

SPECIFICATION FOR ELECTRO -MANGNETIC TRANSDUCER

Customer	
Customer P/N	
BeStar Model Name	BMT0903H5.5-01 LF
Product No.	010712
Issue No.	BS/TET01.522B
Issue Date	07.10.18

Approval:

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

Drawn by	Checked by	Approved by	Customer approved

For conform to the European Union Directive on the Restriction of Hazardous Substances(RoHS), this type of productions forbid use all the hazardous substances as follow:

Lead
Cadmium
Mercury
Hexavalent chromium
Polybrominated biphenyls (PBB)
Polybrominated diphenyl ethers (PBDE)



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BMT0903H5.5-01 LF



1. Characteristics

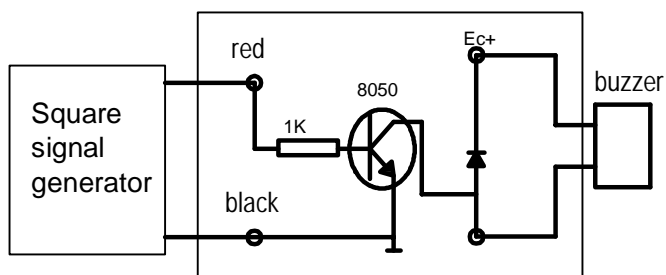
1.1 Electrical and Mechanical Characteristics

No.	Item	Specification
1.	Rated Voltage(Square Wave)	3Vo-p
2.	Operating Voltage	2...6Vo-p
3.	a)Rated Current	max.80mA
4.	Coil Resistance	25 ± 4Ω
5.	b)Coil Impedance	45Ω
6.	a)Sound Output at 10cm	Min.82dB
7.	Rated Frequency	2731Hz
8.	Operating Temperature	-25...+70°C
9.	Storage Temperature	-40...+80 °C
10.	Weight	1g
a)Value applying at rated voltage.(2731Hz, square wave,1/2duty)		
b)Value applying 2731Hz,sine wave,measuring 60 μA		

1.2 Test method:

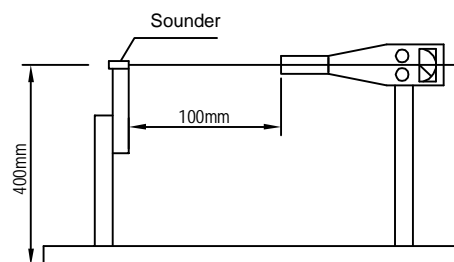
1.21.Recommended Circuit

the following are examples of externally driven circuits.



1.22.Standard test Fixture

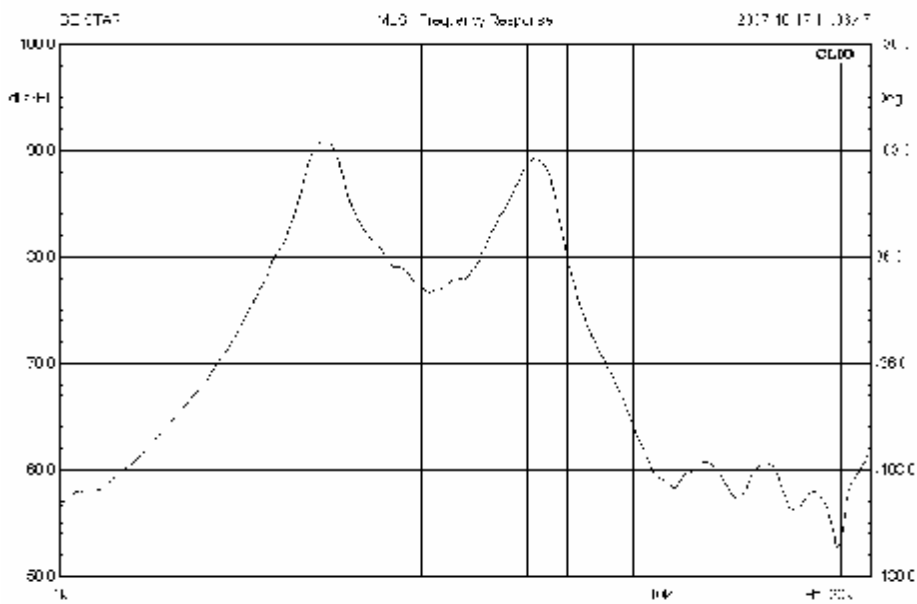
No reaction in space with 40mm in all direction



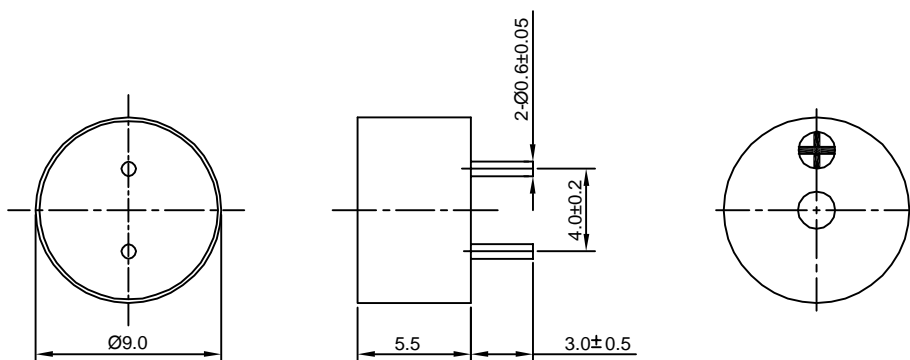
				Date:	07.10.18	BMT0903H5.5-01 LF	
B	07.10.18	魏奉玲		Drawn by:	魏奉玲		
A	05.10.12	韩学慧		Checked by:	陶红仲	Transducer	
REV.	Date	Drawn	Note	Approved by:	张秀琴		
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1.3 Frequency Response(Square wave 3Vo-p 10cm)



2. Dimension



Tolerance: ± 0.3 Unit:mm

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3. Reliability test

3.1 High temperature storage test

Temperature +80 °C
Duration 96hrs

3.2 Low temperature storage test

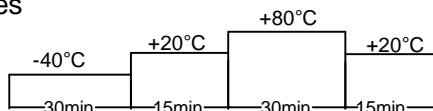
Temperature -40 °C
Duration 96hrs

3.3 Life test in normal temperature

Power supply Rated voltage
Duration 1000hrs

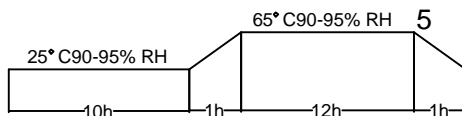
3.4 Temperature cycle test

Cycles 5



3.5 Humidity cycle test

Cycles 5



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

3.6 Vibration Test

Vibration Frequency 10~55Hz
Amplitude 1.53mm
Direction 3(x.y&z)
Duration 2hrs each direction (total 6 hrs)

3.7 Drop test

Height 70cm
(to 10mm thickness woodenboard)

Direction 3(x.y&z)

3.8 Solderability Test

Soldering Temperature 2 55° C
Duration 3 sec

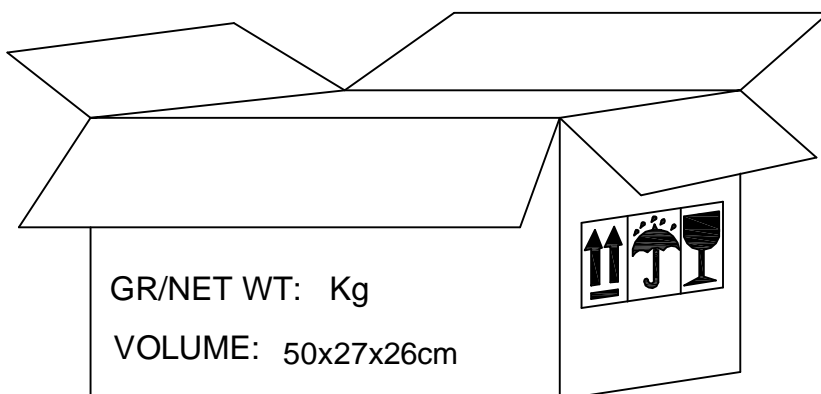
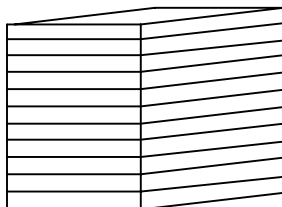
Notice: All specifications must be satisfied in this condition.

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4. Packing



- 1)100pcs/tray
- 2)30trays/carton
- 3)3000 pcs/carton in total
- 4)carton size 50x27x26cm

5. Notice

5.1 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.

5.2 Expire Date on Storage

Expire date (Shelf life) of the products is six months after delivery 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.

5.3 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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