

# 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)

## 2242(ROHS)

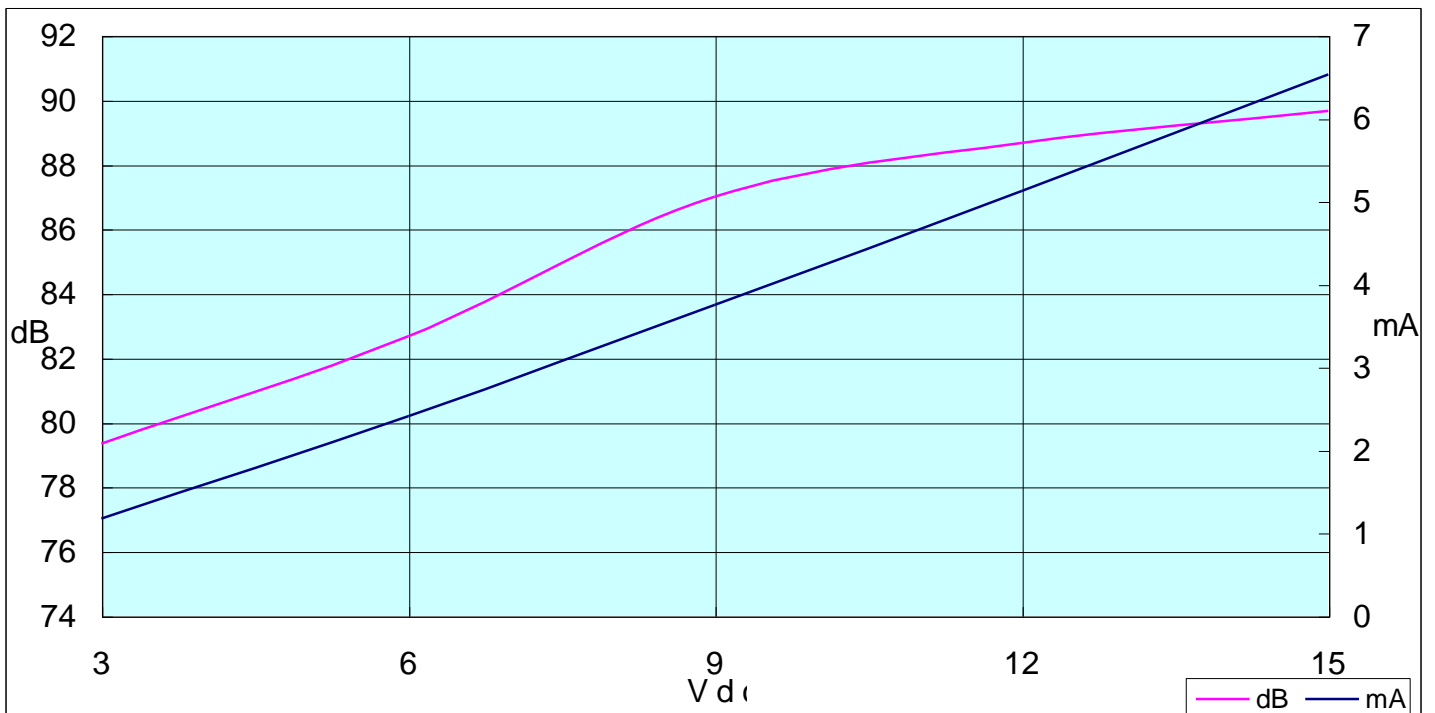
DATE:2004.12.01

### 1 . Electrical Characteristics

VER .:0

Oscillation Frequency (KHz)	4.1 ±0.5
Operating Voltage (Vdc)	3 ~ 15
Rated Voltage (Vdc)	12
Current Consumption (mA/max.)	10 at Rated Voltage
Sound Pressure Level (dB/min.)	83 at 10cm at Rated Voltage
Tone/Pulse Rate	Constant
Operating Temperature (°C)	-20 ~ +90
Storage Temperature (°C)	-30 ~ +100

### 2 . Voltage/ Current / Sound Pressure



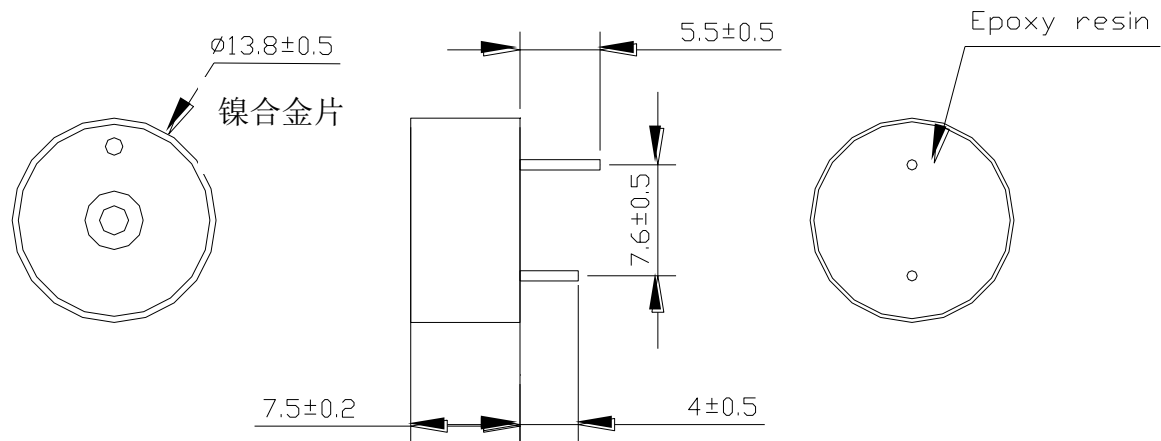
# SHOGYO INTERNATIONAL CORPORATION

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)

## 3 . Dimensions and Material

### 3-1 Shape



Unit : mm

### 3-2 Material

Housing	PBT (Color : Black)
Leading Pin	Tin Plated Brass
Weight (Gram)	0.8

# 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)

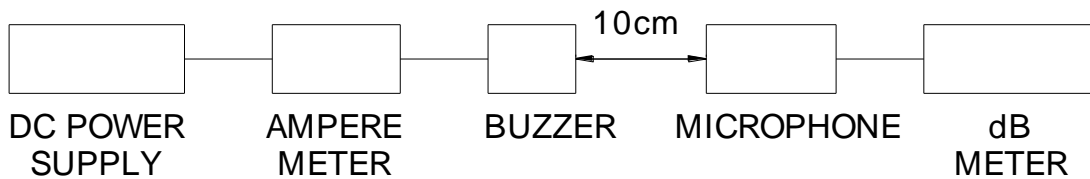
## 4. TESTING METHOD

### • *Standard Measurement conditions*

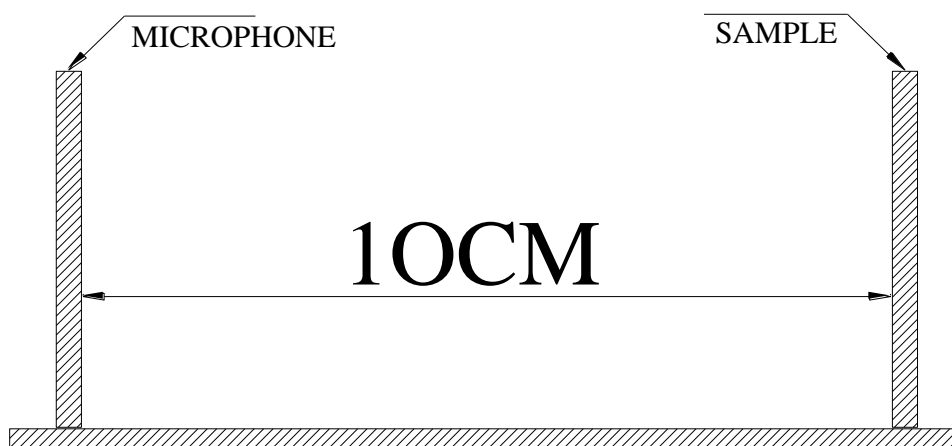
Temperature:  $25 \pm 2$  °C Humidity: 45-60%

### • *Acoustic Characteristics*

The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below.



*In the measuring test, buzzer is placed as follows:*



# 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)

## 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 °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 +100 °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>

## 6. PACKAGE METHOD

<1> One inner box consists of 1200pcs.

<2> 10 inner boxes are packed in a carton box. (L\*W\*H=510\*330\*300mm)  
(12000pcs of PK-12N40PE-TQ are packed in a carton box.)