

# SPECIFICATION

## FOR APPROVAL

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

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

Model Name : VSI4314F29P \_\_\_\_\_

Drawing No. : VS20230910007 \_\_\_\_\_

### Signature of Voise

Approved by	Checkde by	Issued by	Date

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## 2. Scope

This product specification is applied to the Piezo 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 : 43 mm
- 3.2 Height : 14 mm
- 3.3 Weight : 11 g
- 3.4 Operating Temperature : -30~+85°C without loss of function
- 3.5 Store Temperature : -40~+90°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	3-30V DC
3	Max Rated Current	1 mA/3 VDC, 9 mA/12 VDC, 30 mA/24 VDC
4	Min Sound Pressure Level	85dB-100dB-102dB/3-12VDC-24VDC/30cm
5	Resonant Frequency	2.9±0.5KHz
6	Tone Nature	Continuous
7	Housing Material	ABS (UL 94 V0)
8	Color	Black

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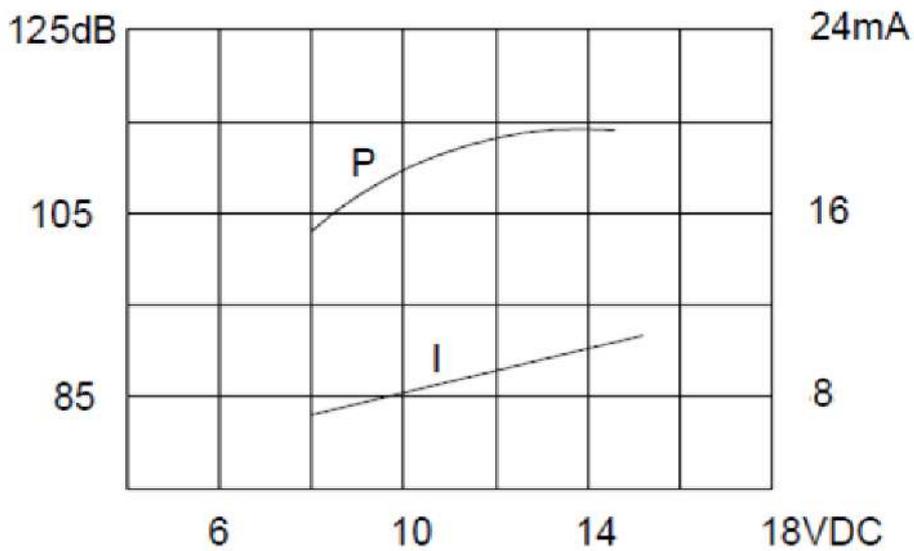
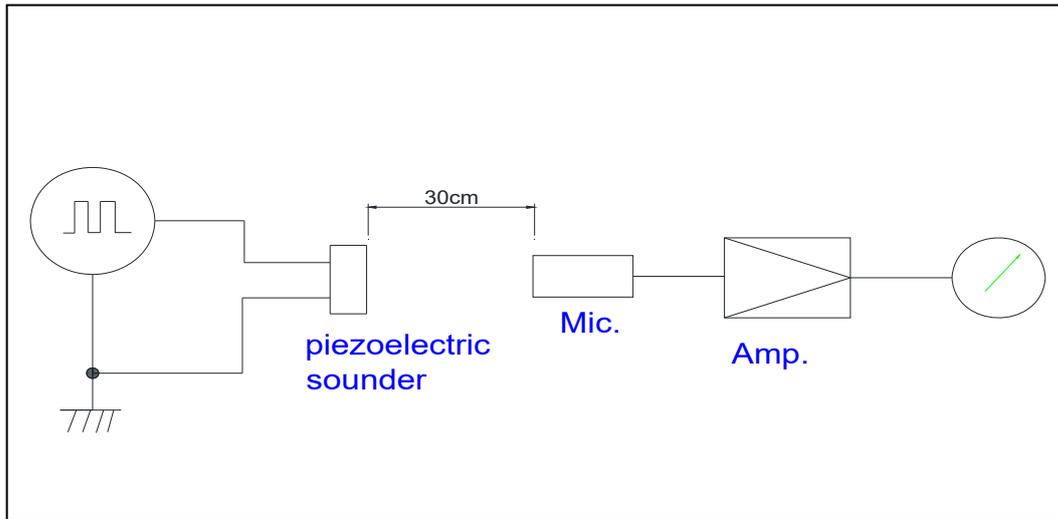
## 5. Reliability Test

After test(1~6item), the buzzer S.P.L . difference shall be within  $\pm 8$ 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 $+70\pm 2$ °C for 100h and then being placed in natural condition for 4h, and then check.
2	Low Temp.Test	First being worked in a chamber with $-30\pm 2$ °C for 100h and then being placed in natural conditio for 4h, and then check.
3	Humidity Test	After being placed in a chamber with 90 to 95%R.H. at $+40\pm 2$ °C for 100 h and then being placed in natural condition for 4h ,and then check.
4	Thermal Shock Test	After being worked in a chamber at $+70\pm 2$ °C for 1 hour, then sounder shall be placed in a chamber at $-30\pm 2$ °C for 1 hour(1 cycle is the below diagram). The test duration is for 5 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	Shock Test	Sounder shall be measured aftar being applied shock( $490M/s^2$ )for each mutually perpendicular directions to each of 3 times by half sine wave.
7	Soldering Heat Resistance	Lead terminal are immersed up to 1.5mm from sounder's body in solder both of $+300\pm 5$ °C for $3\pm 0.5$ °C seconds or $260\pm 5$ °C for $10\pm 1$ sec,and then sounder shallbe measured after being palaced in natural condition for 4 hours.
8	Solderability	Lead terminal are immersed in rosin for 5 sec and then immersed in solder bath of $230\pm 5$ °C for $3\pm 0.5$ °C seconds
9	Terminal Strength Pulling	The firce 10 seconds of 9.8N is applied to each terminal in axial direction. No visible damage and cutting off.

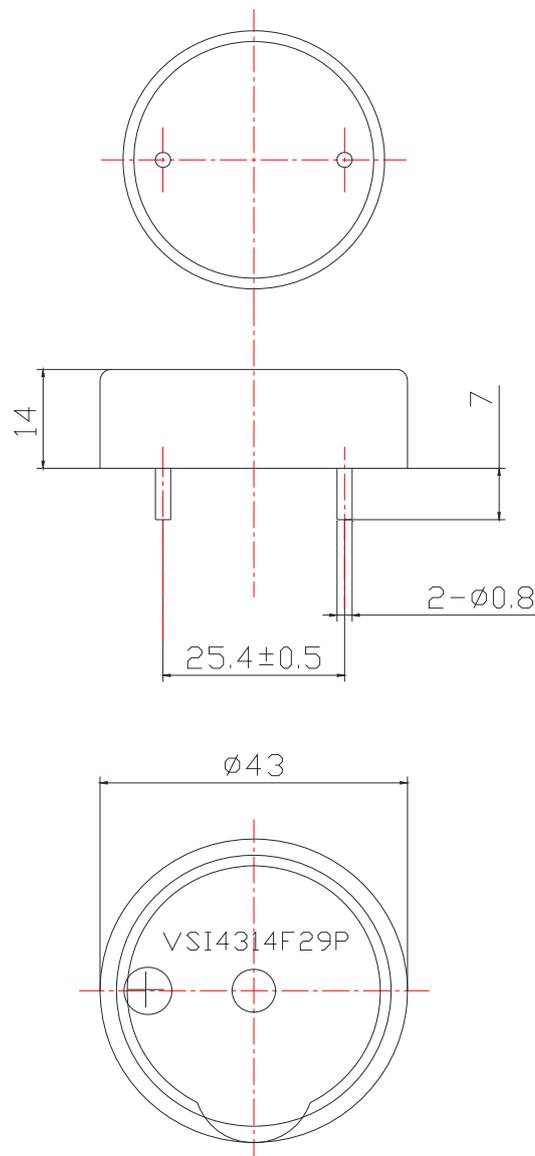
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## 6. Measurement Method & Frequency Response curve



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## 7. Dimensions



FIRST ANGLE PROJECTION



UNIT : mm

Tolerance :  $\pm 0.2$

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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.