

	SPECIFICATION		
	FOR ELECTRO-MAGNET TRANSDUCER		
	TOTAL PAGE	06	www.be-star.com
			RoHS

Customer		Model Name	BMT1612H14-25 LF
Customer P/N		Product No.	010342
Date	23 Oct. 09	Issue No.	BS/TET01.617B
Page	01 of 06	Issue Date	09/10/23

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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<http://www.be-star.com>

BMT1612H14-25 LF

1.Characteristics

1.1 Technical terms



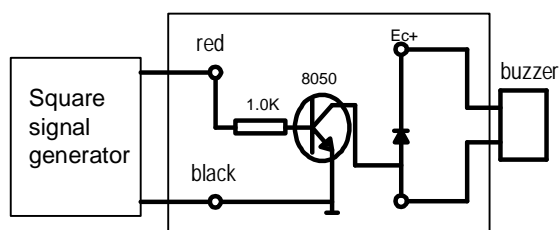
No.	Item	Specifications
1	Operating Voltage	6...18Vo-p
2	Rated Voltage	12Vo-p
3	DC Coil Resistance at 25 °C	115±15 Ω
4	* Coil current at25 °C	≤50mA
5	* Sound Output at 10cm	≥85dB
6	Resonant Frequency	2800Hz
7	Operating Temperature	-40...+85°C
8	Storage Temperature	-40...+85°C
9	Weight	7g
* Value applying 2800Hz,square wave 12Vo-p with 50%duty		

1.2 Test method:

1.2 Standard text Fixture

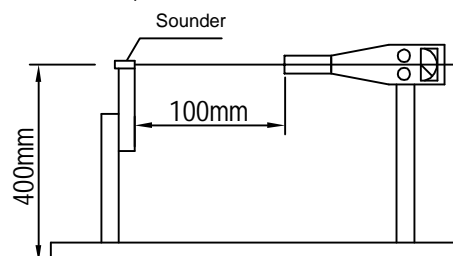
1.2.1.Recommended Circuit

the following are examples of externally driven circuits.



1.2.2.Standard text Fixture

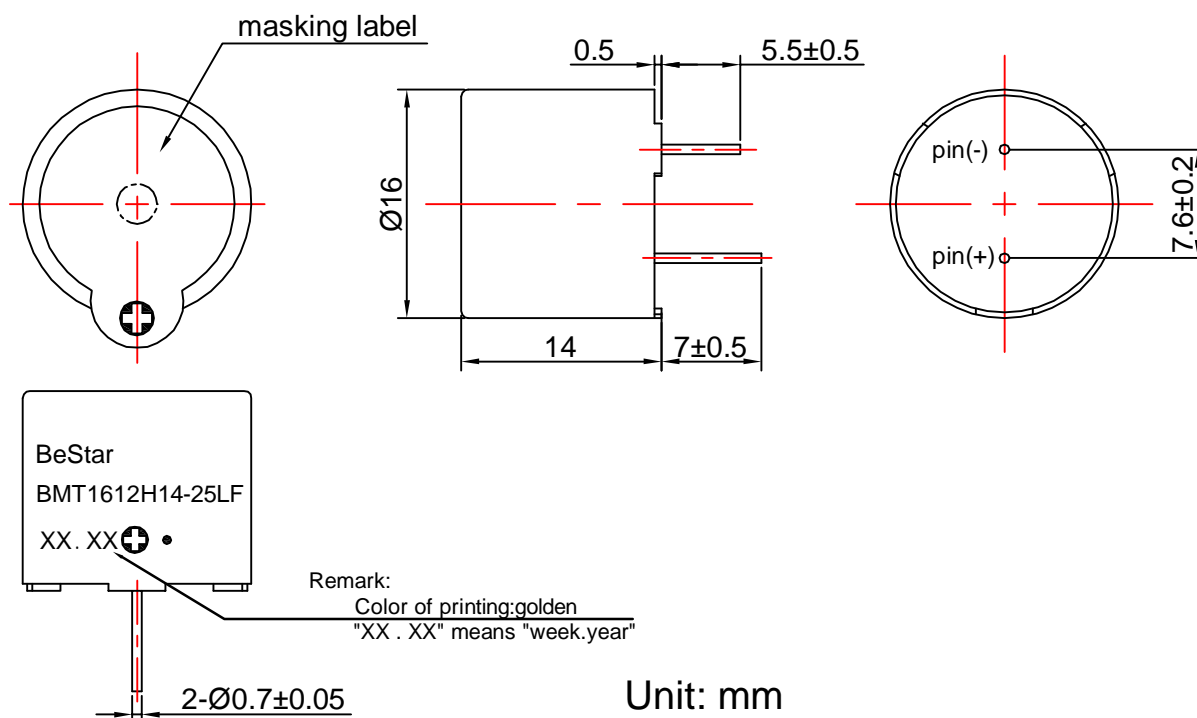
No reaction in space with in 400mm in all direction



				Date:	09/10/23	BMT1612H14-25 LF	
B	09/10/23	魏奉玲	ROHS	Drawn by:	魏奉玲		
A	08/01/04	魏奉玲		Checked by:	徐 波	Transducer	
REV.	Date	Drawn	Note	Approved by:	陶红仲		
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2.Dimension



Unit: mm

Unit: mm Tolerance: ± 0.3

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	A	08/01/04	魏奉玲		Drawn by: 魏奉玲		
	REV.	Date	Drawn	Note	Checked by: 徐波	Transducer	
					Approved by: 陶红仲		
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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

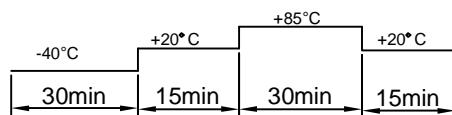
Duration

96hrs

3.3 Temperature cycle test

Cycles

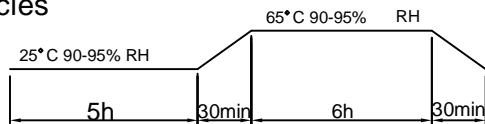
10



3.4 Humidity cycle test

Cycles

10



all these tests above should be measured after leaving normal temperature for 4hrs.

3.5 load test

Power

12V 2800Hz with duty of 50%

Duration

1000hrs

3.6 Vibration Test

Vibration Frequency

10~55Hz

Amplitude

1.5mm

Duration x,y&z directions

30min

3.7 Drop test

Height

70cm

(to 10mm thickness woodenboard)

Direction

3 (x,y&z),three times for each direciton

3.8 Solderability test

Solderability temperature

255±5 °C

Duration

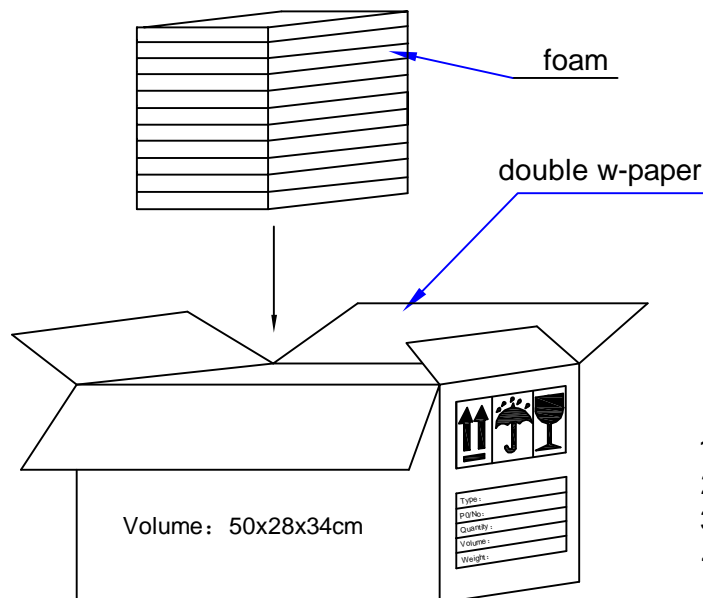
3 ±0.5S

After the test the part shall meet specifications without any degradation in appearance and performance except SPL.SPL shall be ≥83dB at rated frequency.

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4. Packing



- 1)50pcs/tray
- 2)40trays/carton
- 3)2000pcs/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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6. History change record

[illegible]

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