



# SPECIFICATION

## FOR APPRONAL

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

Product Name : SMD Buzzer  
\_\_\_\_\_

Model Name : VS7525A  
\_\_\_\_\_

Drawing No. : VS201815014  
\_\_\_\_\_

### Signature of Voise

Approved by	Checkde by	Issued by	Date



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## 2. Scope

This product specification is applied to the Magnetic Buzzer in alarm systems. Please contact us when using this product for any other applications than described in the above.

## 3. General Characteristics

- 3.1 Out-Diameter : 7.5x7.5 mm
- 3.2 Height : 2.5 mm
- 3.3 Weight : 0.4 g
- 3.4 Operating Temperature : -30~+80°C without loss of function
- 3.5 Store Temperature : -40~+80°C without loss of function

## 4. Electrical and Acoustic Characteristics.

Test condition :15 ~ 35 °C Temp., 25% ~ 75% RH,86~106 kPa Refer to IEC60268-1

No	Items	Specification
1	Rated Voltage	3.6Vp-p
2	Working Voltage	2.5-4.5Vp-p
3	Rated Current	90mA/3.6Vp-p/2.7kHz
4	Sound Preesure Level	85dB/3.6Vp-p/10cm
5	Resonant Frequency	2.7kHz
6	Coil resistance	15±3Ω
7	Housing Material	LCP
8	Color	Black

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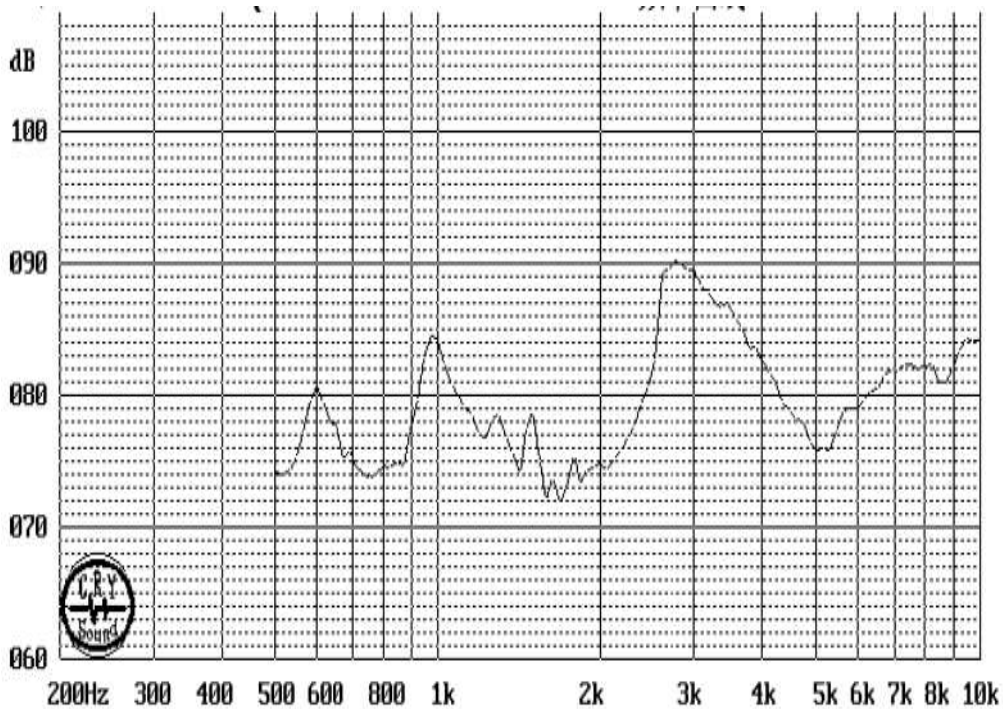
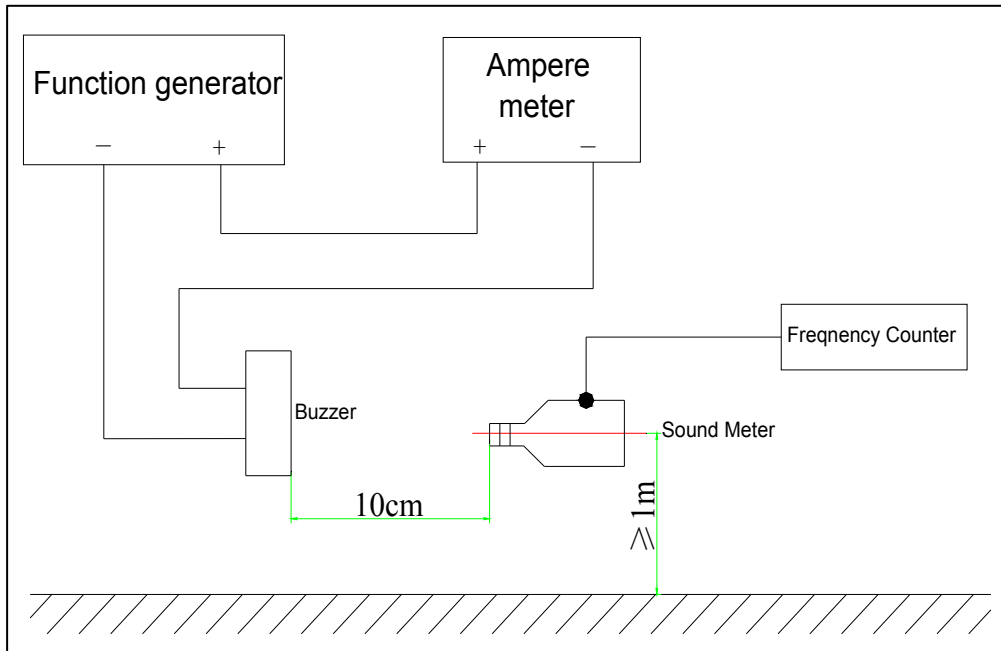
## 5. Reliability Test

After test(1~7item), the buzzer S.P.L . difference shall be within  $\pm 10\text{dB}$ , and the appearance not exist any change to be harmful to normal operation

No	Items	Specification
1	High Temp.Test	After being placed in a chamber with $+80\pm 5\text{ }^\circ\text{C}$ for 96h and then being placed in natural condition for 4h, and then check.
2	Low Temp.Test	First being placed in a chamber with $-30\pm 2\text{ }^\circ\text{C}$ for 96h and then being placed in natural condtion for 4h, and then check.
3	Humidity Test	After being placed in a chamber with 90 to 98%R.H. at $+80\pm 5\text{ }^\circ\text{C}$ for 12 h and then being placed in natural condition for 4h ,and then check.
4	Thermal Shock Test	After being worked in a chamber at $+70\pm 5\text{ }^\circ\text{C}$ for 0.5 hour, then sounder shall be placed in a chamber at $-30\pm 5\text{ }^\circ\text{C}$ for 0.5 hour(1 cycle is the below diagram). The test duration is for 10 cycle.after being placed in natural condition for 4 hour.and then check.
5	Vibration Test	Being applied vibration of amplitude of 1.5mm with 10-55Hz band of vibration frequency,X.Y.Z.3 direction.2 hours each, total 6 hours.
6	Drop Test	Free drop fram 0.75 meter height to a board 40mm thick hard wood board 3 times in 3 axes(X.Y.Z).tatol 9 times. and be nothing mechanical damage.
7	Solderability	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of $+240\pm 5\text{ }^\circ\text{C}$ for $3\pm 0.5$ seconds.
8	Terminal Strength Pulling	The force 10 seconds of 9.8N is applied go each terminal in axial direction.
9	Soldering heat resistance	The product is followed the reflow temperature curve to test its reflow thermostability.
10	continuous life test	The part shall be subjected to 72 hours at $+65\text{ }^\circ\text{C}$ with $V_o\text{-}p3.6\text{V}, 2.7\text{kHz}$ applied,and then check.
11	Intermittent life test	A duty cycle of 1 minute on, 1 minutes off, a minimum of 5000 times at room temp.with $V_o\text{-}p3.6\text{V}, 2.7\text{kHz}$ applied,and then check.

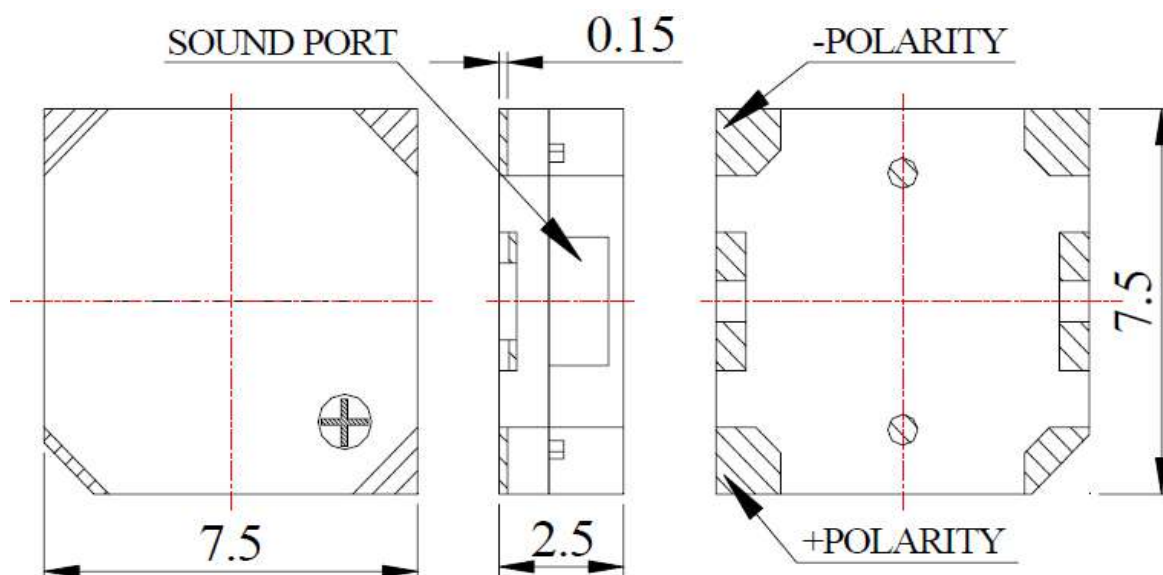
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## 6. Measurement Method & Frequency Response curve



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## 7. Dimensions



FIRST ANGLE PROJECTION



UNIT : mm

Tolerance :  $\pm 0.3$

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## 8. Packing

Each minimum package unit of products shall be in a carton box and it shall be clearly marked with Part Number ,quantity and outgoing inspection number.

There shall be no mechanical damage on products during in storage.