Piezo Buzzer Components

Features

- Piezo buzzer
- 3-20VDC
- Rated voltage 12VDC
- With PCB pins
- Sound output ≥85dB
- With internal drive circuit
- Diameter 24mm, Height 16mm

RS PRO 90dB, Continuous Tone, Piezo Buzzer with PCB pins

RS Stock No.:
617-3075 ,171-0868



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

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Product Description

This continuous tone piezo buzzer operates between 3-20VDC. It doesn't need external circuity to produce a sound as it has it's own internal circuit and just requires a DC voltage. The sound output is a minimum of 85dB.

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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1. ELECTRICAL AND ACOUSTICAL SPECIFICATION

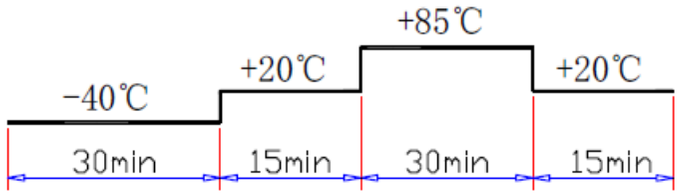
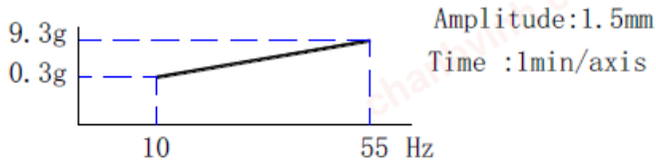
	Item	Unit	Specifications
1-1	Rated Voltage	VDC	12
1-2	Operating Voltage	VDC	3-20
1-3	＊Rated Current（Max）	mA	8
1-4	＊Min Sound Output at 30cm	dB	85
1-5	＊Resonant Frequency	Hz	2900±500
1-6	Tone Nature		Single
1-7	Operating Temperature	℃	-30~+70
1-8	Storage Temperature	℃	-40~+85
1-9	Weight	g	6
1-10	Housing Material		Black Noryl
1-11	Lead Pin Material		Red Copper（DSn）

*Value applying at rated voltage DC

With internal drive circuit

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2.ENVIRONMENTAL TEST

	Item	Specifications
2-1	Storage in High temp.	Storage in +85℃±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 70cm 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℃

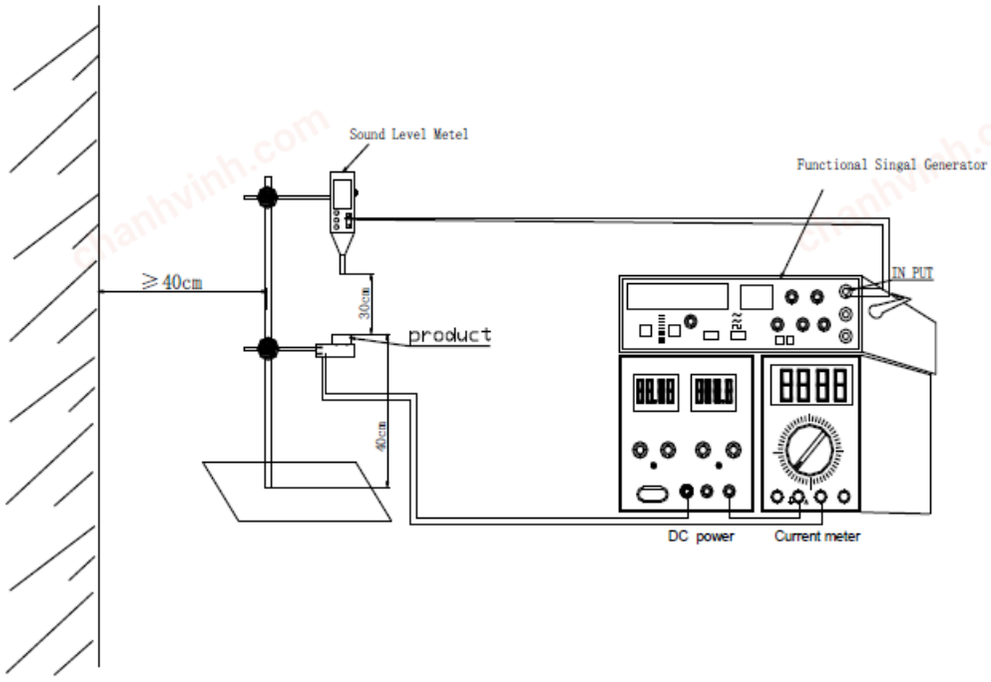
Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

3-2 . Standard Test Fixture

3-2-1.Rated Voltage: 12VDC

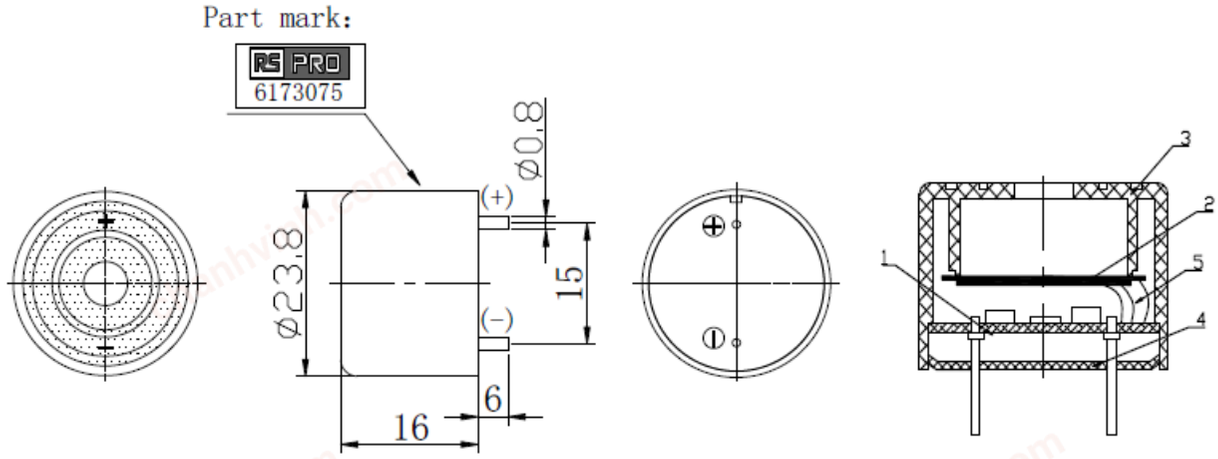
3-2-2.Resonant Frequency: 2900Hz±500



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4.DIMENSIONS

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



1）All parts must be meet to ROHS.

2）Wave solder and wash not allowed.

5	Lead Wire	3		
4	Cover	1	Black Noryl	
3	Housing	1	Black Noryl	
2	Piezo element	1	Brass	
1	PCB	1	Epoxy Board	
Part No.	Part Name	Q'TY	Material	Remark