

# SHOGYO INTERNATIONAL CORPORATION

Tel: 516-921-911 Fax: 516-921-3777

E-mail: [INFO@SHOGYO.COM](mailto:INFO@SHOGYO.COM) Website: [WWW.SHOGYO.COM](http://WWW.SHOGYO.COM)

## “Magnetic Buzzer”

### SMX-2508

(RoHS)

DATE:2009.03.18

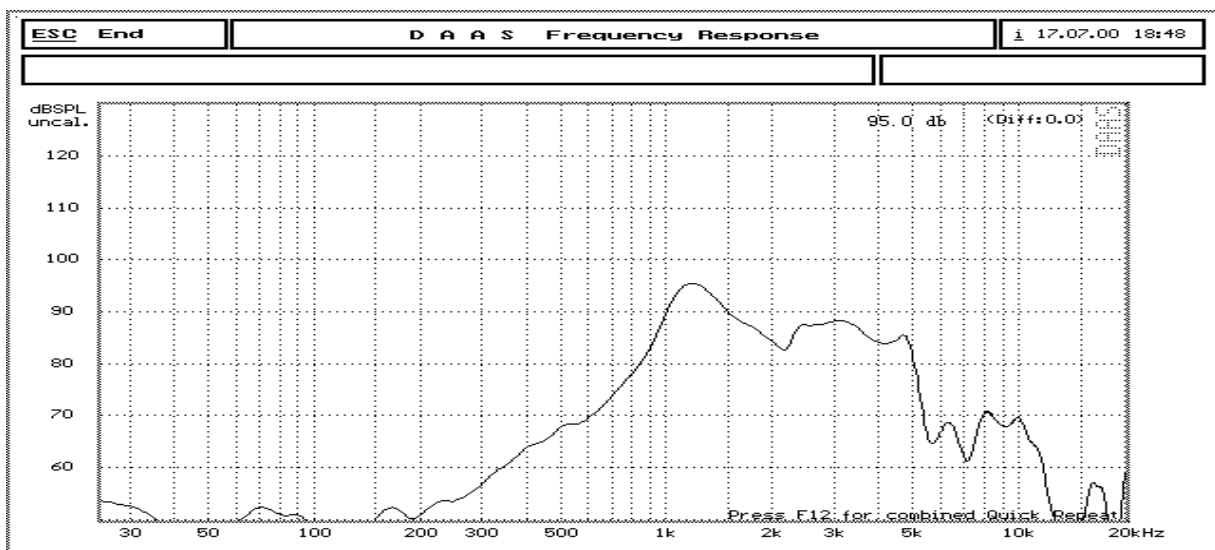
#### 1 . Electrical Characteristics

VER :3

Oscillation Frequency (Hz)	1500
Operating Voltage (Vp-p)	2.0 ~ 5.0
Rated Voltage (Vp-p)	3.0
Input Watt (W/max.)	0.15
Sound Pressure Level (dB/min.)	75 at 10cm at Rated Voltage
Coil Resistance ( $\Omega$ )	$8.0 \pm 2$
Operating Temperature ( $^{\circ}\text{C}$ )	-10 ~ +40
Storage Temperature ( $^{\circ}\text{C}$ )	-20 ~ +50
Condition by wave ( $^{\circ}\text{C}$ )	$260 \pm 5^{\circ}\text{C}$ / within 5sec
Condition by hand ( $^{\circ}\text{C}$ )	$350 \pm 20^{\circ}\text{C}$ / within 5sec

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

#### 2 . Typical Frequency Response Curve



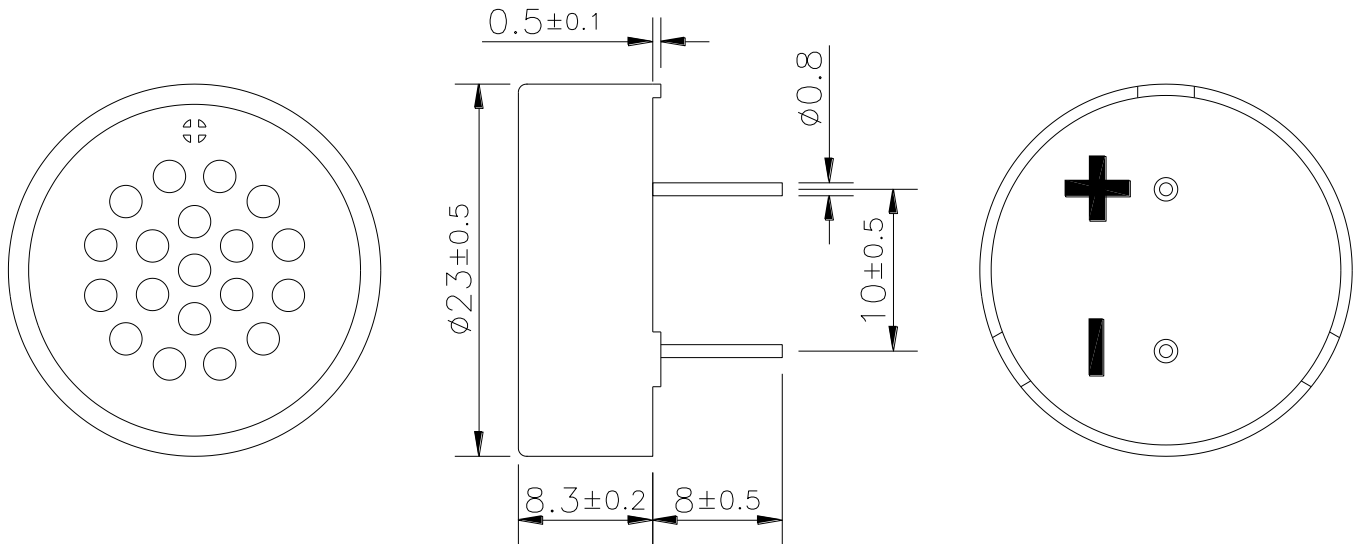
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## 3 . Dimensions and Material

### 3-1 Shape

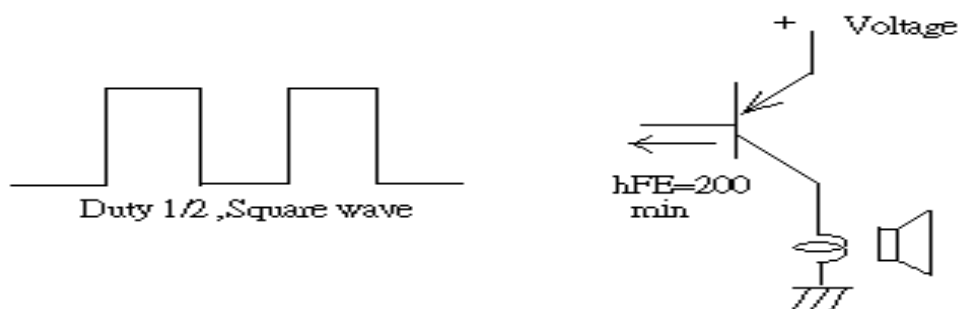


Unit : mm

### 3-2 Material

Housing	PPO plastic resin (Color : Black)
Leading Pin	Tin Plated Brass
Weight (Gram)	3.2

## 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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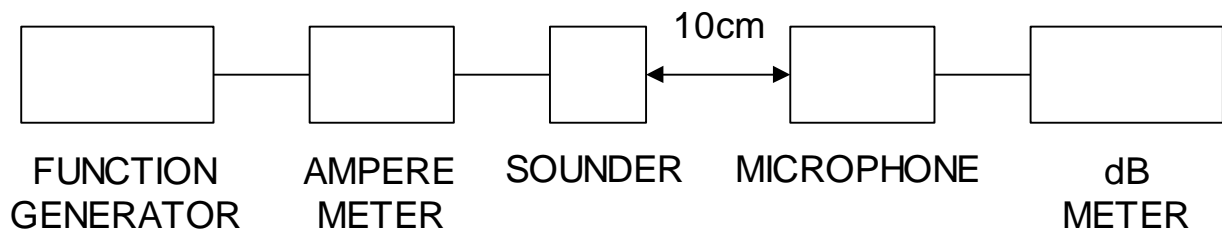
## 5. TESTING METHOD

### • *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.*



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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 > 250pcs per box , 10 boxes per carton , total 2500pcs per carton;

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

< 2 > N.W. : 9.0KGS G.W. : 10.0 KGS

< 3 > RoHS Mark: