

# SPECIFICATION

## FOR APPROVAL

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

Description : Piezo Buzzer G82

ICC/Intervox Model No. : BSP111.7SM-25-GW-T/R

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

ISSUE	CHECK	APPROVAL	CUSTOMER
Zhu Yu 13.03.25	Shi Cong 13.03.25	WangXueWen 13.03.25	

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# SPECIFICATIONS

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## 1. ELECTRICAL AND ACOUSTICAL SPECIFICATION

	Item	Unit	Specifications
1-1	Rated Voltage (Square Wave)	Vp-p	5
1-2	Operating Voltage	Vp-p	1-25
1-3	* Rated Current (Max)	mA	3
1-4	* Min Sound Output at 4.1kHz/10cm	dB	70
1-5	* Resonant Frequency	Hz	4100±500
1-6	Capacitance at 120Hz	pF	13000±30%
1-7	Operating Temperature	°C	-30~+70
1-8	Storage Temperature	°C	-40~+85
1-9	Weight	g	0.2
1-10	Housing Material		LCP
1-11	Lead Pin Material		Brass (DSn)
1-12	Tone Nature		Single
1-13	Connection		SMD

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

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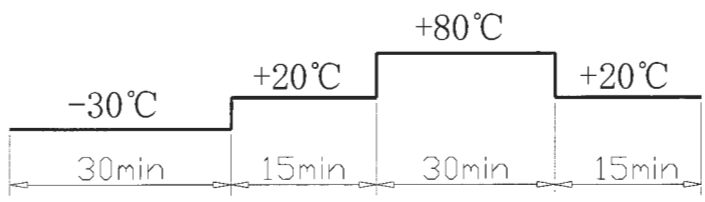
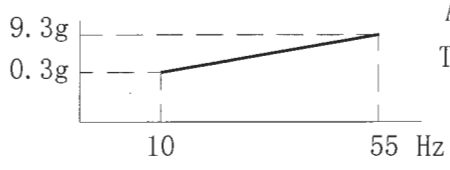
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## 2. ENVIRONMENTAL TEST

Item	Specifications
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2-1	Storage in High temp.	Storage in $+80^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 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 $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 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 100cm 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 ~ 35 $^{\circ}\text{C}$

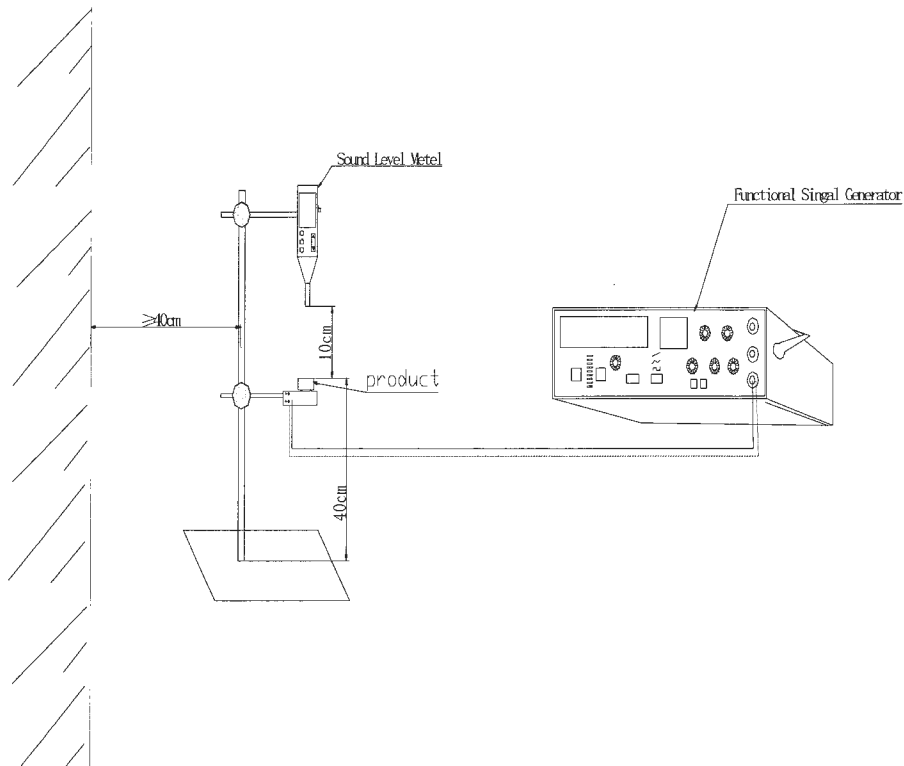
Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

#### 3-2 . Standard Test Fixture

1.rated Voltage(Square wave):5V

2.Resonant Frequency:4100Hz



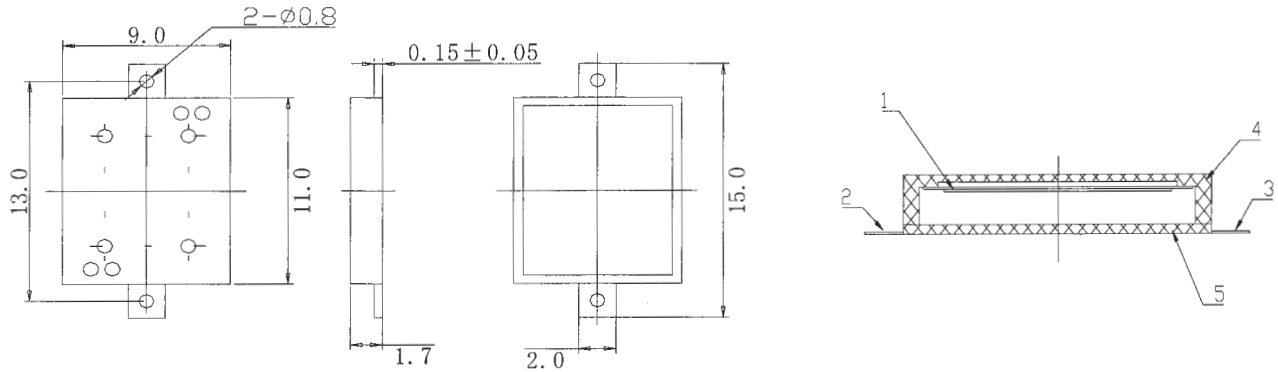
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## 5.DIMENSIONS

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



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

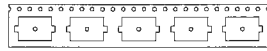
7				
6				
5	Cover	1	LCP	
4	Housing	1	LCP	
3	Pin	1	Brass (DSn)	
2	Pin	1	Brass (DSn)	
1	Piezo element	1	Nickel	
Part No.	Part Name	Q'TY	Material	Remark

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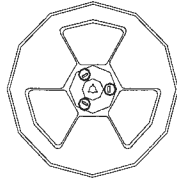
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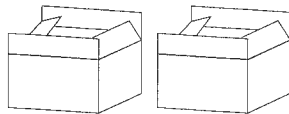
# 6.PACKING



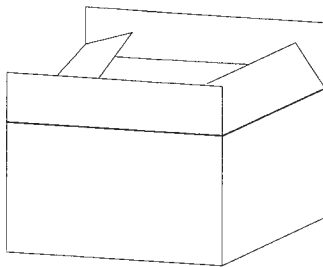
1500PCS/TAPE



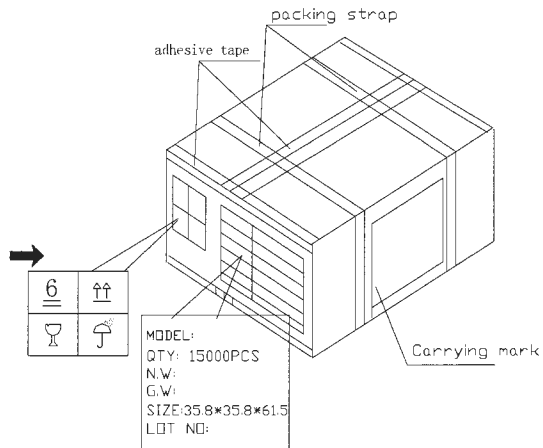
1500PCS/SPOOL



5SPOOL/BOX  
7500PCS/BOX  
box size:340x340x300mm;



box size:358x358x615mm;  
7500x2=15000pcs/box



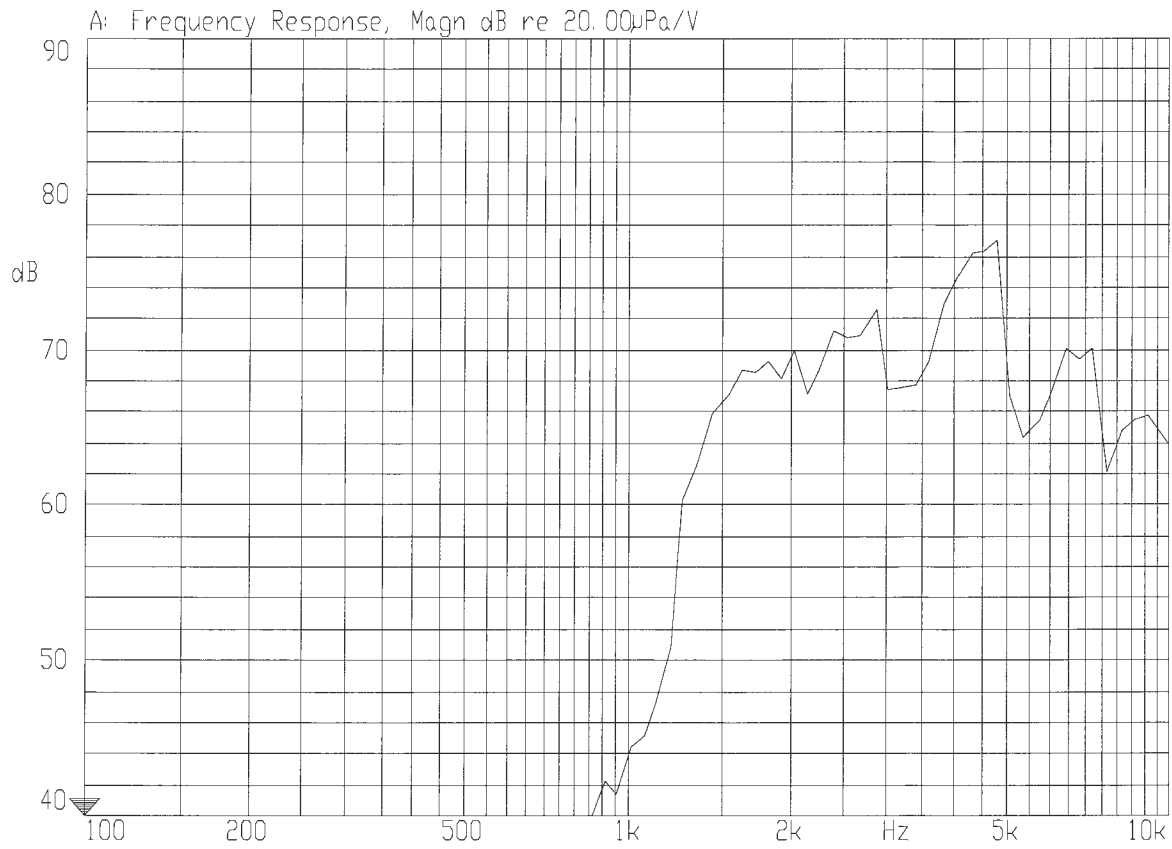
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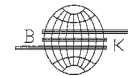
# 7.CURVE

X: 100.00Hz \*Y: 15.89dB\* ZA: Live Curve SSR T. Ha.



25-MAR-2013 09:18:10

Mode: SSR



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