



**SPECIFICATION  
FOR ELECTRO-MAGNET TRANSDUCER**

TOTAL PAGE	07	<a href="http://www.be-star.com">www.be-star.com</a>	RoHS
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Customer		Model Name	BMT1212H09 LF
Customer P/N		Product No.	010243
Date	15 Mar.11	Issue No.	BS/TET01.971C
Page	01 of 06	Issue Date	11/03/15

**Approval:**

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

Drawn by	Checked by	Approved by	Customer approved
魏奉玲	陶红仲	张秀琴	

**BESTAR ELECTRONICS INDUSTRY CO.,LTD**

No.199 HuangHe West Road.New district,ChangZhou,JiangSu Province,P.R.China

**Tel:** +86 519 88222567      **Fax:** +86 519 88222551

**E-mail:**[wu@be-star.com](mailto:wu@be-star.com)      **http://**[www.be-star.com](http://www.be-star.com)

# BMT1212H09 LF



## 1.Characteristics

### 1.1Electrical and Mechanical Characteristics

No.	Item	Specifications
1	Operating Voltage	7...16Vo-p
2	Rated Voltage	12Vo-p
3	Coil Resistance	140± 12 Ω
4	** Coil Impedance	240 Ω
5	* Sound Output at 10cm	≥ 85dB
6	Resonant Frequency	2400Hz
7	* Rated Current	≤40mA
8	Operating Temperature	-40...+85°C
9	Storage Temperature	-40...+85°C
10	Weight	2g

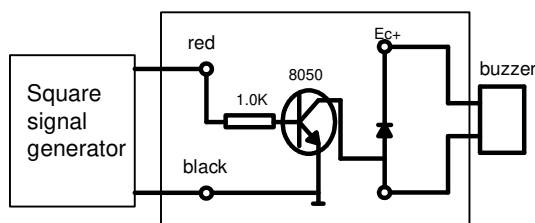
\* Value applying rated voltage ( 2400Hz, 1/2duty,square wave)

\*\*Value applying(2400Hz,square wave,measuring current 60 μ A)

### 1.2 Test method:

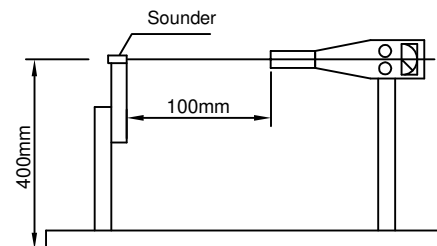
#### 1.2.1.Recommended Circuit

the following are examples of externally driven circuits.



#### 1.2.2.Standard test Fixture

No reaction in space with in 400mm in all direction



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B	08/03/12	魏奉玲	ROHS	Drawn by:	魏奉玲	
A	02/07/01	王善梅		Checked by:	陶红仲	Transducer
Rev.	Date	Drawn	Note	Approved by:	张秀琴	

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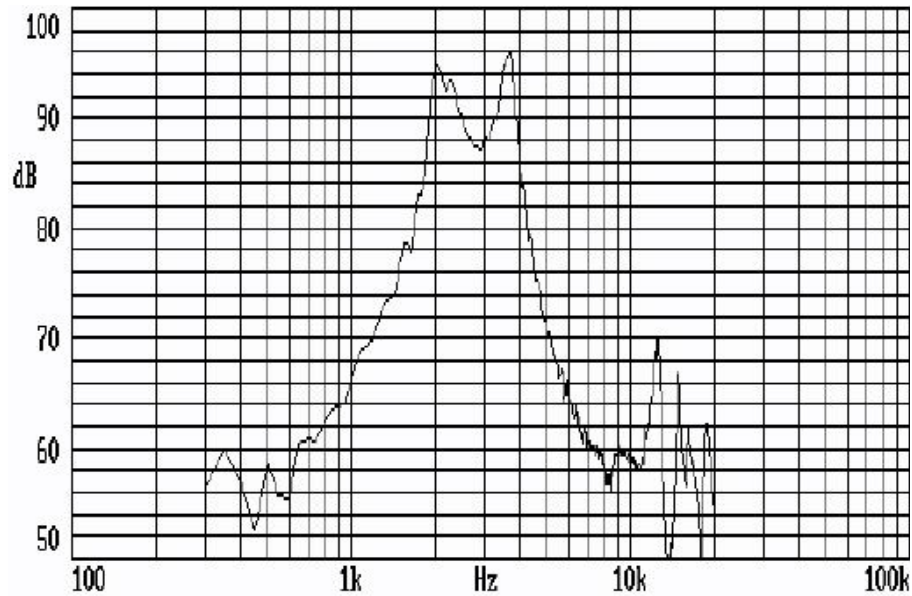
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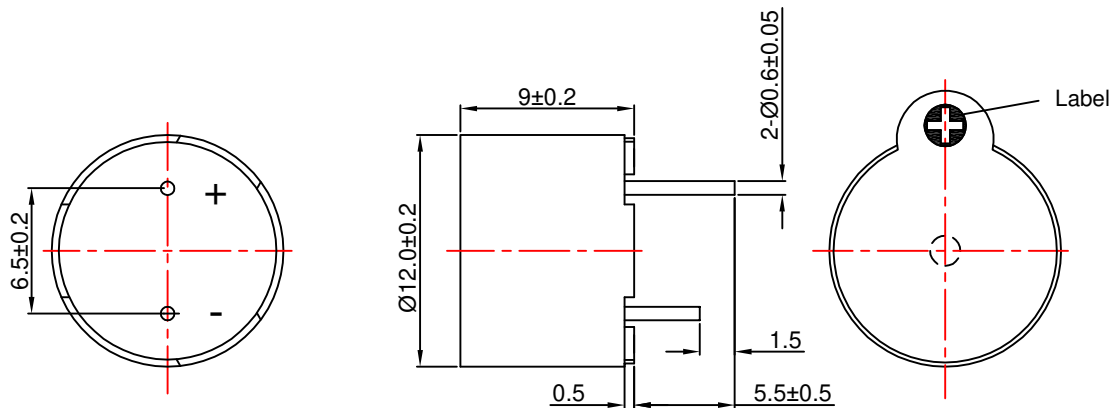
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1.3 Frequency response(square wave 12Vo-p 10cm):

MLS-Frequency Response



## 2.Dimension



unit:mm Tolerance:±0.3

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## 3. Reliability test

### 3.1 high temperature test

Temperature +85°C  
 Duration 96hrs

### 3.2 low temperature test

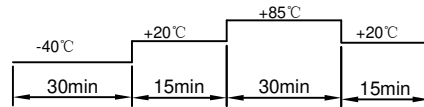
Temperature -40°C  
 Duration 96hrs

### 3.3 life test in normal temperature

Power supply rated voltage  
 Duration 1000hrs

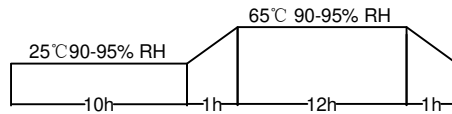
### 3.4 temperature cycle test

Cycles 5



### 3.5 Humidity cycle test

cycles 5



all these tests above should be measured after leaving normal temperature for 2hrs.

### 3.6 Drop test

Height 70cm(to 10mm thickness woodenboard)  
 Direction 3

### 3.7 Solderability test

Soldering temperature 255±5°C  
 Direction 3±0.5S

Notice: All specification must be satisfied in this condition except SPL.SPL shall be 80dB or more

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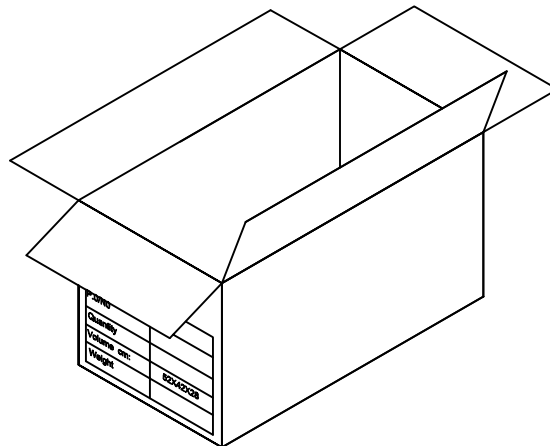
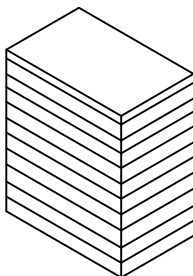
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## 4. Packing

### 4.1 Packing drawing (unit:mm)

- 1)100pcs/tray
- 2)50trays/carton
- 3)5000 pcs/carton in total
- 4)carton size 52x42x28cm



## 5. Notice

5.1 The products mustn't be washed

5.2 Storage Condition

The products should be stored in the room ,where the temperature/humidity is stable. And avoid suchplaces 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.

5.3 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.

5.4 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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## 6. History change record

version No.	Change Items		Date	Drawn	Approved
	Before	After			
A			02/07/01	王善梅	张秀琴
B		ROHS	08/03/12	魏奉玲	张秀琴
C	carton size:50x27x26cm quantity in a carton :3000 pcs	carton size:52x42x28cm quantity in a carton :5000 pcs	11/03/15	魏奉玲	张秀琴

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