



# HITPOINT

TEL:8862-26013311

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

## PB-12N24M-12Q

(RoHS)

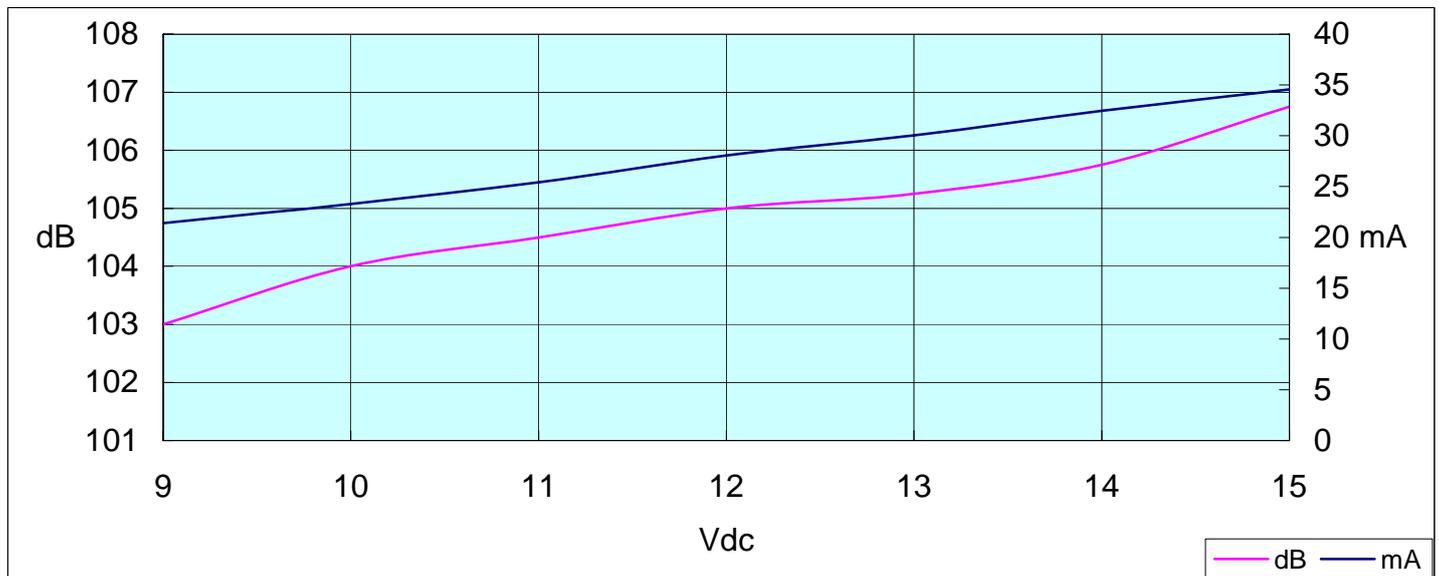
DATE:2005.01.22

### 1 . Electrical Characteristics

VER :0

Oscillation Frequency (Hz)	2400 ± 300
Operating Voltage (Vdc)	9.0 ~ 15
Rated Voltage (Vdc)	12
Current Consumption (mA/max)	50 at Rated Voltage
Sound Pressure Level (dB/min)	90 at 10cm at Rated Voltage
Tone/Pulse Rate	Constant
Operating Temperature (°C)	-20 ~ +70
Storage Temperature (°C)	-30 ~ +80
Re-flow soldering conditions	245±5°C / 1min
Manual soldering conditions	350±20°C / within 5sec

### 2 . Voltage/ Current / Sound Pressure





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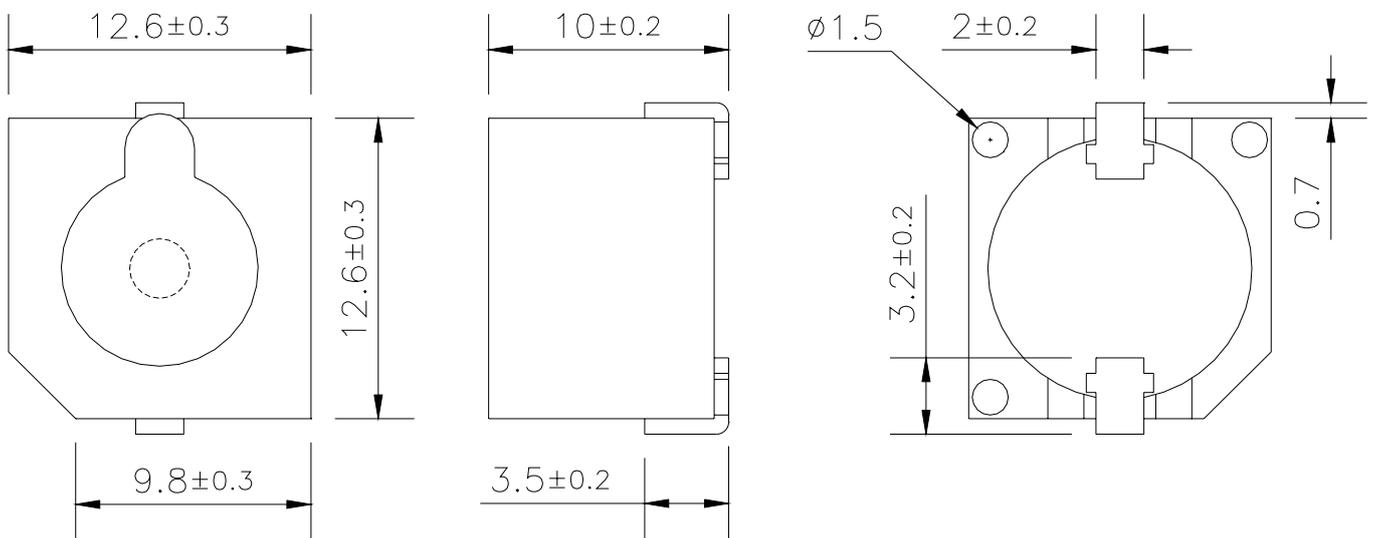
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### 3 . Dimensions and Material

#### 3-1 Shape



Unit : mm

#### 3-2 Material

Housing	PPO plastic resin (Color : Gray)
Type Of Connection Terminals	SMD
Weight (Gram)	2.8



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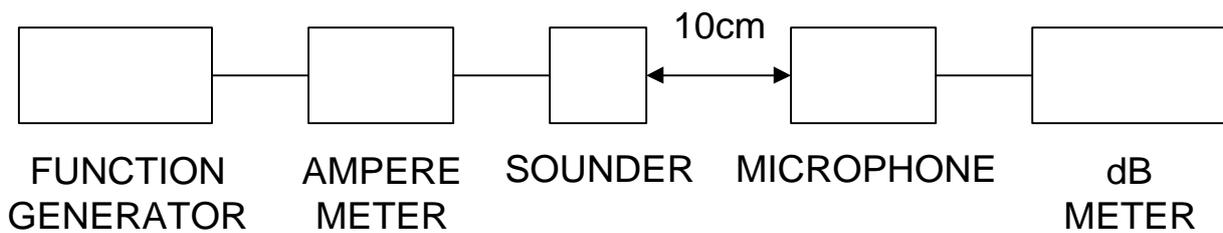
## 4. TESTING METHOD

### • *Standard Measurement conditions*

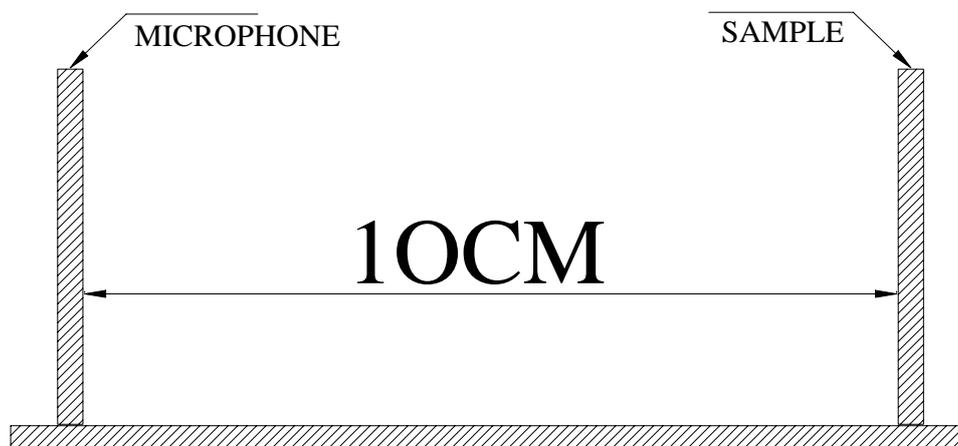
*Temperature:25±2°C Humidity:45-60%*

### • *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 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>

## 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

