



# HITPOINT

5, Zhongzheng Rd., Linkou Shiang, Taipei, Taiwan 24445 . R.O.C

## Magnetic Buzzer PB-09M27PE-05Q

(RoHS)

DATE:2010/5/27

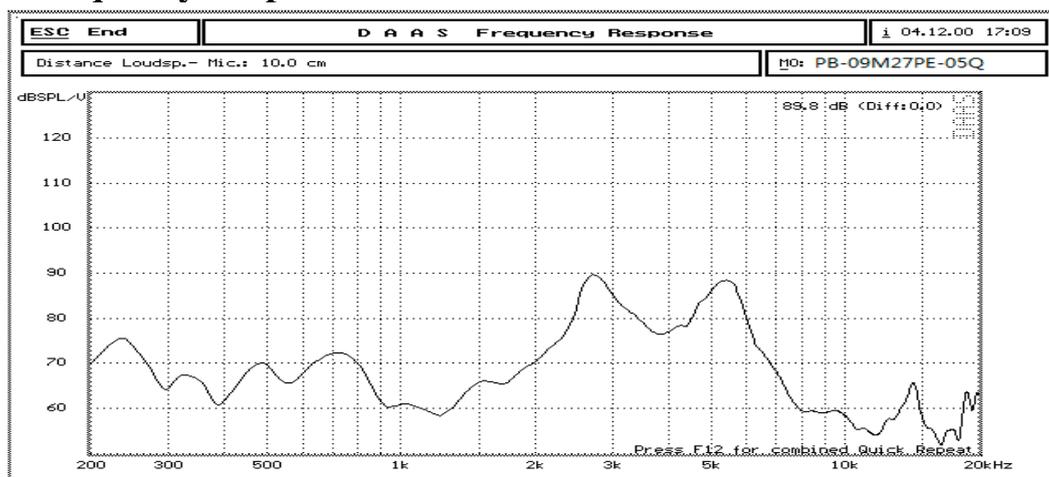
### 1 . Electrical Characteristics

VER :.0

Oscillation Frequency (Hz)	2731
Operating Voltage (Vp-p)	4.5 ~ 5.5
Rated Voltage (Vp-p)	5.0
Current Consumption (mA/max)	70 at Rated Voltage
Sound Pressure Level (dB/min)	85 at 10cm at Rated Voltage
Coil Resistance ( $\Omega$ )	$30 \pm 3$
Operating Temperature ( $^{\circ}\text{C}$ )	$-20 \sim +70$
Storage Temperature ( $^{\circ}\text{C}$ )	$-30 \sim +80$
Condition by wave ( $^{\circ}\text{C}$ )	$260 \pm 5 \square$ / within 5sec
Condition by hand ( $^{\circ}\text{C}$ )	$350 \pm 20 \square$ / within 5sec

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

### 2 . Typical Frequency Response Curve

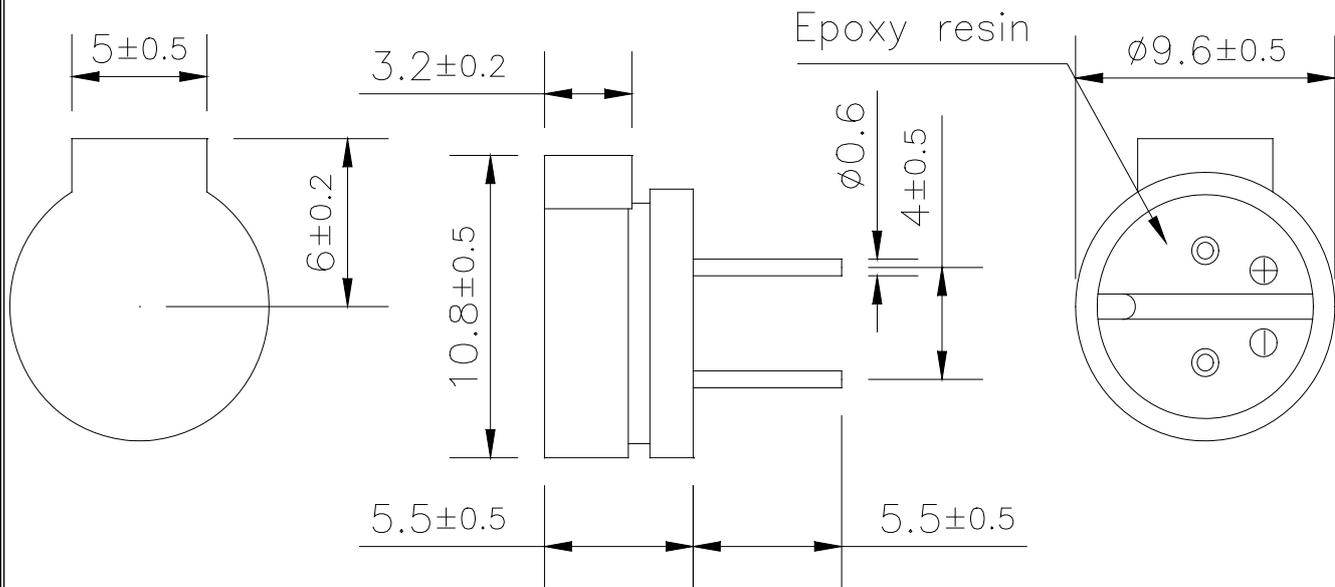


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### 3 . Dimensions and Material

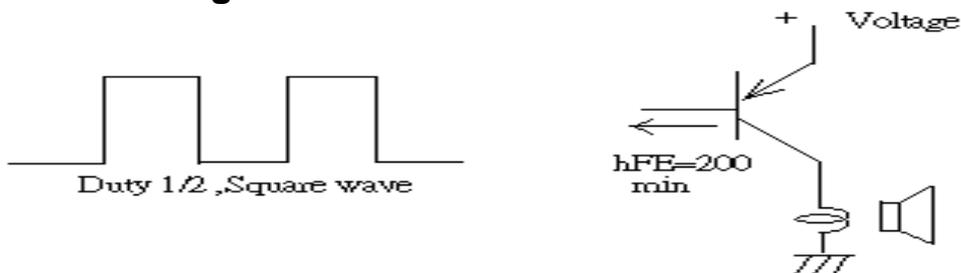
#### 3-1 Shape



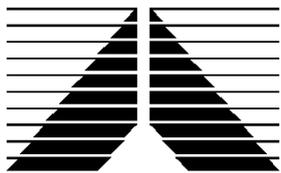
#### 3-2 Material

Housing	PPO plastic resin (Color : Black)
Leading Pin	Tin Plated Brass
Weight (Gram)	0.6

### 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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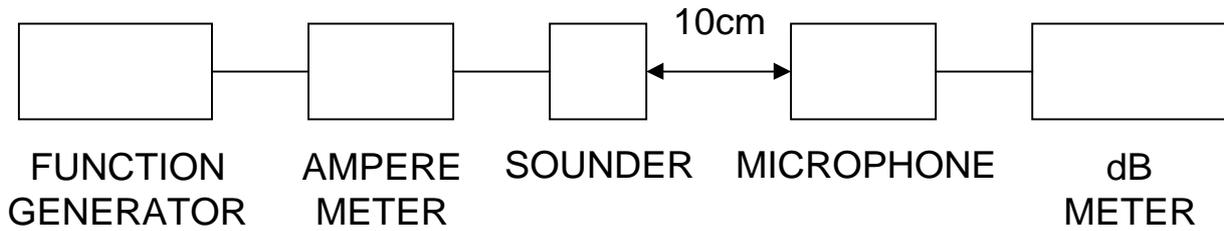
### 5. TESTING METHOD

#### · 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.



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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</i>	<i>A natural drop from 75cm high down to the</i>	<i>No abnormality</i>

<i>withstanding</i>	<i>ground.</i>	<i>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 40 boxes per carton , total 4000pcs carton;

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

<2>N . W . : 2.4KGS ; G . W . : 3.6KGS ;

<3> RoHS Mark