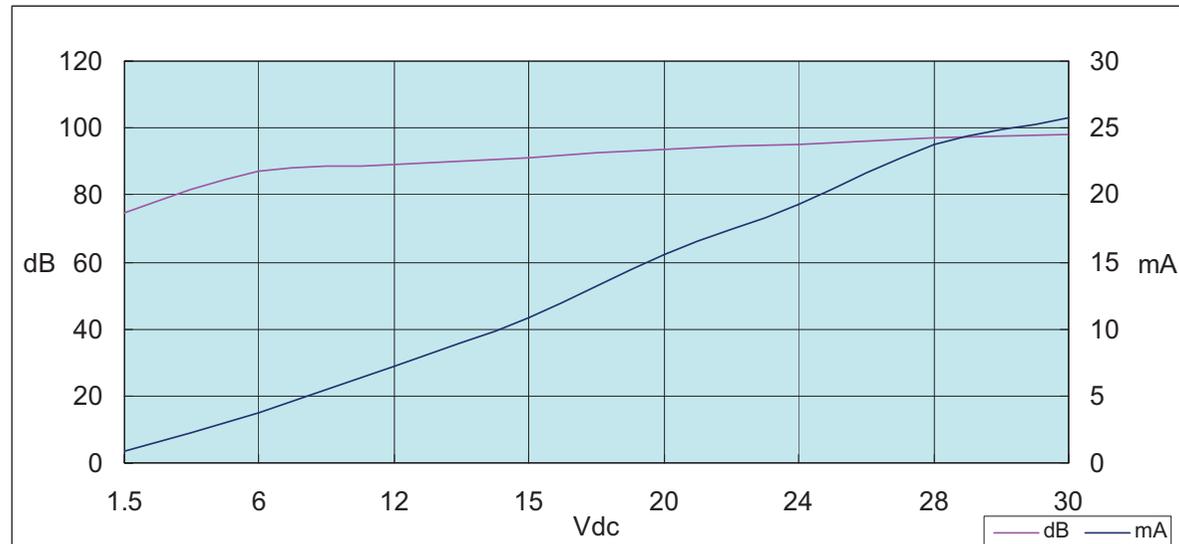


1 . Electrical Characteristics

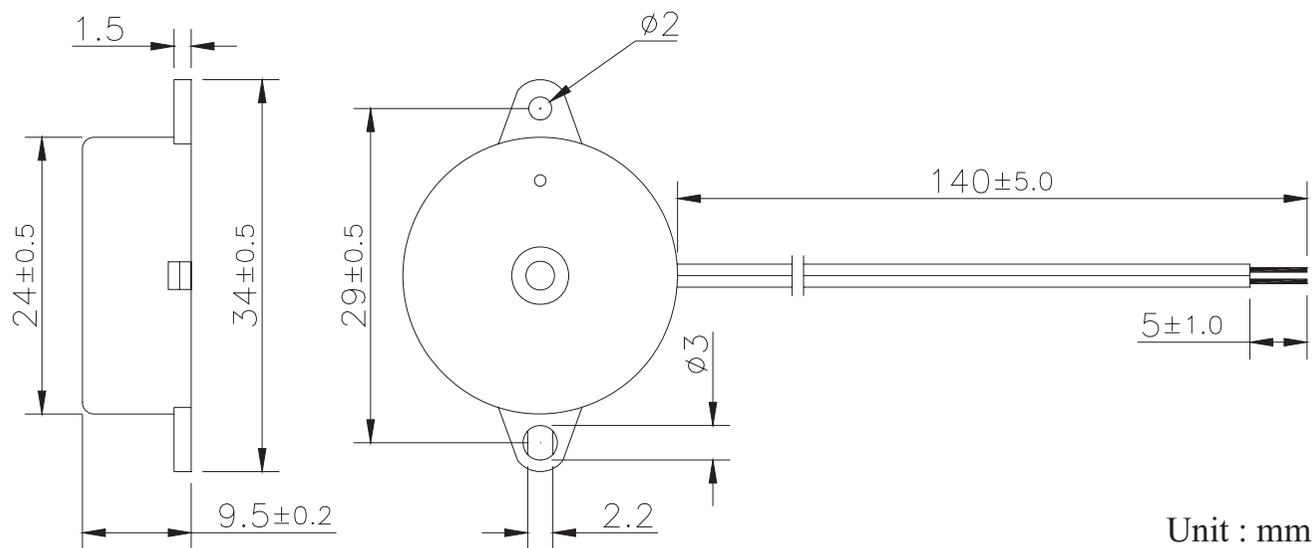
Oscillation Frequency (KHz)	3.0 ± 0.5
Operating Voltage (Vdc)	1.5 ~ 30
Rated Voltage (Vdc)	12
Current Consumption (mA/max.)	12 at Rated Voltage
Sound Pressure Level (dB/min.)	80 at 30cm at Rated Voltage
Tone/Pulse Rate	Constant
Operating Temperature (°C)	-20 ~ +70
Storage Temperature (°C)	-30 ~ +80
Manual soldering conditions	350±20°C / within 5sec

2 . Voltage/ Current / Sound Pressure



3 . Dimensions and Material

3-1 Shape



3-2 Material

Housing	ABS 777D UL94HB plastic resin (Color : Black)
Leading Wire	28 AWG
Weight (Gram)	3.2

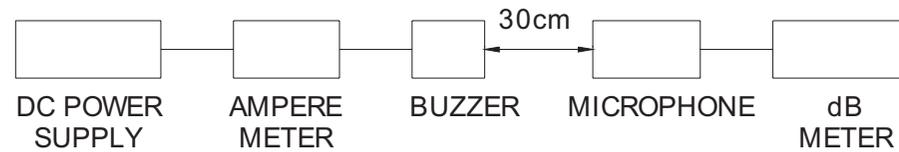
4. TESTING METHOD

- **Standard Measurement conditions**

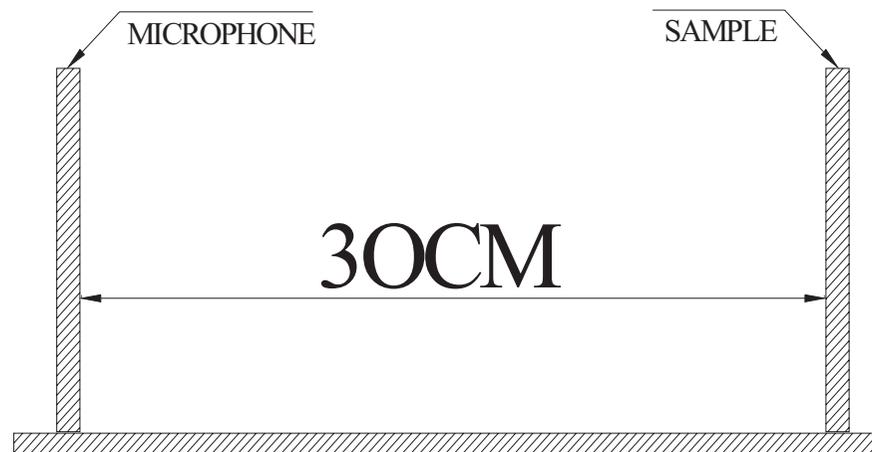
Temperature: $25 \pm 2 \text{ }^\circ\text{C}$ Humidity: 45-60%

- **Acoustic Characteristics**

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



In the measuring test, buzzer is placed as follows:



5. 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

6. PACKAGE METHOD

<1> 200pcs per box , Total 10boxes per carton , total 2000pcs carton;

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

< 2 > RoHS Mark

