



SPECIFICATION FOR AUTOMOTIVE SPEAKER

TOTAL PAGE 09

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RoHS

Customer		Model Name	BMS3408-01 LF
Customer P/N		Product No.	132002
Date	07. Mar. 17	Issue No.	BS/TES01.115C
Page	01 of 09	Issue Date	17/03/07

Approval:

- 1.Characteristics
- 2.Notice
- 3.Dimension
- 4.Bill of Material
- 5.Reliability Test
- 6.Packing
- 7.History change record

Drawn by	Checked by	Approved by	Customer approved
毛钰麒	唐从坤	莫丽丽	

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BMS3408-01 LF

1. Characteristic

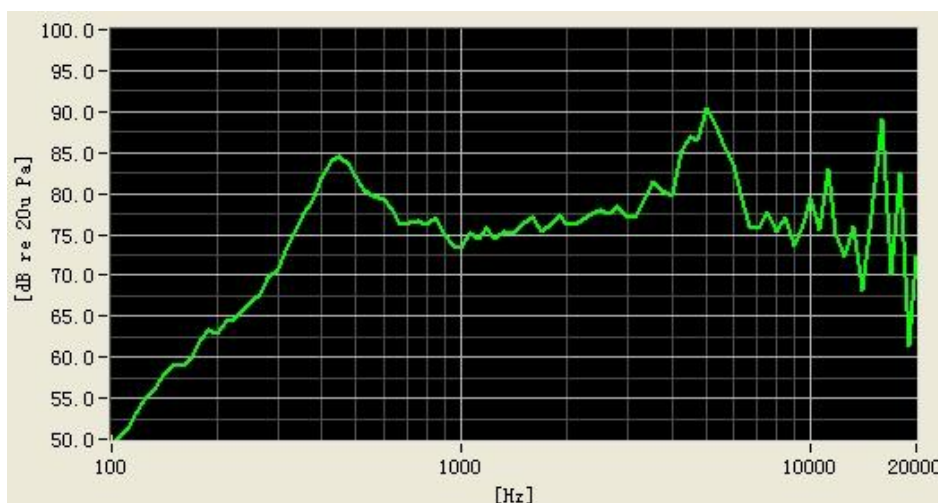
1.1 Electrical and Mechanical Characteristics



No.	Item	Specifications
1.	Rated input	0.3W
2.	Maximum input	0.5W
3.	Resonance Frequency	440±15%Hz
4.	Frequency Response	F0...17KHz
5.	Impedance(at 1000Hz)	8ohm±15%
6.	Output SPL (0.1W/0.5m/1KHz)	72±2dBA
7.	Buzzes and rattles	must be normal at sine wave 1.5V
8.	Magnet	Nd-Fe-B ∅12.5X1.5mm
9.	Polarity	Positive voltage to (+), the diaphragm move forward
10.	Frame	PC
11.	Storage temperature	-40°C...+90°C
12.	Operation temperature	-40°C...+90°C
13.	Weight	11g

1.2 Frequency Response Curve

Test condition:0.5m/0.1W



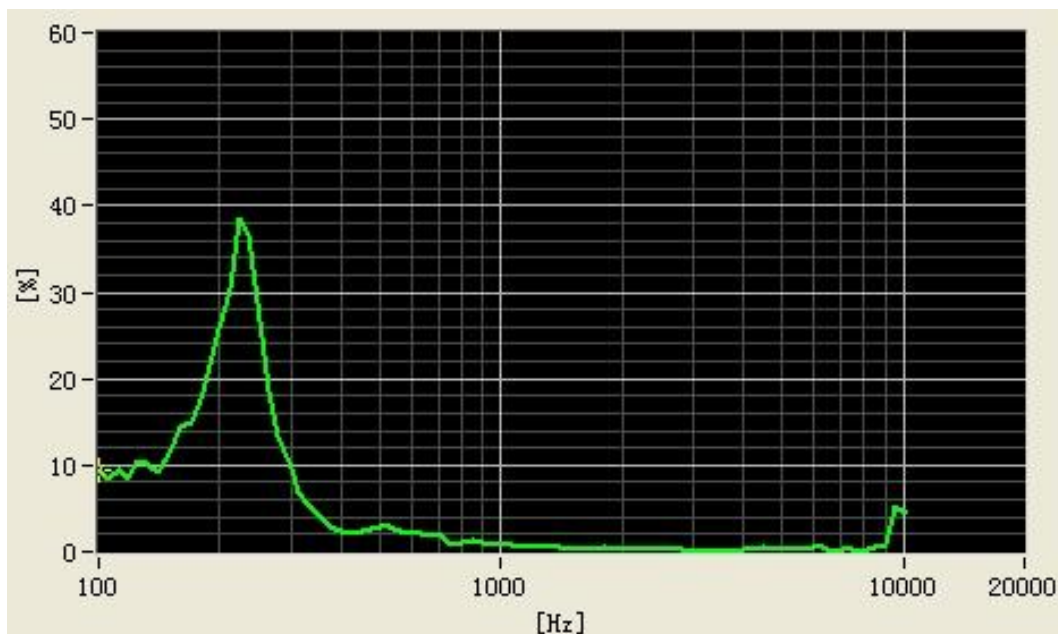
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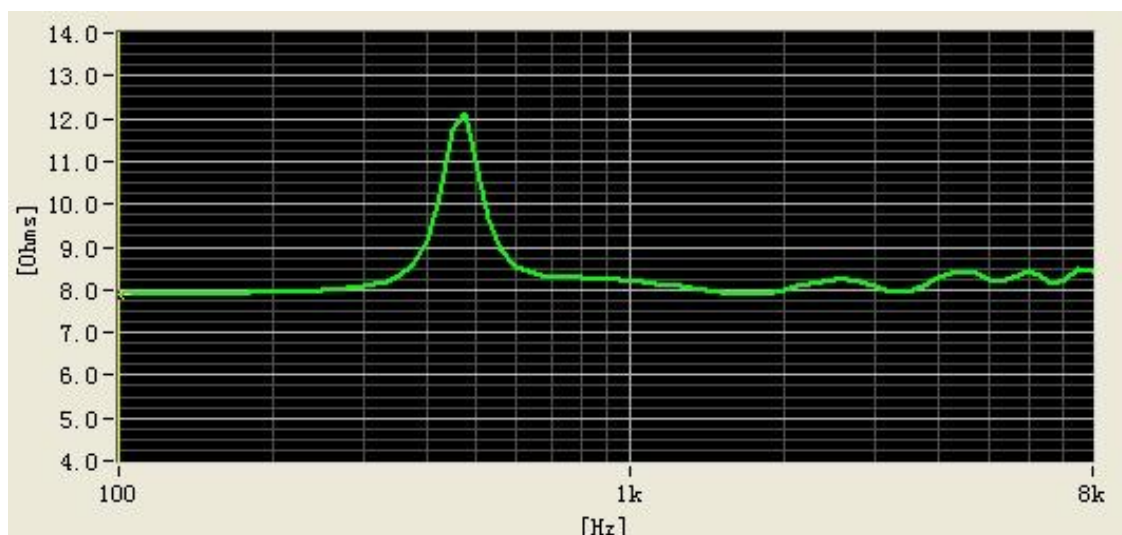
1.3 Total Harmonic Distortion Curve

Test condition:0.5m/0.1W



1.4 Resonance Frequency Curve

Test condition:0.5m/0.1W



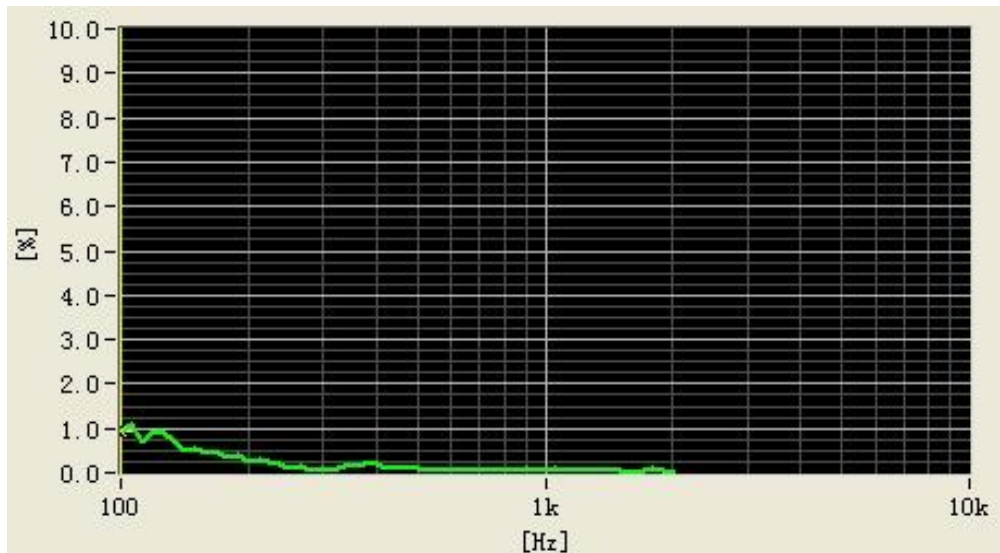
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1.5 Buzzer&Rattle Curve

Test condition:0.5m/0.1W



2. Notice

2.2 Storage Condition

The products should be stored in the room ,where the temperature/humidity is stable. And avoid such places where there are large temperature changes. Please store the products at the following conditions:

Temperature: -10 to + 40° C Humidity: 15 to 85% R.H.

2.3 Expire Date on Storage

Expire date (Shelf life) of the products is six months after delivered under the conditions of a sealed and an unopened package. Please use the products within six months after delivered.

If you store the products for a long time (more than six months), use carefully because the products may be degraded in the solderability and/or rusty. Please confirm solderability and characteristics for the products regularly.

2.4 Notice on Product Storage

(1) Please do not store the products in a chemical atmosphere (Acids, Alkali, Bases, Organic gas, Sulfides and so on), because the characteristics may be reduced at quality, and/or be degraded in the solderability due to the storage in a chemical atmosphere.

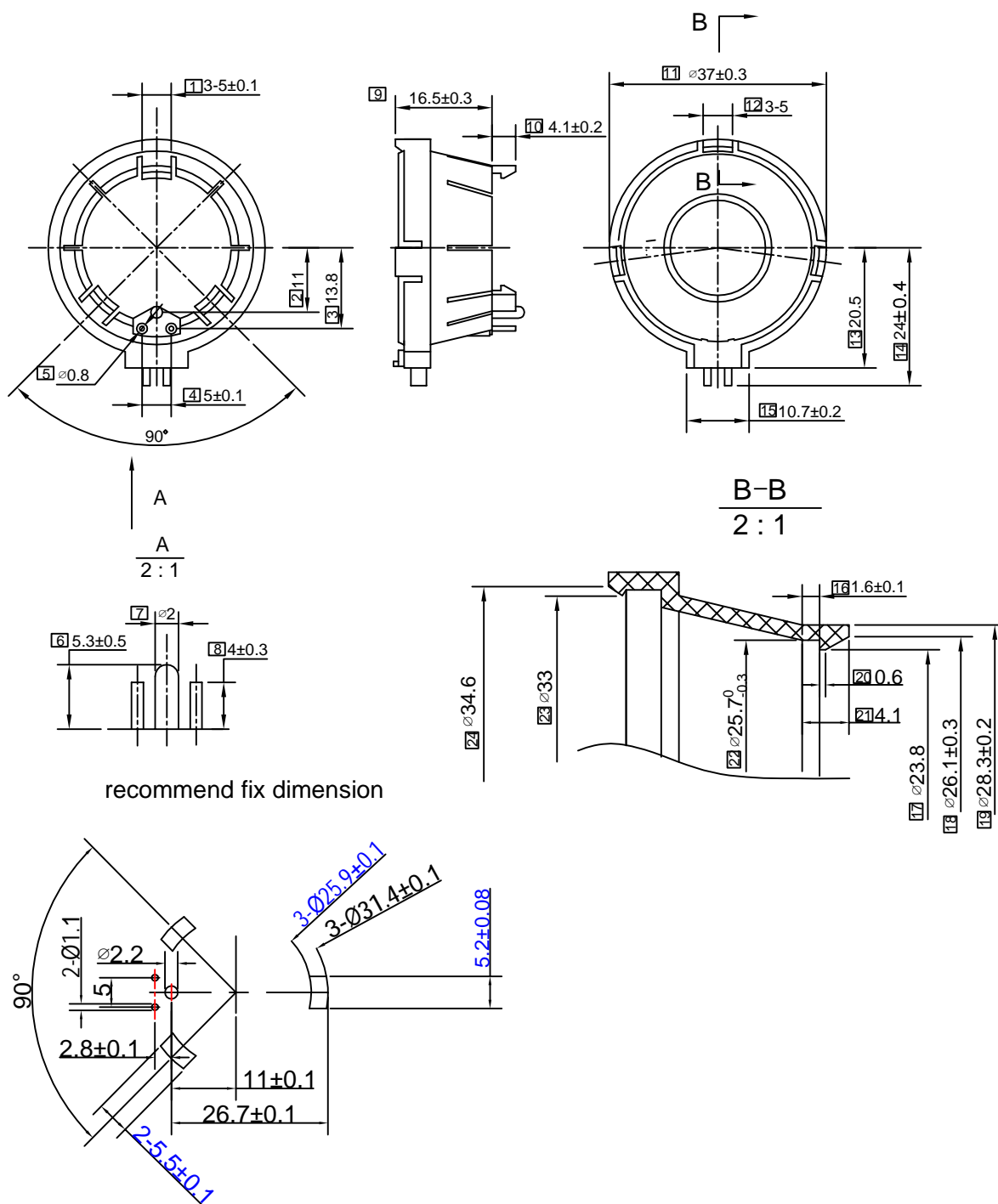
(2) Please use the products immediately after the package is opened, because the characteristics may be reduced at quality, and/or be degraded in the solderability due to storage under the poor condition.

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3.Dimension

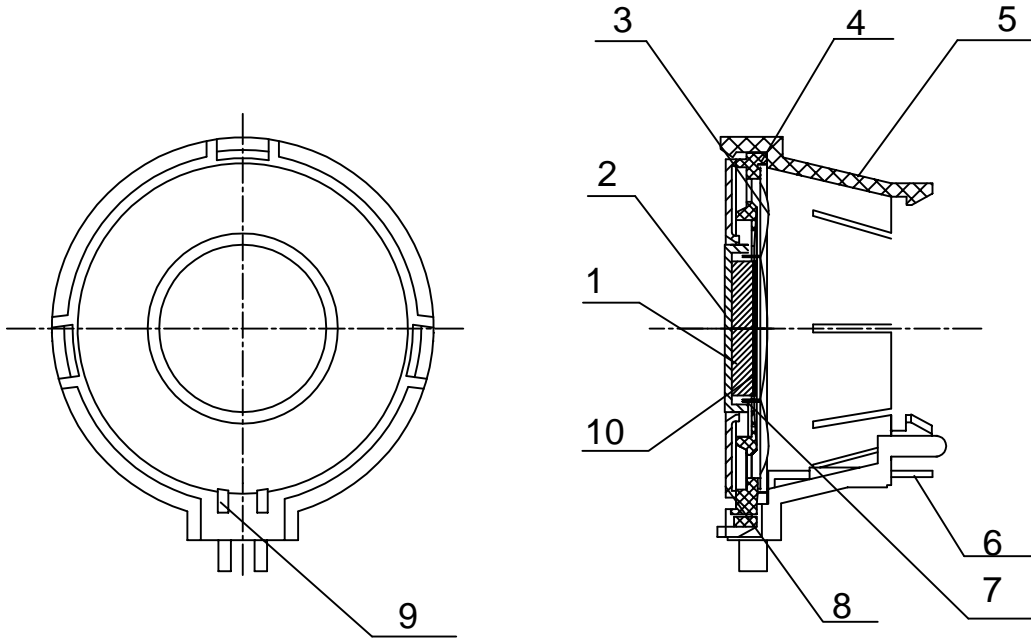


recommend fix dimension

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4. Bill of Material



10	metal plate	SPCC
9	Weld plate	Cu and Sn
8	Cover	PC
7	Voice Coil	∅0.07Cu
6.	Pin	Cu and Sn
5	Housing	Nylon
4	Frame	PC
3	Diaphragm	PEI
2	magnet bowl	SPCC
1	Magnet	N35H
No	Parts Name	Material

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5. Reliability test

- 5.1 Load Test
 - Input Power 0.3W, White noise
 - Duration 96hrs
- 5.2 Heat Test
 - Temperature +90°C±2
 - Duration 96hrs
- 5.3 Cold Test
 - Temperature -40°C±2
 - Duration 96hrs
- 5.4 Moisture Test
 - Temperature +40°C±2
 - Humidity 90%-95%RH
 - Duration 96hrs
- 5.5 Temperature shock
 - Low temperature -40°C
 - Upper temperature +90°C
 - Dwell time each temperature 30min.
 - Transfer time from lower to upper temperature < 10s
 - Number of cycles 100
- 5.6 Vibration Test
 - Vibration Frequency 10~55Hz
 - Amplitude 1.52mm
 - Duration 2hrs each of 3 axis
- 5.7 Drop test
 - Drop the speaker contained in normal box on to the board 20mm thick 10 times from the height of 1.2m

After each test of 5.2 to 5.3, speakers should be measured after 6hrs exposed in normal temperature.
 After each test, performance should be satisfied with spec.

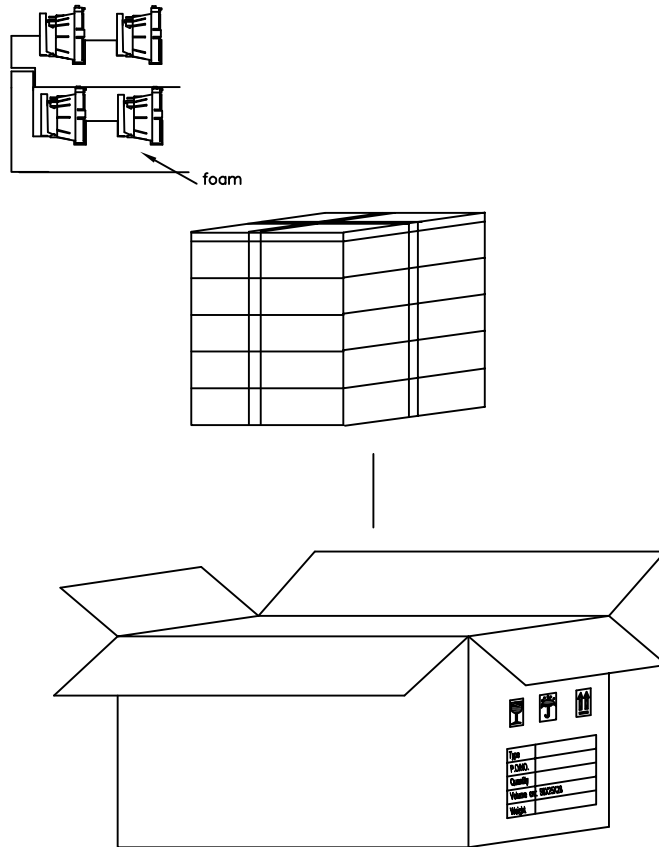
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6	5	4	3	2	1	
H	<h1>BMS3408-01 LF</h1> <h2>5. Reliability test</h2> <ul style="list-style-type: none"> 5.1 Load Test <ul style="list-style-type: none"> Input Power 0.3W, White noise Duration 96hrs 5.2 Heat Test <ul style="list-style-type: none"> Temperature +90°C±2 Duration 96hrs 5.3 Cold Test <ul style="list-style-type: none"> Temperature -40°C±2 Duration 96hrs 5.4 Moisture Test <ul style="list-style-type: none"> Temperature +40°C±2 Humidity 90%-95%RH Duration 96hrs 5.5 Temperature shock <ul style="list-style-type: none"> Low temperature -40°C Upper temperature +90°C Dwell time each temperature 30min. Transfer time from lower to upper temperature < 10s Number of cycles 100 5.6 Vibration Test <ul style="list-style-type: none"> Vibration Frequency 10~55Hz Amplitude 1.52mm Duration 2hrs each of 3 axis 5.7 Drop test <ul style="list-style-type: none"> Drop the speaker contained in normal box on to the board 20mm thick 10 times from the height of 1.2m <p>After each test of 5.2 to 5.3, speakers should be measured after 6hrs exposed in normal temperature. After each test, performance should be satisfied with spec.</p>					G
G						G
F						F
E						E
D						D
C						C
B						B
A				Date: 2017.03.07	BMS3408-01 LF	
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6	5	4	3	2	1	

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6. Packing

6.1 Packing Drawing



6.2 packing quantity

- 1) 50pcs per tray,
- 2) 10pcs tray per carton
- 3) 500pcs per carton,
- 4) carton size: 58X25X28cm

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7. History change record

version No.	Change Items		Date	Drawn	Approved
	Before	After			
A			02/08/22	王善梅	杨宏基
B		RoHS	11/11/22	莫丽丽	张秀琴
C		Add recommend fix dimension	17/03/07	毛钰麒	张秀琴

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