	SPECIFICATION		
	FOR ELECTRO-MAGNET TRANSDUCER		
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			RoHS

Customer		Model Name	BMT2512H13 LF
Customer P/N		Product No.	010109
Date	12 Sep. 06	Issue No.	BS/TET01.170A
Page	01 of 06	Issue Date	06/09/12

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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BMT2512H13 LF



1.Characteristics

1.1Technical terms

No.	Item	Specifications
1	Operating Voltage	8...16V o-p
2	Rated Voltage	12V o-p
3	DC Coil Resistance at 25 °C	110 Ω ±16ohm
4	****Coil Impedence at 25 °C	140±28 Ω
5	*****Coil current at25 °C	40mA
6	* Sound Output at 10cm	85~100dB
7	**	84~94dB
8	***	78~88dB
9	Resonant Frequency	740Hz
10	Operating Temperature	-40...+85 °C
11	Storage Temperature	-40...+85 °C
	Weight	8.5g
	* Value applying 740Hz,square wave 12V o-p with 40%duty	
	** Value applying 780Hz,square wave 12V o-p with 15% duty	
	*** Value applying 1000Hz, square wave 12V o-pwith 50% duty	
	**** Value applying (1000Hz,sine wave,measuring current 60 μA)	
	***** Value applying 740Hz, square wave 12V o-p with15% duty	

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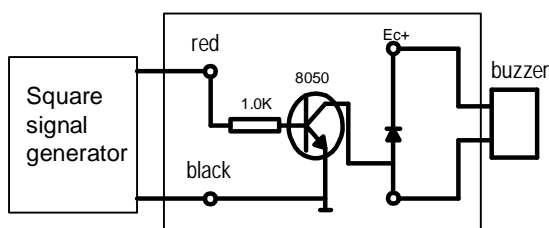
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1.2 Test method:

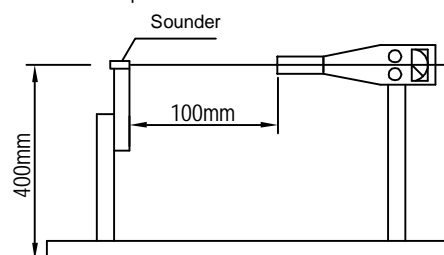
1.2.1.Recommended Circuit

the following are examples of externally driven circuits.

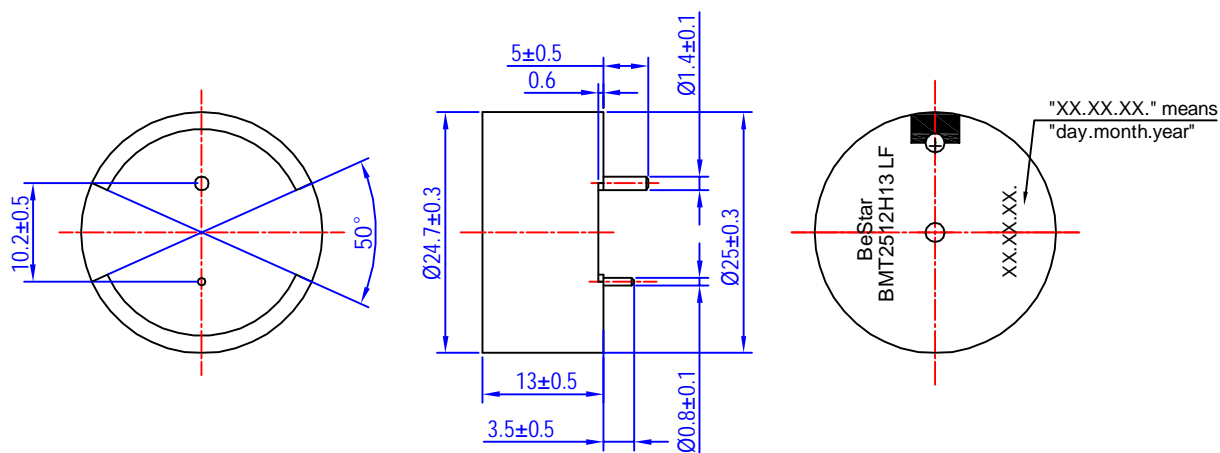


1.2.2.Standard test Fixture

No reaction in space with in 400mm in all direction



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

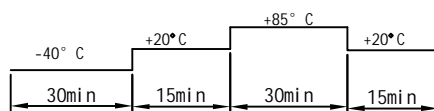
Duration

96hrs

3.3 Temperature cycle test

Cycles

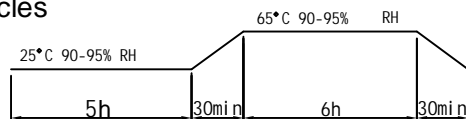
5



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

12V 740Hz with duty of 15%

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

3.8 Solderability test

Solderability temperature

255±5° C

Heat applying time

3±0.5sec

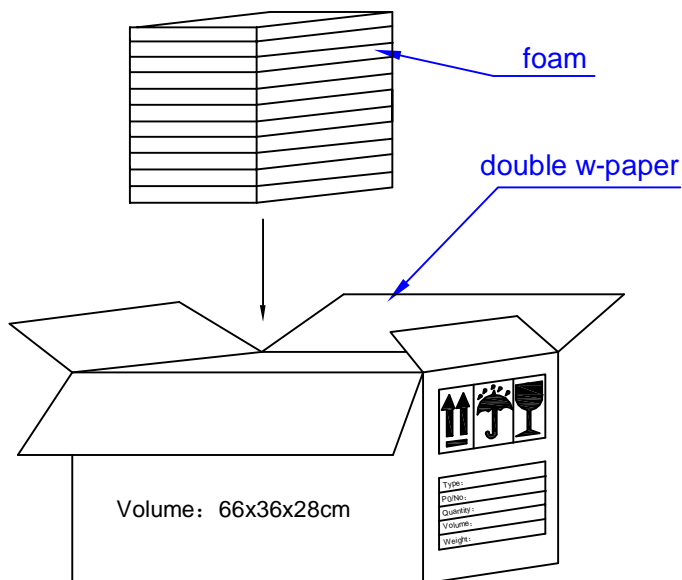
Notice: After teh test the part shall meet specifications without any degrance and performance except S.P.L,S.P.L shall be 70dB or more

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4. Packing



- 1)50pcs/tray
- 2)40trays/carton
- 3)2000pcs/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

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