



# HITPOINT

TEL:8862-26013311  
FAX:8862-26013898

NO.4 Lane 505, Zhongzheng Rd., Linkou Shiang, Taipei, Taiwan 24445 . R.O.C

## Magnetic Buzzer

### BZ-31

(RoHS)

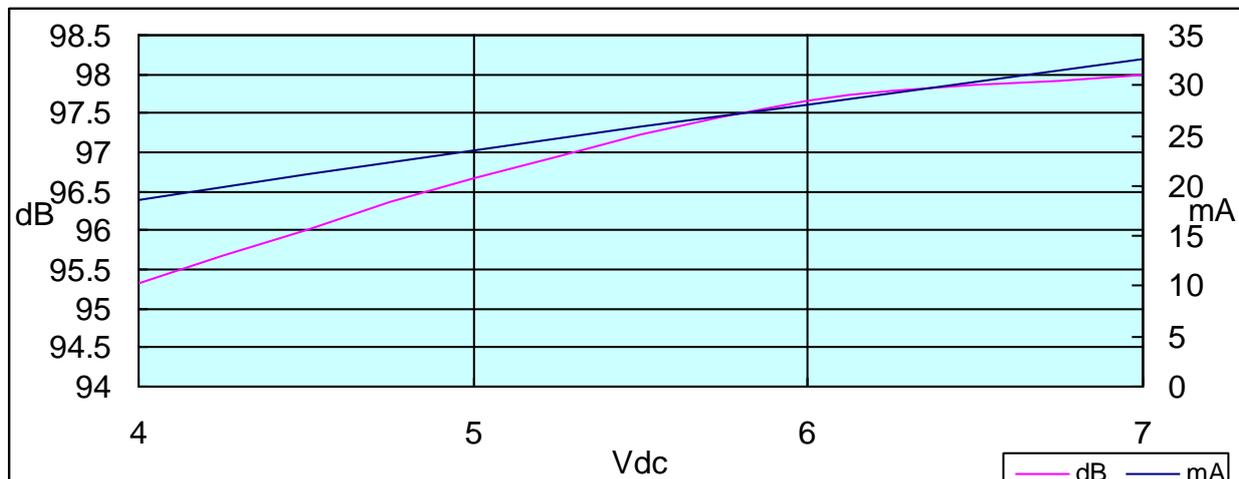
DATE:2009.02.25

#### 1 . Electrical Characteristics

VER .:6

|                                    |                             |
|------------------------------------|-----------------------------|
| Resonant Frequency (Hz)            | 2400 ± 300                  |
| Operating Voltage (Vdc)            | 4.0 ~ 7.0                   |
| Rated Voltage (Vdc)                | 5.0                         |
| Current Consumption (mA/max)       | 30 at Rated Voltage         |
| Sound Pressure Level (dB/min)      | 90 at 10cm at Rated Voltage |
| Tone/Pulse Rate                    | Constant                    |
| Operating Temperature (°C)         | -20 ~ +70                   |
| Storage Temperature (°C)           | -30 ~ +80                   |
| Condition by reflow soldering (°C) | 250±5°C / within 5sec       |
| Condition by hand (°C)             | 350±20°C / within 5sec      |

#### 2 . Voltage/ Current / Sound Pressure





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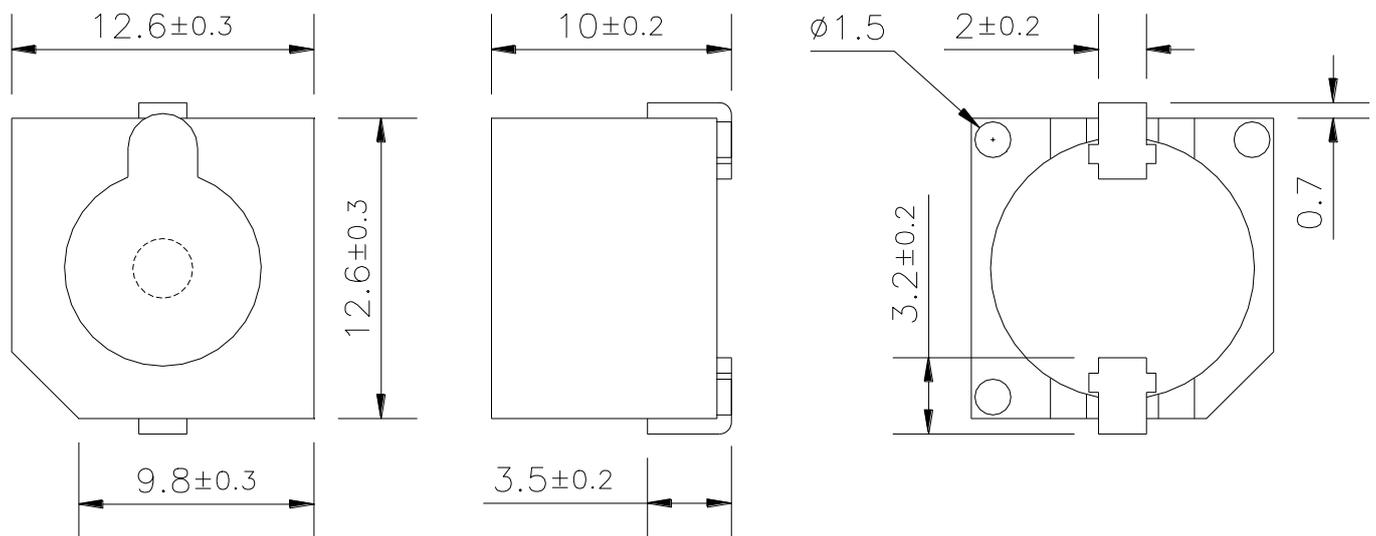
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### 3 . Dimensions and Material

#### 3-1 Shape



Unit : mm

#### 3-2 Material

|                              |                                  |
|------------------------------|----------------------------------|
| Housing                      | PPS plastic resin (Color : Gray) |
| Type Of Connection Terminals | SMD                              |
| Weight (Gram)                | 2.8                              |



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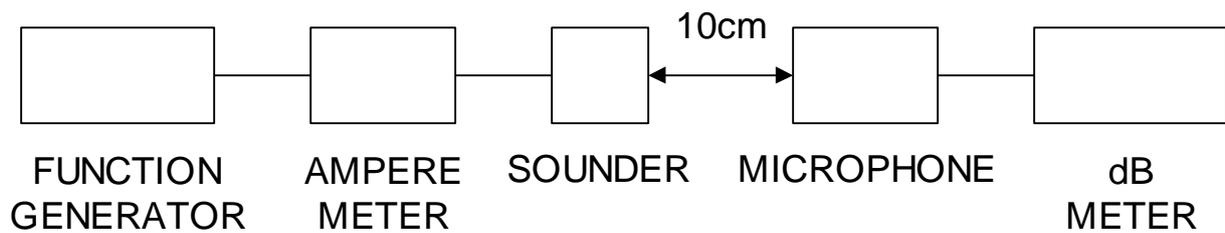
## 4. TESTING METHOD

### • *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.*





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## 5. RELIABILITY

| <b>ITEMS</b>                      | <b>METHOD OF TEST AND MEASUREMENTS</b>  | <b>PERFORMANCE</b>                    |
|-----------------------------------|---|---------------------------------------|
| <i>Coldness<br/>withstanding</i>  | <i>After 98 hours of being exposed to -30 °C<br/>environment, should be returned to normal<br/>environment for 2 hours, then re-proceed to test.</i>                              | <i>No abnormality<br/>shall exist</i> |
| <i>Hotness<br/>withstanding</i>   | <i>After 98 hours of being exposed to +80 °C<br/>environment, should be returned to normal<br/>environment for 2 hours, then re-proceed to test.</i>                              | <i>No abnormality<br/>shall exist</i> |
| <i>Humidity<br/>withstanding</i>  | <i>After 98 hours of being exposed to 40 °C 95%RH<br/>environment in actual operation, should be<br/>returned to normal environment for 2 hours, then<br/>re-proceed to test.</i> | <i>No abnormality<br/>shall exist</i> |
| <i>Durability</i>                 | <i>Testing after 1,000 hours actual continuous<br/>operation. (at standard measurement conditions)</i>  | <i>No abnormality<br/>shall exist</i> |
| <i>Drop<br/>withstanding</i>      | <i>A natural drop from 75cm high down to the<br/>ground.</i>  | <i>No abnormality<br/>shall exist</i> |
| <i>Vibration<br/>withstanding</i> | <i>Vibration of 2,000 cycles per minute, 2mm<br/>amplitude, applied in X, Y and Z directions for 30<br/>minutes each.</i>   | <i>No abnormality<br/>shall exist</i> |