



SPECIFICATION
FOR ELECTRO-MAGNET TRANSDUCER

TOTAL PAGE 07 www.be-star.com RoHS

| | | | |
|--------------|------------|-------------|---------------|
| Customer | | Model Name | BMT1606H14 LF |
| Customer P/N | | Product No. | 010309 |
| Date | 12 Oct. 07 | Issue No. | BS/TET01.014B |
| Page | 01 of 07 | Issue Date | 07/10/12 |

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 | 徐波 | 陶红仲 | |

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BMT1606H14 LF



1. Characteristics

1.1 Electrical and Mechanical Characteristics

| No. | Item | Specifications |
|-----|------------------------------|----------------|
| 1 | Operating Voltage | 4...8Vo-p |
| 2 | Rated Voltage | 6Vo-p |
| 3 | Coil resistance | 45±7 Ω |
| 4 | b)Coil Impedance | 110 Ω |
| 5 | a)Sound Output Level at 10cm | ≥85dBA |
| 6 | a)Rated Current | ≤40mA |
| 7 | Resonant Frequency | 2048Hz |
| 8 | Operating Temperature | -40...+85°c |
| 9 | Storage Temperature | -40...+85°c |
| 10 | Weight | 7g |

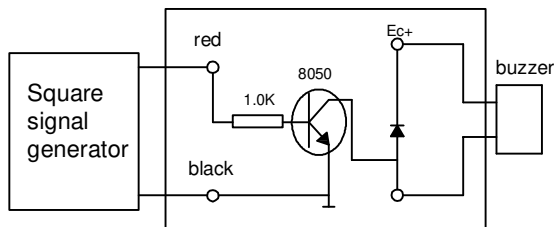
a)rated voltage applied ,square-wave,frequency 2048Hz,50% duty

b)rated voltage applied ,sine-wave,frequency 2048Hz,measuring current 60 μA

1.2 Test method:

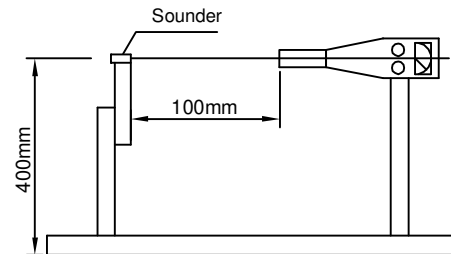
1.31 Recommended Circuit

the following are examples of externally driven circuits.



1.32. Standard text Fixture

No reaction in space with in 400mm in all direction



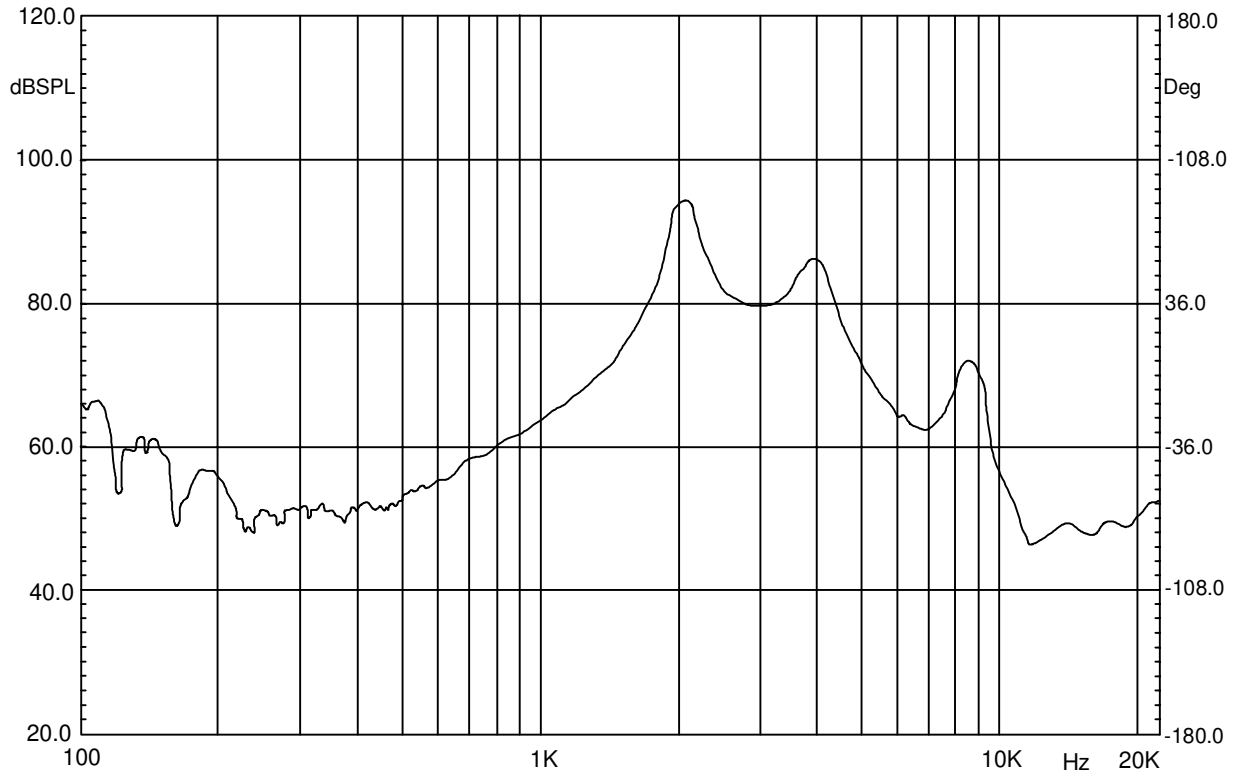
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| | | | | Date: | 07/10/12 | BMT1606H14 LF | |
| B | 07/10/12 | 魏奉玲 | ROHS | Drawn by: | 魏奉玲 | | |
| A | 01/05/20 | 魏奉玲 | | Checked by: | 徐波 | Transducer | |
| Rev. | Date | Drawn | Note | Approved by: | 陶红仲 | | |
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BMT1606H14 LF

1.3 Frequency response (square wave 6Vo-p 10cm)

MLS-Frequency Response

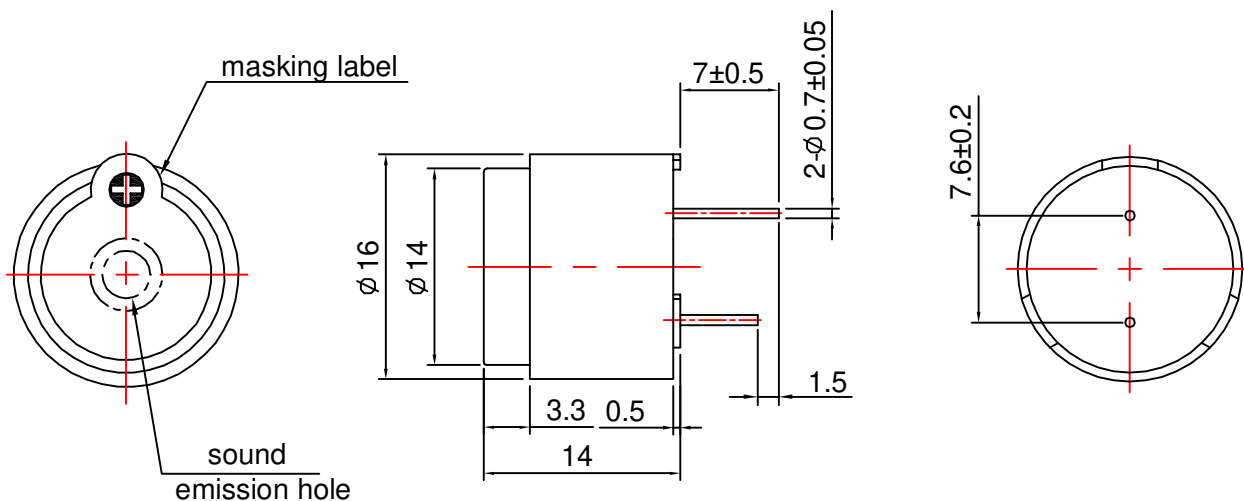


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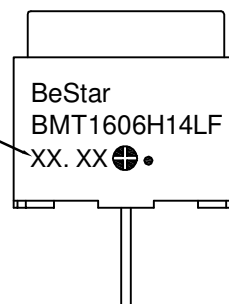
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2. Dimension



Remark:
Color of printing:golden
"XX . XX" means "week.year"



Tolerance: $\pm 0.3\text{mm}$

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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

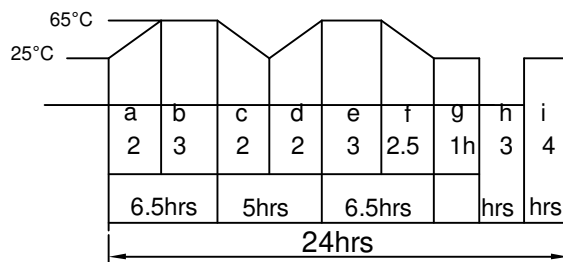
3.4 temperature cycle test

Cycles 10



3.5 Humidity cycle test cycles

10



a,b,c,d,e,f,g90%...98%RH
c,g80%...98%RH

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(X,Y,Z)
Times 3

3.7 Solderability

Temperature 255±5°C
Times 3±0.5sec

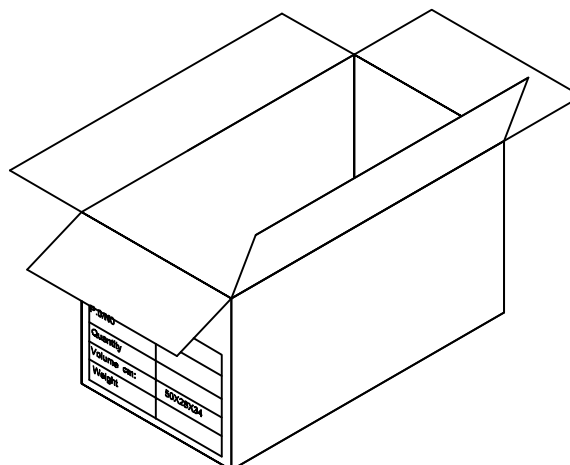
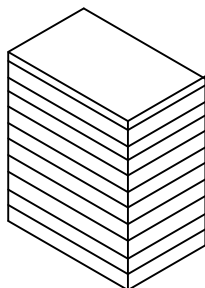
Notice: All specification must be satisfied in this condition except SPL.SPL shall be 82dB or more

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4. Packing



- 1)50pcs/tray
- 2)40trays/carton
- 3)2000 pcs/carton in total
- 4)carton size 50x28x34cm

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 such places where there are large temperature changes.

Please store the product set 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 delivery under the conditions of a sealed and an unopened package. Please use the products within six months after delivery.

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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