

# SPECIFICATION

## FOR APPROVAL

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

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

Model Name : VST2722PF20  
\_\_\_\_\_

Drawing No. : VS20200320028  
\_\_\_\_\_

### Signature of Voise

Approved by	Checkde by	Issued by	Date

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<b>Specification for Piezo Buzzer</b>		Page	3/7	
		Revision No.	1.0	
Model No.:	VST2722PF20		Drawing No.	VS20200320028

## 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 : 26.5x22 mm
- 3.2 Height : 7 mm
- 3.3 Weight : 3 g
- 3.4 Operating Temperature : -40~+85°C without loss of function
- 3.5 Store Temperature : -40~+85°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 square wave
2	Max Working Voltage	25Vp-p square wave
3	Capacitance at 120Hz	30nF±30%
4	Min Sound Pressure Level	80dB/5Vp-p square wave/10cm
5	Resonant Frequency	2.0±0.5KHz
6	Tone Nature	Continuous
7	Housing Material	Black Mppo
8	Color	Black

<b>Specification for Piezo Buzzer</b>		Page	4/7
		Revision No.	1.0
Model No.:	VST2722PF20	Drawing No.	VS20200320028

## 5. Reliability Test

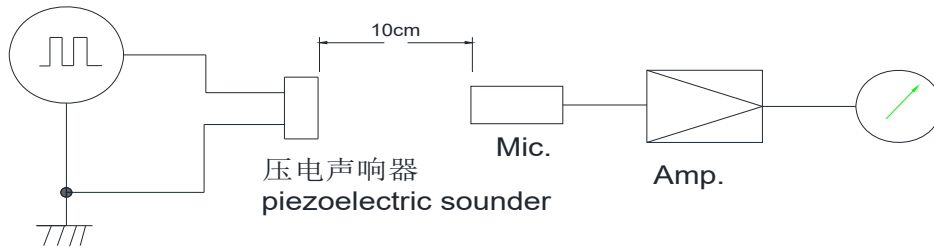
After test(1~7item), the buzzer S.P.L . difference shall be within  $\pm 5\text{dB}$ , and the appearance not exist any change to be harmful to normal operation

No	Items	Specification
1	High Temp.Test	After being woked in a chamber with $+85\pm 2\text{ }^\circ\text{C}$ for 2h and then being placed in natural condition for 2h, and then check.
2	Low Temp.Test	First being worked in a chamber with $-40\pm 2\text{ }^\circ\text{C}$ for 2h 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 2 h and then being placed in natural condition for 2h ,and then check.
4	Thermal Shock Test	After being worked in a chamber at $+85\pm 2\text{ }^\circ\text{C}$ for 1 hour, then sounder shall be placed in a chamber at $-40\pm 2\text{ }^\circ\text{C}$ 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 0.7 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.

Specification for Piezo Buzzer		Page	5/7
		Revision No.	1.0
Model No.:	VST2722PF20	Drawing No.	VS20200320028

## 6. Measurement Method & Frequency Response curve

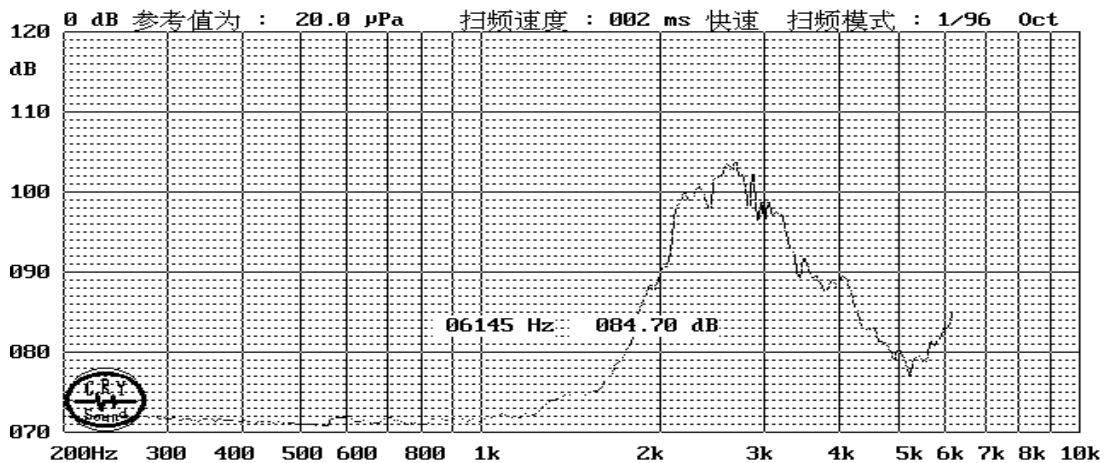
输入信号:5Vrms,2.0KHz,正弦波  
Input Signal:5Vrms,2.0KHz,Sine Wave



MIC : ND10 普通声级计或等同品  
MIC : ND10 Sound meter or equivalent  
S.G. : DF1010 振荡器或等同品  
S.G. : DF1010 Oscillater or equivalent

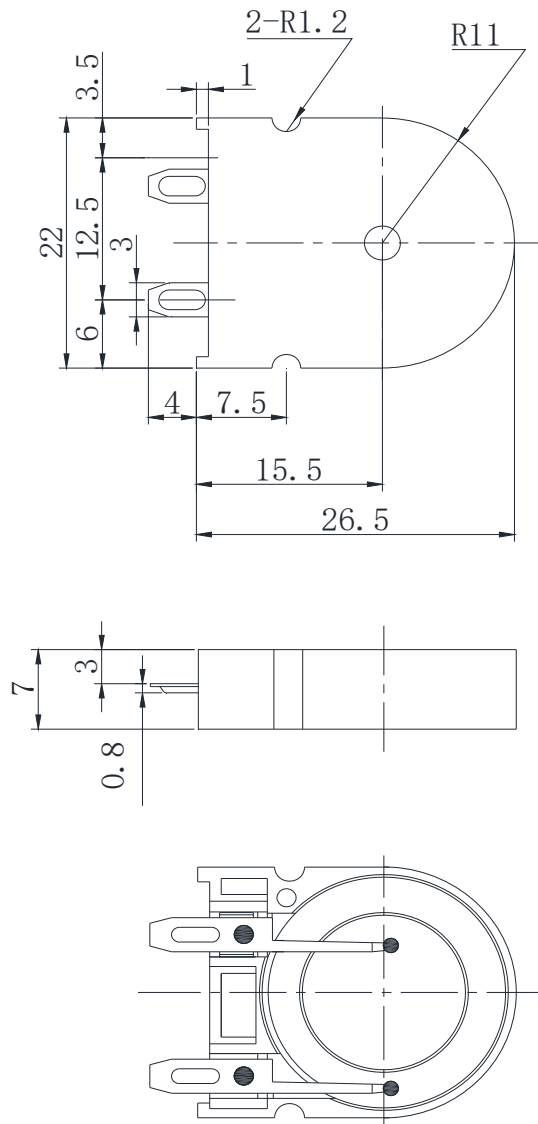
06/12/2014 21:00 CRY6135FH 蜂鸣器电声参数测试仪 U75 无框 滤波器1次

型号: \_\_\_\_\_ → 发送 T: \_\_\_\_\_ 接收 R: \_\_\_\_\_ 阻抗 Z: \_\_\_\_\_  
电压: 5000 mV Fc= 02000Hz 089.86dB Fc= 02000Hz \_\_\_\_\_ dB Fu= \_\_\_\_\_ Hz \_\_\_\_\_ Ω  
方波 Fo= 02667Hz 104.16dB Fo= \_\_\_\_\_ Hz \_\_\_\_\_ dB Fo= \_\_\_\_\_ Hz \_\_\_\_\_ Ω

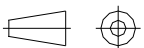


<b>Specification for Piezo Buzzer</b>		Page	6/7
		Revision No.	1.0
Model No.:	VST2722PF20	Drawing No.	VS20200320028

## 7. Dimensions



FIRST ANGLE PROJECTION

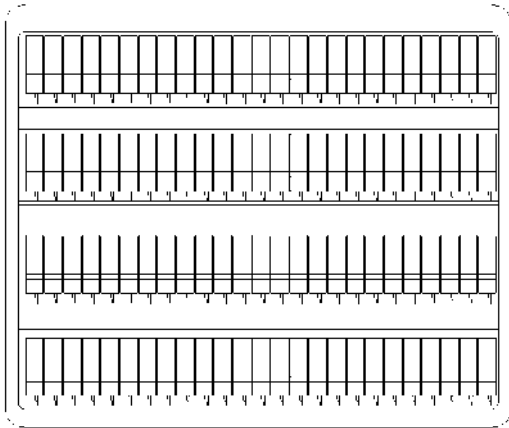


UNIT : mm

Tolerance : ±0.2

Specification for Piezo Buzzer		Page	7/7
		Revision No.	1.0
Model No.:	VST2722PF20	Drawing No.	VS20200320028

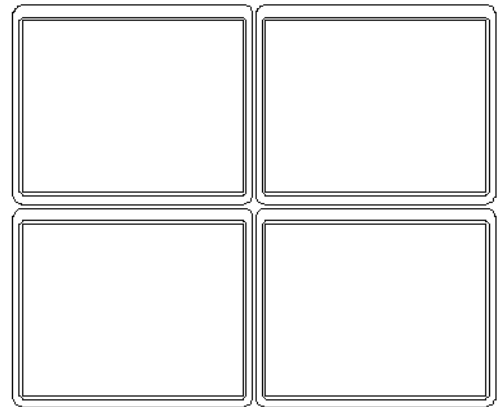
### 8. Packing



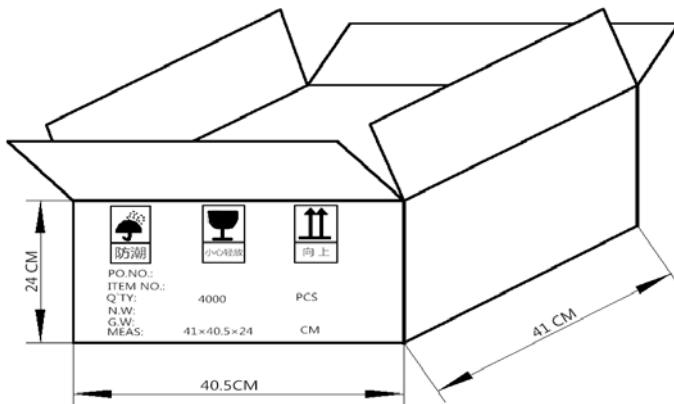
100 PCS per box



10 boxes and one group



4 sets of one box



41×40.5×24cm  
 100 PCS per box  
 10 boxes and one group  
 4 sets of one box  
 Total 4000 PCS carton