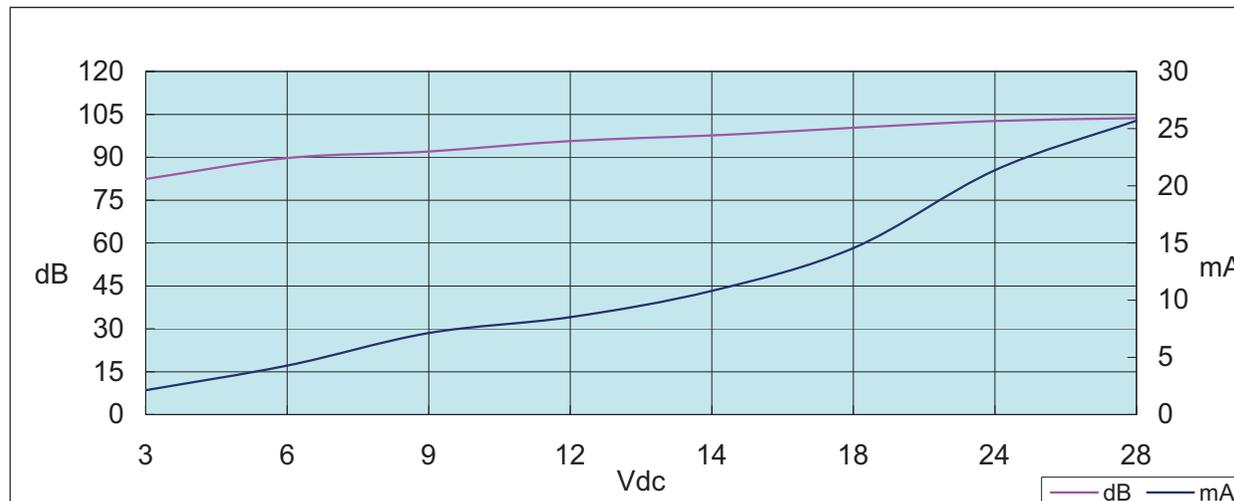


1 . Electrical Characteristics

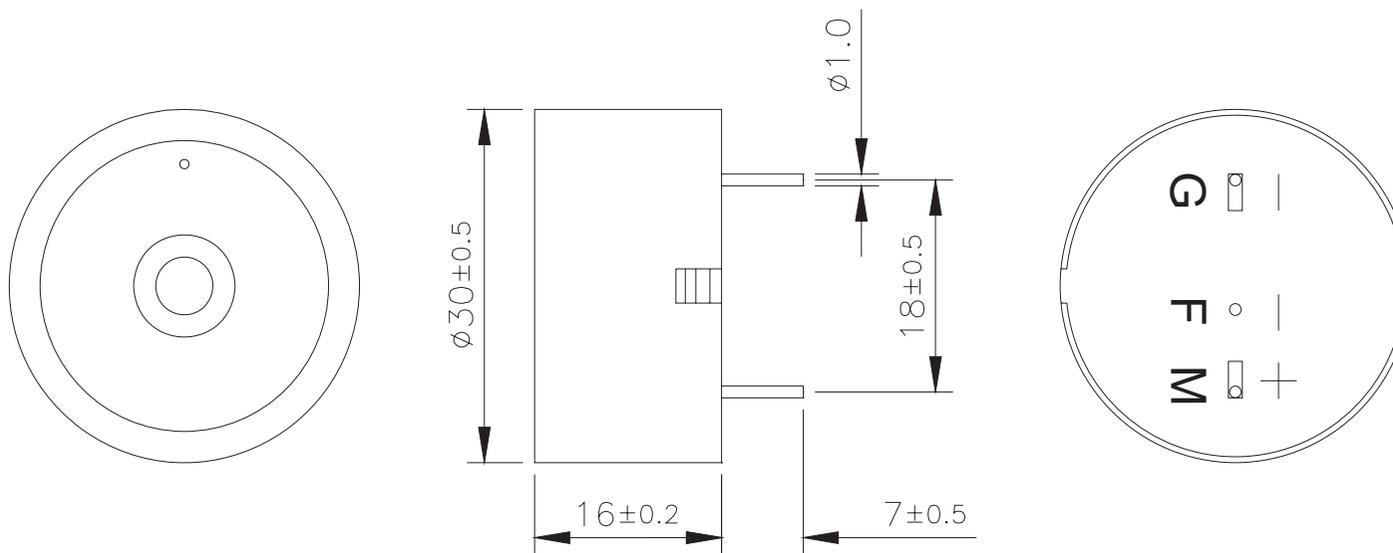
Oscillation Frequency (KHz)	3.5 ± 0.5
Operating Voltage (Vdc)	3 ~ 28
Rated Voltage (Vdc)	12
Current Consumption (mA/max.)	15 at Rated Voltage
Sound Pressure Level (dB/min.)	90 at 30cm at Rated Voltage
Tone/Pulse Rate	Constant
Operating Temperature (°C)	-20 ~ +70
Storage Temperature (°C)	-30 ~ +80
Wave soldering conditions	245±5°C for 3±0.5 seconds.
Manual soldering conditions	350±20°C / within 5sec

2 . Voltage/ Current / Sound Pressure



3 . Dimensions and Material

3-1 Shape



Unit : mm

3-2 Material

Housing	ABS 757 UL94HB plastic resin (Color : Black)
Leading Pin	Tin Plated Brass
Weight (Gram)	6.2

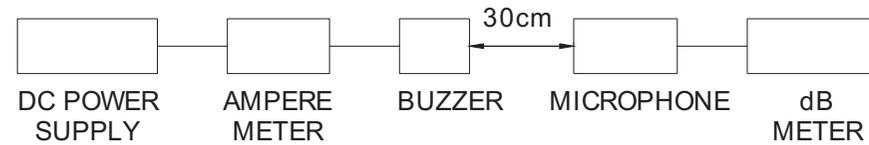
4. TESTING METHOD

- **Standard Measurement conditions**

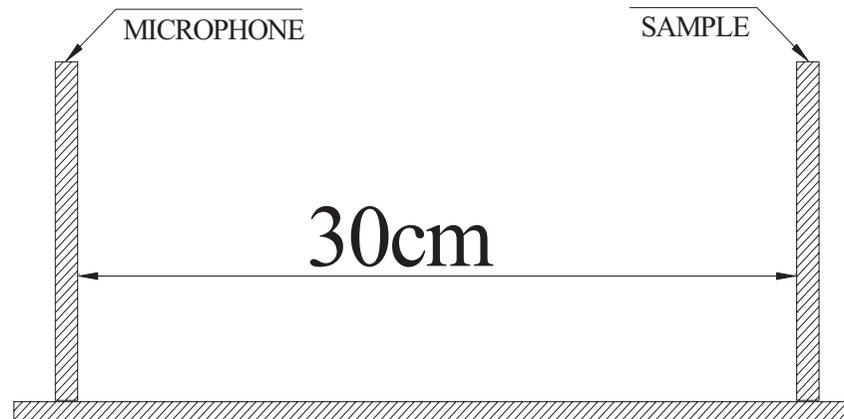
Temperature: $25 \pm 2 \text{ }^\circ\text{C}$ Humidity: 45-60%

- **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
<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>

6. PACKAGE METHOD

- <1> 160pcs per box , Total 10 boxes per carton , total 1600pcs carton;
 Volume: L*W*H=510*330*300mm
- < 2 > RoHS Mark

