



# SPECIFICATION FOR AUTOMOTIVE SPEAKER

TOTAL PAGE	08	<a href="http://www.bestargroups.com">www.bestargroups.com</a>	RoHS
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Customer		Model Name	BMS36-11-50H5.0W80JST LF
Customer P/N		Product No.	132330
Date	31 Jul.13	Issue No.	BS/TES01.1130B
Page	01 of 08	Issue Date	2013.07.31

## Approval:

- 1.Characteristic
- 2.Dimension
- 3.Reliability Test
- 4.Packing
- 5.History change record

Drawn by	Checked by	Approved by	Customer approved

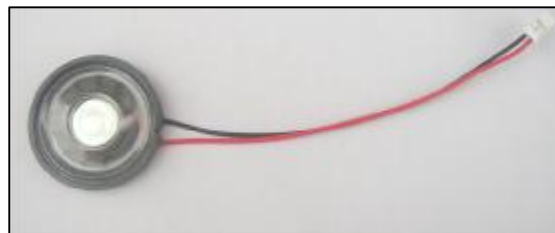
## **BESTAR ACOUSTICS CO.,LTD**

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# BMS36-11-50H5.0W80JST LF

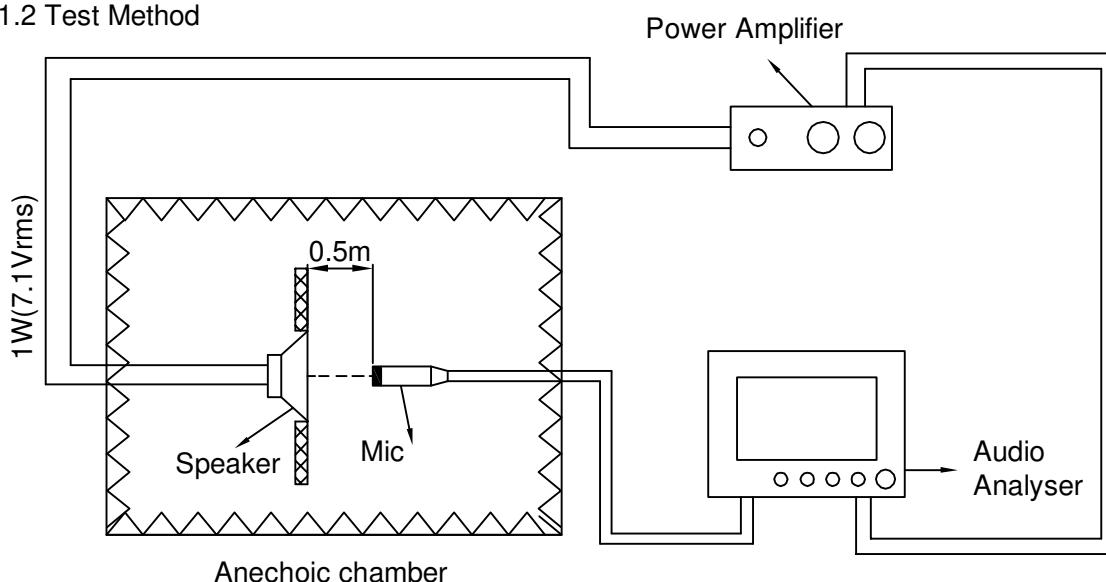


## 1. Characteristic

### 1.1 Electrical and Mechanical Characteristics

No.	Item	Specification
1.	Rated Input Power	0.5W
2.	Maximum Input Power	1W
3.	Resonance Frequency	600 ± 150 Hz
4.	Frequency Response	f0...5000Hz
5.	Deviation	Max.20dB
6.	Magnet	NdFeB Ø 12.5X1.5mm
7.	Impedance(at 1kHz)	50 ohm ± 15%
8.	Output SPL(at 0.5m /1W)	87 ± 3dB(at 1KHz)
9.	Buzzes & Rattles	Must be normal at sine wave 5V
10.	Operating Temperature	-40...+85 °C
11.	Storage Temperature	-40...+85 °C

### 1.2 Test Method

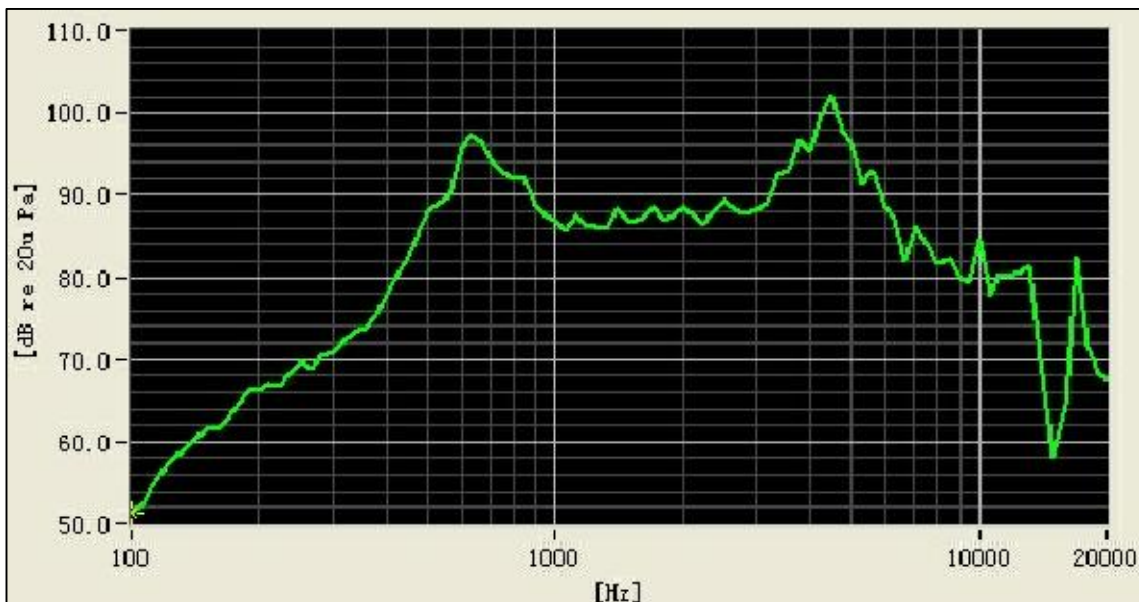


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B	2013.07.31	胡兆俊		Drawn by:	胡兆俊	
A	2012.07.04	莫丽丽		Checked by:	莫丽丽	Speaker
Rev.	Date	Drawn	Note	Approved by:	王平	
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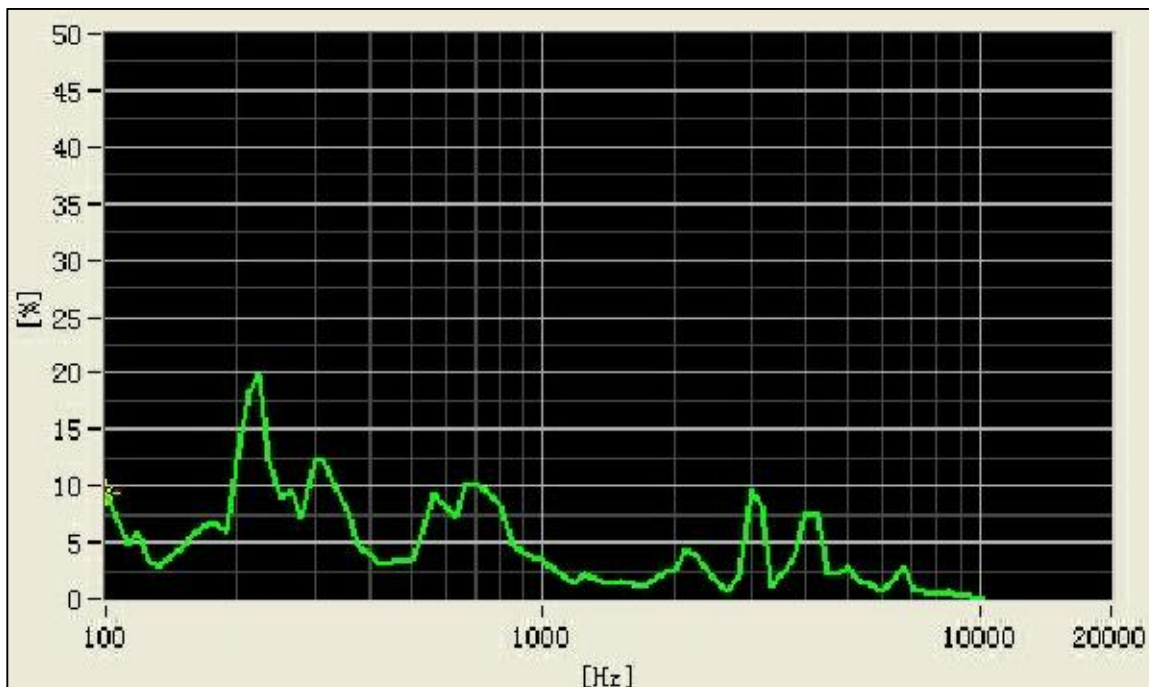
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# BMS36-11-50H5.0W80JST LF

1.3 Fundamental (only for reference),using sine wave 1W,0.5m test



1.4 THD(only for reference)

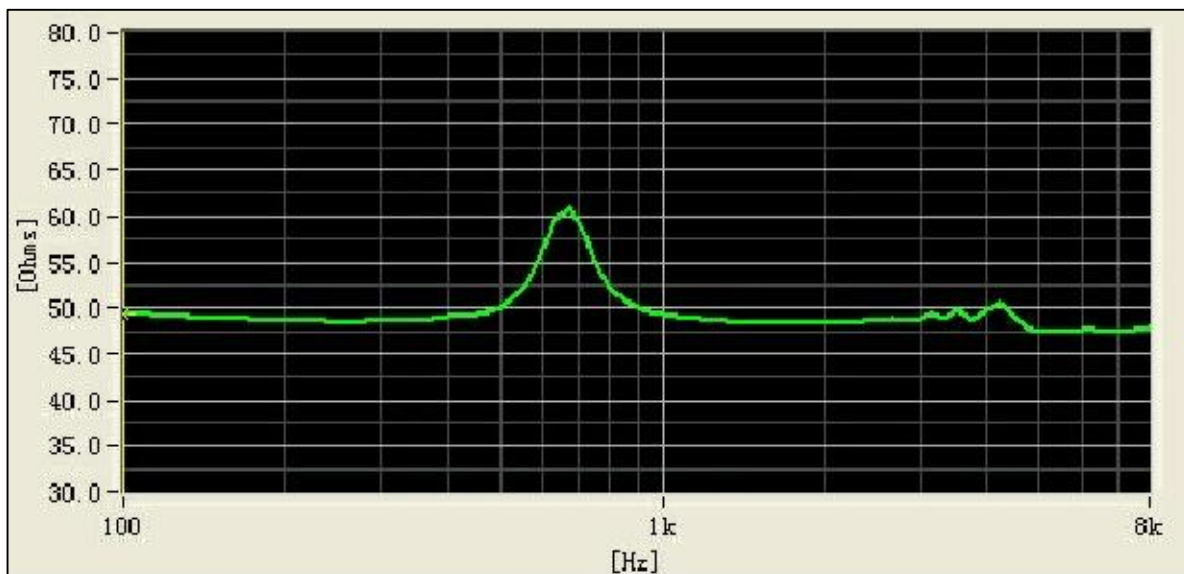


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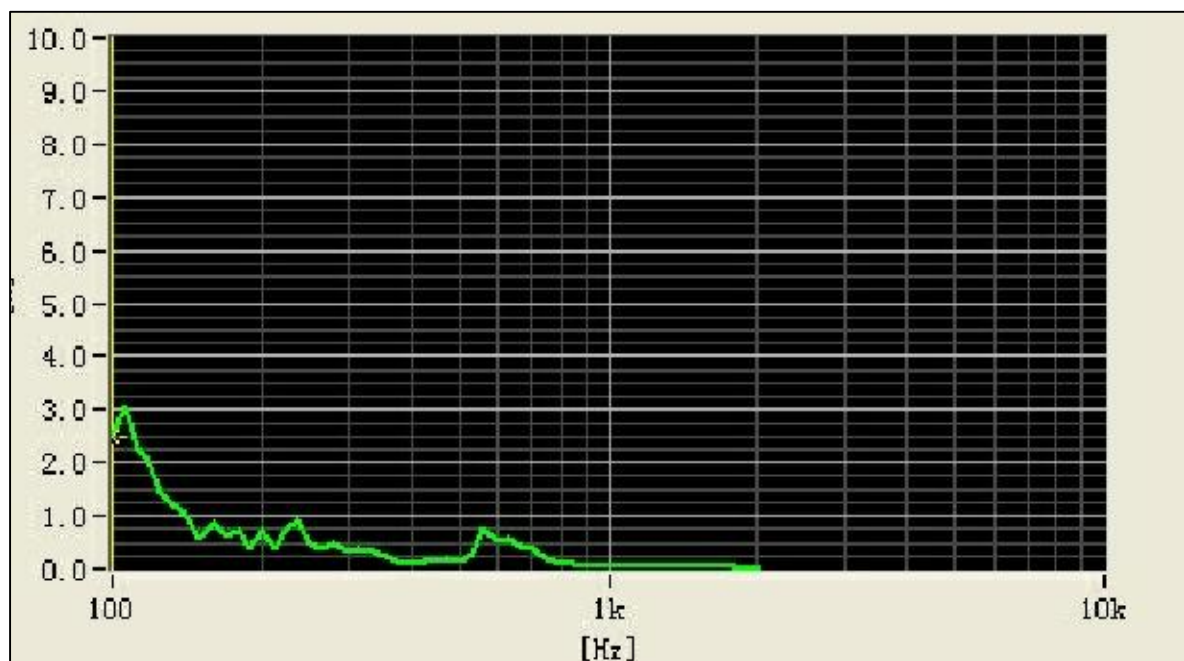
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1.5 Impedance(only for reference)



1.6 Rub&buzz(only for reference)

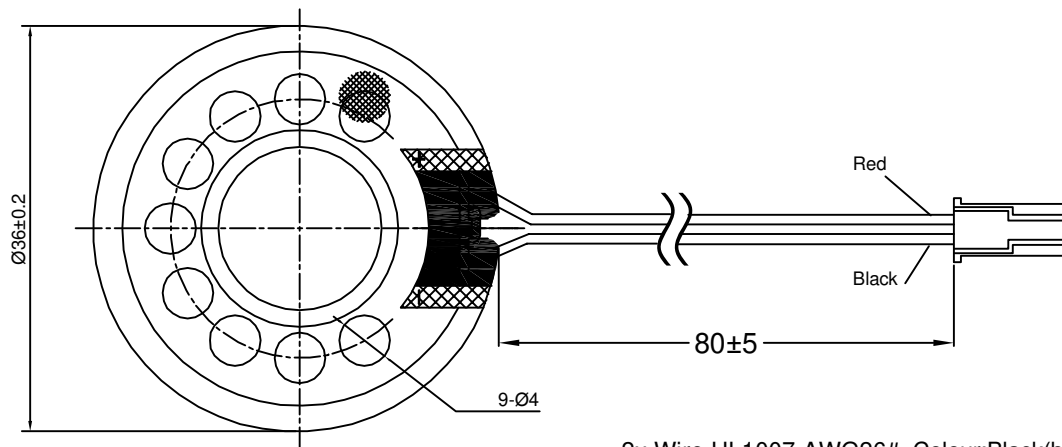


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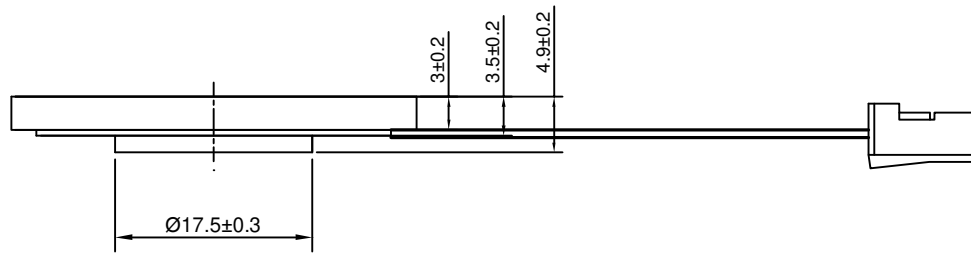
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# BMS36-11-50H5.0W80JST LF

## 2. Dimension Unit:mm



2x Wire UL1007 AWG26# ,Colour:Black(b) and red(r)  
Connector:JST PAP-02V-S,Terminal: JST PN SPHD-001T-P0.5



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# BMS36-11-50H5.0W80JST LF

## 3. Reliability Test

### 3.1 Load Test

Input Power                      0.5W  
Duration                              96hrs

### 3.2 Heat Test

Temperature                      +85°C±2°C  
Duration                              96hrs

### 3.3 Cold Test

Temperature                      -40°C±2°C  
Duration                              96hrs

### 3.4 Moisture Test

Temperature                      +40°C±2°C  
Humidity                              90%-95%RH  
Duration                              96hrs

### 3.5 Temperature shock

Low temperature                      -40°C  
Upper temperature                      +85°C  
Dwell time each temperature              30min.  
Transfer time from lower to upper temperature < 10s  
Number of cycles                      100

### 3.6 Vibration Test

Vibration Frequency                      10~55Hz  
Amplitude                              1.52mm  
Duration                              2hrs each of 3 axis

### 3.7 Drop test

Height of drop                              1.2m  
Ground                                      concrete floor  
Temperature                              room conditions  
Number of drops                              20

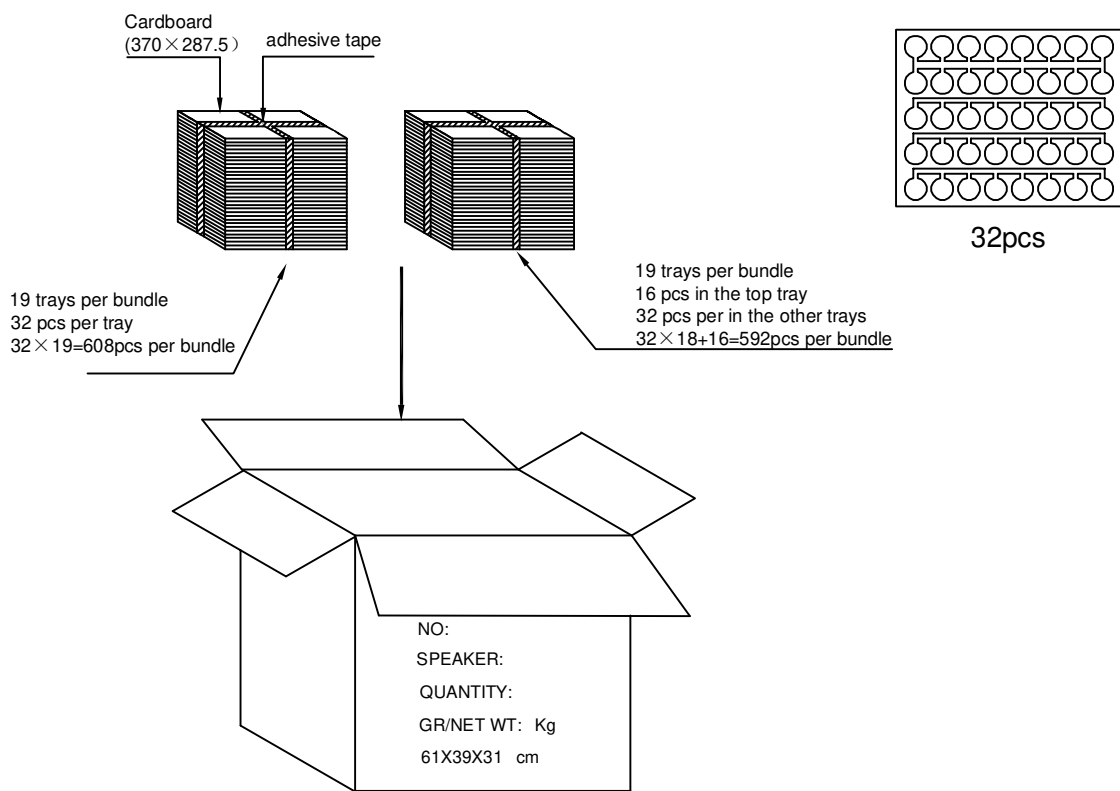
After each test, all acoustic and electrical characteristic should be satisfied with specification.

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# BMS36-11-50H5.0W80JST LF

## 4. Packing



Remark:  
32 pcs per tray  
19 pcs trays per bundle  
2 bundles per carton  
608+592=1200 pcs per carton  
Size: 61X39X31(cm)

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# BMS36-11-50H5.0W80JST LF

## 5. History change record

version No.	Change Items		Date	Drawn	Approved
	Before	After			
A			2012.07.04	莫丽丽	张秀琴
B	1152 pcs per carton	1200 pcs per carton	2013.07.31	胡兆俊	王 平

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						Page:08 of 08