Piezo Buzzer Components

Features

- Piezo buzzer
- 1-60Vp-p
- Rated voltage 12Vp-p
- With PCB pins
- Sound output ≥100dB
- Requires additional circuitry to generate sound
- Diameter 64mm, Height 22mm

RS PRO Piezo Buzzer 1-60Vp-p, 100dB, PCB Pins

RS Stock No.: 1797432



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Product Description

A large piezo buzzer capable of generating a sound output greater than 100dB. It has PCB pins and operates within a voltage range of 1-60Vp-p. Another notable feature is its operating and storage temperature range which is between -40-+105°C. This buzzer requires additional circuitry to generate sound.

APPLICATIONS:

- Access & security
- Medical
- Home appliances
- Toys & games
- Consumer electronics
- Timers
- Load monitors & pressure gauges
- Agricultural system monitoring
- Alarms within automotive applications such as seat belt, tyre pressure, temperature warnings
- Sensing & instrumentation
- Communications equipment
- Remote monitoring systems
- Safety products

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Piezo Buzzer Components

Electrical Specifications

1. ELECTRICAL AND ACOUSTICAL SPECIFICATION

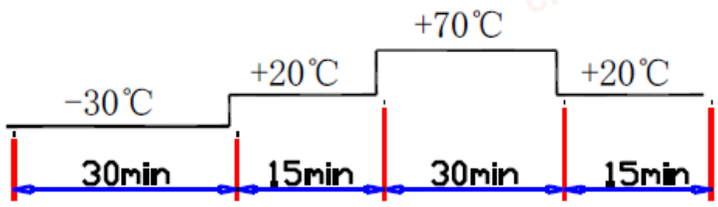
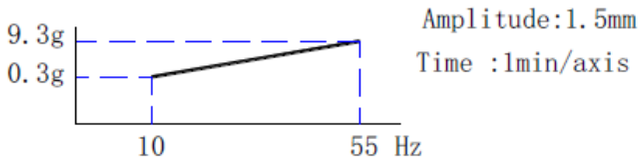
Type	Unit	
Sound Output Level at 30cm 12Vp-p Square wave 3.0KHz(MIN)	dB	100
Frequency response	Hz	2200-4000
Capacitance at 120Hz	nF	140±30%
Continuous drive voltage(MAX)	Vp-p	50(50%duty cycle)
Intermittent drive Voltage(MAX)	Vp-p	60(50%duty cycle)
Operating Temperature	°C	-40 - +105
Storage Temperature	°C	-40 - +105

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

Requires additional circuitry to generate sound

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2. ENVIRONMENTAL TEST

	Item	Specifications
2-1	Storage in High temp.	Storage in +105℃±2℃ test box for 96 hours，then expose to the room temperature for 2 hours without applying power.
2-2	Storage in Low temp.	Storage in -40℃±2℃ test box for 96 hours，then expose to the room temperature for 2 hours without applying power.
2-3	Storage in Humidity	Storage in +40℃±2℃ 90-95%RH test box for 96 hours, then expose to the room temperature for 2 hours without applying power.
2-4	Thermal cycle test.	 Make this test for 5 cycles without applying power,then expose to the room temperature for 2 hours.
2-5	Vibration test	 Make this test for the directions of X,Y, Z for 2 hours each (total 6 hours).
2-6	Drop test	Free drop a unit from the height 100cm to the surface of 10mm thick board ,three directions(X,Y,Z).
2-7	Solderability test	Soldering temp.:260±5℃ Heat applying time: 3±0.5sec.

PASS CRITERION :

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

3.MEASURING METHOD(BUZZER MODE)

3-1 .Test Condition

3-1-1.STANDARD

Temperature : 25±3℃

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

3-1-2.JUDGEMENT

Temperature : 15 ~ 35℃

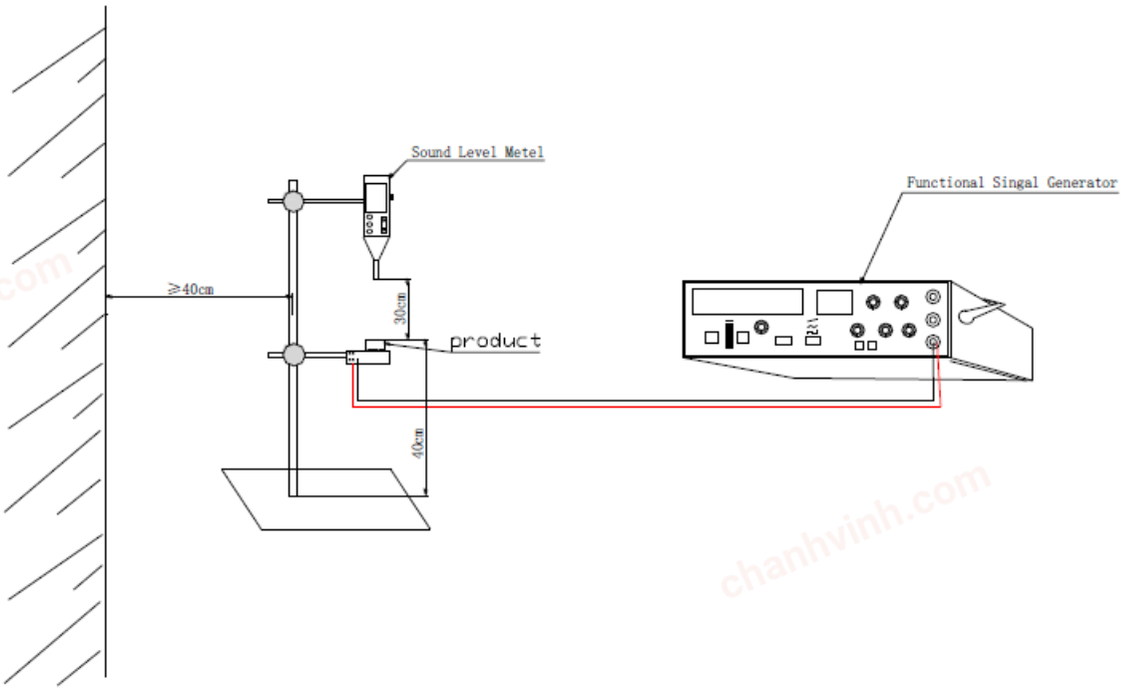
Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

3-2 . Standard Test Fixture

1.rated Voltage(Square wave):12V

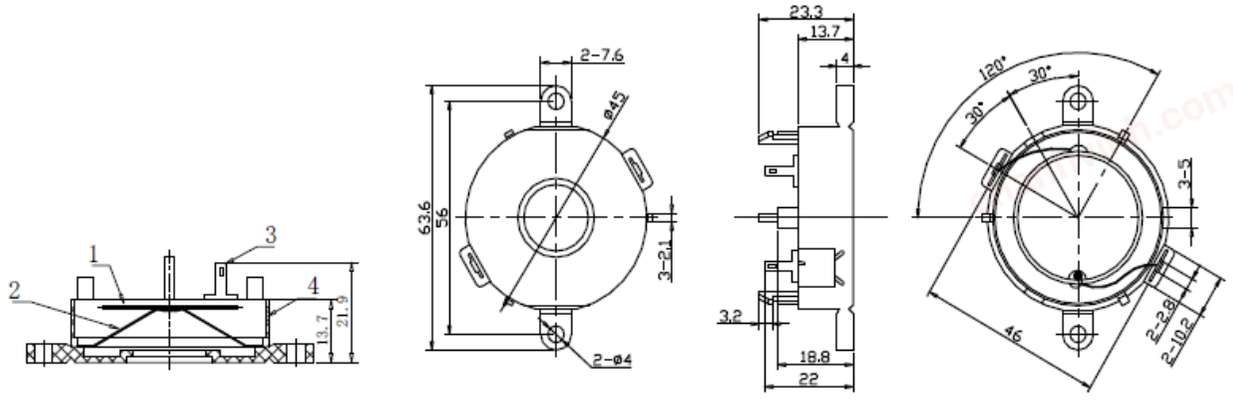
2.Resonant Frequency:3000Hz



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4.DIMENSIONS

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



1） All parts must be meet to ROHS.

7				
6				
5				
4	Housing	1	NYLON PA46	
3	Lead Pin	2	Red Copper(DSn)	
2	Film			
1	Piezo element	1	Brass	
Part No.	Part Name	Q'TY	Material	Remark