Piezo Indicator
Sounder

pro-SIGNAL

Specifications:

RoHS Compliant

Electrical and Acoustical Specification:

Rated Voltage	: 12V DC
Operating Voltage	: 3-20V DC
Rated Current (Max.)	: 15mA
Min Sound Output at 10cm	: 95dB
Resonant Frequency	: 3,400±500Hz
Tone Nature	: Single
Operating Temperature	: -30°C to +70°C
Storage Temperature	: -40°C to +85°C
Weight	: 4g
Housing Material	: MPPO (Black)
Lead Pin Material	: Red Copper (DSn)

Environmental Test:

Item	Specifications
Storage in High temp.	Storage in +85°C±2°C test box for 240 hours, then expose to the room temperature for 2 hours without applying power.
Storage in Lower temp.	Storage in -40°C±2°C test box for 240 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	+80°C +20°C +20°C −30°C 30min 15min 30min 15min Make this test for 5 cycles without applying power,then expose to the room temperature for 2 hours.
Vibration test	9.3g 0.3g 10 55 Hz Amplitude: 1.5mm Time: 1min/axis Make this test for the directions of X,Y, Z for 2 hours each (total 6 hours).
Drop test	Free drop a unit from the height 100cm 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.

After these tests, the change of S.P.L shall be within ±5dB

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Measuring Method (Buzzer Mode):

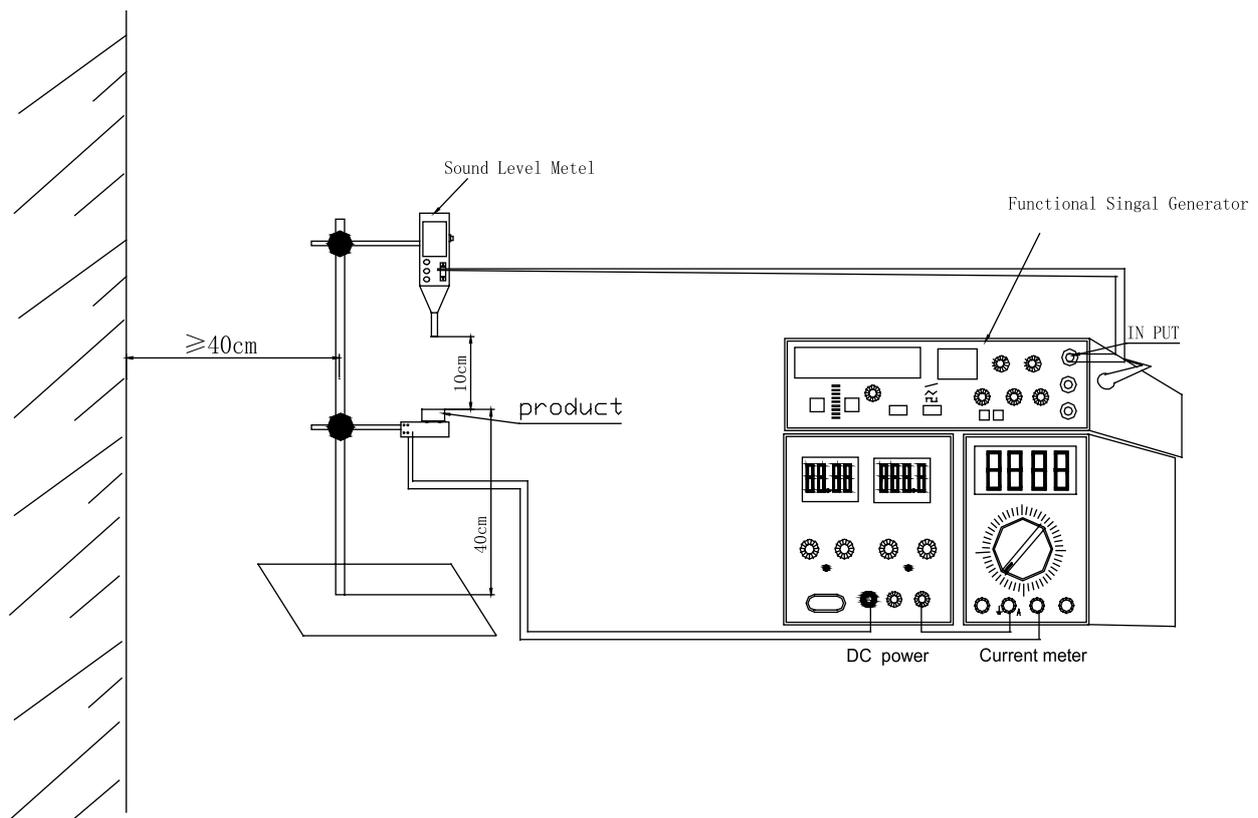**Test Condition:**
Standard:
Temperature   : 25±3°C
Relative humidity   : 60% to 70%
Atmospheric pressure   : 860mbar to 1,060mbar

Judgement:
Temperature   : 15°C to 35°C
Relative humidity   : 45% to 85%
Atmospheric pressure   : 860mbar to 1,060mbar

Standard Test Fixture:
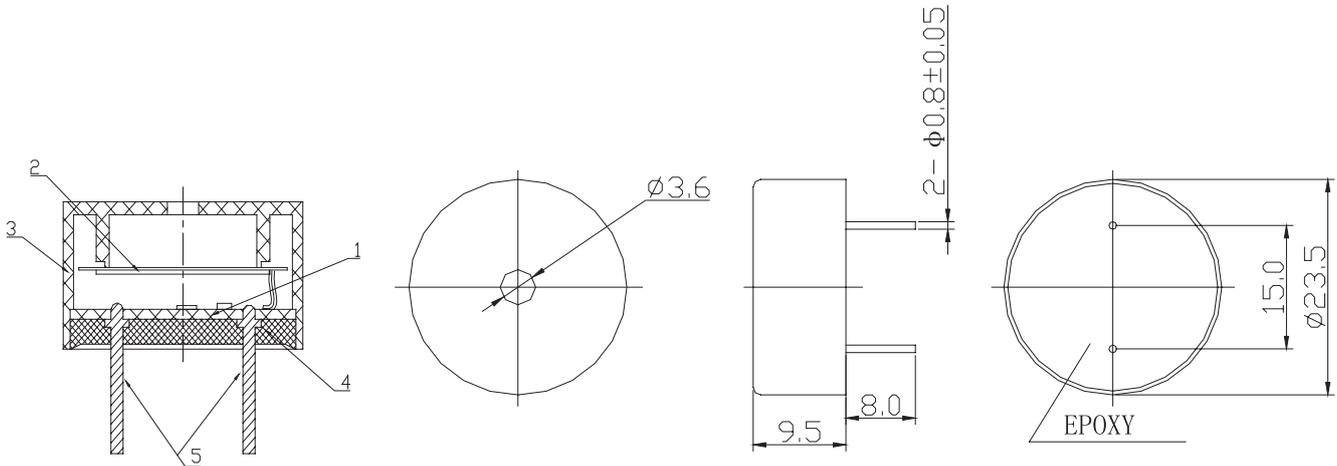Rated Voltage   : 12V
Resonant Frequency   : 3,400Hz±500

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Dimensions:

No.	Part Name	Q'TY	Material
1	PCB	1	Epoxy Board
2	Piezo element	1	Brass
3	Housing	1	Black MPPO
4	Epoxy		Resin
5	Lead pin	2	Red Copper (DSn)

Dimensions : Millimetres
Unless otherwise specified, tolerance: ±0.5

Part Number Table

Description	Part Number
Piezo Buzzer, 12V DC, PCB	ABI-003-RC

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