



SPECIFICATION

FOR APPRONAL

Customer : _____

Product Name : Piezo Buzzer(Self-drive) _____

Model Name : VSI2316P _____

Drawing No. : VS20190517008 _____

Signature of Voise

Approved by	Checkde by	Issued by	Date



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Specification for Piezo Buzzer		Page	2/7
		Revision No.	1.0
Model No.:	VSI2316P	Drawing No.	VS20190517008

Table of contents

1. Revision
2. Scope
3. General Characteristics
4. Electrical and Acoustic Characteristics.
5. Reliability Test
6. Measurement Method & Frequency Response curve
7. Dimensions
- 8.Packing

1. Revision

Rev.No.	Date	Page	Description of Revision
1.0	2019/5/17		Preliminary



Specification for Piezo Buzzer		Page	3/7
		Revision No.	1.0
Model No.:	VSI2316P	Drawing No.	VS20190517008

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 : 23 mm
- 3.2 Height : 16 mm
- 3.3 Weight : 5 g
- 3.4 Operating Temperature : -40~+80°C without loss of function
- 3.5 Store Temperature : -40~+100°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	3-24V DC
3	Max Rated Current	20mA/12VDC
4	Min Sound Preesure Level	90dB/12VDC/30cm
5	Resonant Frequency	2.9±0.5KHz
6	Tone Nature	Continuous
7	Housing Material	PC
8	Color	Black



Specification for Piezo Buzzer		Page	4/7
		Revision No.	1.0
Model No.:	VSI2316P	Drawing No.	VS20190517008

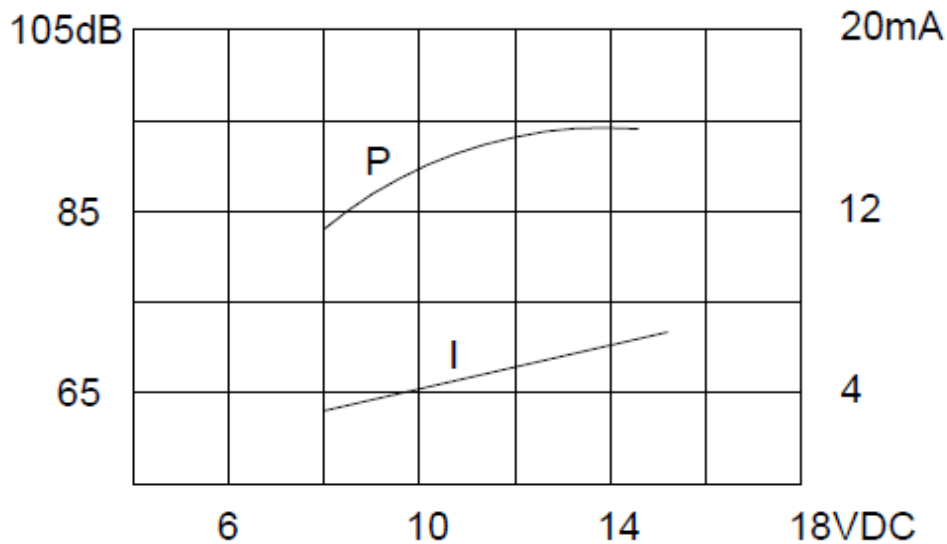
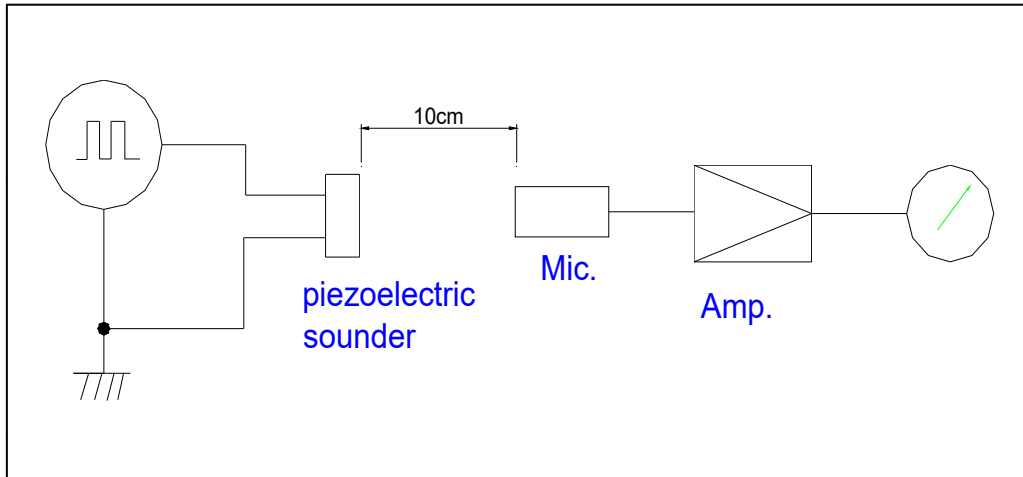
5. Reliability Test

After test(1~6item), 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 $+100\pm 2\text{ }^\circ\text{C}$ 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 $-30\pm 2\text{ }^\circ\text{C}$ for 100h and then being placed in natural condition for 4h, 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 4h ,and then check
4	Thermal Shock Test	After being worked in a chamber at $+100\pm 2\text{ }^\circ\text{C}$ 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 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 $+300\pm 5\text{ }^\circ\text{C}$ for $3\pm 0.5\text{ }^\circ\text{C}$ seconds or $260\pm 5\text{ }^\circ\text{C}$ for $10\pm 1\text{sec}$,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 $230\pm 5\text{ }^\circ\text{C}$ for $3\pm 0.5\text{ }^\circ\text{C}$ 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.

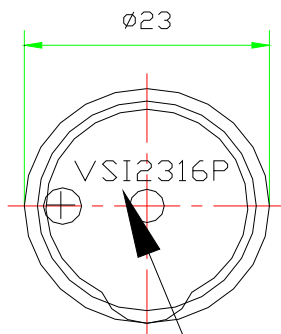
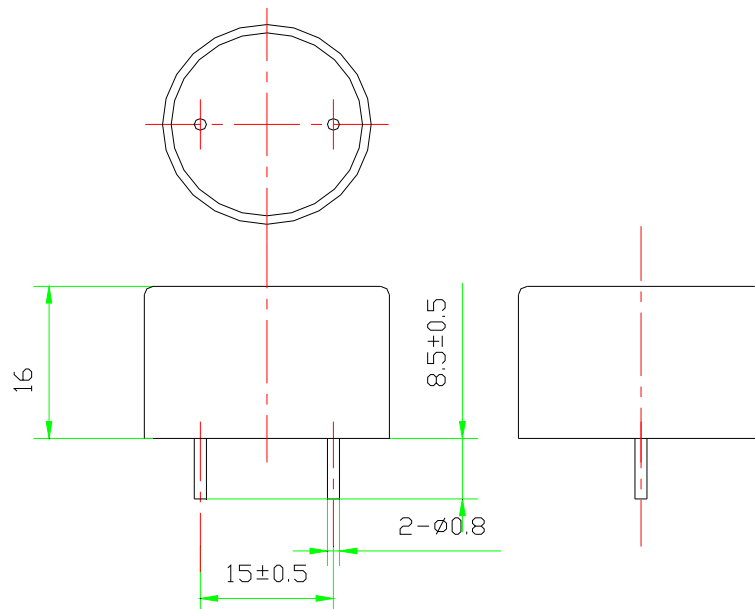
Specification for Piezo Buzzer		Page	5/7
		Revision No.	1.0
Model No.:	VSI2316P	Drawing No.	VS20190517008

6. Measurement Method & Frequency Response curve



Specification for Piezo Buzzer		Page	6/7
		Revision No.	1.0
Model No.:	VSI2316P	Drawing No.	VS20190517008

7. Dimensions



nonwashable Label
Marking VSI2316P

FIRST ANGLE PROJECTION



UNIT : mm

Tolerance : ± 0.2



Specification for Piezo Buzzer		Page	7/7
		Revision No.	1.0
Model No.:	VSI2316P	Drawing No.	VS20190517008

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.