



SPECIFICATION
FOR ELECTRO-MAGNET TRANSDUCER

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Customer		Model Name	BMT2512H12-04 LF
Customer P/N		Product No.	010120
Date	25 Sep. 2015	Issue No.	BS/TET01.584C
Page	01 of 07	Issue Date	2015/09/25

Approval:

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

Drawn by	Checked by	Approved by	Customer approved
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BMT2512H12-04 LF

1.Characteristics

1.1Technical terms

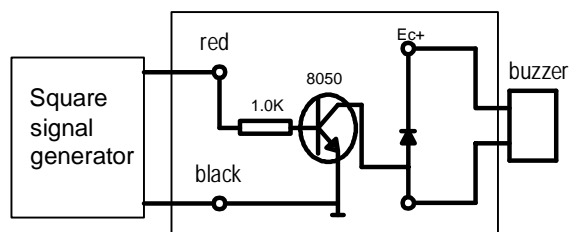


No.	Item	Specifications
1	Operating Voltage	8...14Vo-p
2	Rated Voltage	12Vo-p
3	a)Rated Current	Max. 55mA
4	a)Sound Output at 10cm	≥85dB
5	Coil Resistance	120± 15 Ω
6	Operating Temperature	-40...+85°C
7	Storage Temperature	-40...+85°C
8	Weight	10g
9	Material	Noryl SE1-GFN2J
a) Value applying rated voltage (1000Hz, 50%duty,square wave)		

1.2 Test method:

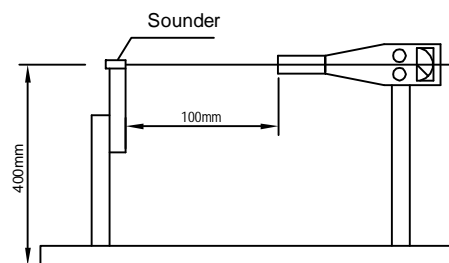
1.2.1.Recommended Circuit

the following are examples of externally driven circuits.



1.2.2.Standard test Fixture

No reaction in space with in 400mm in all direction

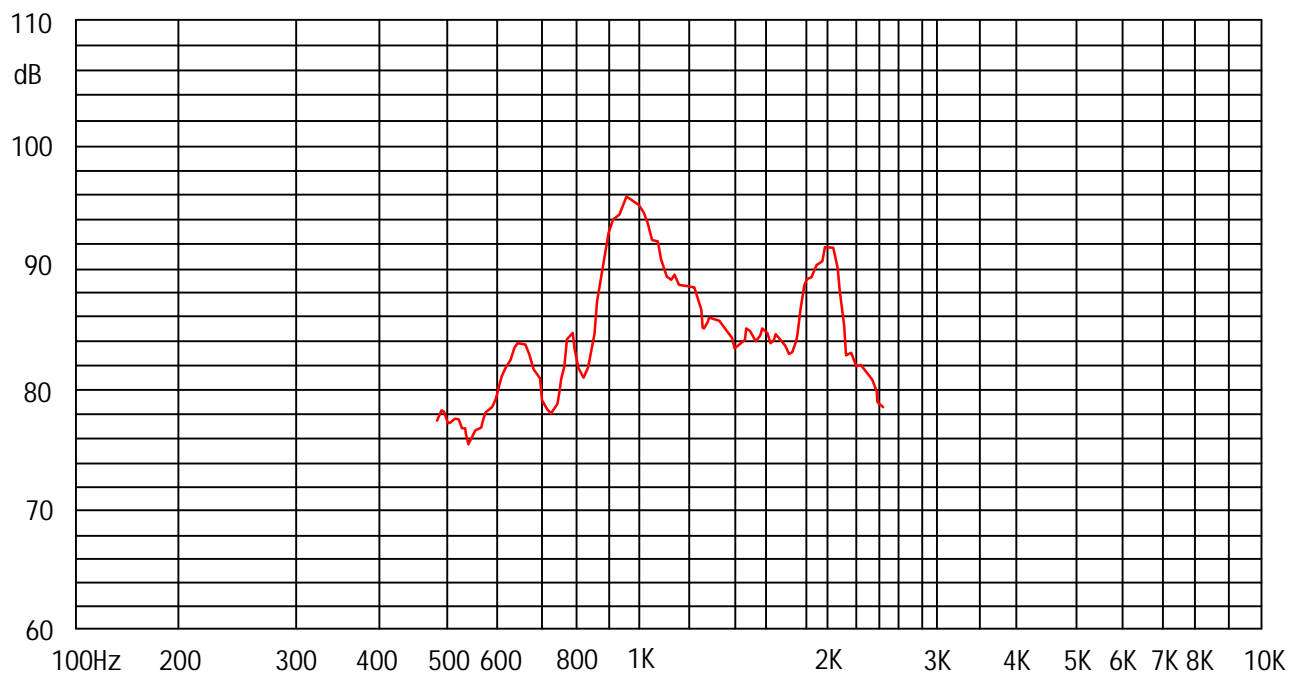


C	2015/09/25	常琦	change the frequency	Date:	2015/09/25	BMT2512H12-04 LF	
B	09/06/03	魏奉玲	RohS	Drawn by:	常琦		
A	01/06/20	胡海青		Checked by:	陶红仲	Transducer	
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1.3 Frequency response (square wave 12Vo-p 10cm)

MLS-Frequency Response

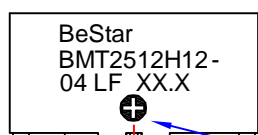
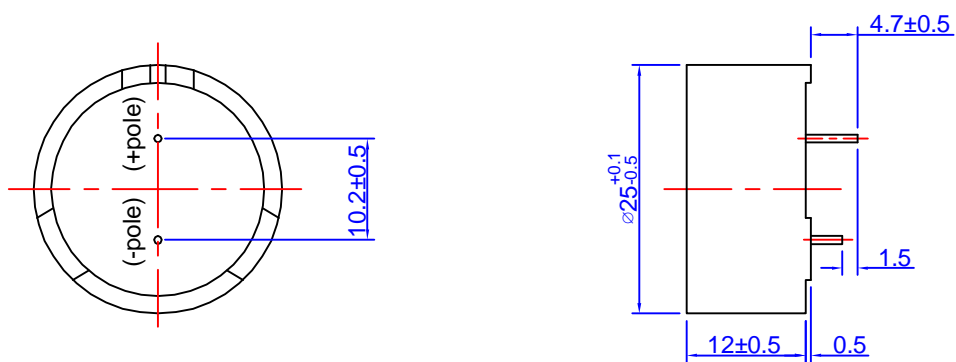


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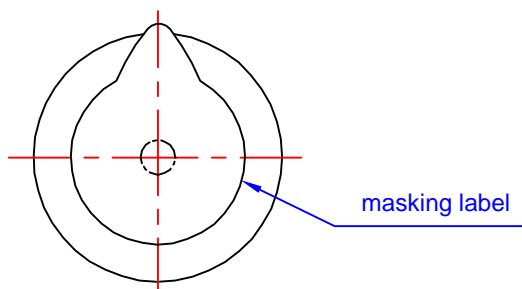
2. Dimension



Remark:
 Color of printing:golden
 "XX . X" means "year.month"
 E.g : Jun, 2009 is "09.F"

2- \varnothing 0.8±0.05

Unit:mm Tolerance:±0.3



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3. Reliability test

3.1 high temperature test

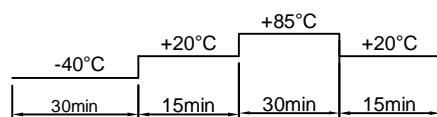
Temperature +85°C
Duration 96hrs

3.2 low temperature test

Temperature -40°C
Duration 96hrs

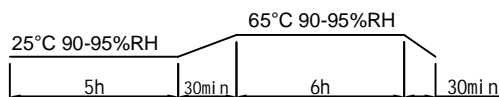
3.3 temperature cycle test

Cycles 5



3.4 Humidity cycle test cycles

10



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

3.5 Life test in high temperature

Power supply 12V o-p 1000Hz with duty of 50%
Temperature +85°C
Duration 500hrs

3.6 Life test in low temperature

Power supply 12V o-p 1000Hz with duty of 50%
Temperature -40°C
Duration 500hrs

3.7 Vibration Test

Vibration Frequency 10-55Hz
Amplitude 1.5mm
Direction x,y&z
Duration 2hrs each direction(total 6hrs)

3.8 Drop Test

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

3.9 Solderability test

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

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

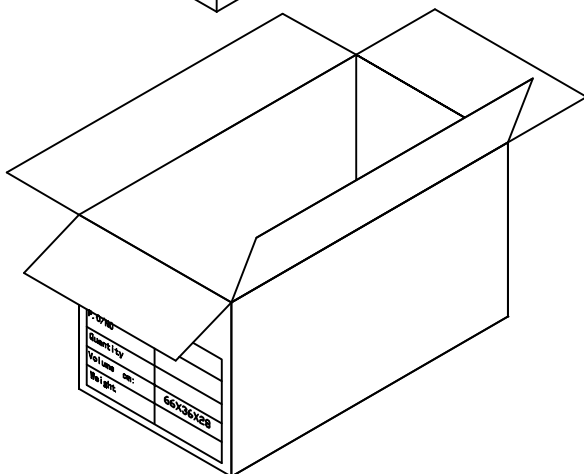
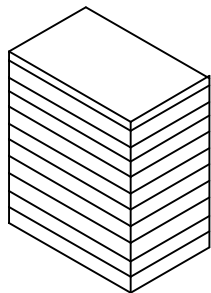
Notice: After the test the part shall meet specifications without any degradation and performance except S.P.L, S.P.L shall be 85dB or more

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4. Packing



- 1) 50pcs/tray
- 2) 40trays/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

version No.	Change Items		Date	Drawn	Approved
	Before	After			
A			01/06/20	胡海青	邵凯
B		RohS	09/06/03	魏奉玲	陶红仲
C	1000~1500Hz	1000Hz	2015/09/25	常琦	张秀琴

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