



SPECIFICATION FOR ELECTRO-MAGNET TRANSDUCER

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RoHS

Customer		Model Name	BMT1612H14 LF
Customer P/N		Product No.	010301
Date	08 Oct.12	Issue No.	BS/TET01.032D
Page	01 of 06	Issue Date	2012/10/08

Approval:

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

Drawn by	Checked by	Approved by	Customer approved
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BMT1612H14 LF



1. Characteristics

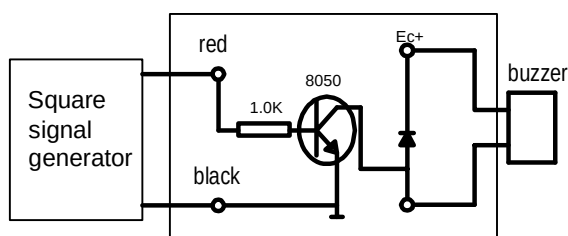
1.1 Electrical and Mechanical Characteristics

No.	Item	Specification
1.	Rated Voltage	12 Vo-p
2.	Operating Voltage	6...18Vo-p
3.	a) Rated Current	max 40mA
4.	Coil Resistance	115± 15ohm
5.	b) Coil Impedance	200ohm
6.	a) Sound Output at10cm	min 85 dB
7.	Resonance Frequency	2048Hz
8.	Operating Temperature	-40...+85° C
9.	Storage Temperature	-40...+85° C
10.	Weight	7g
a) Value applying at rated voltage (2048Hz,1/2duty square wave)		
b) Value applying at rated voltage (2048Hz,sine wave measuring current 60 μA)		

1.2 Test method:

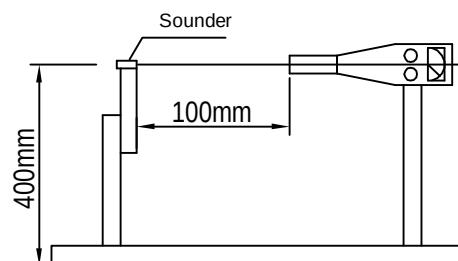
1.2.1.Recommended Circuit

the following are examples of externally driven circuits.



1.2.2.Standard test Fixture

No reaction in space with in 400mm in all direction

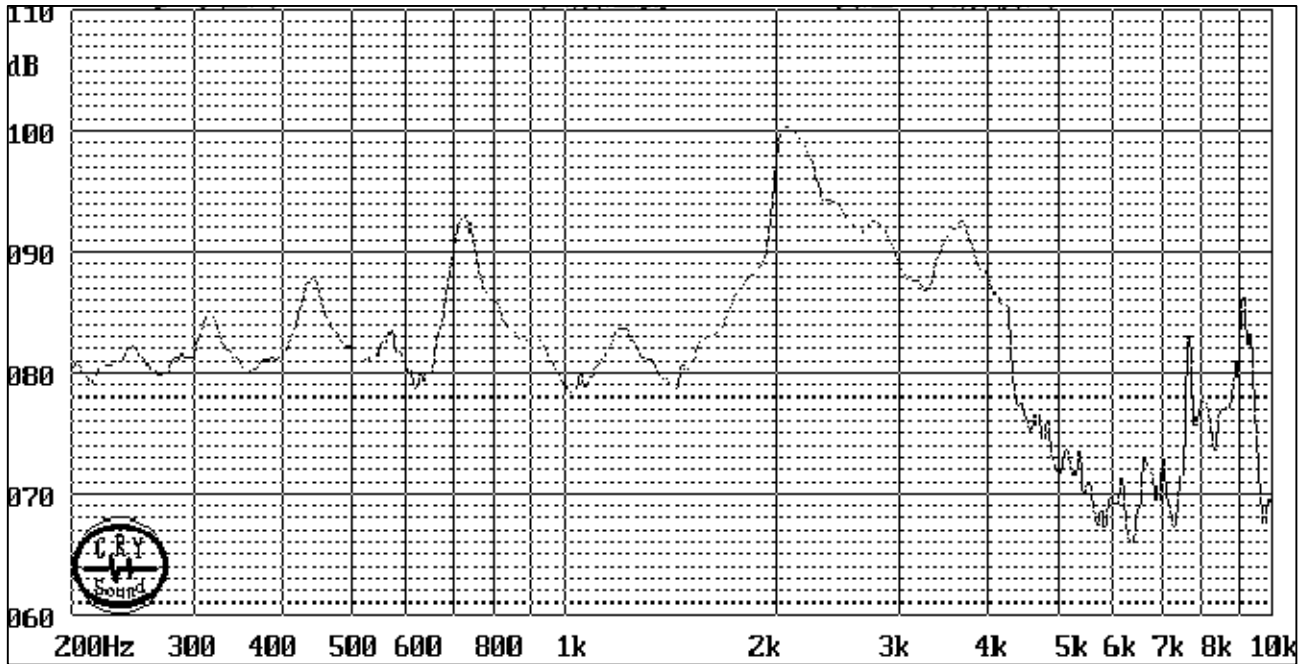


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D	2012/10/08	常 琦	change the frequency response curve	Drawn by:	常 琦		
C	08/12/18	魏奉玲	ROHS	Checked by:	魏奉玲	Transducer	
Rev.	Date	Drawn	Note	Approved by:	张秀琴		
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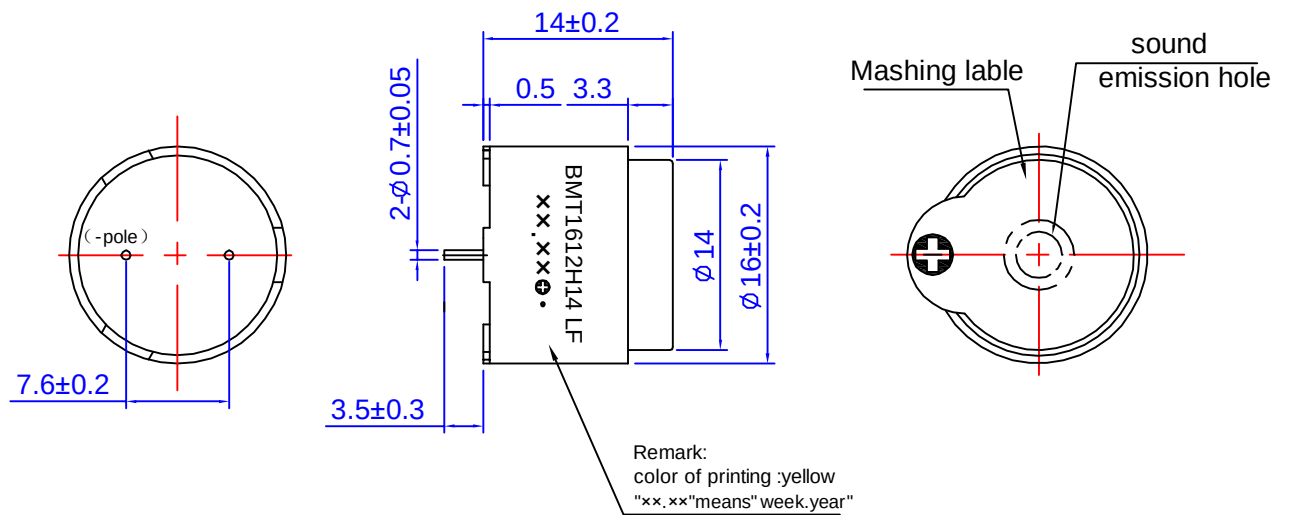
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1.3Frequency response(square wave 12Vo-p 10 cm)

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

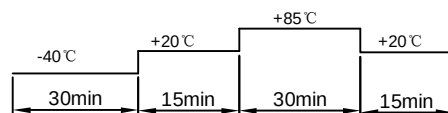
Temperature -40° C
Duration 96hrs

3.3 life test

Power supply Rated voltage
Duration 1000hrs

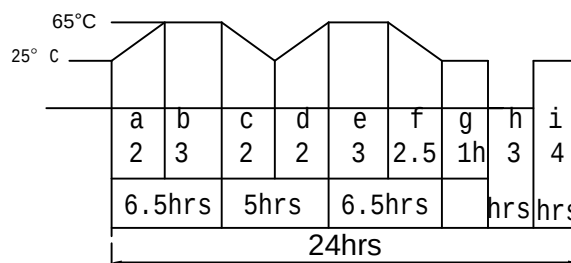
3.4 temperature cycle test

Cycles 10



3.5 Humidity cycle test

cycles 10



a, b, c, d, e, f, g 90%...98%RH
c, g 80%...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

3.7 Solderability test

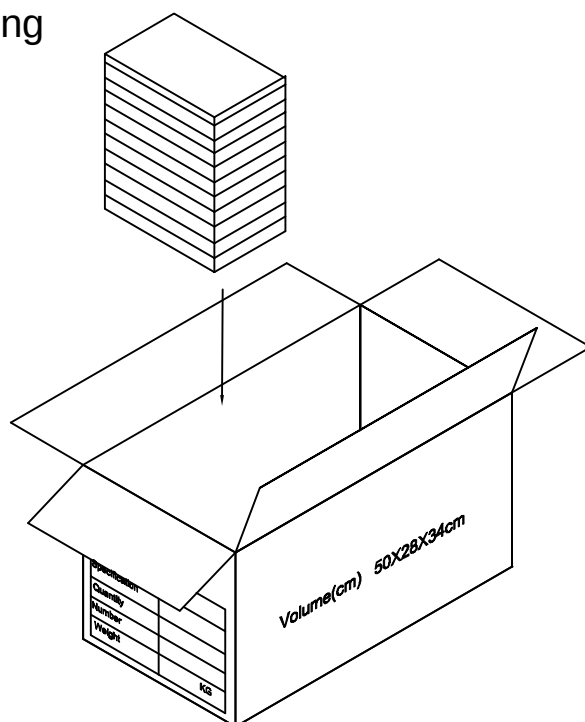
Soldering temperature 255±5° C
Direction 3±0.5S

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

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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 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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