



# **Product Specification**

## **Ningbo East Electronics Limited**

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Product Name:	Pi ezo Buzzer
Part Number:	SL1I -03P
Version:	1.02
Date:	2019-9-5
Note:	

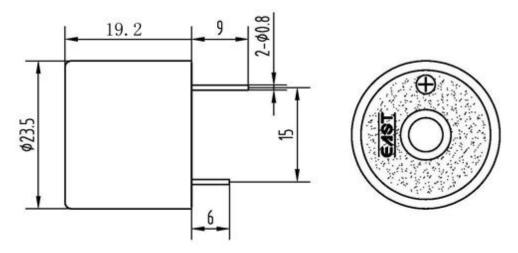
# East is an ISO 9001, IATF16949 and ISO 14001Certified Company

## **Revision History**

Rev.	Description	Author/Date	Checked By	Approver
1.02	Quality management system revised	汤礼东 2019-9-5	吕文斌	王建成
1.01	Quality Certificate Symbol revised	刘进 2015-6-29	汤礼东	王建成
1.0	Released	陈启旺 2012-8-13	汤礼东	王建成

#### 1. Part Number SL1I-03P

## 2. Dimension Drawing (Unit: mm)



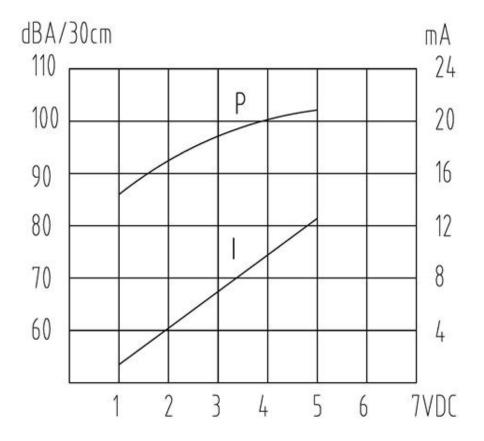
## 3.Specification

No.	Item	Specification
3-1	Min. Sound Pressure Level	80/dB/3V <sub>DC</sub> /30cm
3-2	Rated Voltage	3V <sub>DC</sub>
3-3	Operating Voltage	1~5V <sub>DC</sub>
3-4	Max. Consumption	25/mA/3V <sub>DC</sub>
3-5	Oscillating Frequency	3.3± 0.5 kHz
3-6	Tone Nature	Continuous
3-7	Operating Temperature	-20~+70°C
3-8	Case Material/Color	ABS(or PC)/Black
3-9	Weight	8g
3-10	Pin Strength	More than 10N

#### **NOTES:**

Test should be made under the conditions of room temperature  $(20\pm10^{\circ}\text{C})$ , normal humidity  $(60\pm20\%)$  and normal atmospheric pressure. In this case, however, that the judgment is questionable, the test conditions are to be changed to room temperature  $20\pm2^{\circ}\text{C}$ , relative humidity  $60\sim70\%$  and normal atmospheric pressure

# **4.**Typical Frequency Response Curve



Note:Distance 30 cm

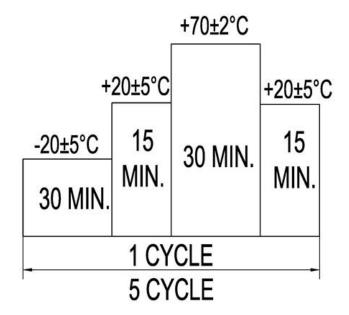
# 5. Reliability Test

No.	Item	Method of Test	Tolerance after Testing	
5-1	Operating Temperature	-20~+70°C	Sound pressure level initial value ±10dB  Max. consumption value ±20%  Oscillating frequency value±20%	
5-2	Storage in high temperature	Storage in +70°C test box 96 hours then exposed to the room temperature for 2 hours		
5-3	Storage in low temperature	Storage in -20°C test box 96 hours then exposed to the room temperature for 2 hours		
5-4	Life test in the room temperature	Operate the product continuously 5 seconds on 5 seconds off 300 hours at rated voltage		
5-5	Temperature / humidity cycle test	Storage in +40°C, 93±3%RH test box 96 hours then exposed to the room temperature for 2 hours	_	
5-6	Temperature (high and low) cycle test	Conduct the test for 5 cycles without applying power then expose to the room temperature for 2 hours.(See Figure 5-6)		

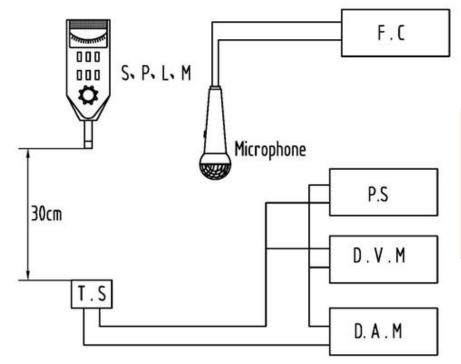
5-7	Vibration test	Conduct the test for the directions of X Y and Z for 0.5 hour each (total 1.5 hours). To-and Fri sweep time(from 10 to 55Hz and then 55 to 10) under single amplitude of 0.75mm is 3 minute, then expose to the room temperature for 2 hours	
5-8	Drop test	Drop a product naturally from the height of 700mm onto the surface of 100mm thick wooden board. Two directions: upper and side of the product are to be applied for this drop test once respectively	
5-9	Soldering heat resistance test	Dip the connecting pins in soldering at 260±5°C for 10±1 seconds	
5-10	Test of soldering	Dip the connecting pins in soldering at 230±5°C for 3±0.5 seconds	Solder shall be attached around over 95% of the dipped portion

**NOTE**: The pins are allowed to deform after drop test.

Figure 5-6



## **6. Electrical Testing Method**



S.P.L.M	Sound Pressure Level Meter	
T.S	Testing Sample	
F.C	Frequency Counter	
P.S	Power Supply	
D.V.M	DC Voltage Meter	
D.A.M	DC Ampere Meter	

#### 7. Packing Information

Packing: 1600 pcs per export carton Carton Size:  $47 \times 30.5 \times 33$  cm

G. Weight: 14.1 kgs N. Weight: 12.8 kgs