

SPECIFICATION

For Electro-Magnet Transducer

Customer	
Customer P/N	
BeStar Model Name	BMT1612H14-15LF
Product No.	010326
Issue No.	BS/TET01.420A
Issue Date	07/01/25

Approval:

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

Drawn by	Checked by	Approved by	Customer approved
韩学慧	邵凯	程久生	

For conform to the European Union Directive on the Restriction of Hazardous Substances(RoHS), this type of productions forbid use all the hazardous substances as follow:

Lead

Cadmium

Mercury

Hexavalent chromium

Polybrominated biphenyls (PBB)

Polybrominated diphenyl ethers (PBDE)



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BMT1612H14-15 LF



1.Characteristics

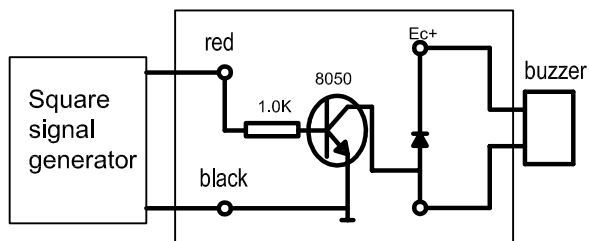
1.1Technical terms

No.	Item	Specifications
1	Operating Voltage	6...18Vp-p
2	Rated Voltage	12Vp-p
3	Coil Resistance	115± 15 Ω
4	** Coil Impedance	200 Ω
5	* Sound Output at 10cm	98±3dB
6	Resonant Frequency	2048Hz
7	* Rated Current	≤40mA
8	Operating Temperature	-40...+85°C
9	Storage Temperature	-40...+85°C
10	Weight	7g
* Value applying rated voltage (2048Hz, 1/2duty,square wave)		
**Value applying(2048Hz,square wave,measuring current 60 μ A)		

1.2 Test method:

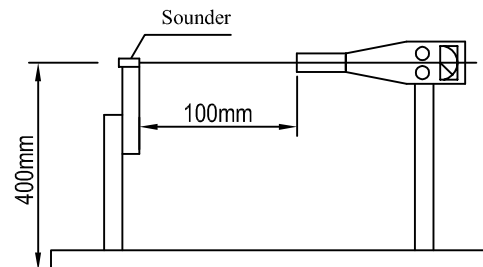
1.2.1.Recommended Circuit

the following are examples of externally driven circuits.



1.2.2.Standard test Fixture

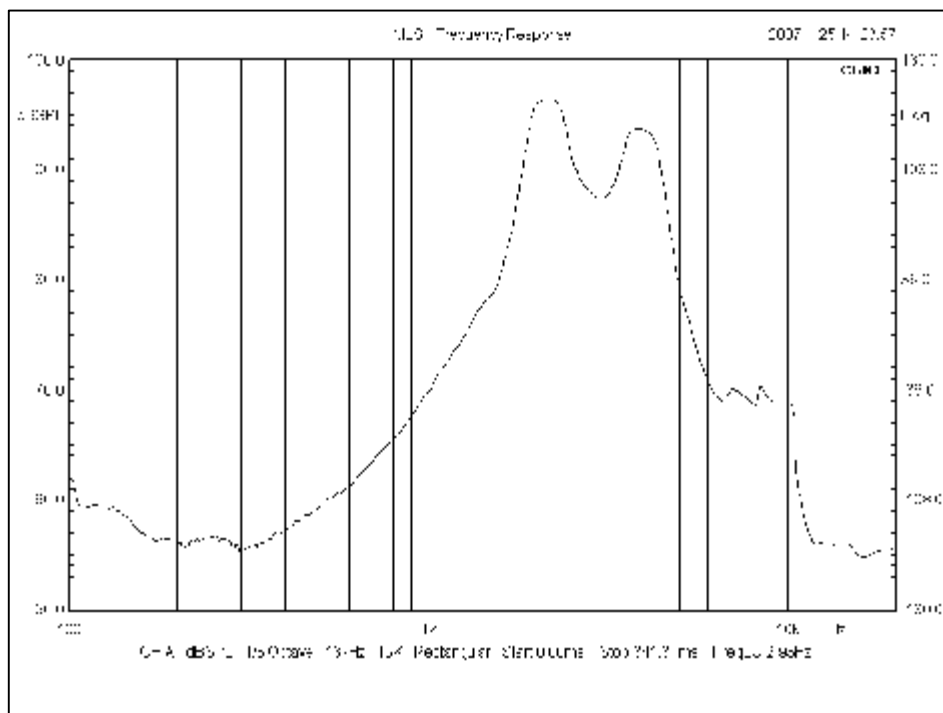
No reaction in space with in 400mm in all direction



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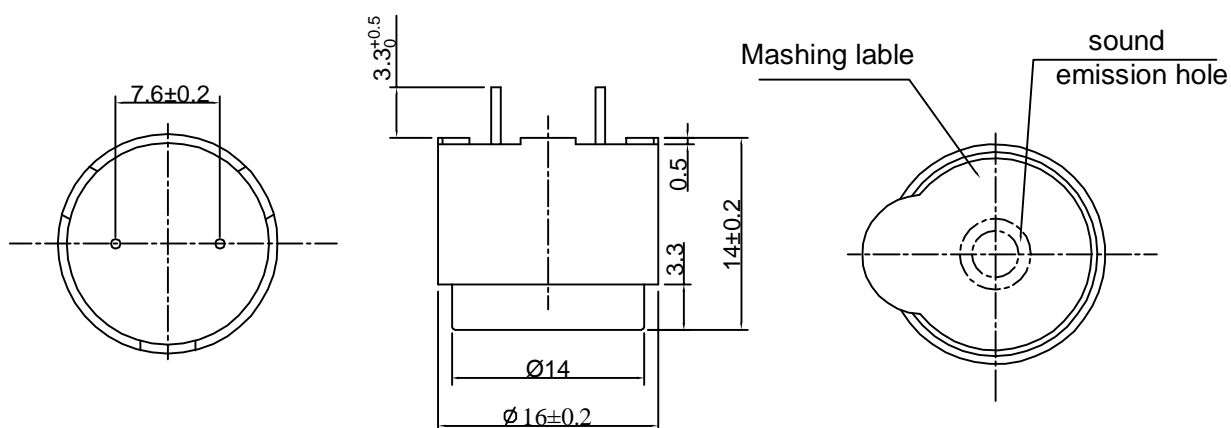
1.3 Frequency response(square wave 12V o-p 10mm):



2.Dimension

Unit: mm

Tolerance:±0.3mm



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3. Reliability test

3.1 high temperature test

Temperature +85 °C
Duration 96hrs

3.2 low temperature test

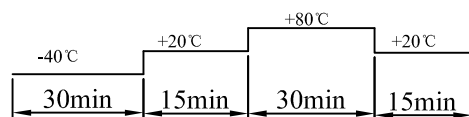
Temperature -40 °C
Duration 96hrs

3.3 life test in normal temperature

Power supply rated voltage
Duration 1000hrs

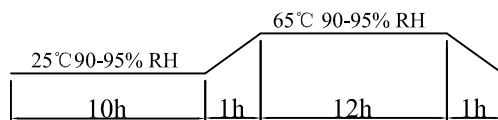
3.4 temperature cycle test

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 245±5 °C
Direction 3±0.5S

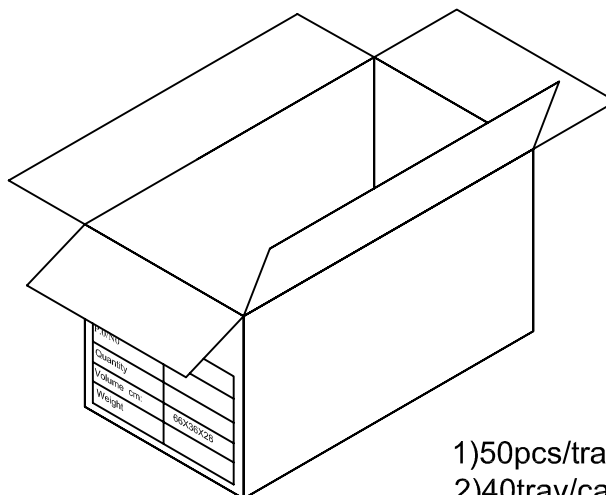
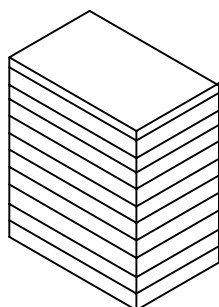
Notice: All specification must be satisfied in this condition except SPL.SPL shall be 80dB or more

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4. Packing



- 1)50pcs/tray
- 2)40tray/carton
- 3)2000 pcs/carton in total
- 4)carton size 66x36x28cm

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 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

[illegible]

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