



# specification

## SHEET FOR APPROVAL

Part Name: YX7525P05

Type: Magnetic Sounder

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

Number of the Edition: \_\_\_\_\_



	Approved by	Checked by	Issued by
Signature			
Date			

### Yue Xin Electronics Co., Ltd.

Add: People Industrial Park Chenbao Town Xinghua City Jiangsu province China

Tel: +86 0523 83722059 Fax: +86 0523 8372259

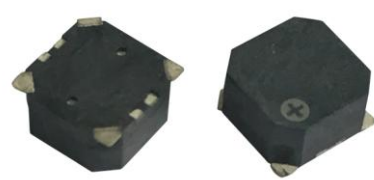
Mob: +8615952695023 Mail: [anna@xhyxdz.com](mailto:anna@xhyxdz.com)

Web: [www.xhyxdz.com](http://www.xhyxdz.com)



# Magnetic Sounder

## YX7525P

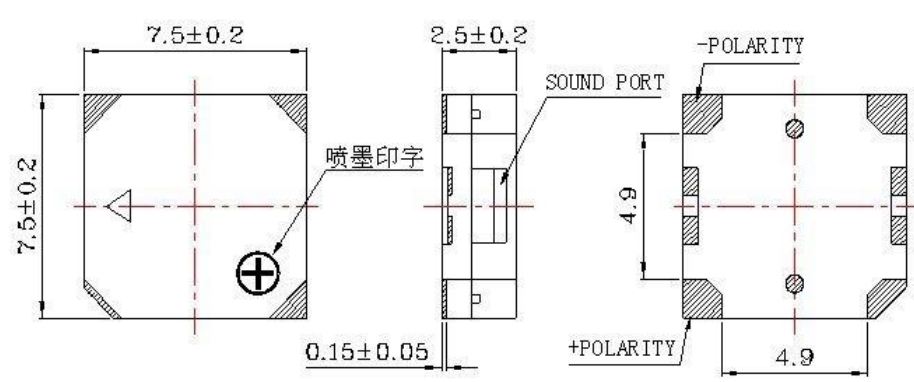


### Electrical Characteristics

Rated Voltage (Vp-p)	5
Operating Voltage (Vp-p)	3 ~ 6.5
Current Consumption (mA/max.)	90 at Rated Voltage
Coil Resistance ( $\Omega$ )	$31 \pm 3$
Sound Pressure Level (dB/min.)	82 at 10cm at Rated Voltage
Oscillation Frequency (Hz)	2700
Operating Temperature ( $^{\circ}\text{C}$ )	-20 ~ +70
Storage Temperature ( $^{\circ}\text{C}$ )	-30 ~ +80
Environmental protection rule	ROHS

PS : Vp-p = 1/2duty , square wave

### Dimensions : (Unit: mm)



Tol :  $\pm 0.3$  Unit: mm

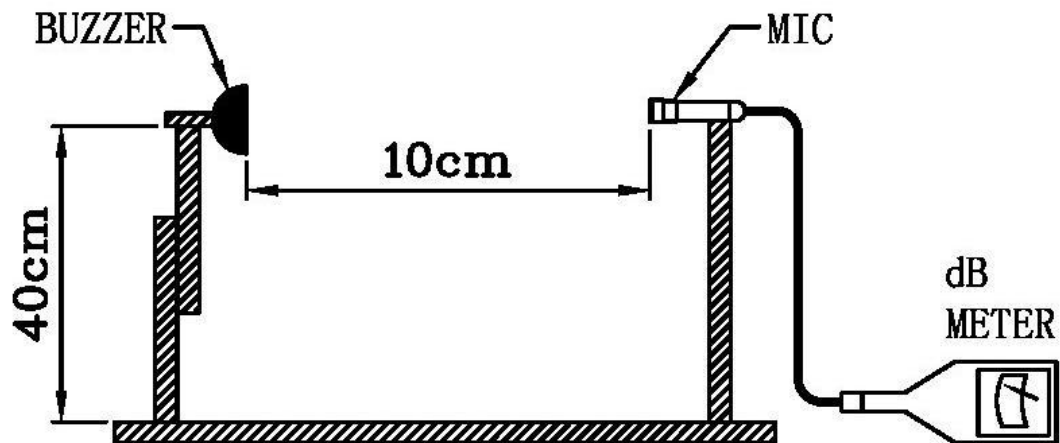
## A: TESTING METHOD

### Standard Measurement :

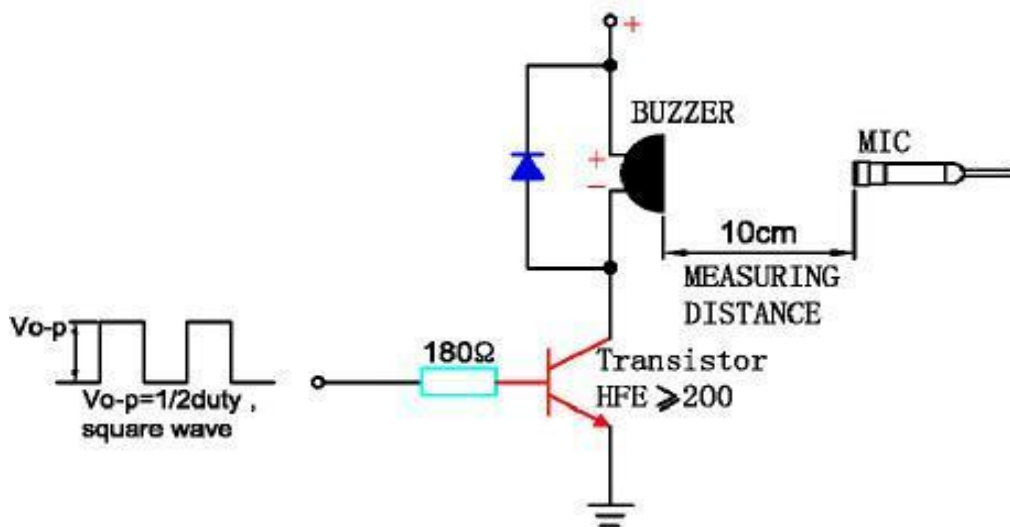
Temperature:  $25 \pm 2^\circ\text{C}$  Humidity: 45-65%

### Acoustic Characteristics:

The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



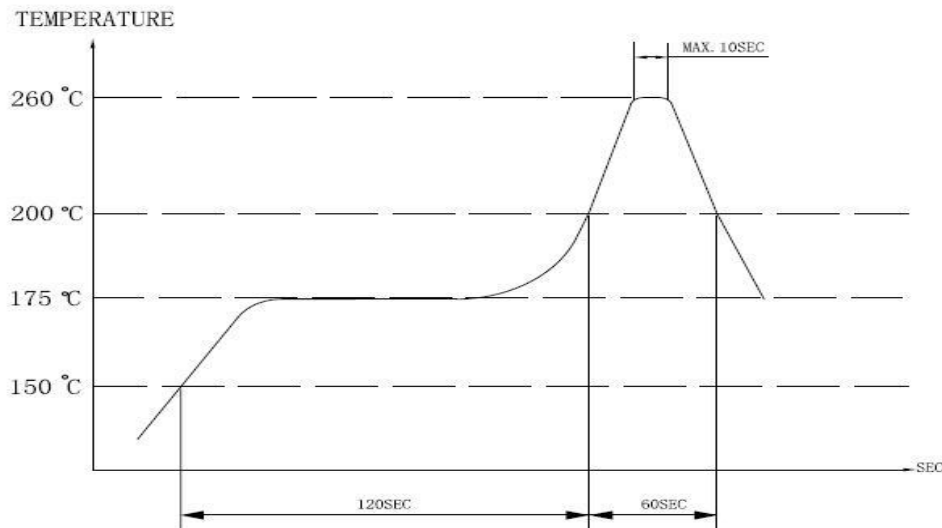
In the measuring test, buzzer is placed as follows:



## B: SOLDERING CONDITION

(1) Recommendable reflow soldering condition is as follows (Reflow soldering is twice)

**Note:** It is requested that reflow soldering should be executed after heat of product goes down to normal.



Heat resistant line

Used when heat resistant reliability test is performed

(2) Manual soldering

Manual soldering temperature 350 °C within 5 sec

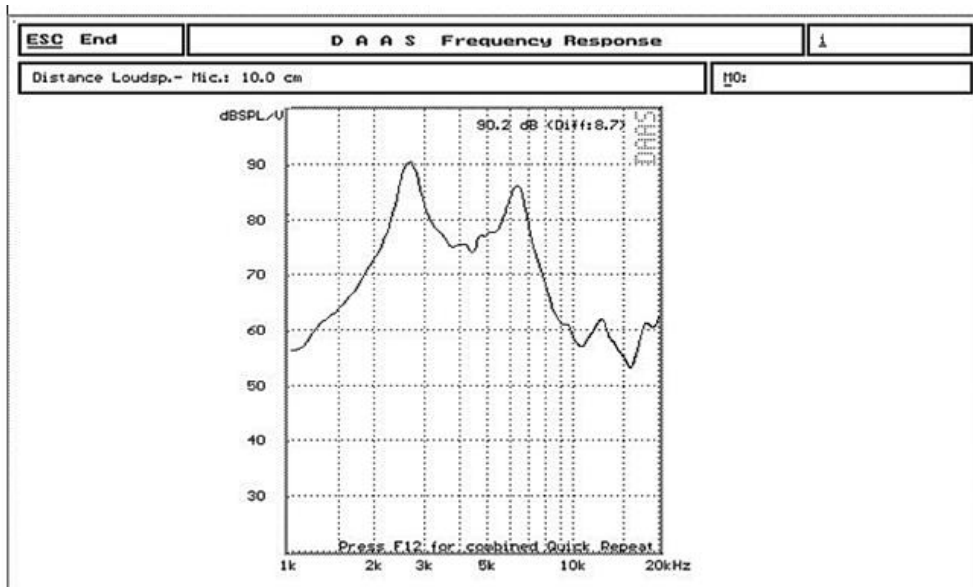
## C. MECHANICAL CHARACTERISTICS

NO.	item	Test Condition	Evaluation standard
1	Solder ability	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +270±5 for 3±1 seconds.	90% min. lead terminals shall be wet with solder. (Except the edge of terminal)
2	Soldering Heat Resistance	Lead terminal are immersed up to 1.5mm from sounder's body in solder bath of +300±5 for 3±0.5 seconds or +260±5 for 10±1 seconds	No interference in operation
3	Terminal Mechanical Strength	The force 10 seconds of 9.8N (1.0kg) is applied to each terminal in axial direction.	No damage and cutting off
4	Vibration	Buzzer shall be measured after being applied vibration of amplitude of 0.75mm with 10 to 55hz band of vibration frequency to each of 3per-pendicular directions for 0.5 hours.	The value of oscillation frequency/ current consumption should be in 10% compared with initial ones .The SPL should be
5	Drop test	The part only shall be dropped from a height of 70cm onto a 10mm thick wooden board 3 times in 3 axes (X.Y.Z). (a total of 9 times).	in ± 10dB compared with initial one.

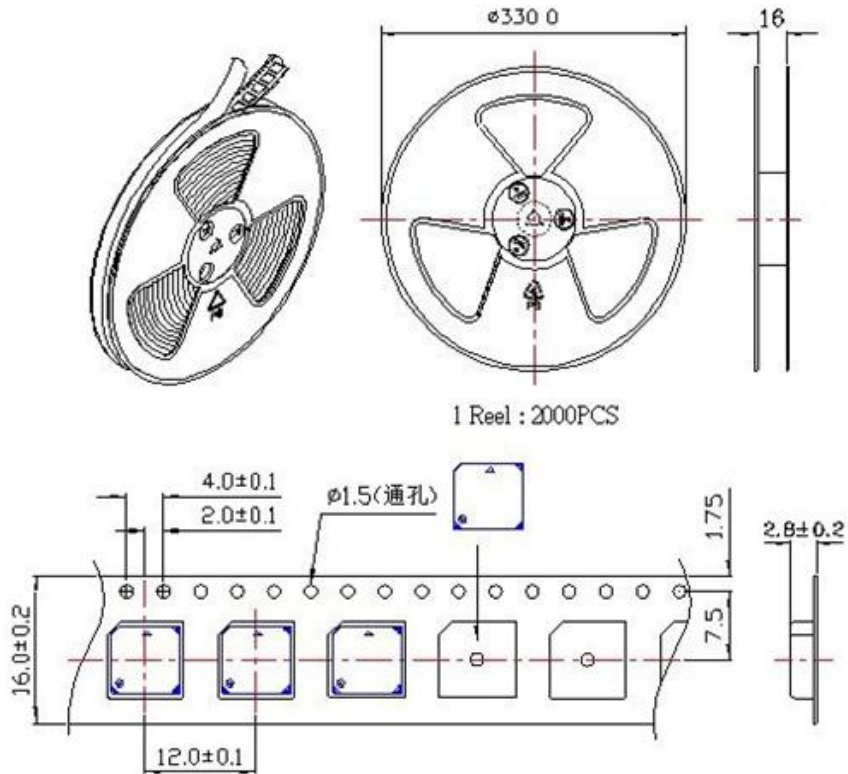
## D. ENVIRONMENT TEST

NO.	item	Test Condition	Evaluation standard
1	High temp. test	After being placed in a chamber at +80 for 96 hours	Being placed for 4 hours at +25 , buzzer shall be measured. The value of oscillation frequency/ current consumption should be in $\pm 10\%$ compared with initial ones .The SPL should be in $\pm 10\text{dB}$ compared with initial one.
2	Low temp. test	After being placed in a chamber with -30 for 96 hours	
3	Humidity test	After being placed in a chamber at +40 and 90 5% relative humidity for 96 hours	
4	Temp. cycle test	The part shall be subjected to 5 cycles. One cycle shall be consist of: <div style="text-align: center;"> <p>The diagram illustrates a temperature cycle test. It shows five consecutive cycles. Each cycle is composed of four temperature segments: a 30-minute hold at <math>-30\pm 5^\circ\text{C}</math>, a 10-minute ramp to <math>+25\pm 5^\circ\text{C}</math>, a 30-minute hold at <math>+80\pm 2^\circ\text{C}</math>, and a 10-minute ramp back to <math>+25\pm 5^\circ\text{C}</math>. A bracket below the first cycle is labeled '1 Cycle', and a larger bracket below all five cycles is labeled '5 Cycles'.</p> </div>	

## F.FREQUENCY RESPONSE:



## G. PACKING FORMAT (UNIT: mm)



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Web: [www.xhyxdz.com](http://www.xhyxdz.com)