



Product Specification

Ningbo East Electronics Limited

NO. 88 East Jinhui Road, Yinzhou Ningbo 315100, P.R.China http://www.east-mingtao.com

| Product Name: | Magnetic Buzzer |
|---------------|-----------------|
| Part Number: | EMX-11T12SP |
| Version: | 1.02 |
| Date: | 2019-11-4 |
| Note: | |

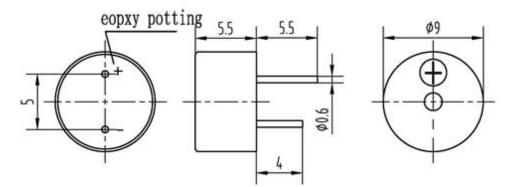
East is an ISO 9001, IATF16949 and ISO 14001Certified Company

Revision History

| Rev. | Description | Author/Date | Checked By | Approver |
|------|------------------------------------|------------------|------------|----------|
| 1.02 | Quality management system revised | 汤礼东 2019-11-4 | 吕文斌 | 王建成 |
| 1.01 | Quality Certificate Symbol revised | 吕文斌 2015-2-5 | 汤礼东 | 王建成 |
| 1.0 | Released | 汤礼东 2012-3-23 | 陈启旺 | 王建成 |

1. Part Number EMX-11T12SP

2. Dimension Drawing (Unit: mm)



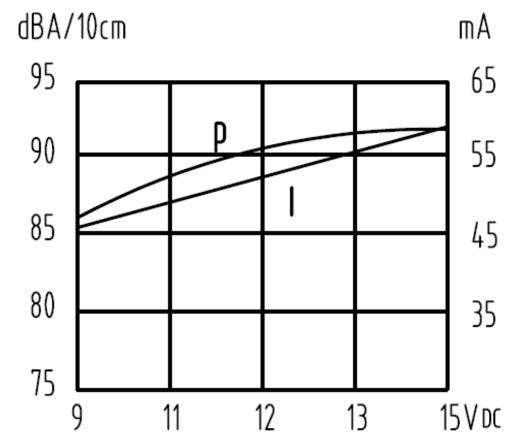
3.Specification

| No. | Item | Specification |
|------|---------------------------|------------------------------|
| 3-1 | Min. Sound Pressure Level | 85dB/12V _{DC} /10cm |
| 3-2 | Rated Voltage | 12V _{DC} |
| 3-3 | Operating Voltage | 9~15V _{DC} |
| 3-4 | Max. Consumption | 50mA/12V _{DC} |
| 3-5 | Oscillating Frequency | 2.7±0.3 kHz |
| 3-6 | Tone Nature | Continuous |
| 3-7 | Operating Temperature | -20~+70°C |
| 3-8 | Storage Temperature | -30~+80°C |
| 3-9 | Weight | 1.0g |
| 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 $20\pm2^{\circ}$ C, relative humidity $60\sim70\%$ and normal atmospheric pressure

4. Typical Frequency Response Curve



Note:Distance 10 cm

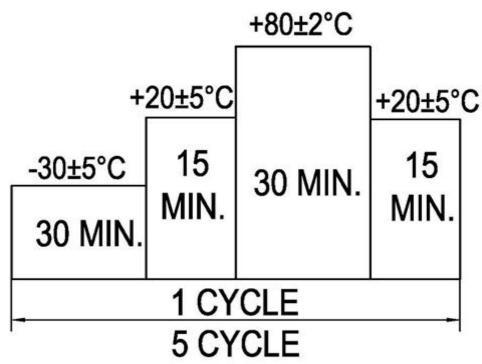
5. Reliability Test

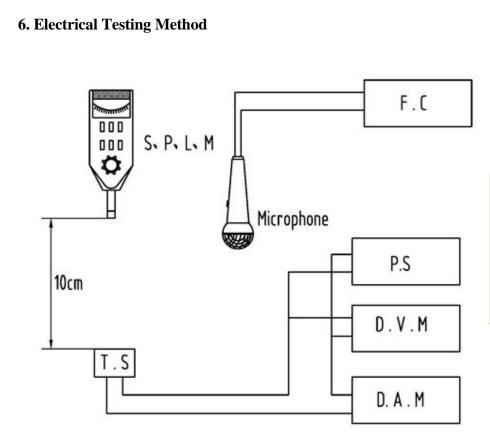
| No. | Item | Method of Test | Tolerance after Testing | |
|----------|---------------------------------------|---|---|--|
| 5-1 | Operating Temperature | -20~+70°C | Sound pressure level | |
| 5-2 | Storage in high temperature | Storage in +80°C test box 96 hours then exposed to the room temperature for 2 hours | initial value ±10dB Max. consumption value ±20% Oscillating frequency value±20% | |
| 5-3 | Storage in low temperature | Storage in -30°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 $+40^{\circ}$ C, $93\pm3^{\circ}$ 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) | _ | |
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| 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.







| 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: 3000 pcs per export carton Carton Size: 47× 25× 28 cm G. Weight: 4.5 kgs N. Weight: 3.0 kgs