



SPECIFICATION  
FOR ELECTRO-MAGNET TRANSDUCER

TOTAL PAGE 06

[www.be-star.com](http://www.be-star.com)

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
常琦	魏岸玲	张秀琴	

**BESTAR ACOUSTICS CO.,LTD**

No.199 HuangHe West Road.New district,ChangZhou,JiangSu Province,P.R.China

**Tel:** +86 519 88222567 **Fax:** +86 519 88222551

**E-mail:**[wu@be-star.com](mailto:wu@be-star.com) **<http://www.be-star.com>**

# 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

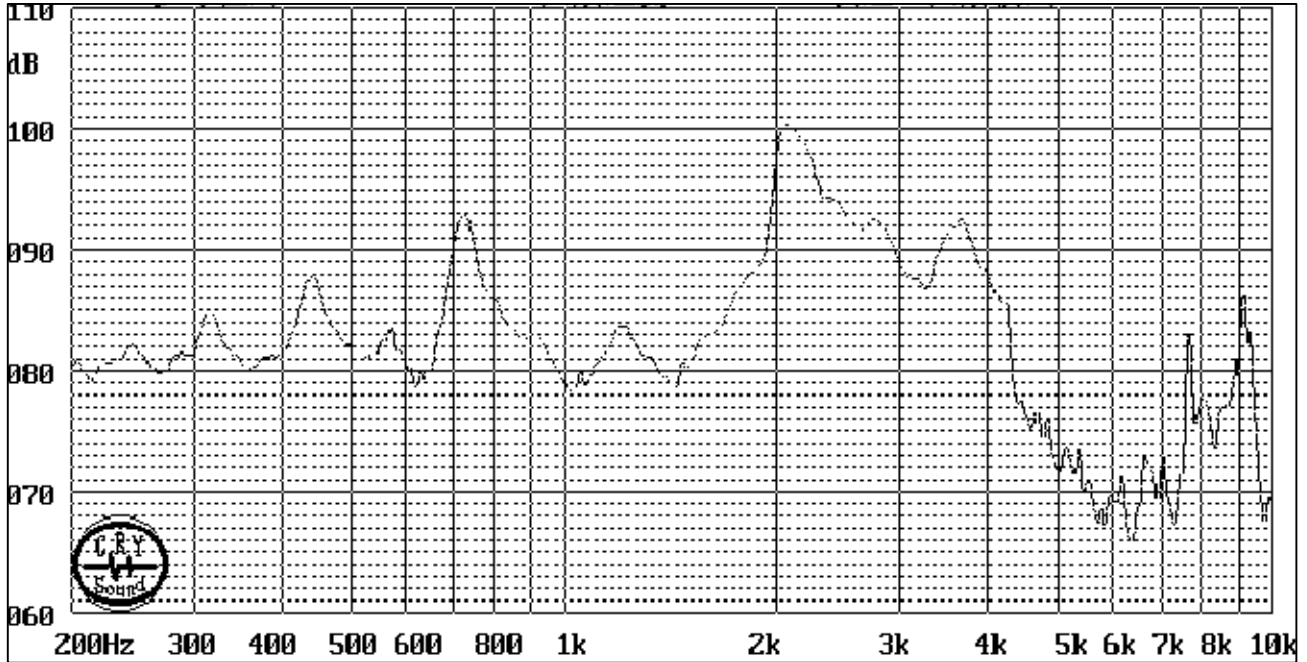
				Date:	2012/10/08	BMT1612H14 LF	
D	2012/10/08	常琦	change the frequency response curve	Drawn by:	常琦		
C	08/12/18	魏奉玲	ROHS	Checked by:	魏奉玲	Transducer	
Rev.	Date	Drawn	Note	Approved by:	张秀琴		
BESTAR ACOUSTICS CO.,LTD						DRG NO: BS/TET01.032D	Page:2 of 6
<a href="http://www.be-star.com">www.be-star.com</a> <a href="mailto:wu@be-star.com">wu@be-star.com</a>							

This print and information there in are proprietary to BeStar Electronics Industry Co., Ltd. and shall not be used in whole or in part without its written content

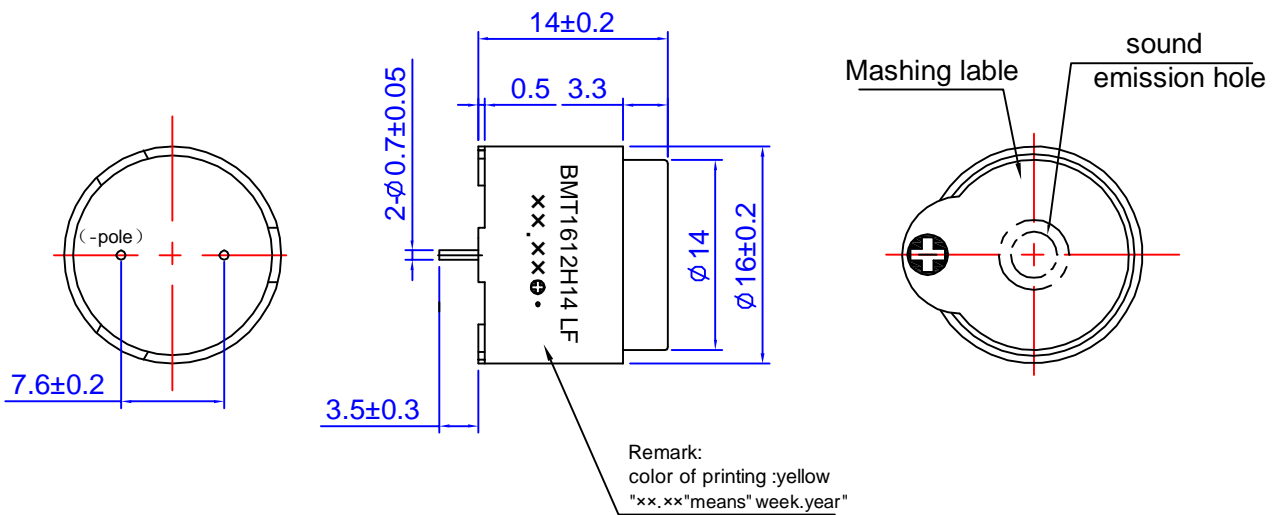
# BMT1612H14 LF

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

MLS-Frequency Response



## 2.Dimension



Unit: mm

Tolerance:±0.3

			Date:	2012/10/08	BMT1612H14 LF	
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		
BESTAR ACOUSTICS CO.,LTD					DRG NO: BS/TET01.032D	Page:3 of 6
www.be-star.com wu@be-star.com						

This print and information there in are proprietary to Bestar Electronics Industry Co., Ltd. and shall not be used in whole or in part without its written content

# BMT1612H14 LF

## 3. Reliability test

### 3.1 high temperature test

Temperature +85° C  
 Duration 96hrs

### 3.2 low temperature test

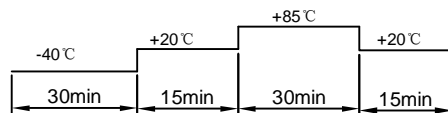
Temperature -40° C  
 Duration 96hrs

### 3.3 life test

Power supply Rated voltage  
 Duration 1000hrs

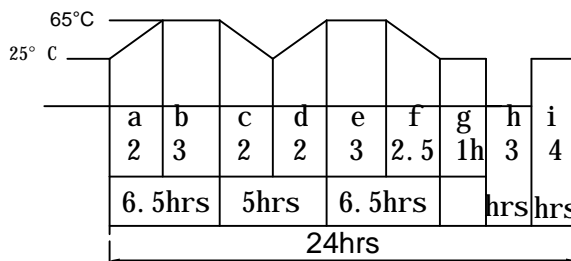
### 3.4 temperature cycle test

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

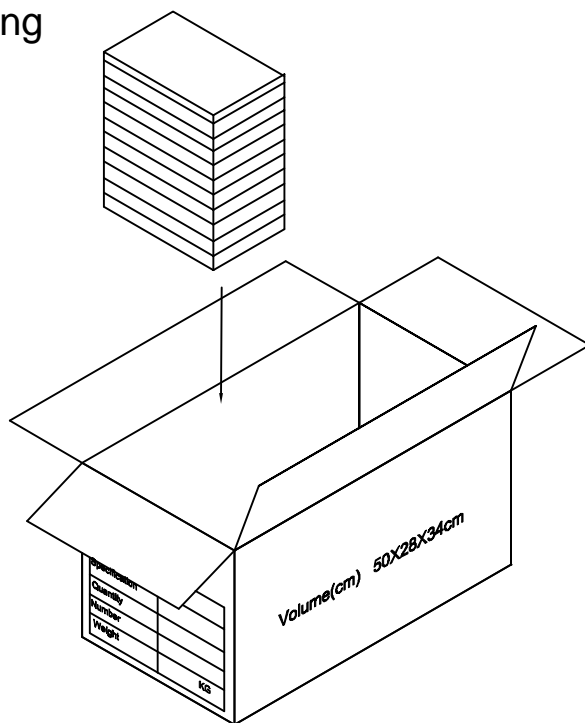
Notice: All specification must be satisfied in this condition except SPL.SPL shall be 80dB or more

This print and information there in are proprietary to BeStar Electronics Industry Co., Ltd. and shall not be used in whole or in part without its written consent

				Date:	2012/10/08	BMT1612H14 LF
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	
BESTAR ACOUSTICS CO.,LTD						DRG NO: BS/TET01.032D
www.be-star.com wu@be-star.com						Page:4 of 6

# BMT1612H14 LF

## 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 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.

This print and information there in are proprietary to BeStar Electronics Industry Co., Ltd. and shall not be used in whole or in part without its written content

				Date:	2012/10/08	BMT1612H14 LF	
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		
BESTAR ACOUSTICS CO.,LTD						DRG NO: BS/TET01.032D	Page:5 of 6
www.be-star.com wu@be-star.com							

# BMT1612H14 LF

## 6. History change record

version No.	Change Items		Date	Drawn	Approved
	Before	After			
A			02/06/20	胡海青	颜炳辉
B		add mashing label	07/06/19	魏奉玲	程久生
C		ROHS	08/12/18	魏奉玲	程久生
D		change the frequency response curve	2012/10/08	常琦	张秀琴

This print and information there in are proprietary to BeStar Electronics Industry Co., Ltd. and shall not be used in whole or in part without its written consent

				Date:	2012/10/08	BMT1612H14 LF
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	
BESTAR ACOUSTICS CO.,LTD						DRG NO: BS/TET01.032D
<a href="http://www.be-star.com">www.be-star.com</a> <a href="mailto:wu@be-star.com">wu@be-star.com</a>						