Piezo Buzzer 5-15VDC, 100dB with PCB pins	Part No.	ABI-022-RC
	Page	1/4

1. ELECTRICAL AND ACOUSTICAL SPECIFICATION

	Item	Unit	Specifications
1-1	Rated Voltage	VDC	12
1-2	Operating Voltage	VDC	5-15
1-3	＊Rated Current（Max）	mA	15
1-4	＊Min Sound Output at 10cm	dB	100
1-5	＊Resonant Frequency	Hz	3500±500
1-6	Tone Nature		Single
1-7	Operating Temperature	℃	-20~+60
1-8	Storage Temperature	℃	-30~+70
1-9	Weight	g	8
1-10	Housing Material		Black ABS
1-11	Lead Pin Material		Red Copper（DSn）

＊Value Applying at Rated Voltage(DC)

With internal drive circuit

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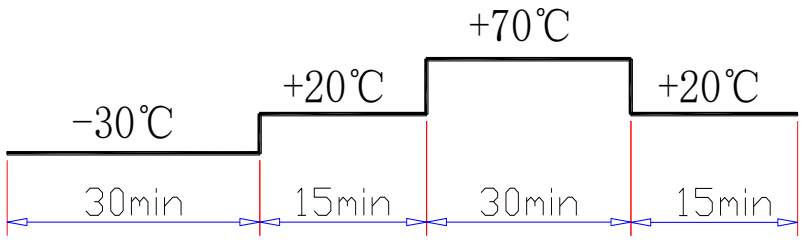
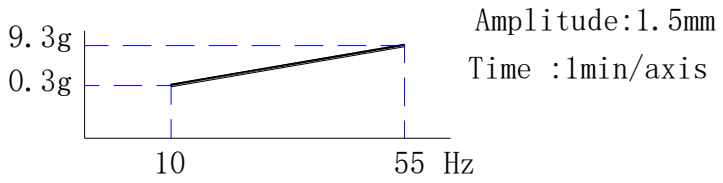
2. ENVIRONMENTAL TEST

	Item	Specifications
2-1	Storage in High temp.	Storage in +70℃±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 -30℃±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 .

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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℃

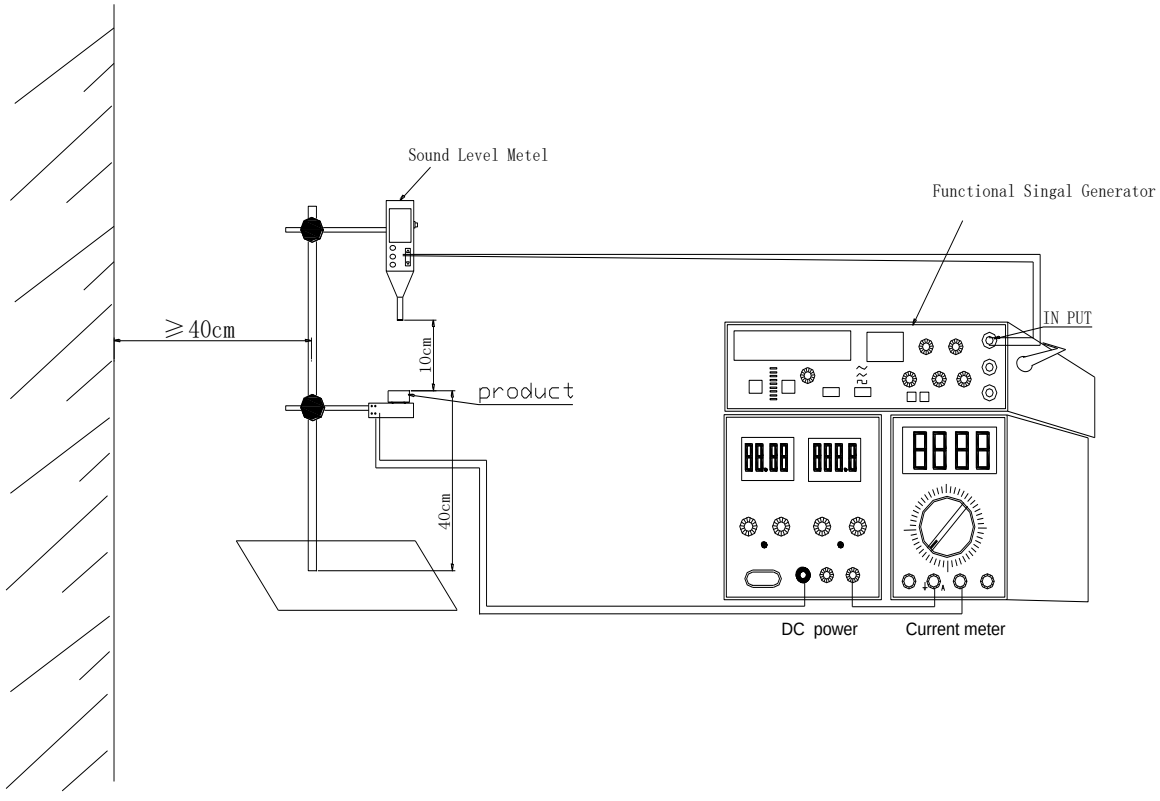
Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

3-2 . Standard Test Fixture

3-2-1.rated Voltage: 12VDC

3-2-2.Resonant Frequency: 3500Hz±500



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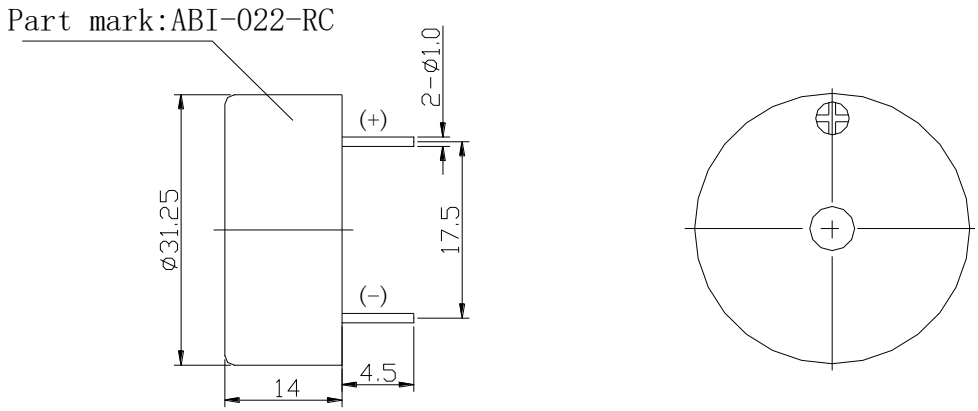
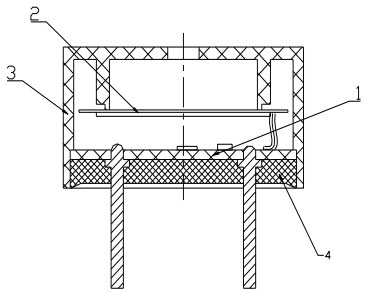
SPECIFICATIONS	Part No.	ABI-022-RC
	Page	4/4

4.DIMENSIONS

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



Housing material:ABS



1）All parts must be meet to ROHS2.0.

2）Wave solder and wash not allowed.

4	Potting		Epoxy	
3	Housing	1	Black ABS	
2	Piezo element	1	Brass	
1	PCB	1	Epoxy Board	
Part No.	Part Name	Q'TY	Material	Remark

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