

MAGNETIC TRANSDUCER

Customer	
Customer P/O	
BeStar Model Name	BMT1212H09
Product No.	010406
Issue No.	BS/TET01.016A
Issue Date	02/07/01

Approval :

- 1.Characteristic
- 2.Drawing
- 3.Reliability Test
- 4.Packing



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BMT1212H09

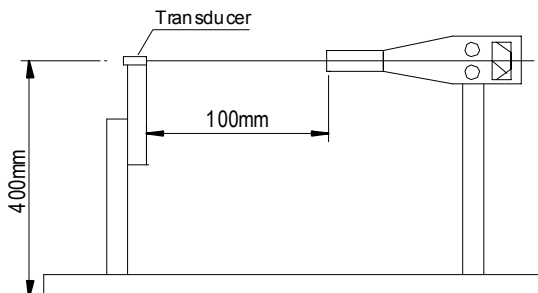
1. Characteristic

★ Electrical and Mechanical Characteristics



No.	Item	Specification
1.	Rated Voltage	12 V
2.	Operating Voltage	7...16V
3.	a) Rated Current	max 40mA
4.	Coil Resistance	140 ± 14ohm
5.	b) Coil Impedance	240ohm
6.	a) Sound Output at 10cm	min 85 dB
7.	Resonance Frequency	2400 ± 200Hz
8.	Housing Material	NORYL
9.	Working Temperature	-40...+85 °C
10.	Storage Temperature	-40...+85 °C
	a) Value applying at rated voltage (2400Hz, 1/2 duty square wave)	
	b) Value applying at rated voltage (2400Hz, sine wave measuring current 60 μ A)	

★ Standard Output Measurement Setup



Standard Conditions

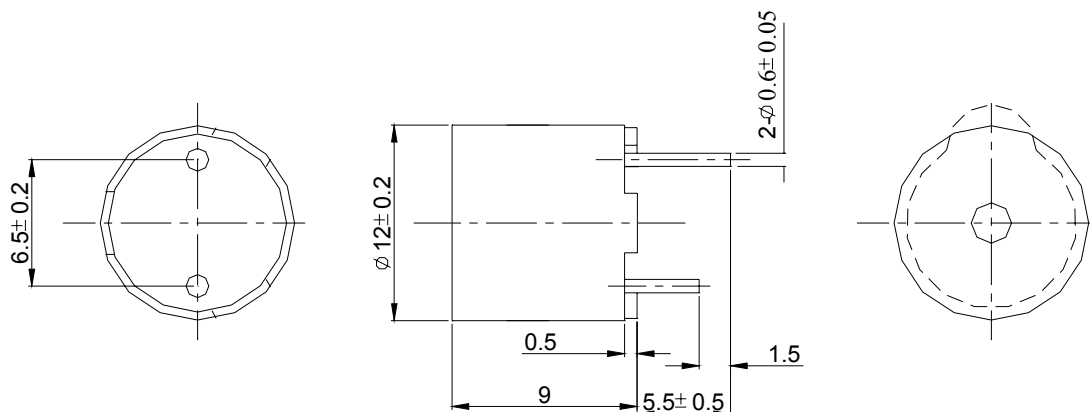
Temperature: 17~25°C
 Relative Humidity: 45~85 % (RH)
 Air Pressure: 860~1060hPa

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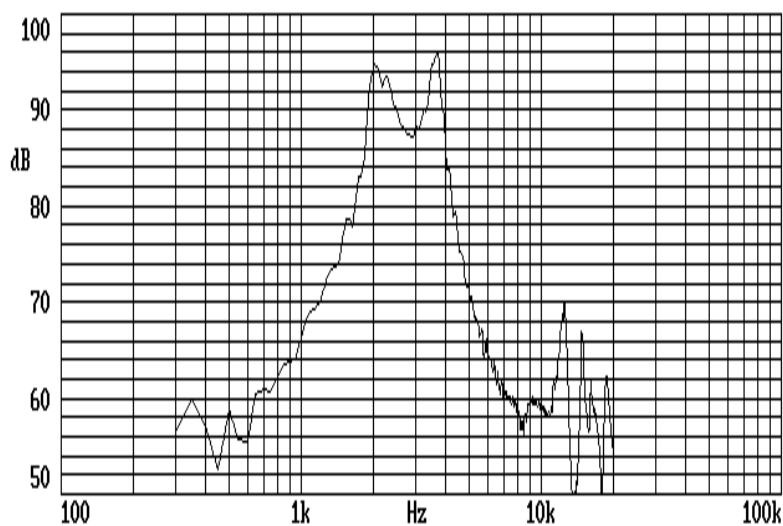
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2. Drawing

Tolerance: ± 0.5



★Frequency Response



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BMT-1212S

Transducer

DRG NO
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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

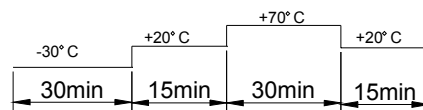
Duration

96hrs

3.3 Temperature cycle test

Cycles

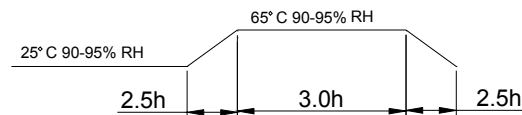
5



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 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

70cm

(to 10mm thickness woodenboard)

Direction

3

3.8 Solderability test

Solderability temperature

255° C

Heat applying time

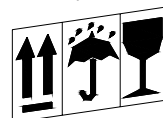
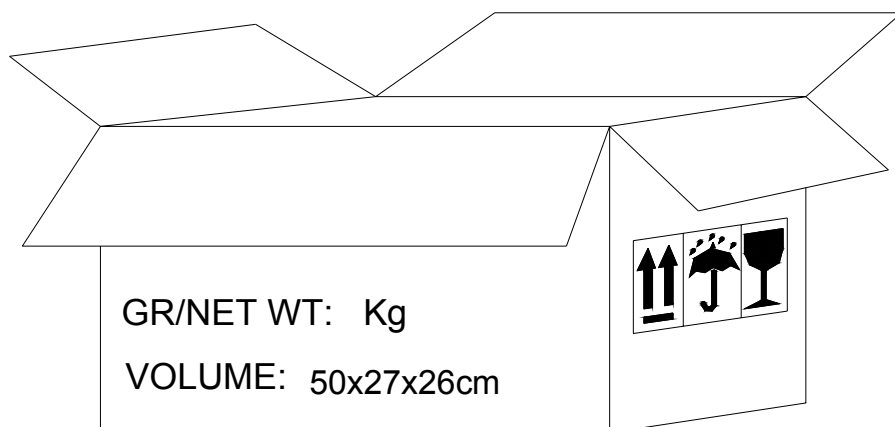
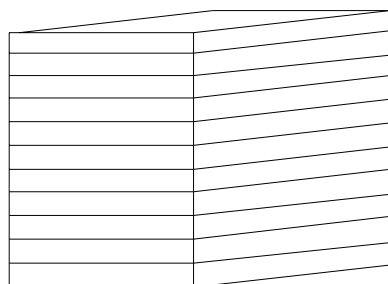
3sec

Notice: After the test the part shall meet specifications without any degrance and performance except S.P.L, S.P.L shall be 77dB more .

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4. Packing



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

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