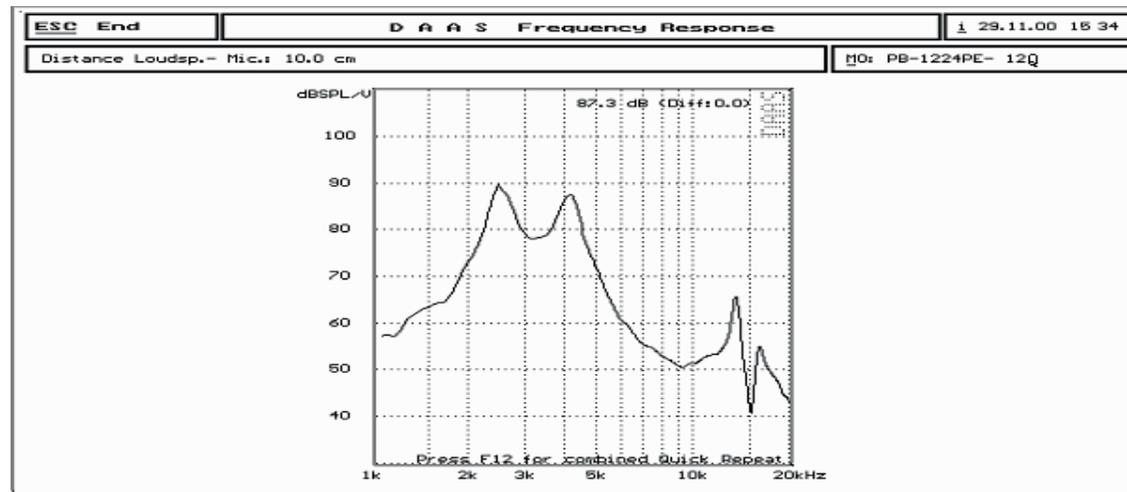


1 . Electrical Characteristics

Oscillation Frequency (Hz)	2400
Operating Voltage (Vp-p)	9.0 ~ 15
Rated Voltage (Vp-p)	12
Current Consumption (mA/max)	60 at Rated Voltage
Sound Pressure Level (dB/min)	85 at 10cm at Rated Voltage
Coil Resistance (Ω)	140 \pm 21
Operating Temperature ($^{\circ}\text{C}$)	-20 ~ +70
Storage Temperature ($^{\circ}\text{C}$)	-30 ~ +80
Wave soldering conditions	245 \pm 5 $^{\circ}\text{C}$ for 3 \pm 0.5 seconds.
Manual soldering conditions	350 \pm 20 $^{\circ}\text{C}$ / within 5sec

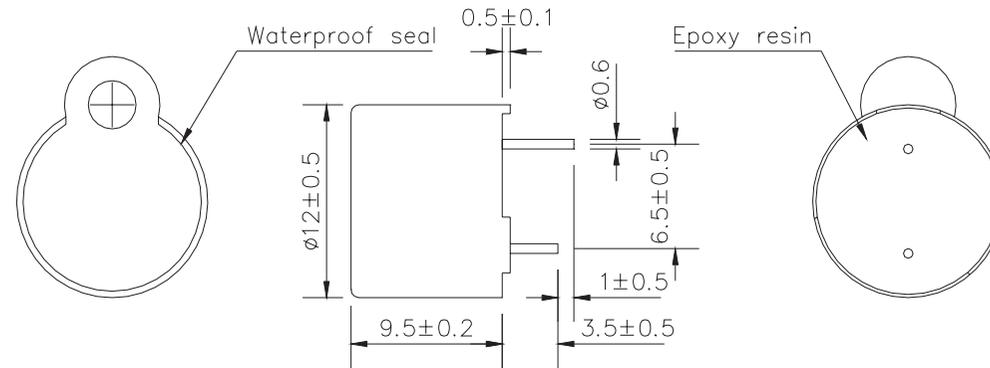
PS : Vp-p=1/2duty , square wave

2 . Typical Frequency Response Curve



3 . Dimensions and Material

3-1 Shape

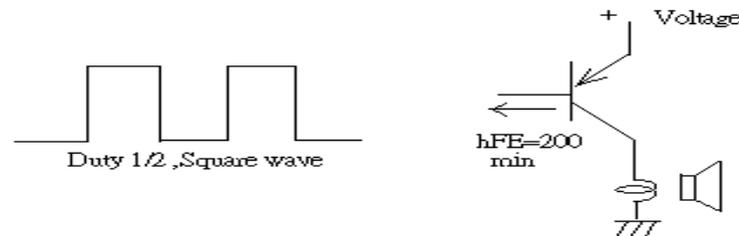


Unit : mm

3-2 Material

Housing	PPO plastic resin (Color : Black)
Leading Pin	Tin Plated Brass
Weight (Gram)	1.8

4 . Recommend Driving Circuit



The base current I_b should be high enough so that it saturates the collector current of the transistor with the CB load.

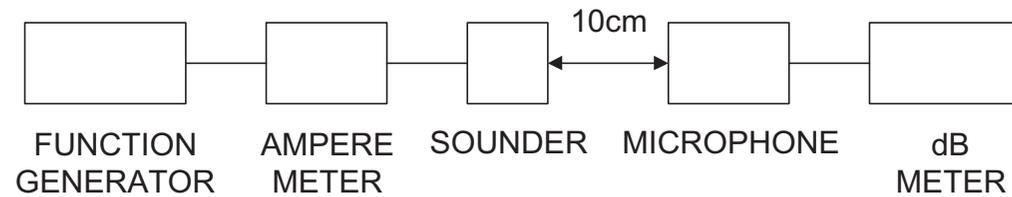
5. TESTING METHOD

• *Standard Measurement conditions*

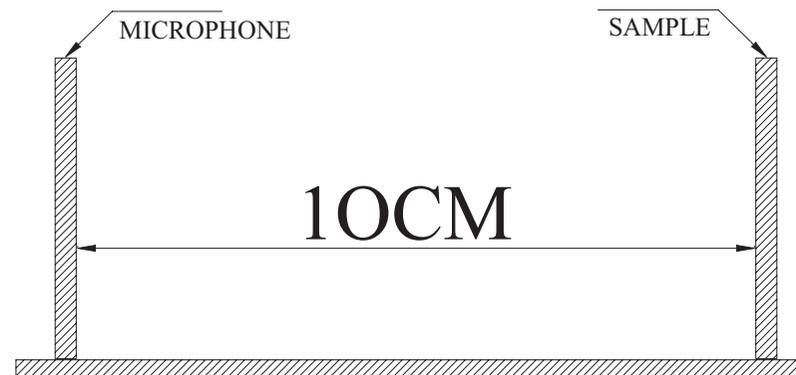
Temperature: 25 ± 2 °C Humidity: 45-60%

• *Acoustic Characteristics*

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



In the measuring test, buzzers is placed as follows:



6. RELIABILITY

ITEMS	METHOD OF TEST AND MEASUREMENTS	PERFORMANCE
Coldness withstanding	After 98 hours of being exposed to -30 °C environment, should be returned to normal environment for 2 hours, then re-proceed to test.	No abnormality shall exist
Hotness withstanding	After 98 hours of being exposed to +80 °C environment, should be returned to normal environment for 2 hours, then re-proceed to test.	No abnormality shall exist
Humidity withstanding	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.	No abnormality shall exist
Durability	Testing after 1,000 hours actual continuous operation. (at standard measurement conditions)	No abnormality shall exist
Drop withstanding	A natural drop from 75cm high down to the ground.	No abnormality shall exist
Vibration withstanding	Vibration of 2,000 cycles per minute, 2mm amplitude, applied in X, Y and Z directions for 30 minutes each.	No abnormality shall exist

7. PACKAGE METHOD

<1> 400pcs per box , Total 20 boxes per carton , total 8000pcs carton;

Volume: L*W*H=510*330*300mm

< 2 > RoHS Mark

