

## 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

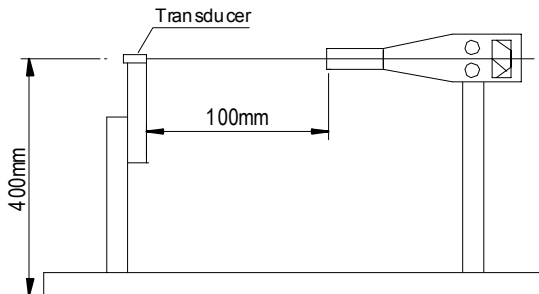


## 1. Characteristic

### ★ 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 at10cm	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,1/2duty 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

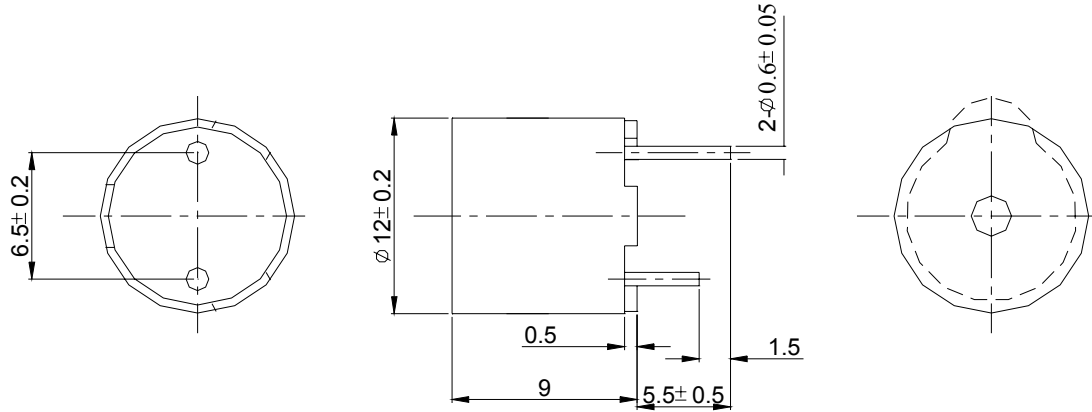
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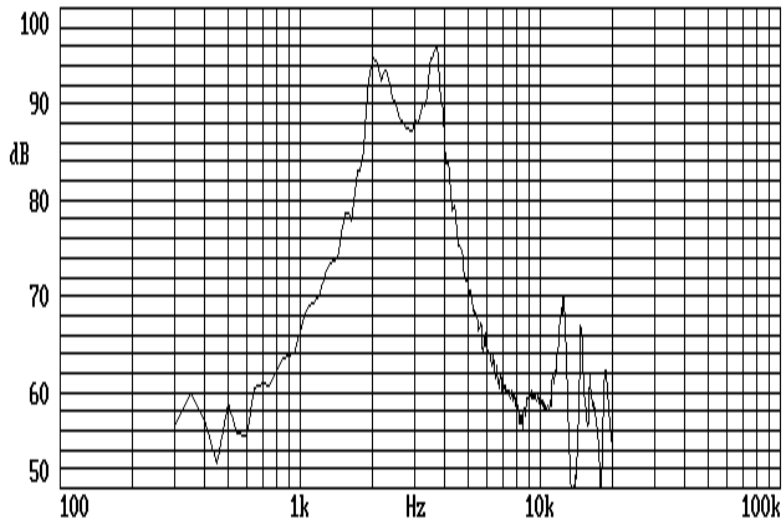
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## 2. Drawing

Tolerance:  $\pm 0.5$



### ★Frequency Response



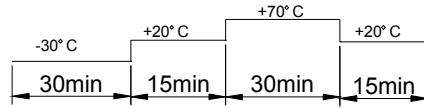
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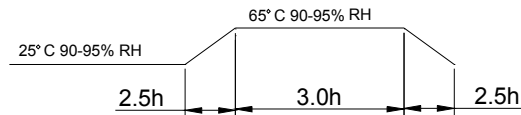
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## 3. Reliability test

- 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 degraance and performance except S.P.L, S.P.L shall be 77dB more .

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