

# HITPOINT

TEL:8862-26013311

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NO.4 Lane 505, Zhongzheng Rd., Linkou Shiang, Taipei, Taiwan 24445 . R.O.C

## PB-12M21PQ

(RoHS)

DATE:2007.09.11

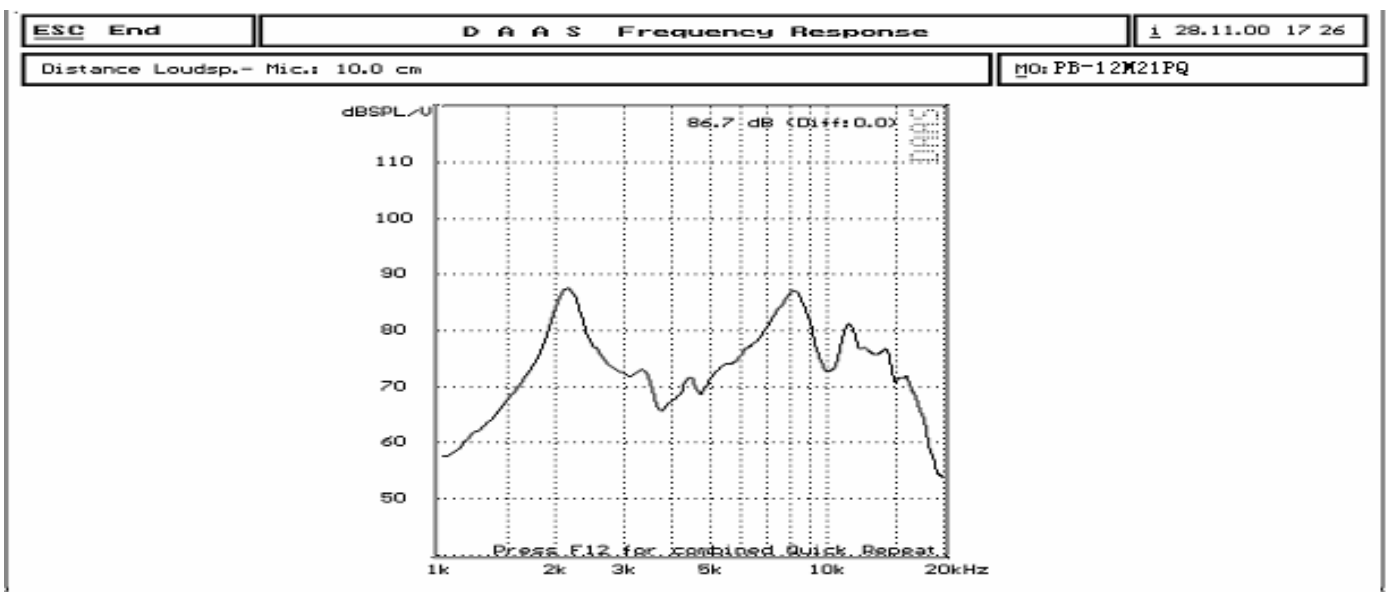
### 1 . Electrical Characteristics

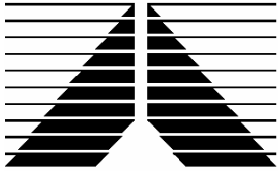
VER .:1

Oscillation Frequency (Hz)	2048
Operating Voltage (Vp-p)	1.25 ~ 2.5
Rated Voltage (Vp-p)	1.5
Current Consumption (mA/max.)	15 at Rated Voltage
Sound Pressure Level (dB/min.)	80 at 10cm at Rated Voltage
Coil Resistance ( $\Omega$ )	$42 \pm 2$
Operating Temperature ( $^{\circ}\text{C}$ )	-20 ~ +70
Storage Temperature ( $^{\circ}\text{C}$ )	-30 ~ +80

PS : Vp-p=1/2duty , square wave

### 2 . Typical Frequency Response Curve





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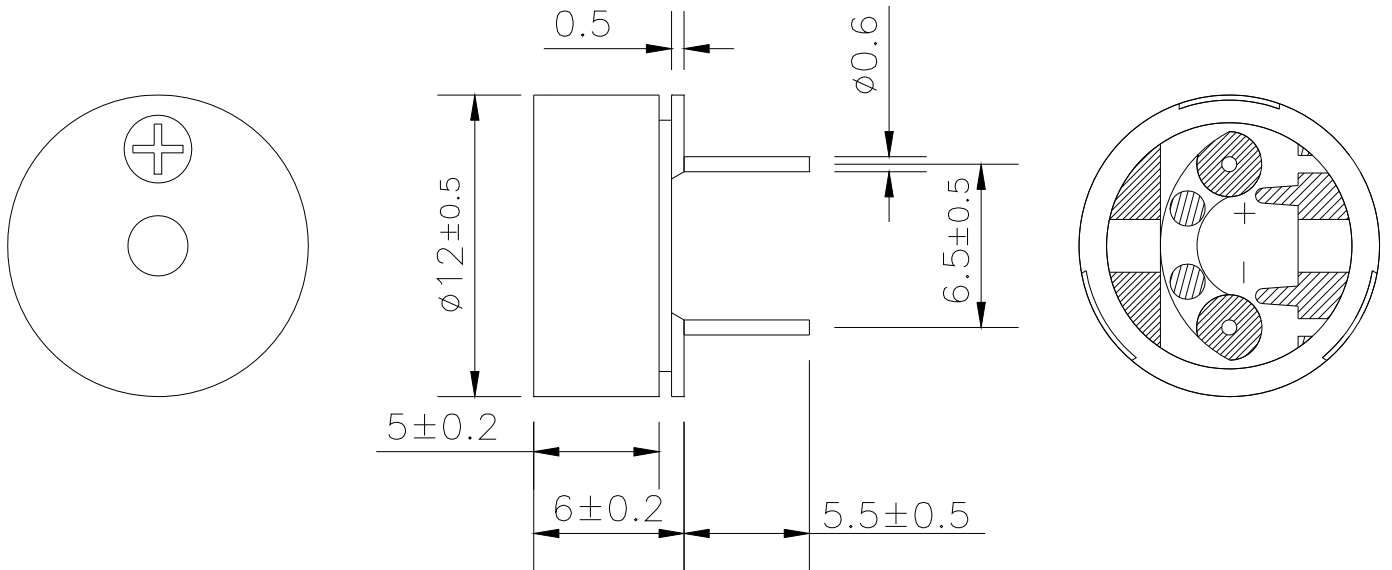
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### 3 . Dimensions and Material

#### 3-1 Shape

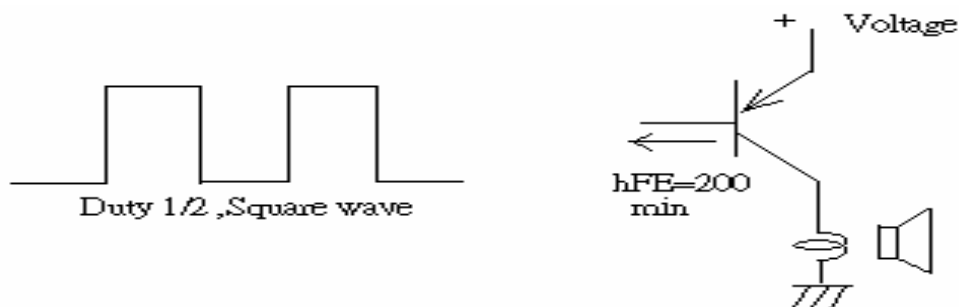


Unit : mm

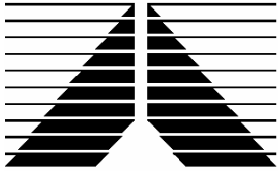
#### 3-2 Material

Housing	PPO plastic resin (Color : Black)
Leading Pin	Tin Plated Brass
Weight (Gram)	1.1

### 4 . Recommend Driving Circuit



The base current  $I_b$  should high enough so that it saturates the collector current of the transistor with the CB load.



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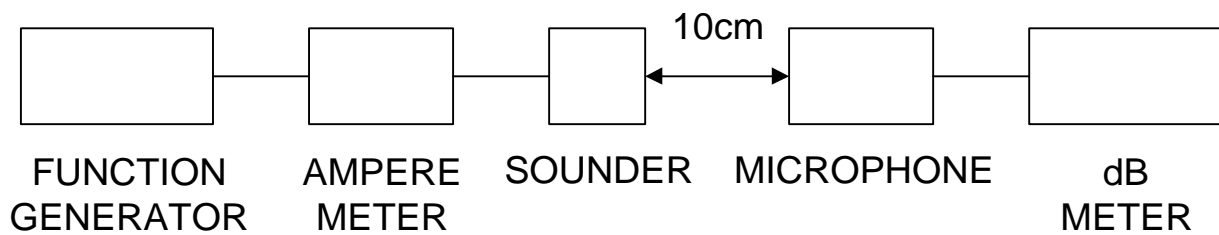
## 5. TESTING METHOD

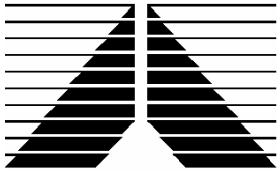
### • *Standard Measurement conditions*

*Temperature:25±2 °C Humidity:45-60%*

### • *Acoustic Characteristics*

*The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below.*





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## 6. RELIABILITY

<b>ITEMS</b>	<b>METHOD OF TEST AND MEASUREMENTS</b>	<b>PERFORMANCE</b>
<i>Coldness withstanding</i>	<i>After 98 hours of being exposed to -30℃ environment, should be returned to normal environment for 2 hours, then re-proceed to test.</i>	<i>No abnormality shall exist</i>
<i>Hotness withstanding</i>	<i>After 98 hours of being exposed to +80℃ environment, should be returned to normal environment for 2 hours, then re-proceed to test.</i>	<i>No abnormality shall exist</i>
<i>Humidity withstanding</i>	<i>After 98 hours of being exposed to 40℃ 95%RH environment in actual operation, should be returned to normal environment for 2 hours, then re-proceed to test.</i>	<i>No abnormality shall exist</i>
<i>Durability</i>	<i>Testing after 1,000 hours actual continuous operation. (at standard measurement conditions)</i>	<i>No abnormality shall exist</i>
<i>Drop withstanding</i>	<i>A natural drop from 75cm high down to the ground.</i>	<i>No abnormality shall exist</i>
<i>Vibration withstanding</i>	<i>Vibration of 2,000 cycles per minute, 2mm amplitude, applied in X, Y and Z directions for 30 minutes each.</i>	<i>No abnormality shall exist</i>

## 7. PACKAGE METHOD

<1> 100pcs per box , Total 10 boxes per carton , total 1000pcs carton;

Volume: L\*W\*H=520\*335\*290mm

<2>N . W . : 1.1KGS ; G . W . : 2.3KGS ;

<3> RoHS Mark: