

# SPECIFICATION

## FOR APPROVAL

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

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

Model Name : VS1225PA \_\_\_\_\_

Drawing No. : VS20210904021 \_\_\_\_\_

### Signature of Voise

Approved by	Checkde by	Issued by	Date



Office Add:Haoyangguang B-302# No.968 Baizhang Road,Ningbo China  
Factory add: Shishan Industrial Park Moushan Town Yuyao City China  
Tel:86-0574-87471601 Fax:86-0574-87471603 P.C.315000  
Http://www.nbvoise.com E-mail:sales@nbvoise.com

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		Drawing No.	VS20210904021

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### 1. Revision

Rev.No.	Date	Page	Description of Revision
1.0	2021/9/4		Preliminary

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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 : 12x12 mm
- 3.2 Height : 2.5 mm
- 3.3 Weight : 0.4 g
- 3.4 Operating Temperature : -40~+80°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	5Vp-p
2	Max Working Voltage	25Vp-p
3	Max Rated Current	8mA/5Vp-p/4.1kHz
4	Min Sound Pressure Level	75dB/5Vp-p/10cm
5	Resonant Frequency	4.1kHz
6	Electrostatic capacity	16000±30%pF at 100Hz/1V
7	Housing Material	LCP
8	Color	Black

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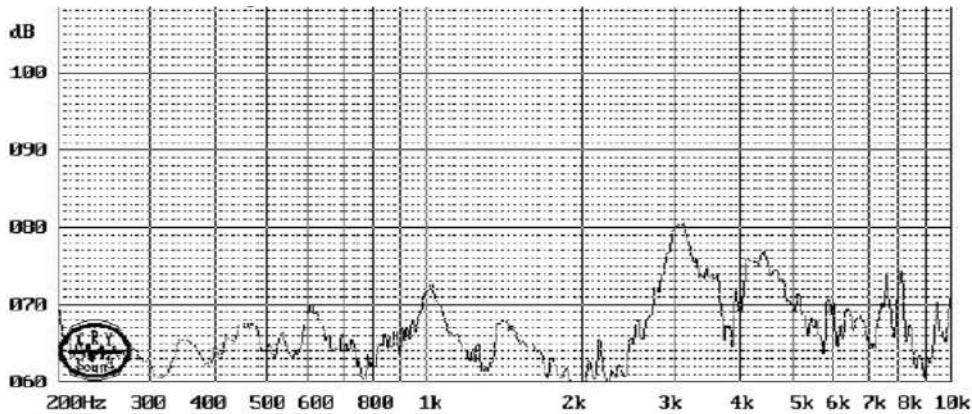
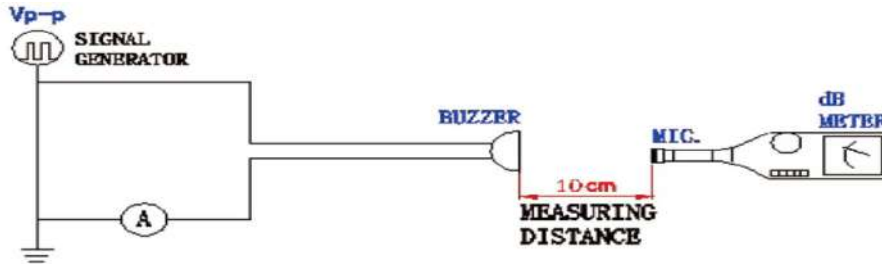
## 5. Reliability Test

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

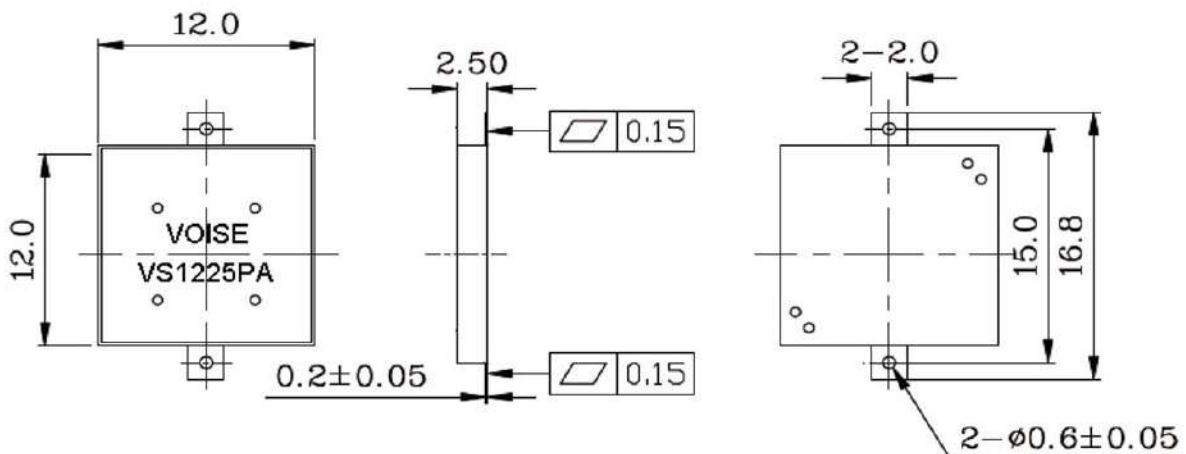
No	Items	Specification
1	High Temp.Test	After being placed in a chamber with $+80\pm 5\text{ }^\circ\text{C}$ for 96h and then being placed in natural condition for 4h, and then check.
2	Low Temp.Test	First being placed in a chamber with $-30\pm 2\text{ }^\circ\text{C}$ for 96h and then being placed in natural condition 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 $+80\pm 5\text{ }^\circ\text{C}$ 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.

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## 6. Measurement Method & Frequency Response curve



## 7. Dimensions



FIRST ANGLE PROJECTION

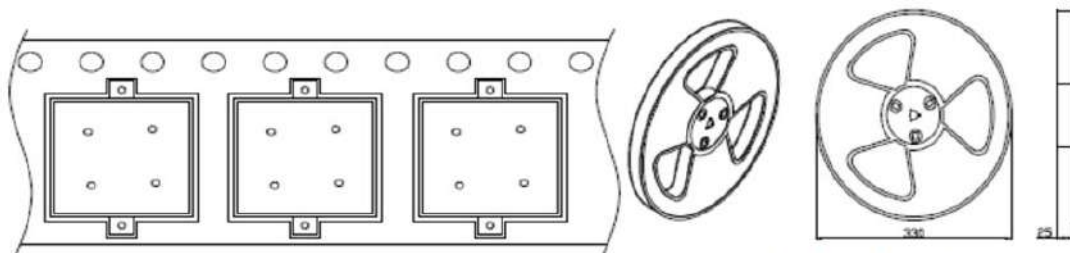


UNIT : mm

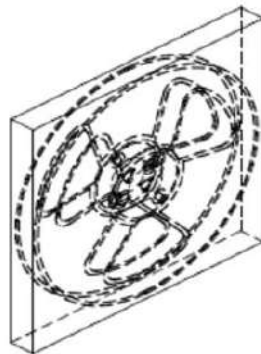
Tolerance : ±0.3

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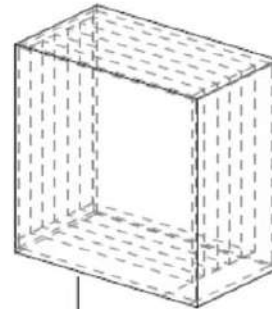
## 8. Packing



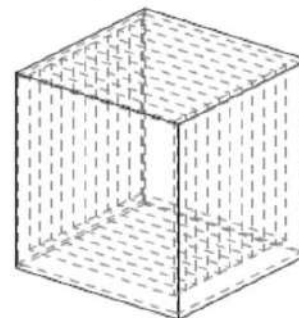
1 Reel: 1000 Pcs



Inner Box  
1 Layer Reel



Carton Box  
(5 Inner Box)



Carton Box  
(2 Inner Box)