



**SPECIFICATION
FOR ELECTRO-MAGNET TRANSDUCER**

| | | | |
|------------|----|--|------|
| TOTAL PAGE | 07 | www.be-star.com | 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 | |

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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 |

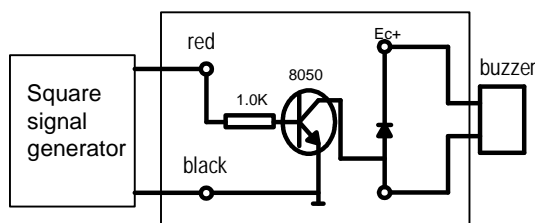
* Value applying rated voltage (2400Hz, 1/2duty,square wave)

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

1.2 Test method:

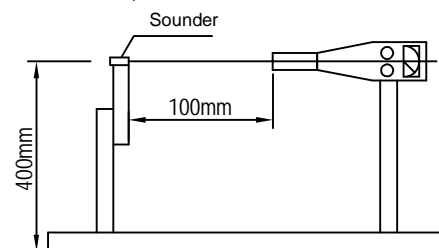
1.2.1.Recommended Circuit

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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| C | 11/03/15 | 魏奉玲 | change carton size&quantity | Date: | 11/03/15 | BMT1212H09 LF |
| 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 | |

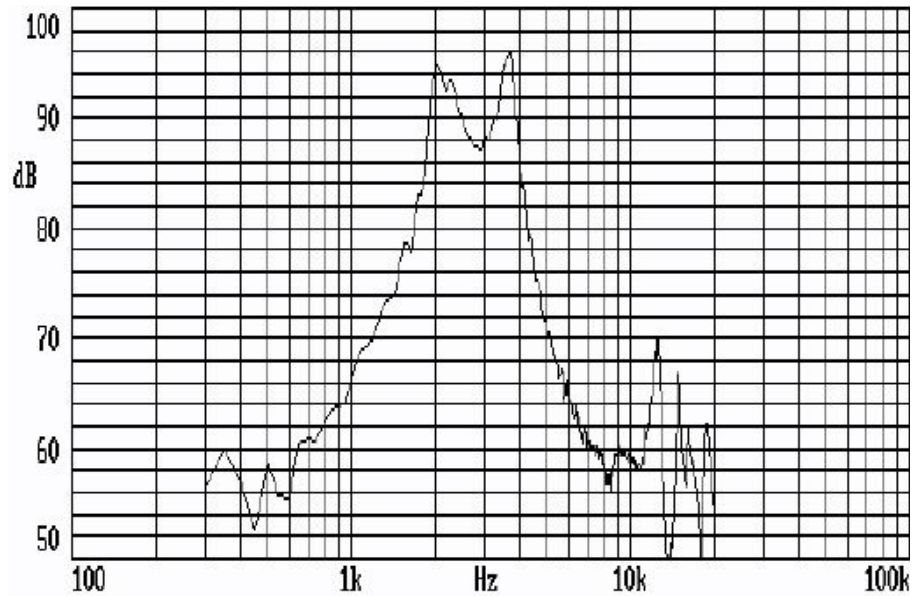
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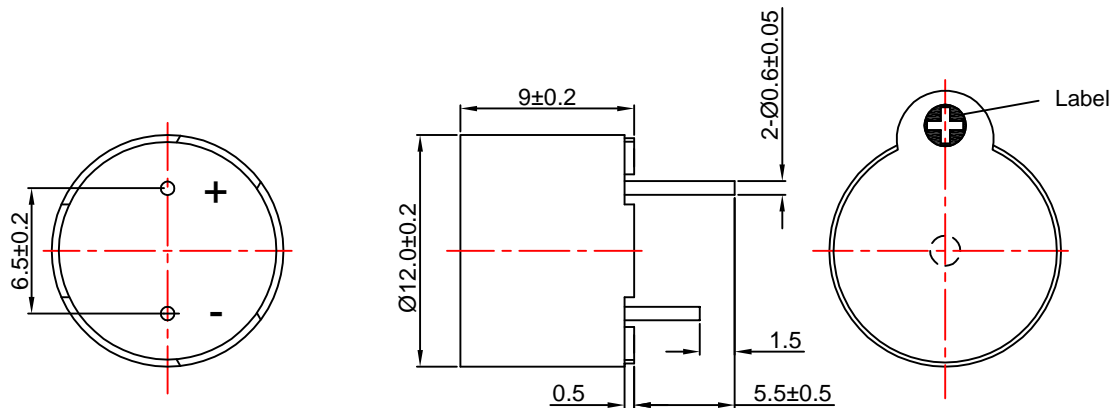
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1.3 Frequency response(square wave 12Vo-p 10cm):

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

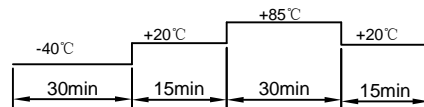
Temperature **-40°C**
Duration **96hrs**

3.3 life test in normal temperature

Power supply **rated voltage**
Duration **1000hrs**

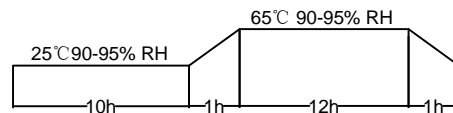
3.4 temperature cycle test

Cycles **5**



3.5 Humidity cycle test

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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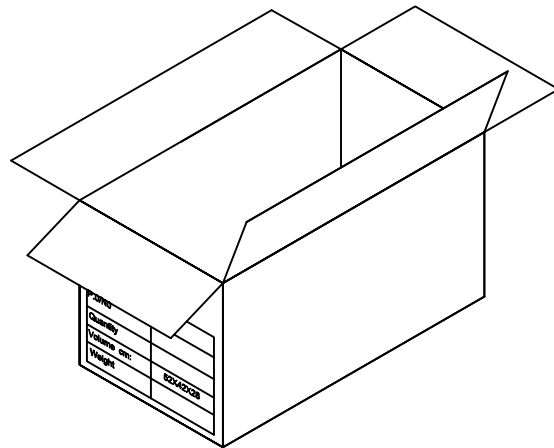
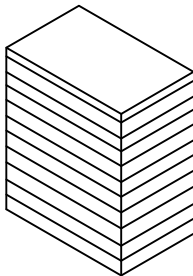
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4. Packing

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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