

MESSRS:

SPECIFICATION FOR APPROVAL

承 认 书

DESCRIPTION : BUZZER
PART NO. : EMT-2512A
USER' S PART NO. :
DATE : 2011. 05. 05
CUSTOMER APPROVED :

Approved By	Checked By	Made By

SANCO ELECTRONICS CO., LTD.

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DATE:2011.05.05

1 . Electrical Characteristics

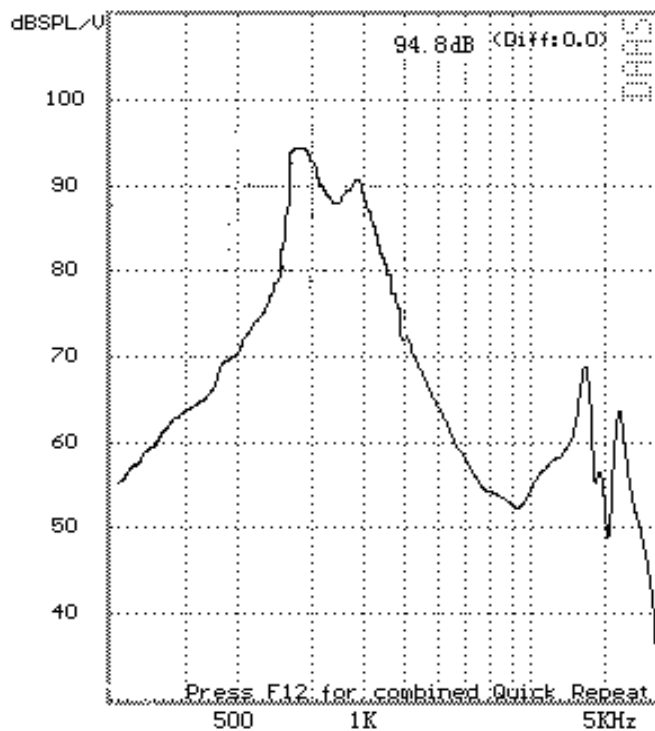
VER .:0

Oscillation Frequency (Hz)	1100
Operating Voltage (Vo-p)	8 ~ 14
Rated Voltage (Vo-p)	12
Current Consumption (mA/max)	60 at Rated Voltage
Sound Pressure Level (dB/min)	85 at 10cm at Rated Voltage
Coil Resistance (Ω)	120 ± 12
Operating Temperature ($^{\circ}\text{C}$)	-20 ~ +70
Storage Temperature ($^{\circ}\text{C}$)	-30 ~ +85

PS : $V_{p-p} = 1/2 \text{duty}$, square wave

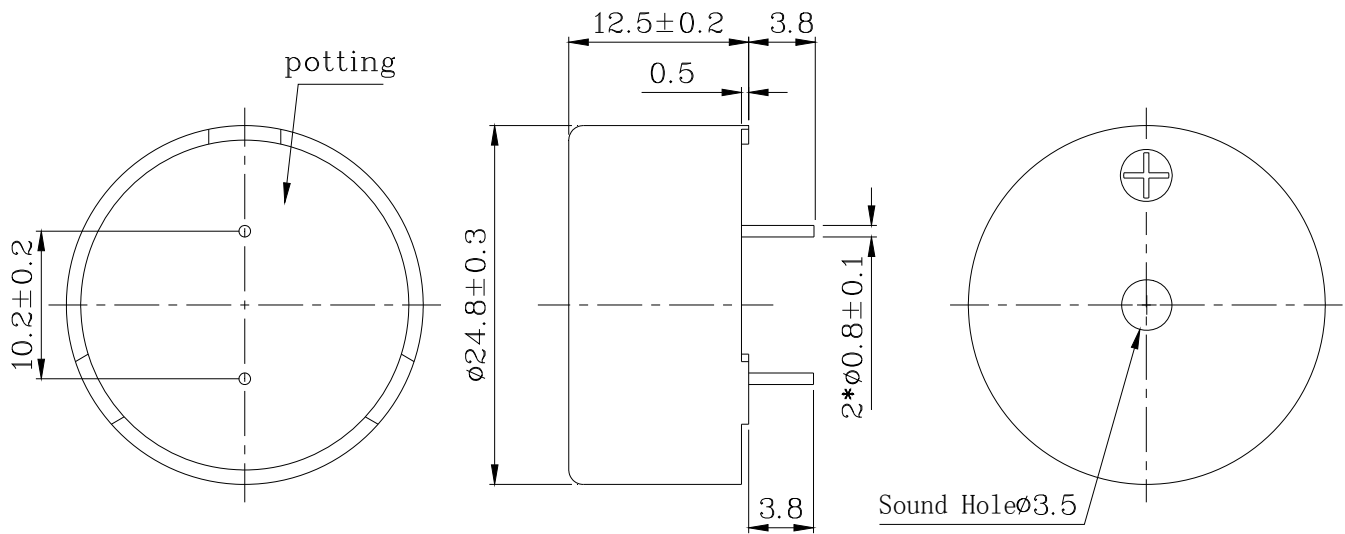
2 . Typical Frequency Response Curve

ESC End	D A A S Frequency Response	i
Distance Loudsp.- Mic.: 10.0 cm		M0:



3 . Dimensions and Material

3-1 Shape

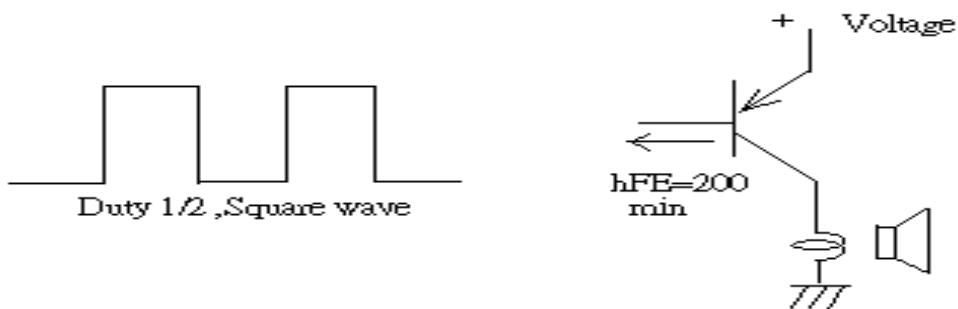


Unit : mm

3-2 Material

Housing	PPO plastic resin (Color : Black)
Leading Pin	Au Plated Brass
Weight (Gram)	8.0

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.

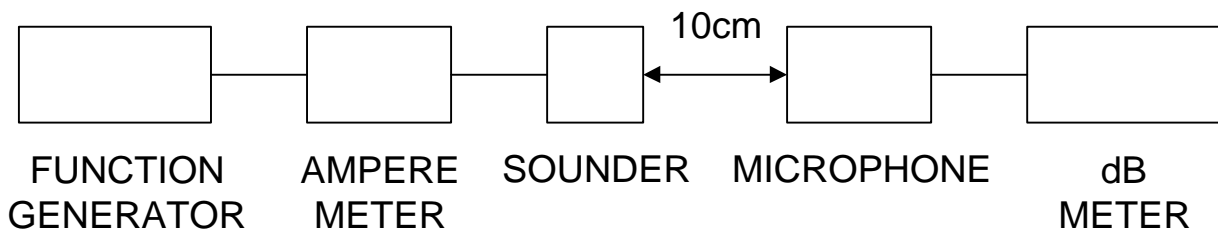
5. TESTING METHOD

- **Standard Measurement conditions**

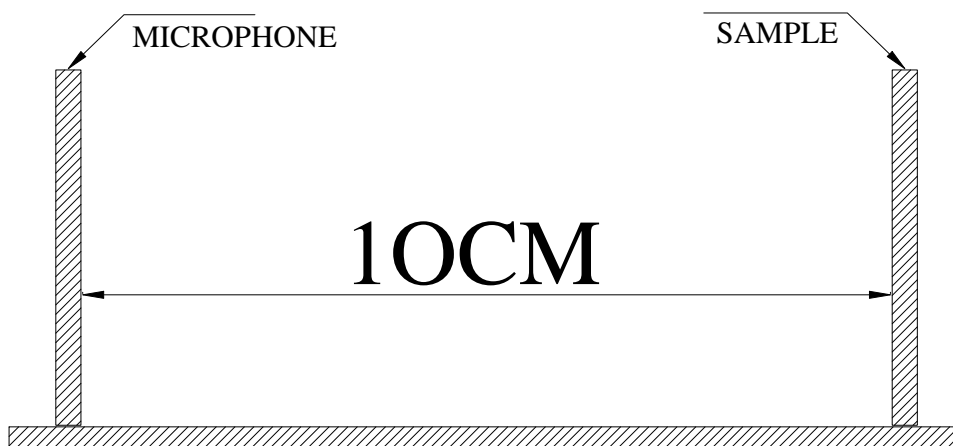
Temperature: $25 \pm 2^\circ\text{C}$ Humidity: 45-60%

- **Acoustic Characteristics**

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



In the measuring test, buzzers is placed as follows:



6. RELIABILITY

ITEMS	METHOD OF TEST AND MEASUREMENTS	PERFORMANCE
<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> One inner box consists of 50pcs.

<2> 30 inner boxes are packed in a carton box. (L*W*H=520*330*280mm)
(1500pcs are packed in a carton box.)