

# SPECIFICATION

## FOR APPROVAL

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

Product Name : Piezo Buzzer(Self-drive)  
\_\_\_\_\_

Model Name : Piezo Buzzer(Self-drive)  
\_\_\_\_\_

Drawing No. : VS20140620005  
\_\_\_\_\_

### 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 : 14 mm
- 3.2 Height : 7.5 mm
- 3.3 Weight : 2 g
- 3.4 Operating Temperature : -20~+70°C without loss of function
- 3.5 Store Temperature : -30~+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	12V DC
2	Working Voltage	3-16V DC
3	Max Rated Current	8mA/12VDC
4	Min Sound Pressure Level	85dB/12VDC/10cm
5	Resonant Frequency	4.0±0.5KHz
6	Tone Nature	Continuous
7	Housing Material	PBT
8	Color	Black

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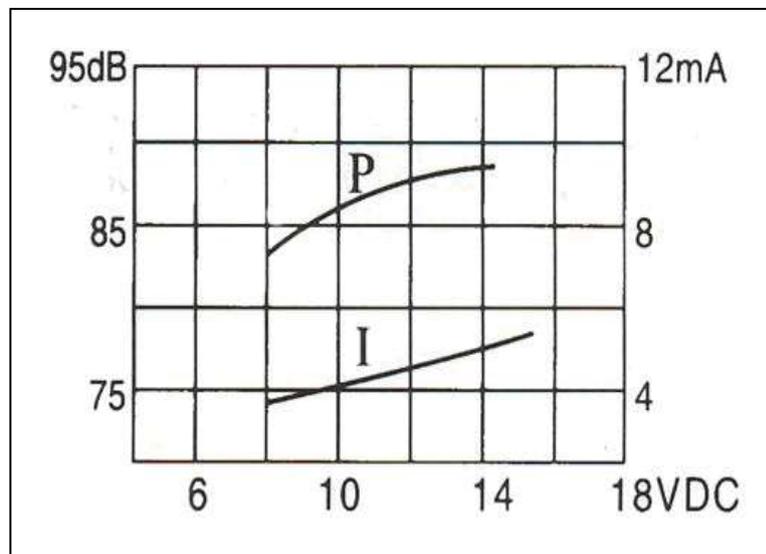
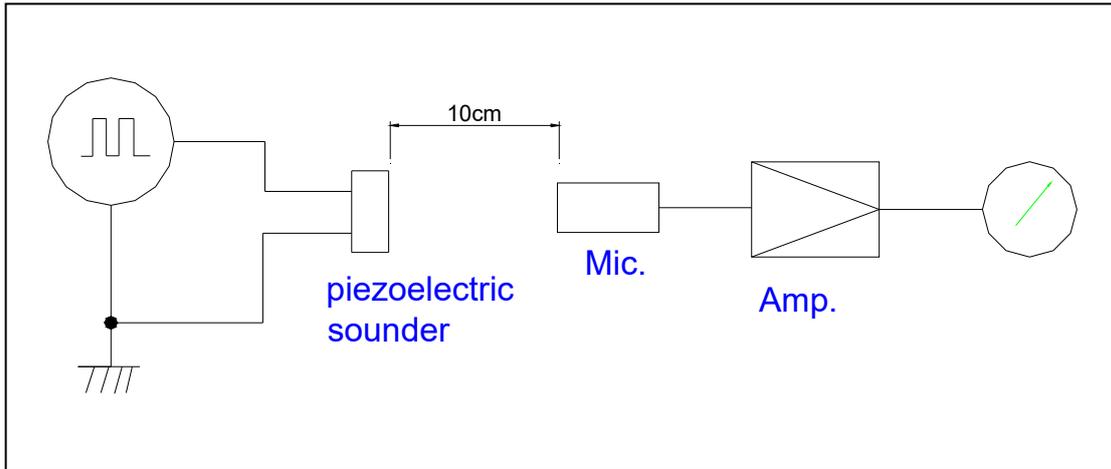
## 5. Reliability Test

After test(1~7item), the buzzer S.P.L . difference shall be within  $\pm 8\text{dB}$ , and the appearance not exist any change to be harmful to normal operation

No	Items	Specification
1	High Temp.Test	After being woked in a chamber with $+70\pm 2\text{ }^\circ\text{C}$ for 100h and then being placed in natural condition for 2h, and then check.
2	Low Temp.Test	First being worked in a chamber with $-30\pm 2\text{ }^\circ\text{C}$ for 100h and then being placed in natural condition for 2h, and then check.
3	Humidity Test	After being placed in a chamber with 90 to 95%R.H. at $+40\pm 2\text{ }^\circ\text{C}$ for 100 h and then being placed in natural condition for 2h ,and then check.
4	Thermal Shock Test	After being worked in a chamber at $+70\pm 2\text{ }^\circ\text{C}$ for 1 hour, then sounder shall be placed in a chamber at $-30\pm 2\text{ }^\circ\text{C}$ for 1 hour(1 cycle is the below diagram). The test duration is for 10 cycle.after being placed in natural condition for 1 hour.and then check.
5	Vibration Test	Being applied vibration of amplitude of 1.5mm with 10-30Hz band of vibration frequency,X.Y.Z.3 direction.2 hours each, total 6 hours.
6	Drop Test	Free drop fram 1.0 meter height to a board 20mm thick hard wood board. and be nothing mechanical damage. tatol 6 times.
7	Solderability	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of $+260\pm 5\text{ }^\circ\text{C}$ 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.

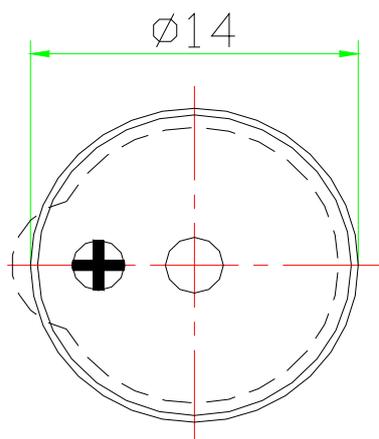
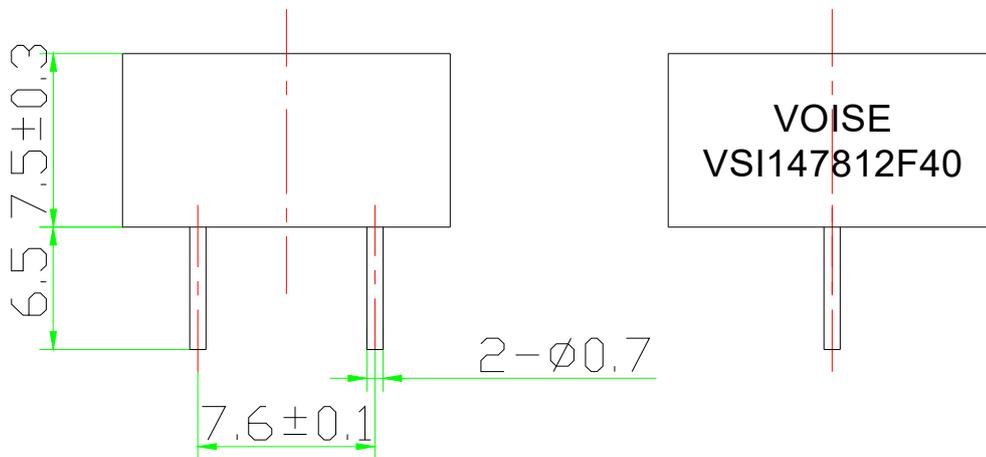
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## 6. Measurement Method & Frequency Response curve



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## 7. Dimensions



FIRST ANGLE PROJECTION



UNIT : mm

Tolerance : ±0.2

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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.