



Product Specification

Ningbo East Electronics Limited

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| Product Name: | Piezo Buzzer |
|---------------|--------------|
| Part Number: | SL1I - 12HP |
| Ver si on: | 1.03 |
| Dat e: | 2019-9-6 |
| Note: | |

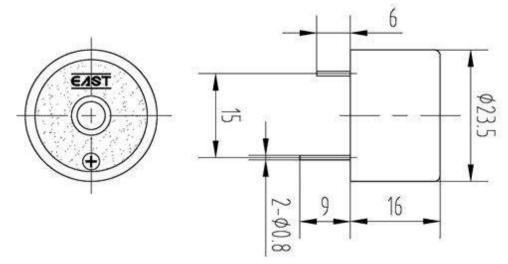
East is an ISO 9001, IATF16949 and ISO 14001Certified Company

Revision History

| Rev. | Description | Author/Date | Checked By | Approver |
|------|---|-----------------|------------|----------|
| 1.03 | Quality management system revised | 汤礼东 2019-9-6 | 吕文斌 | 王建成 |
| 1.02 | Update Operating Temperature from $-20 \sim +70^{\circ}$ C to $-30 \sim +85^{\circ}$ C. | 俞凯 2019-5-23 | 汤礼东 | 王建成 |
| 1.01 | Quality Certificate Symbol revised | 刘宁 2015-2-5 | 汤礼东 | 王建成 |

1. Part Number SL1I-12HP

2. Dimension Drawing (Unit: mm)

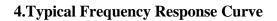


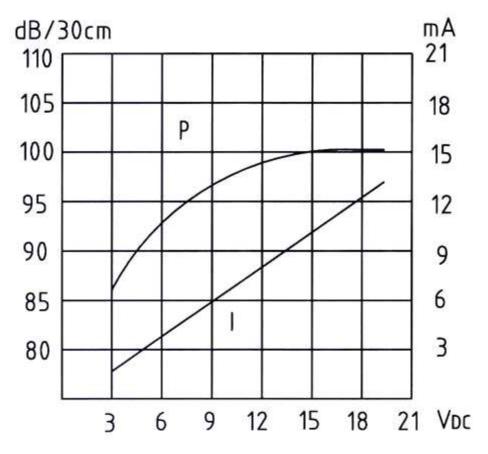
3.Specification

| No. | Item | Specification |
|------|---------------------------|------------------------------|
| 3-1 | Min. Sound Pressure Level | 91dB/12V _{DC} /30cm |
| 3-2 | Rated Voltage | 12V _{DC} |
| 3-3 | Operating Voltage | 3~20V _{DC} |
| 3-4 | Max. Consumption | 10mA/12V _{DC} |
| 3-5 | Oscillating Frequency | 3.7± 0.5 kHz |
| 3-6 | Tone Nature | Continuous |
| 3-7 | Operating Temperature | -30~+85°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 $(20\pm10^{\circ}C)$, 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 $20\pm2^{\circ}C$, relative humidity $60\sim70\%$ and normal atmospheric pressure





Note:Distance 30 cm

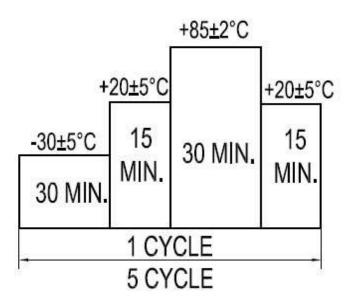
5. Reliability Test

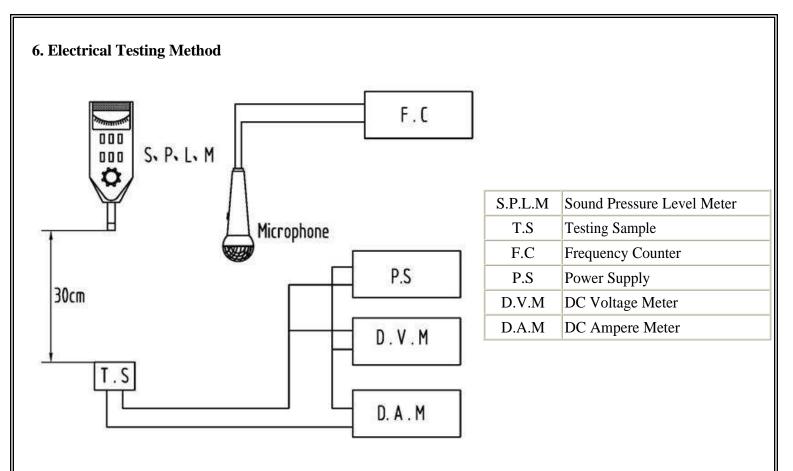
| $5-1 \qquad 7$ $5-2 \qquad S$ $5-3 \qquad S$ tu | Operating Temperature Storage in high temperature Storage in low | -30~+85°C Storage in +85°C test box 96 hours then exposed to the room temperature for 2 hours | Sound pressure level initial value ±10dB Max. consumption | |
|---|--|--|---|--|
| 5-2 tr 5-3 Statement of the second | temperature | temperature for 2 hours | | |
| 5-5 t | Storage in low | | | |
| T | temperature | Storage in -30°C test box 96 hours then exposed to the room temperature for 2 hours | value ±20% Oscillating frequency value±20% | |
| 5-4 | Life test in the room temperature | Operate the product continuously 5 seconds on 5 seconds off 300 hours at rated voltage | | |
| ר-ר | Temperature / humidity cycle test | Storage in +40°C, $93\pm3\%$ RH test box 96 hours then exposed to the room temperature for 2 hours | - | |
| 5-6 a | Temperature (high and low) cycle test ast Electronics Limited | 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





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