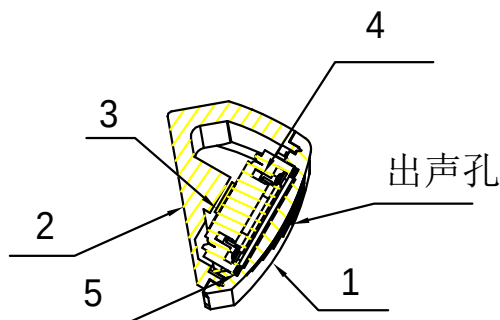


插头线的, 间距1.25的, 红黑绞线
Plug wire, spacing 1.25,
red and black strands

unit:mm
tolerance:±0.2

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No	Description of the part	Material
1	Top Cover	ABS757
2	Bottom Cover	ABS757
3	sponge	SPONGE
4	Drive	BeStar Assemble
5	waterproof net+sponge	waterproof net+sponge

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box

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6. Reliability Test

6.1 Load Test

Power (Nom)

0.7W(with pink noise in 1.0cc box)

Duration

96hrs

6.2 High Temperature Test

Temperature

 $+70\pm 3^{\circ}\text{C}$

Duration

96hrs

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

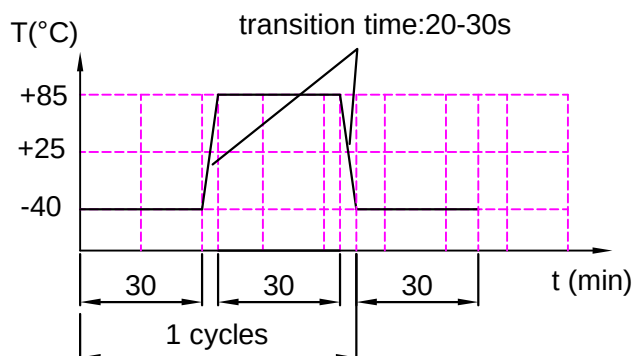
Duration

96hrs

6.5 Temperature Cycle Test

Cycles

10



6.6 Drop Test

Height

1.0m

Drop face

thick ness wooden board (20mm)

Times

10

(three times in each direction)

7.7 Waterproof Test

IP67

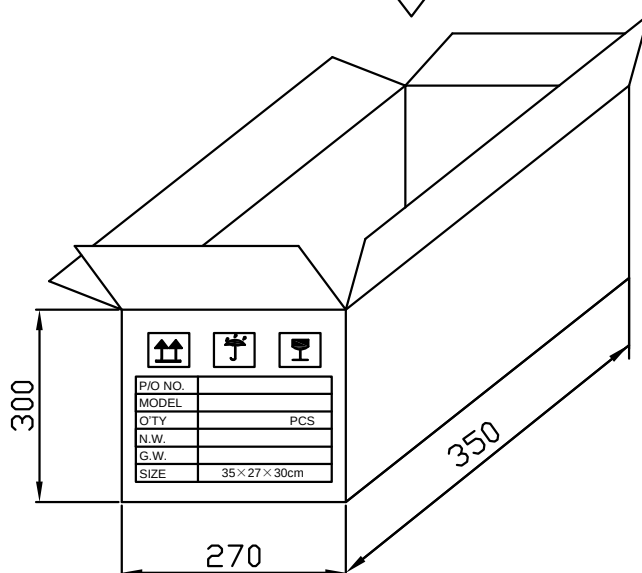
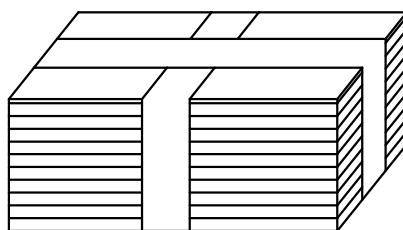
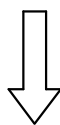
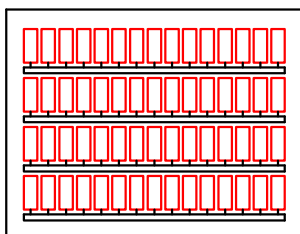
Notice:

- 1.Immediately after reliability test,the samples shall be stored under climatic conditions such as normally exist in ordinary rooms or laboratories.Unless otherwise noted,the recovery period shall be 4hrs at least before performance testing.
2. After reliability test ,all samples must be meet the requirements specified
- 3.Sensitivity difference at 2~5KHz shall be within $\pm 3\text{dB}$ from initial value after test.

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7. Packing



Remark:
60 pcs per carton
15 carton per box
Total 60x15=900pcs per box
Size: 35×27×30(cm)

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8. History Change Record

[illegible]

文件号: BS/QDTE045B