



# Product Specification

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|               |              |
|---------------|--------------|
| Product Name: | Piezo Buzzer |
| Part Number:  | SL11-06CP    |
| Version:      | 1.02         |
| Date:         | 2019-8-20    |
| Note:         |              |

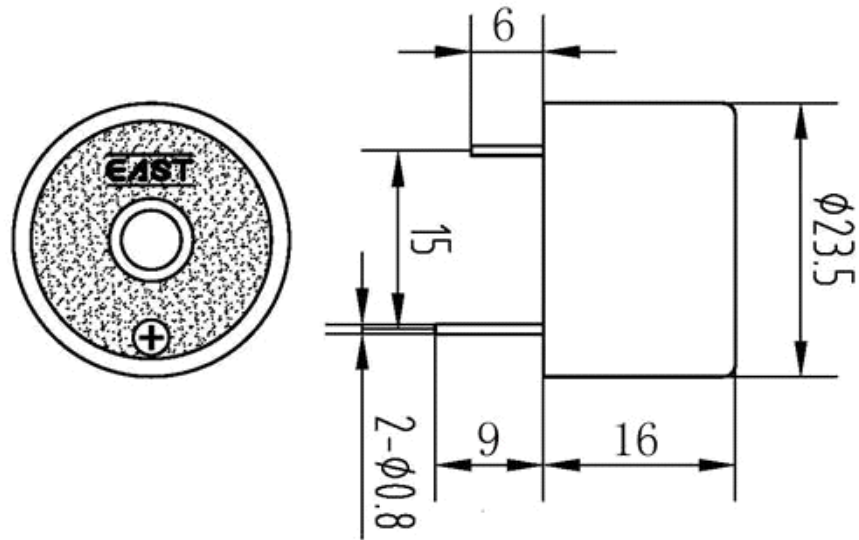
**East is an ISO 9001 , IATF16949 and ISO 14001 Certified Company**

## Revision History

| Rev. | Description                        | Author/Date      | Checked By | Approver |
|------|------------------------------------|------------------|------------|----------|
| 1.02 | Quality management system revised  | 汤礼东<br>2019-8-20 | 吕文斌        | 王建成      |
| 1.01 | Quality Certificate Symbol revised | 刘宁<br>2015-2-5   | 汤礼东        | 王建成      |
| 1.0  | Released                           | 陈启旺<br>2013-7-5  | 汤礼东        | 王建成      |

## 1. Part Number SL1I-06CP

## 2. Dimension Drawing (Unit: mm)



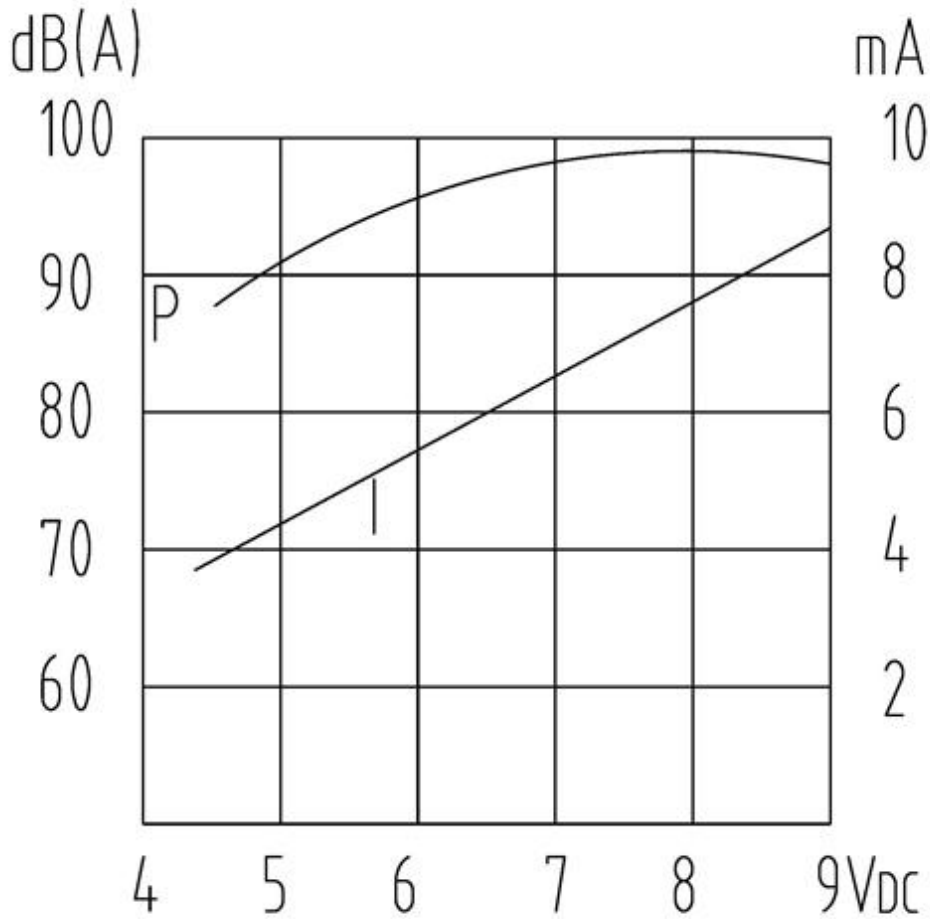
## 3. Specification

| No.  | Item                      | Specification               |
|------|---------------------------|-----------------------------|
| 3-1  | Min. Sound Pressure Level | 83dB/6V <sub>DC</sub> /30cm |
| 3-2  | Rated Voltage             | 6V <sub>DC</sub>            |
| 3-3  | Operating Voltage         | 4.5~9V <sub>DC</sub>        |
| 3-4  | Max. Consumption          | 15mA/6V <sub>DC</sub>       |
| 3-5  | Oscillating Frequency     | 3.4±0.5kHz                  |
| 3-6  | Tone Nature               | Continuous\                 |
| 3-7  | Operating Temperature     | -20~+70°C                   |
| 3-8  | Case Material/Color       | PC/Black                    |
| 3-9  | Weight                    | 6g                          |
| 3-10 | Pin Strength              | More than 10N               |

### NOTES:

Test should be made under the conditions of room temperature (20±10°C), normal humidity (60±20%) and normal atmospheric pressure. In this case, however, that the judgment is questionable, the test conditions are to be changed to room temperature 20±2°C, relative humidity 60~70% and normal atmospheric pressure

#### 4. Typical Frequency Response Curve



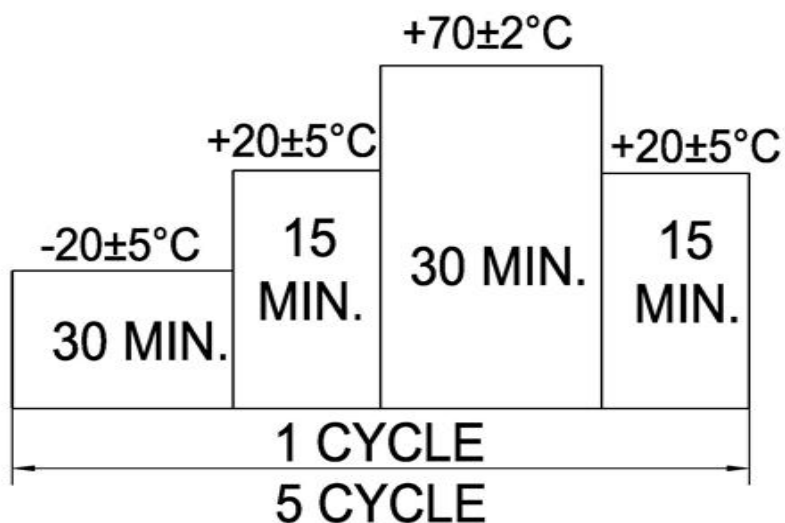
**Note:**Distance 30 cm

#### 5. Reliability Test

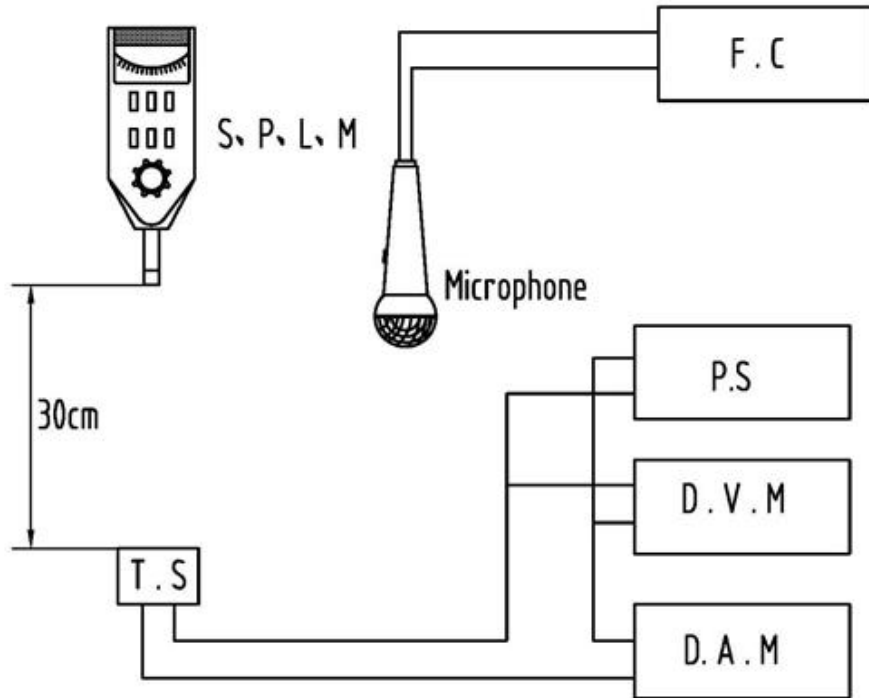
| No. | Item                              | Method of Test   | Tolerance after Testing   |
|-----|-----------------------------------|--|---|
| 5-1 | Operating Temperature             | -20~+70°C  | Sound pressure level initial value $\pm 10$ dB<br>Max. consumption value $\pm 20\%$<br>Oscillating frequency value $\pm 20\%$ |
| 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 $\pm$ 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 $260\pm 5^{\circ}\text{C}$ for $10\pm 1$ seconds   |  |
| 5-10   | Test of soldering                     | Dip the connecting pins in soldering at $230\pm 5^{\circ}\text{C}$ for $3\pm 0.5$ seconds  | Solder shall be attached around over 95% of the dipped portion |
| <b>NOTE:</b> 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× 30.5× 33 cm

**G. Weight:** 11.2 kgs **N. Weight:** 9.4 kgs