

# SPECIFICATION

## FOR

## APPROVAL

Customer: \_\_\_\_\_

Description: \_\_\_\_\_ Piezo Audio Transducer \_\_\_\_\_

ICC/INTERVOX Model No: \_\_\_\_\_ BRP3631T-09-C \_\_\_\_\_

Customer's Model No: \_\_\_\_\_

ISSUE	CHECK	APPROVAL	CUSTOMER
ZhuYu 18.09.18	ShiCong 18.09.18	WangXueWen 18.09.18	

CHANGES				
NO.	Date	ECN.NO	Edition	Description
1	18.09.18	180918	A0	初稿



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## 1. ELECTRICAL AND ACOUSTICAL SPECIFICATION

Type	Unit	BRP3631T-09-C
Operating Voltage	VDC	9 - 48
*Rated Current (MAX)	mA	3/9VDC 20/48VDC
* Min Sound Output at 60 cm	dB	75±8/9VDC 80±8/48VDC
*Resonant Frequency	Hz	2800±500
Tab Material		Brass
Tone Nature		SINGLE
Housing meterial		ABS (Black)
Operating Temperature	° C	-20 - +60
Storage Temperature	° C	-30 - +70
Weight	g	26

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## 2.ENVIRONMENTAL TEST

	Item	Specifications
2-1	Storage in High temp.	Storage in $+70^{\circ}\text{C} \pm 2^{\circ}\text{C}$ test box for 240 hours, then expose to the room temperature for 2 hours without applying power.
2-2	Storage in Lower temp.	Storage in $-30^{\circ}\text{C} \pm 2^{\circ}\text{C}$ test box for 240 hours, then expose to the room temperature for 2 hours without applying power.
2-3	Storage in Humidity	Storage in $+40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 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.	<p>Make this test for 5 cycles without applying power, then expose to the room temperature for 2 hours.</p>
2-5	Vibration test	<p>Amplitude: 1.5mm Time : 1min/axis</p> <p>Make this test for the directions of X,Y, Z for 2 hours each (total 6 hours).</p>
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.: $260 \pm 5^{\circ}\text{C}$ Heat applying time: $3 \pm 0.5\text{sec}$ .

### PASS CRITERION :

After these tests , the change of S.P.L shall be within  $\pm 5 \text{ dB}$  .

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## 3.MEASURING METHOD(BUZZER MODE)

### 3-1 .Test Condition

#### 3-1-1.STANDARD

Temperature :  $25 \pm 3^{\circ}\text{C}$

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

#### 3-1-2.JUDGEMENT

Temperature :  $15 \sim 35^{\circ}\text{C}$

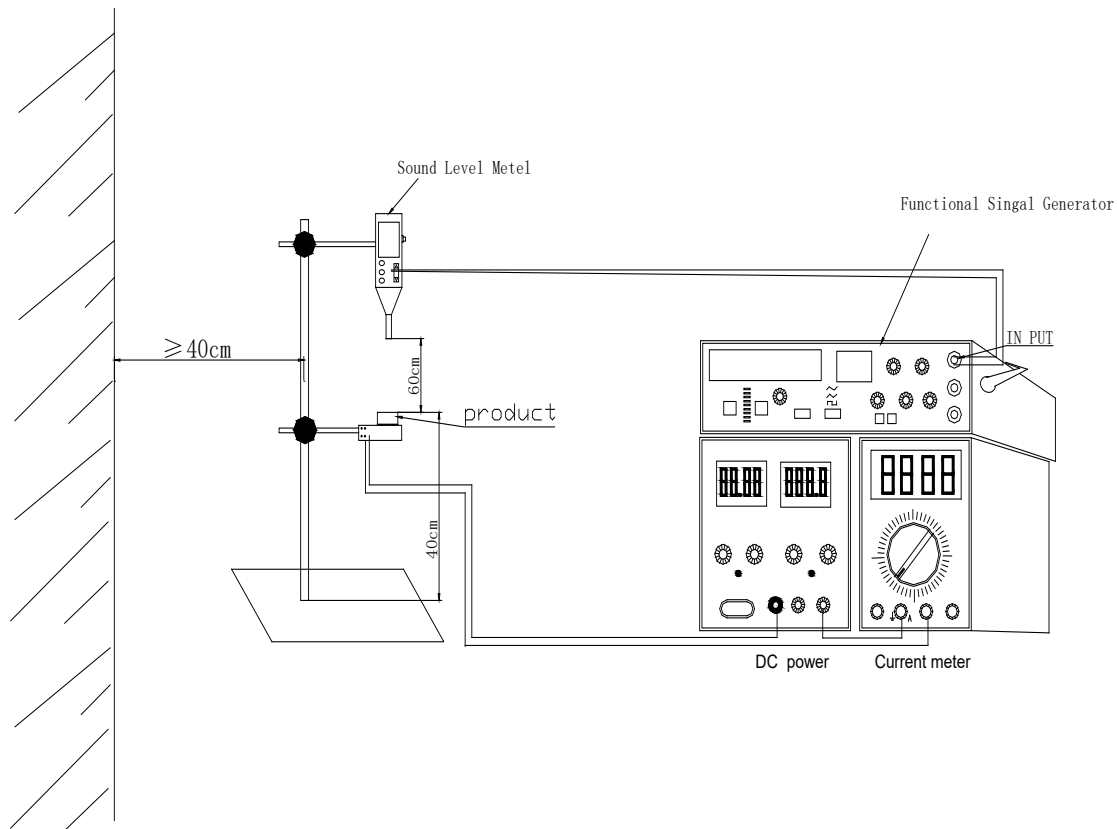
Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

### 3-2 . Standard Test Fixture

1.rated Voltage: 9/48V

2.Resonant Frequency:  $2800\text{Hz} \pm 500$



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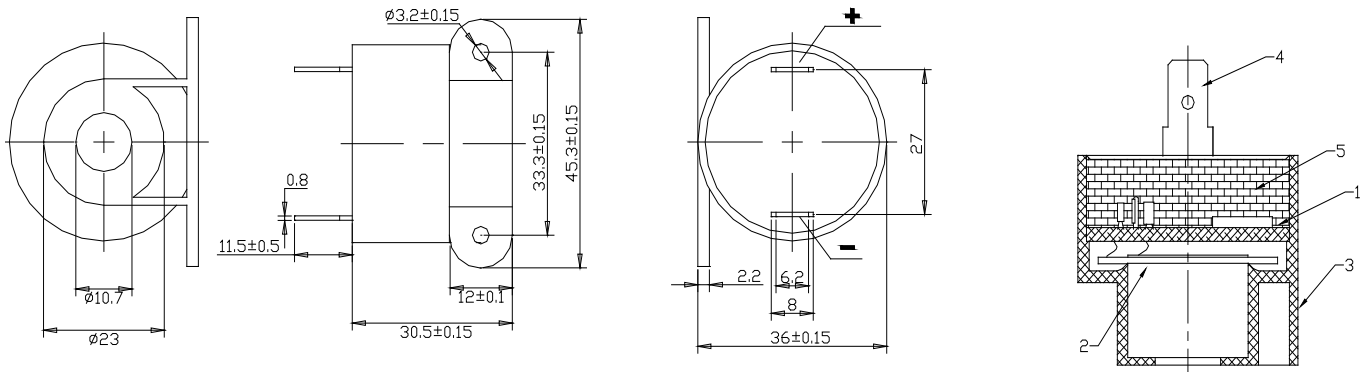
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## 4.DIMENSIONS

Unless otherwise specified, tolerance:  $\pm 0.5$ (unit:mm)



- 1) All parts must be meet to ROHS.
- 2) Wave solder and wash not allowed.

7				
6				
5	Potting		Epoxy	
4	Lead pin	2	Brass	
3	Housing	1	Black ABS	
2	Piezo element	1	Stainless	
1	PCB	1	Epoxy Board	
Part No.	Part Name	Q'TY	Material	Remark

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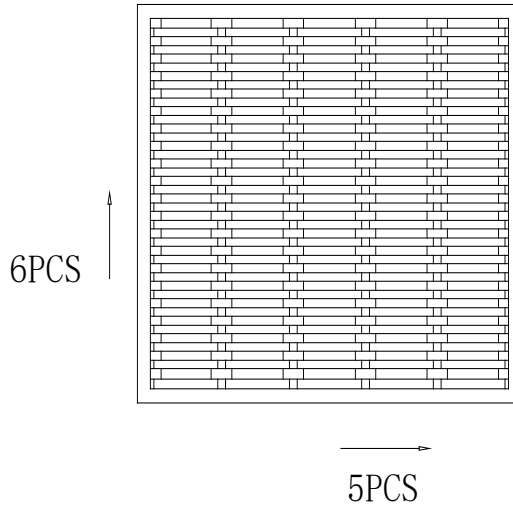
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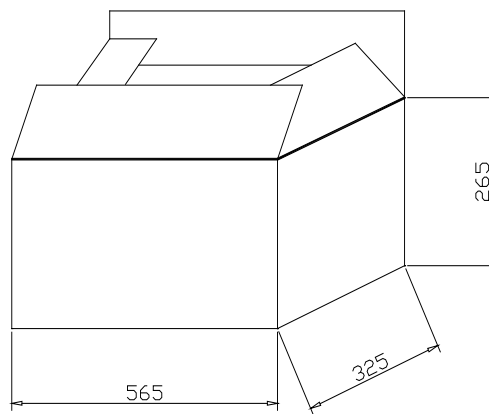
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## 5.PACKING



$6 \times 5 \text{PCS} = 30 \text{PCS/box}$  每盒放  $6 \times 5 = 30$  只



300PCS/CTN 每箱放300只

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