



# HITPOINT

TEL:8862-26013311

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

## PB-12N23P-03Q

(RoHS)

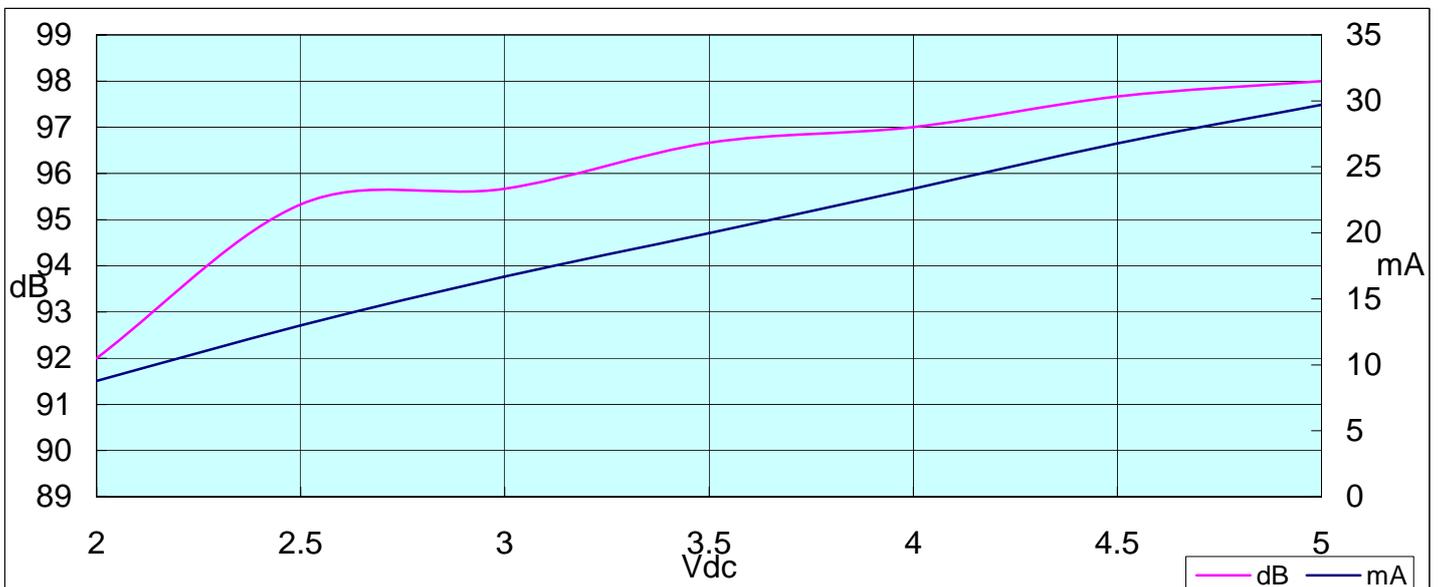
DATE:2005.01.21

### 1 . Electrical Characteristics

VER : 0

|                               |                             |
|-------------------------------|-----------------------------|
| Oscillation Frequency (KHz)   | 2.3 ± 0.4                   |
| Operating Voltage (Vdc)       | 2.0 ~ 5.0                   |
| Rated Voltage (Vdc)           | 3.0                         |
| Current Consumption (mA/max)  | 30 at Rated Voltage         |
| Sound Pressure Level (dB/min) | 85 at 10cm at Rated Voltage |
| Tone/Pulse Rate               | Constant                    |
| Operating Temperature (°C)    | -20 ~ +70                   |
| Storage Temperature (°C)      | -30 ~ +80                   |
| Wave soldering conditions     | 245±5°C for 3±0.5 seconds.  |
| Manual soldering conditions   | 350±20°C / within 5sec      |

### 2 . Voltage/ Current / Sound Pressure





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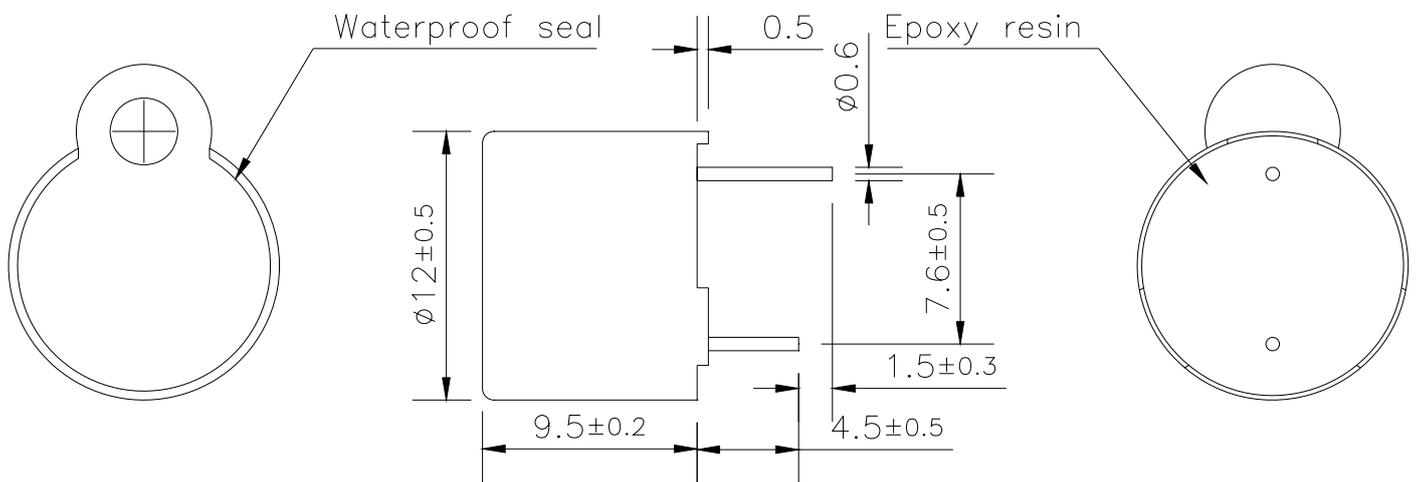
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### 3 . Dimensions and Material

#### 3-1 Shape



Unit : mm

#### 3-2 Material

|               |                                   |
|---------------|-----------------------------------|
| Housing       | PPO plastic resin (Color : Black) |
| Leading Pin   | Tin Plated Brass                  |
| Weight (Gram) | 1.8                               |



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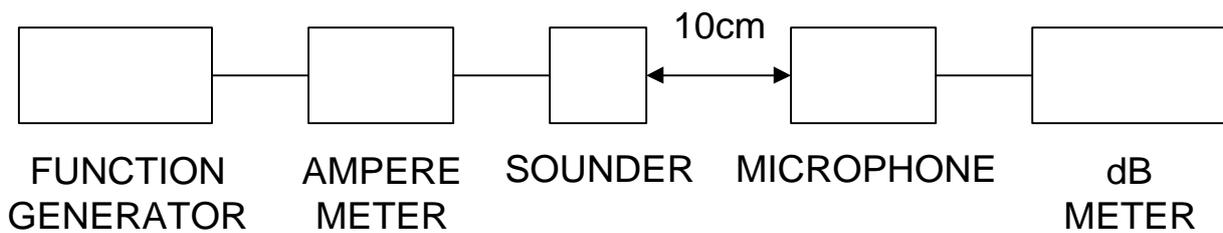
## 4. TESTING METHOD

### • *Standard Measurement conditions*

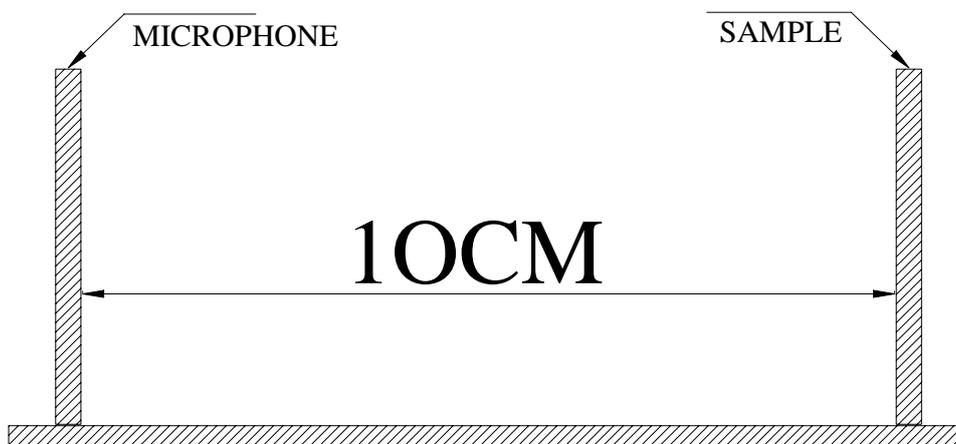
*Temperature:25±2°C Humidity:45-60%*

### • *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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## 5. RELIABILITY

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

## 6. PACKAGE METHOD

<1> 100pcs per box , Total 10 boxes per carton , total 1000pcs carton;  
Volume: L\*W\*H=510\*330\*300mm

< 2 > RoHS Mark

