Features

- Piezo buzzer
- With PCB pins
- High operating temp.
- 3-25Vp-p
- Rated voltage 3Vp-p
- Sound output ≥70dB
- Requires additional circuitry to generate sound
- Diameter: 17mm Height: 8.6mm

RS PRO Piezo Buzzer 3-25Vp-p, 70dB

RS Stock No.: 0102773

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.

Product Description

A continuous tone, piezo buzzer. It has an operating temperature of up to 105°C making it highly suited to applications with higher temperatures such as air conditioners, humidifiers, steamers etc. It is a small and low profile device, with a voltage range from 3-25Vp-p. It 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

Electrical Specifications

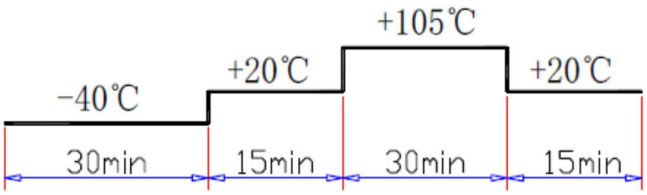
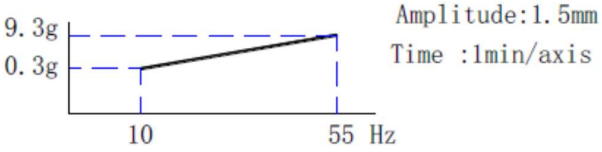
1. ELECTRICAL AND ACOUSTICAL SPECIFICATION

	Item	Unit	Specifications
1-1	Rated Voltage（Square Wave）	Vp-p	3
1-2	Operating Voltage	Vp-p	3-25
1-3	＊Rated Current（Max）	mA	5
1-4	＊Min Sound Output at 2.0kHz/10cm	dB	70
1-5	＊Resonant Frequency	Hz	2000
1-6	Capacitance at 120Hz	pF	25000±30%
1-7	Operating Temperature	℃	-40~+105
1-8	Storage Temperature	℃	-40~+105
1-9	Weight	g	1
1-10	Housing Material		Black PBT
1-11	Lead Pin Material		Phosphor Bronze （DSn）
1-12	Tone Nature		Single

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

Requires additional electronic circuitry to operate as a sounder.

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 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℃

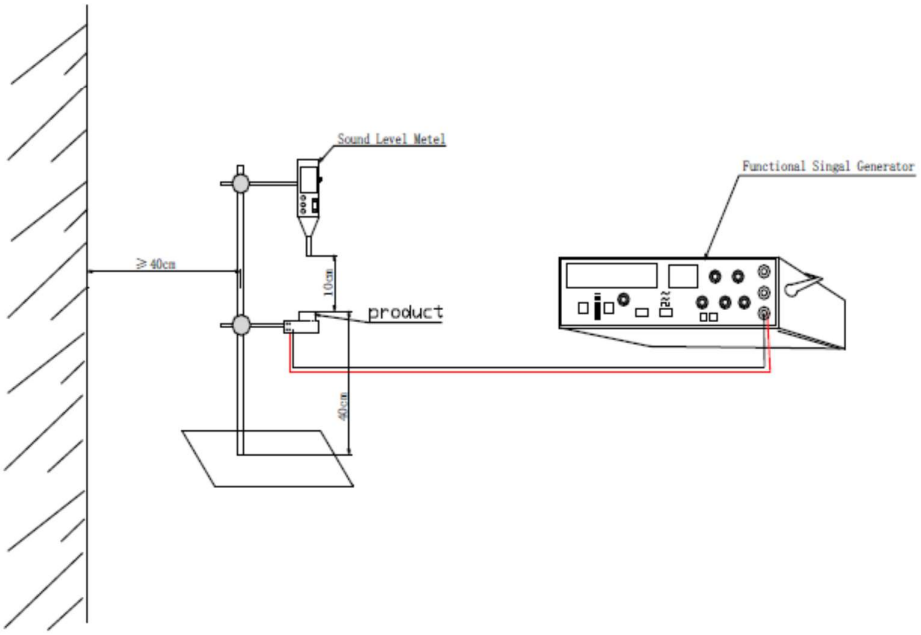
Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

3-2 . Standard Test Fixture

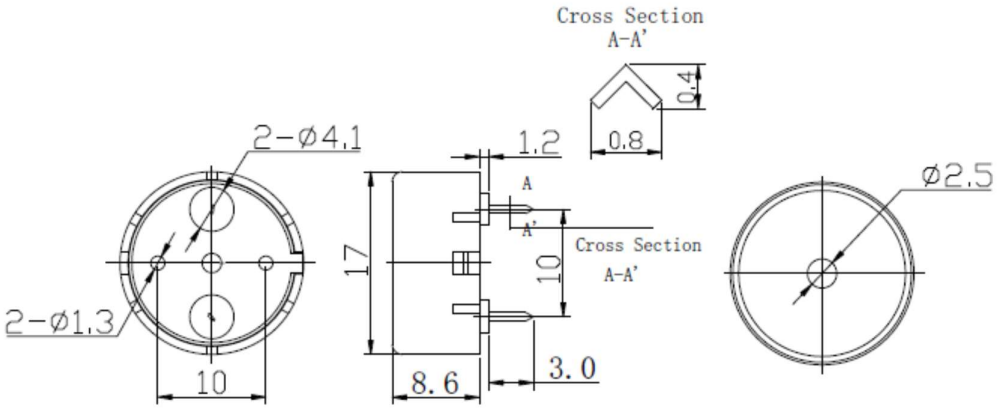
3-2-1.rated Voltage(Square wave):3V

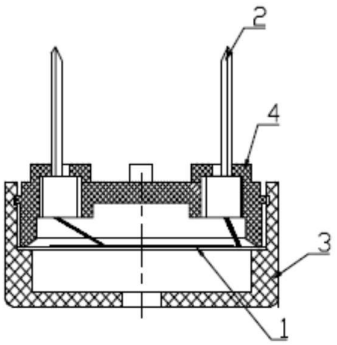
3-2-2.Resonant Frequency:2000Hz



4.DIMENSIONS

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





1）All parts must be meet to ROHS.

2）Wave solder allowed，wash not allowed.

4	Cover	1	Black PBT	
3	Housing	1	Black PBT	
2	Pin	2	Phosphor Bronze （DSn）	
1	Piezo element	1	Brass	
Part No.	Part Name	Q'TY	Material	Remark