BeStar	SPECIFICATION FOR ELECTRO-MAGNET TRANSDUCER			
	TOTAL PAGE	08	www.be-star.com	RoHS

Customer		Model Name	BMT3212H13 LF
Customer P/N	BME3212C-01E	Product No.	010100
Date	25 Nov. 17	Issue No.	BS/TET01.140F
Page	01 of 08	Issue Date	17/11/25

Approval:

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

Drawn by	Checked by	Approved by	Customer approved
顾燕菁	魏奉玲	邱 蒙	

BESTAR ELECTRONICS INDUSTRY 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 ***http://www.be-star.com***

BME3212C-01E

1. Characteristics

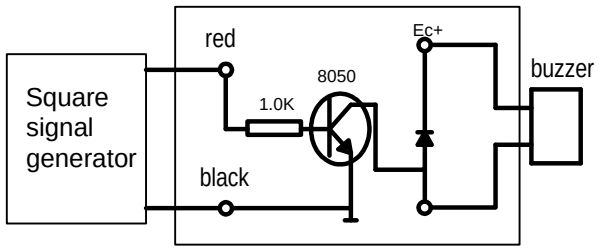
1.1 Electrical and Mechanical Characteristics

No.	Item	Specifications
1	Operating Voltage	8...16Vo-p
2	Rated Voltage	12Vo-p
3	a)Rated Current	Max.55mA
4	b)Sound Output at 10cm	87...93dBA
5	Coil Resistance	120± 12ohm
6	c)Coil Impedance	155± 20%ohm
7	Resonant Frequency	740Hz
8	Operating Temperature	-40...+85° C
9	Storage Temperature	-40...+105° C
10	Material	PA66+15%GF
a)Value appling rated voltage(1000Hz,1/2 duty,square wave)		
b)Value applying 740Hz,square wave 12Vo-p with 15% duty		
c)Value applying (1000Hz sine wave measuring current 60 μA)		

1.2 Test method:

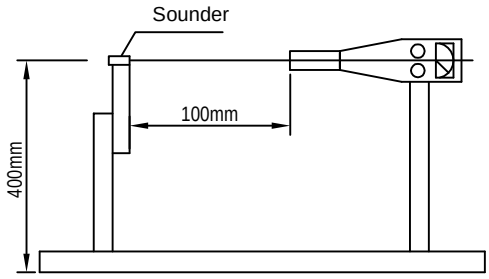
1.2.1.Recommended Circuit

the following are examples of externally driven circuits.



1.2.2.Standard text Fixture

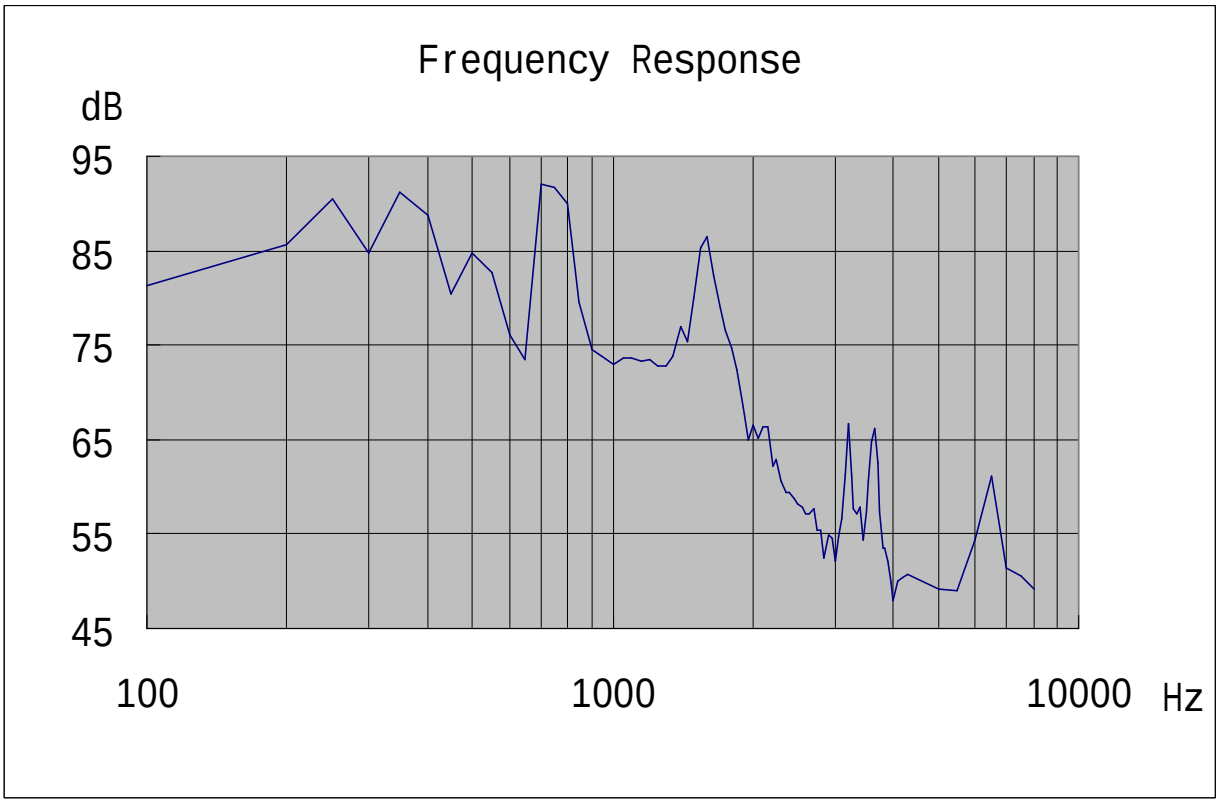
No reaction in space with in 400mm in all direction



Rev.	Date	Drawn	Note	Date:	17/11/25	BME3212C-01E
F	17/11/25	顾燕菁	weekly date code	Drawn by:	顾燕菁	
E	11/11/08	魏奉玲	add the angle dimension	Checked by:	魏奉玲	Transducer
				Approved by:	邱 蒙	

BME3212C-01E

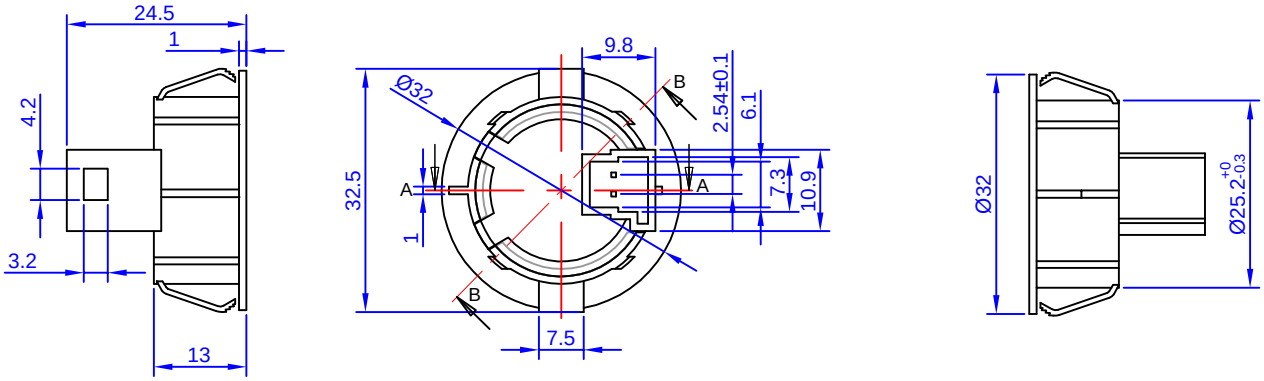
1.3 Frequency response(square wave 12Vo-p 10cm):

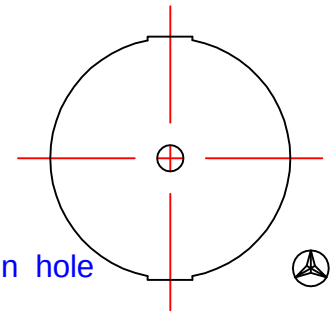


				Date:	17/11/25	BME3212C-01E
F	17/11/25	顾燕菁	weekly date code	Drawn by:	顾燕菁	
E	11/11/08	魏奉玲	add the angle dimension	Checked by:	魏奉玲	Transducer
REV.	Date	Drawn	Note	Approved by:	邱　蒙	
BESTAR ELECTRONICS INDUSTRY CO.,LTD www.be-star.com wu@be-star.com						DRG NO: BS/TET01.140F / Page:03 of 08

BME3212C-01E

2. Dimension





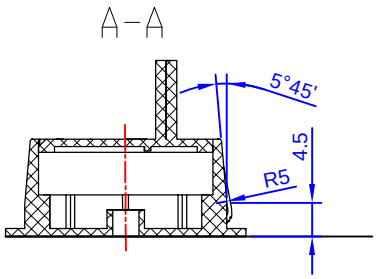
sound emission hole
Ø3.5

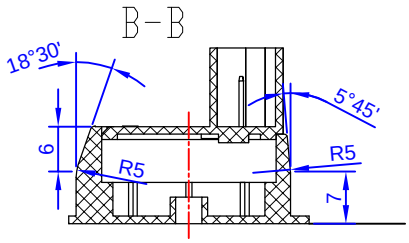
✳Note: The new printing

"XX.XX"means"week.year"

XX.XX "49.17"means"49th week.2017"

A 164 822 02 30
GRE WUS
Made in China





Tolerance:±0.3 Unit:mm

				Date:	17/11/25	BME3212C-01E
F	17/11/25	顾燕菁	weekly date code	Drawn by:	顾燕菁	
E	11/11/08	魏奉玲	add the angle dimension	Checked by:	魏奉玲	Transducer
REV.	Date	Drawn	Note	Approved by:	邱 蒙	
BESTAR ELECTRONICS INDUSTRY CO.,LTD www.be-star.com wu@be-star.com					DRG NO: BS/TET01.140F	Page:04 of 08

BME3212C-01E

3. Reliability test

3.1 High temperature test

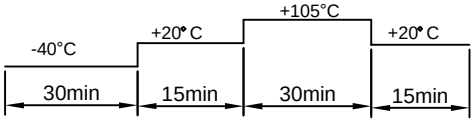
Temperature	+105° C
Duration	96hrs

3.2 Low temperature test

Temperature	-40° C
Duration	96hrs

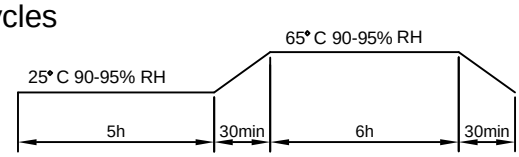
3.3 Temperature cycle test

Cycles	5



3.4 Humidity cycle test

Cycles	10



all these tests above should be measured after leaving normal temperature for 2hrs.

3.5 Load test

Power supply	rated voltage
Duration	1000hrs

3.6 Vibration Test

Vibration Frequency	10~55Hz
Amplitude	1.5mm
Duration x,y&z directions	30min

3.7 Drop test

Height (to 10mm thickness woodenboard)	70cm
Direction	3

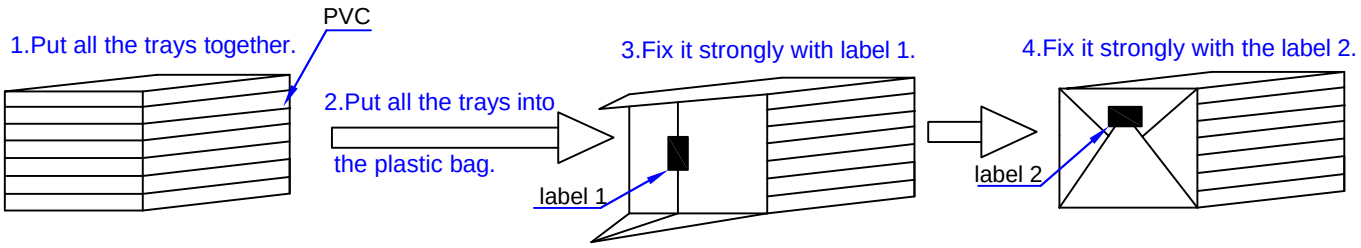
3.8 Solderability test

Solderability temperature	255±5°C
Heat applying time	3±0.5sec

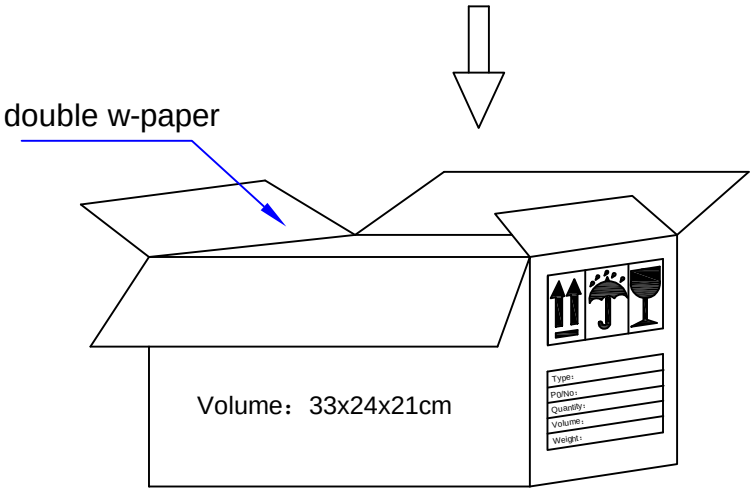
Notice: After the test the part shall meet specifications without any degrance and performance except S.P.L, S.P.L shall be 80dB more .

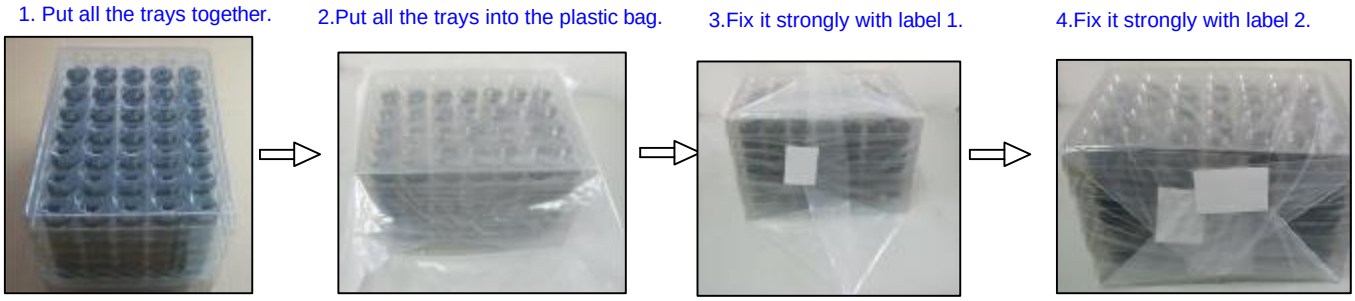
BME3212C-01E

4. Packing



1)35pcs/tray
2)6tray/carton
3)210pcs/carton in total
4)carton size 33x24x21cm





				Date:	17/11/25	BME3212C-01E
F	17/11/25	顾燕菁	weekly date code	Drawn by:	顾燕菁	
E	11/11/08	魏奉玲	add the angle dimension	Checked by:	魏奉玲	Transducer
REV.	Date	Drawn	Note	Approved by:	邱　蒙	

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 deliveried under the conditions of a sealed and an unopened package. Please use the products within six months after deliveried.
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.

BME3212C-01E

6. History change record

version No.	Change Items		Date	Drawn	Approved
	Before	After			
A			07/09/01	魏奉玲	张秀琴
B	The old printing and with white dot	The new printing and without white dot	08/07/03	魏奉玲	张秀琴
C		Change packing drawing	09/10/16	魏奉玲	陶红仲
D		Change into new frame	11/03/24	魏奉玲	张秀琴
E		Add the angle dimension	11/03/24	魏奉玲	张秀琴
F	Monthly date code	Weekly date code	17/11/25	顾燕菁	邱　蒙