



# HITPOINT

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

## PB-1220PF-01Q

(ROHS)

DATE:2005.01.21

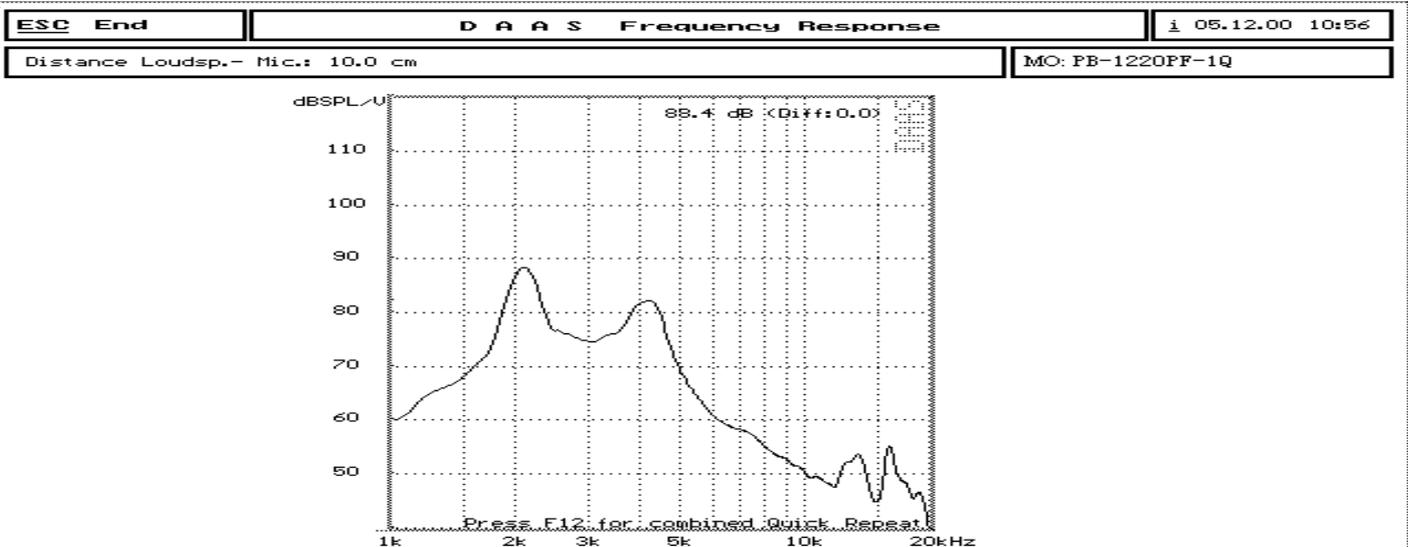
### 1 Electrical Characteristics

VER.:0

Oscillation Frequency (Hz)	2048
Operating Voltage (Vdc)	1.25 ~ 2.5
Rated Voltage (Vdc)	1.5
Current Consumption (mA/max.)	40 at Rated Voltage
Sound Pressure Level (dB/min.)	88 at 10cm at Rated Voltage
Coil Resistance ( $\Omega$ )	$16 \pm 2$
Operating Temperature ( $^{\circ}\text{C}$ )	$-20 \sim +60$
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 :  $V_{p-p} = 1/2$ duty , square wave

### 2 Typical Frequency Response Curve



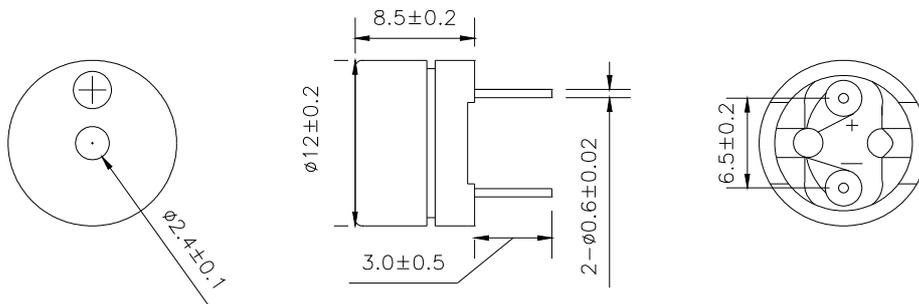


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### 3 Dimensions and Material

#### 3-1 Shape

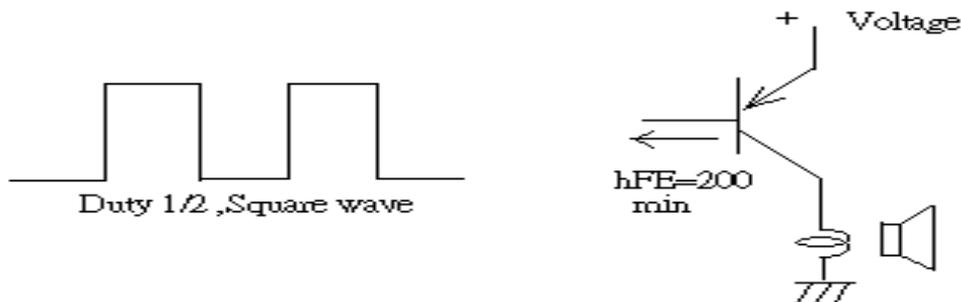


Unit : mm 3-2

#### Material

Housing	PPO plastic resin (Color : Black)
Leading Pin	Tin Plated Brass
Weight (Gram)	1.3

#### 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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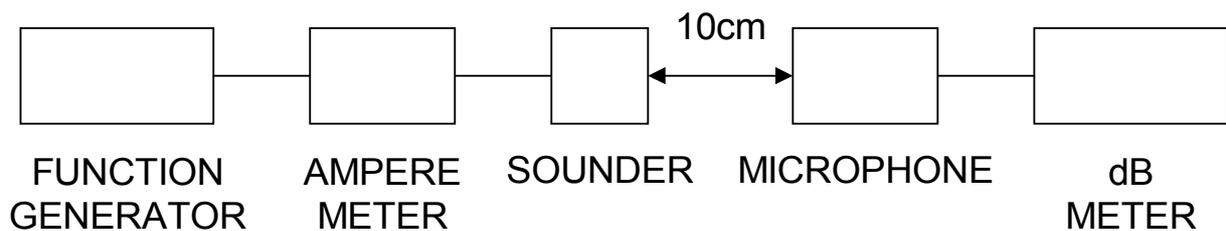
## 5. TESTING METHOD

### *Standard Measurement conditions*

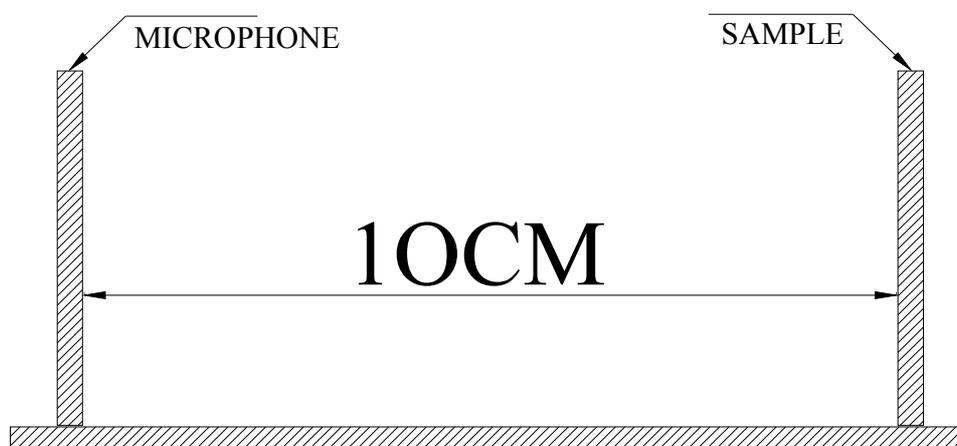
*Temperature:  $25 \pm 2^\circ\text{C}$  Humidity: 45-60%*

### *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°C 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°C 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°C 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

