



# HITPOINT

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

## PB-1220PE-05Q

(ROHS)

DATE:2005.01.21

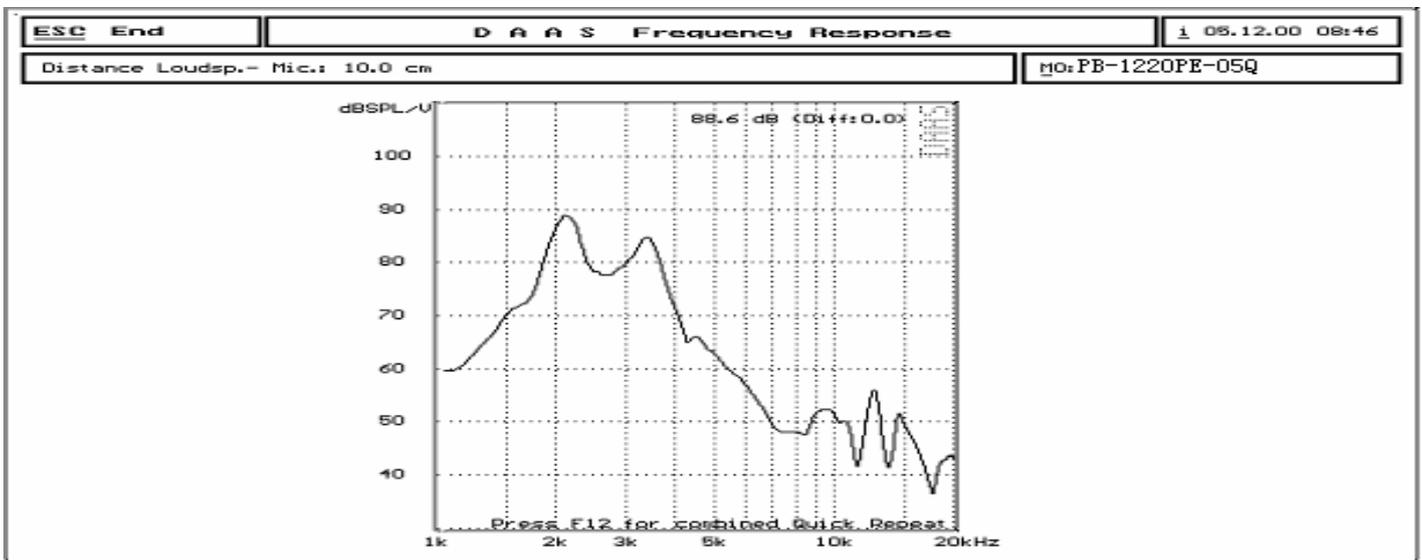
### 1 . Electrical Characteristics

VER :0

Oscillation Frequency (Hz)	2048
Operating Voltage (Vp-p)	4.5 ~ 5.5
Rated Voltage (Vp-p)	5.0
Current Consumption (mA/max.)	60 at Rated Voltage
Sound Pressure Level (dB/min.)	85 at 10cm at Rated Voltage
Coil Resistance ( $\Omega$ )	$40 \pm 5$
Operating Temperature ( $^{\circ}\text{C}$ )	$-20 \sim +70$
Storage Temperature ( $^{\circ}\text{C}$ )	$-30 \sim +80$
Wave soldering conditions	$245 \pm 5^{\circ}\text{C}$ for $3 \pm 0.5$ seconds.
Manual soldering conditions	$350 \pm 20^{\circ}\text{C}$ / within 5sec

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

### 2 . Typical Frequency Response Curve





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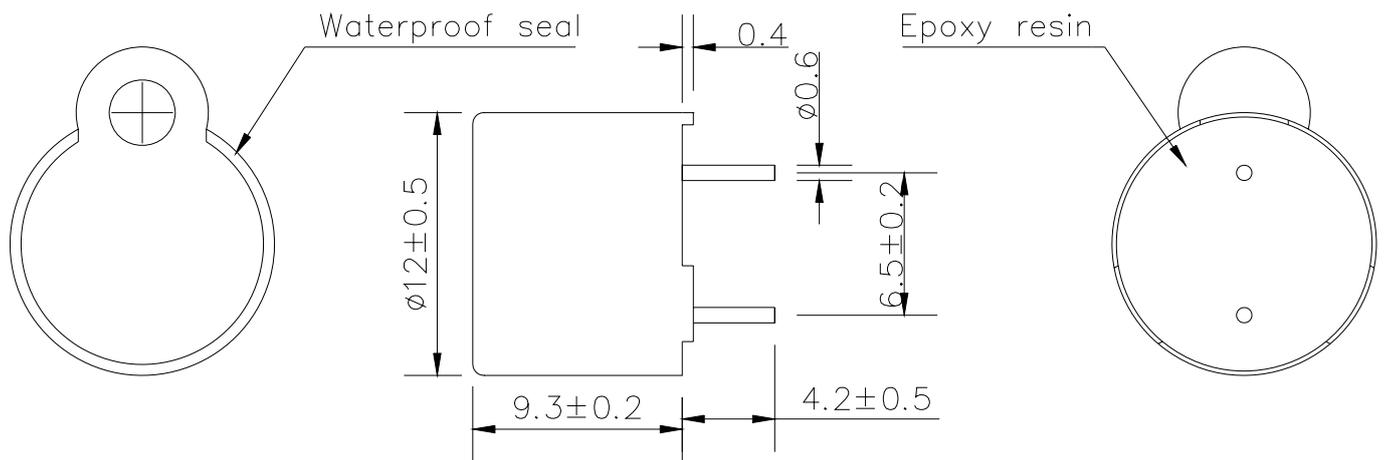
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### 3 . Dimensions and Material

#### 3-1 Shape

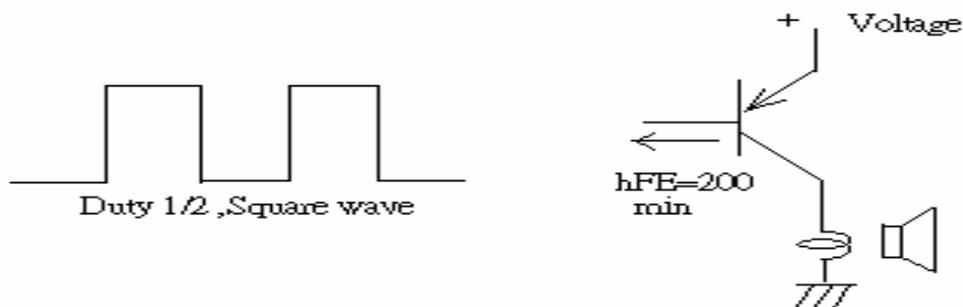


Unit : mm

#### 3-2 Material

Housing	PPO plastic resin (Color : Black)
Leading Pin	Tin Plated Brass
Weight (Gram)	1.4

### 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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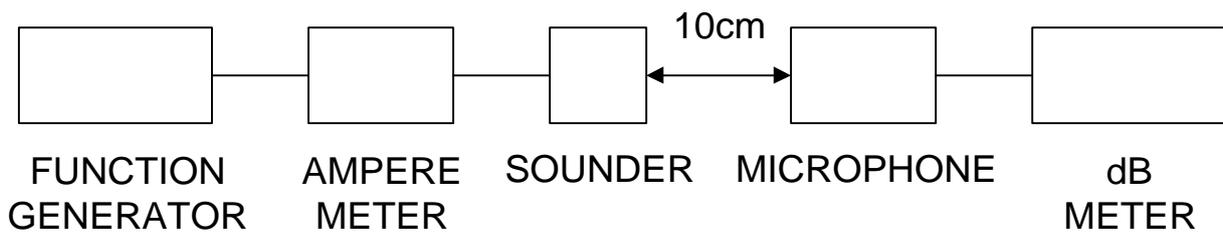
## 5. TESTING METHOD

### • *Standard Measurement conditions*

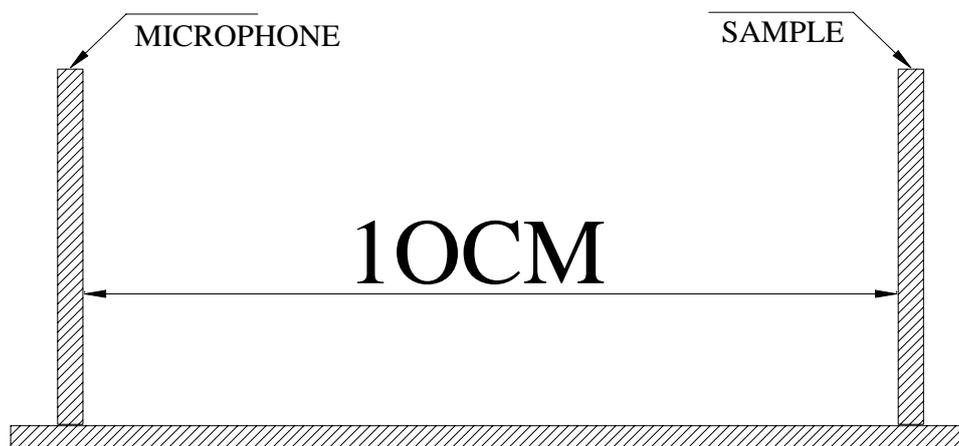
*Temperature:25±2°C Humidity:45-60%*

### • *Acoustic Characteristics*

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



*In the measuring test, buzzers is placed as follows:*





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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=510\*330\*300mm

< 2 > RoHS Mark

