

SPECIFICATION

FOR APPROVAL

Customer : _____

Product Name : Piezo Buzzer(Self-drive)

Model Name : VSI1410F40PWP

Drawing No. : VS20241211007

Signature of Voise

| Approved by | Checkde by | Issued by | Date |
|-------------|------------|-----------|------|
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| | | Revision No. | 1.0 | |
| Model No.: | VSI1410F40PWP | | Drawing No. | VS20241211007 |

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 : 14 mm
- 3.2 Height : 7.5 mm
- 3.3 Weight : 5 g
- 3.4 Operating Temperature : -30~+85°C without loss of function
- 3.5 Store Temperature : -40~+95°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 | 9-16V DC |
| 3 | Max Rated Current | 35mA/12VDC |
| 4 | Min Sound Pressure Level | 80dB/12VDC/10cm |
| 5 | Resonant Frequency | 4.0±0.5KHz |
| 6 | Tone Nature | Continuous |
| 7 | Housing Material | PBT+15%Glass |
| 8 | Color | Black |
| 9 | Waterproof | IP67 |

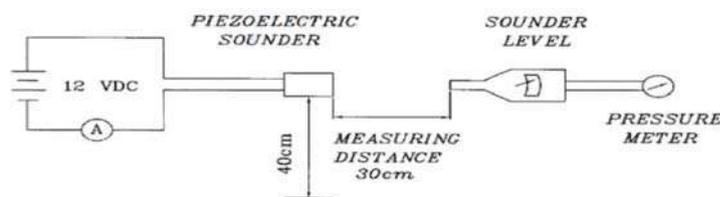
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5. Reliability Test

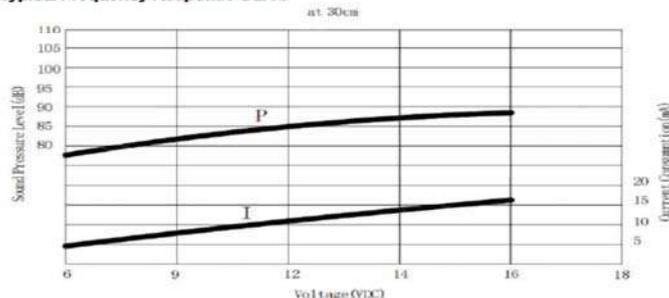
After test(1~7item), the buzzer S.P.L . difference shall be within $\pm 8\text{dB}$, and the appearance not exist any change to be harmful to normal operation

| No | Items | Specification |
|----|---------------------------|--|
| 1 | High Temp. Test | After being woked in a chamber with $+90\pm 2\text{ }^\circ\text{C}$ for 240h 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 240h and then being placed in natural condtion 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 $+90\pm 2\text{ }^\circ\text{C}$ 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 | 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 5 ± 0.5 seconds. |
| 8 | Terminal Strength Pulling | The force 10 seconds of 9.8N is applied go each terminal in axial direction. |

6. Measurement Method & Frequency Response curve

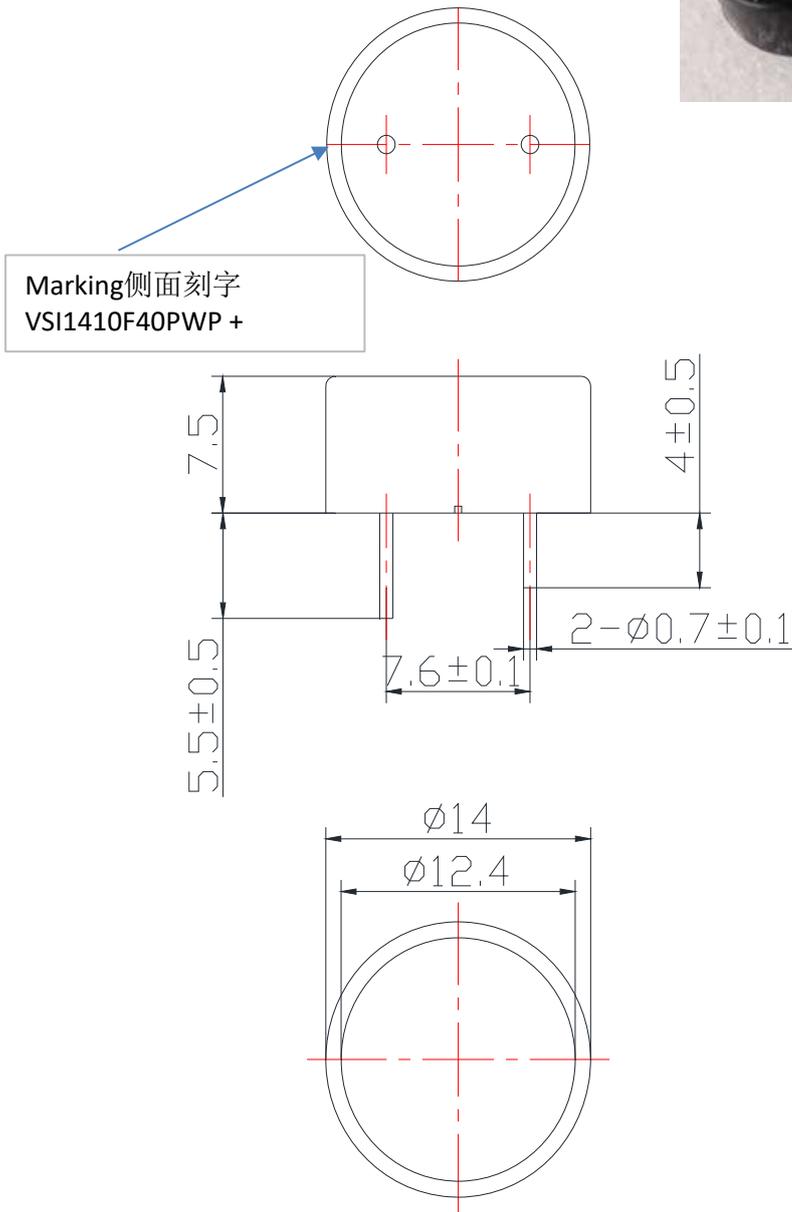


E. Typical Frequency Response Curve



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7. Dimensions



FIRST ANGLE PROJECTION

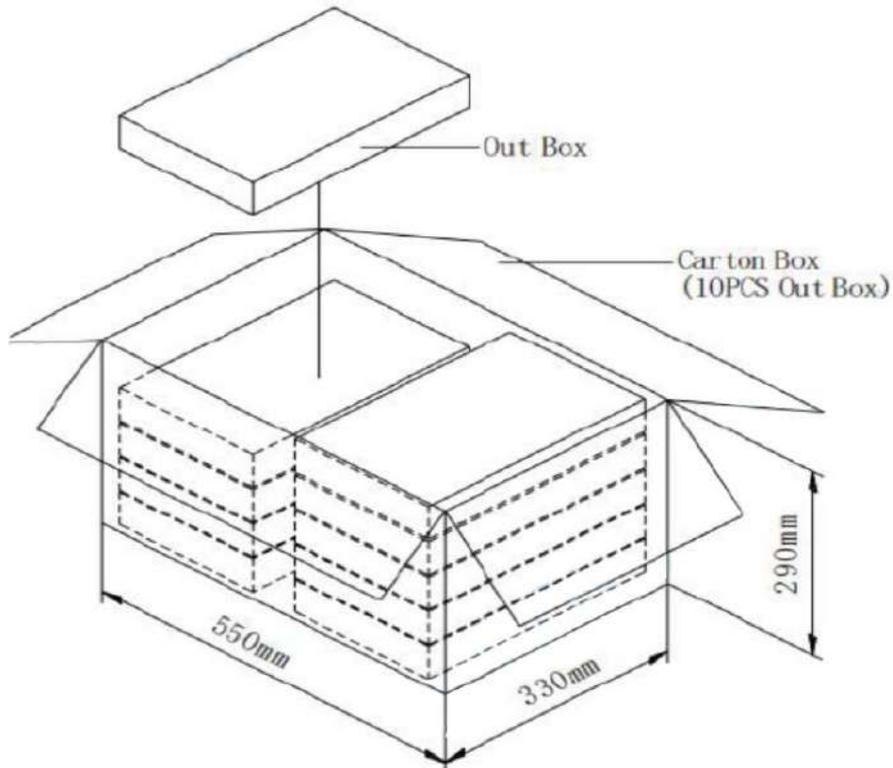
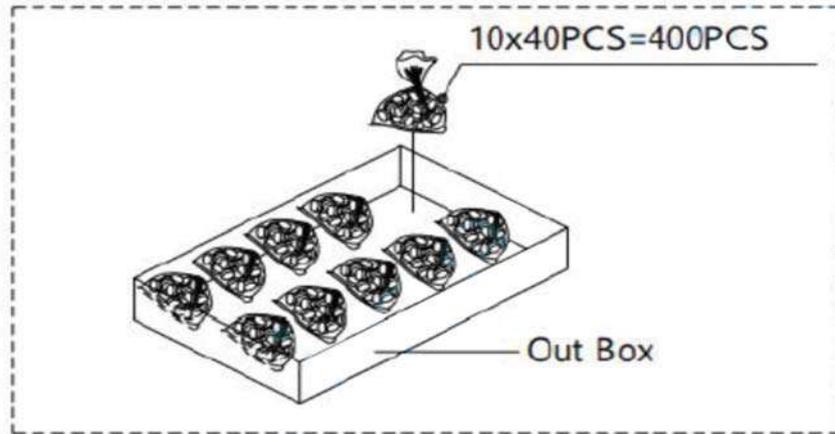


UNIT : mm

Tolerance : ± 0.2

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8. Packing



| | | |
|-------------|-------------------|--------------------|
| Out Box | 310mmx248mmx49mm | 10x40PCS=400PCS |
| Car ton Box | 550mmx330mmx290mm | 400PCSx10=4,000PCS |