



## Electrical And Acoustical Specifications

Rated Voltage (Square Wave)	: 12 Vp-p
Operating Voltage	: 1-30 Vp-p
*Rated Current (Max)	: 3mA
*Min Sound Output at 4.0kHz/10cm	: 85dB
*Resonant Frequency	: 4000Hz
Capacitance at 1KHz	: 12000±30%pF
Operating Temperature	: -30°C to +70°C
Storage Temperature	: -40°C to +85°C
Weight	: 2g,
Housing Material	: Black Noryl
Lead Pin Material	: Red copper(DSn)
Tone Nature	: Single

\*Value Applying at Rated Voltage (resonant frequency, 1/2 duty, square wave)

Requires additional circuitry to operate as a sounder

## Specifications

Item	Specification
Storage in High temp.	Storage in +85°C±2°C test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
Storage in Low temp.	Storage in -40°C±2°C test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
Storage in Humidity	Storage in +40°C±2°C 90-95%RH test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
Thermal cycle test.	<p>Make this test for 5 cycles without applying power, then expose to the room temperature for 2 hours.</p>
Vibration test	<p>Amplitude: 1.5mm Time : 1min/axis</p> <p>Make this test for the directions of X,Y, Z for 2 hours each (total 6 hours).</p>
Drop test	Free drop a unit from the height 70cm to the surface of 10mm thick board ,three directions(X,Y,Z).
Solderability test	Soldering temp.: 260±5°C Heat applying time: 3±0.5sec.

## Measuring Method(Buzzer Mode)

### Test Condition

Standard

Temperature : 25±3°C

Relative humidity : 60% to 70%,

Atmospheric pressure : 860mbar to 1060mbar

### Judgement

Temperature : 15°C to 35°C

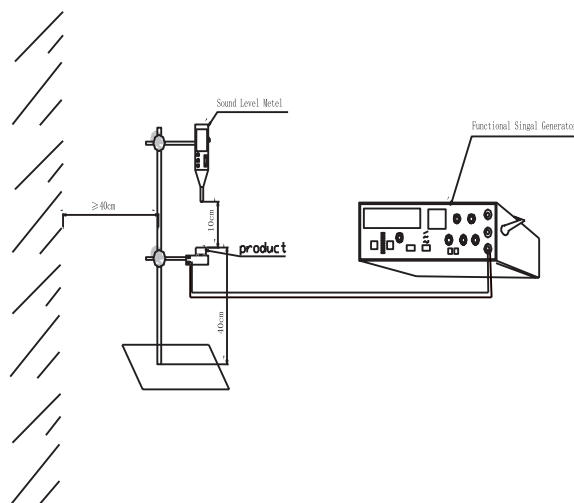
Relative humidity : 45% to 85%,

Atmospheric pressure : 860mbar to 1060mbar.

### Standard Test Fixture

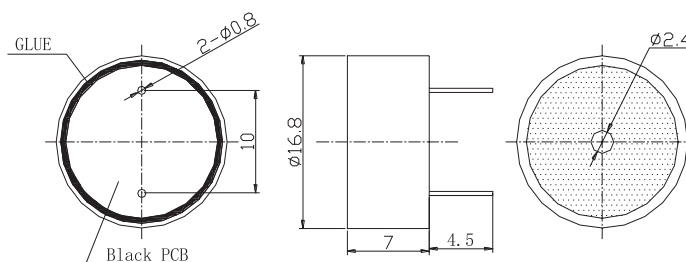
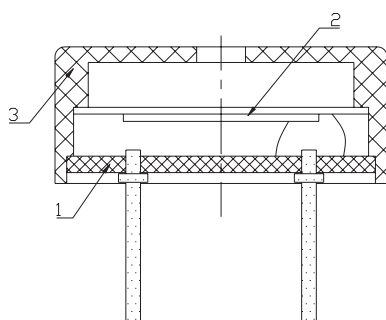
Rated Voltage(Square wave):12V

Resonant Frequency:4000Hz



## Dimensions

Unless otherwise specified, tolerance: ±0.5 (unit: mm)



No.	Part Name	Q'TY	Material
1	Housing	1	Black Noryl
2	Piezo element	1	Brass
3	Pin	2	Red copper (DSn)
4	Cover	1	Black Epoxy

## Part Number Table

Description	Part Number
Piezo Buzzer, 1-30Vp-p, 85dB, 3mA	MP-ABT-480-RC

Dimensions : Millimetres

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