



Product Specification

Ningbo East Electronics Limited

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| Product Name: | High-Output Piezo Alarm Transducer |
|---------------|------------------------------------|
| Part Number: | MFC-201P |
| Version: | 1.01 |
| Date: | 2015-2-2 |
| Note: | |

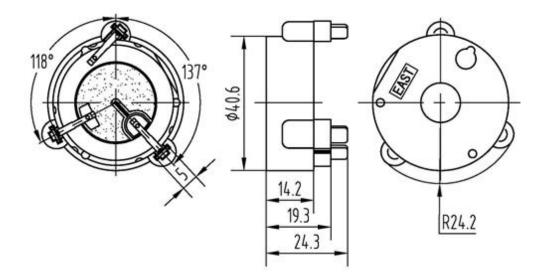
Company passed ISO 9001 / ISO TS16949 / ISO 14001Certifications

Revision History

| Rev. | Description | Author/Date | Checked By | Approver |
|------|------------------------------------|-----------------|------------|----------|
| 1.01 | Quality Certificate Symbol revised | 刘宁 2015-2-2 | 汤礼东 | 王建成 |
| 1.0 | Released | 陈启旺 2012-4-5 | 汤礼东 | 王建成 |

1. Part Number MFC-201P

2. Dimension Drawing (Unit: mm)



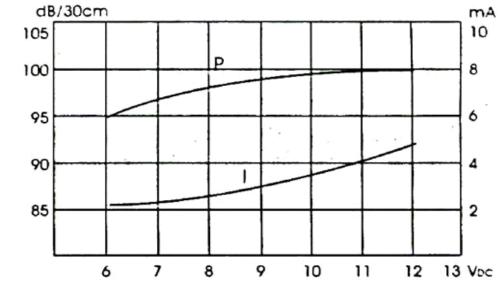
3.Specification

| No. | Item | Specification |
|-----|---------------------------|-----------------------------|
| 3-1 | Min. Sound Pressure Level | 90dB/9V _{DC} /30cm |
| 3-2 | Rated Voltage | 9V _{DC} |
| 3-3 | Operating Voltage | 6~12V _{DC} |
| 3-4 | Max. Consumption | 10mA/9V _{DC} |
| 3-5 | Oscillating Frequency | 3.4 ± 0.5 kHz |
| 3-6 | Operating Temperature | -20~+70°C |
| 3-7 | Case Material/Color | ABS/Black |
| 3-8 | Weight | 10.9g |
| 3-9 | 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

4. Typical Frequency Response Curve



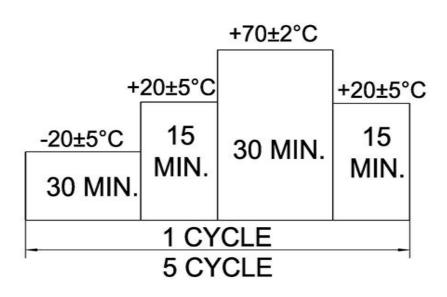
Note:Distance 30 cm

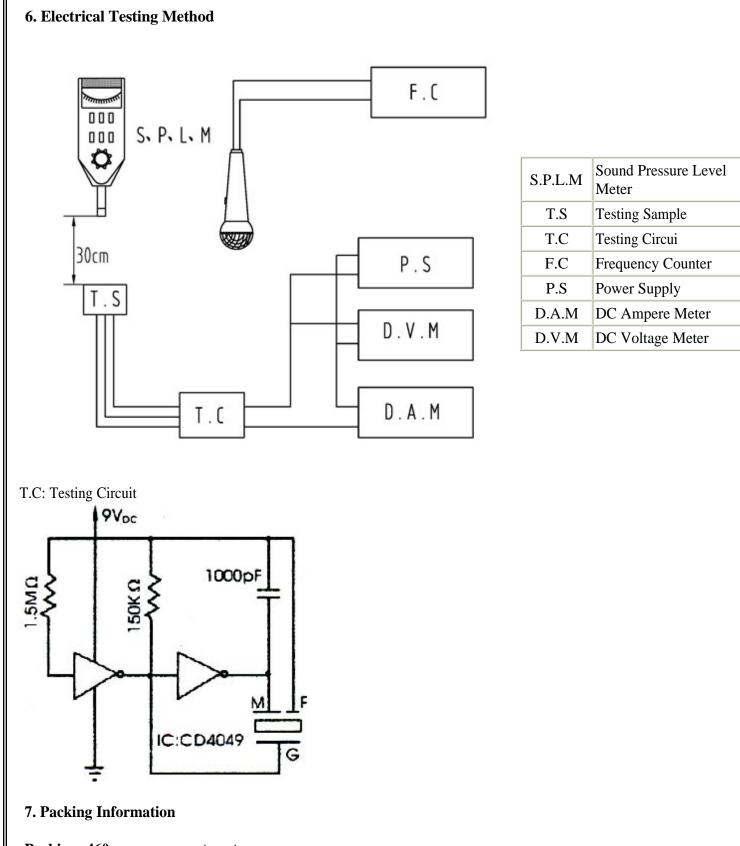
5. Reliability Test

| No. | Item | Method of Test | Tolerance after Testing | |
|-----|---|---|---|--|
| 5-1 | Operating Temperature | -20~+70°C | Sound pressure level | |
| 5-2 | Storage in high temperature | Storage in $+70^{\circ}$ 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 -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 $+40^{\circ}$ 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) | | |
| 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 | |
| 5-1 | 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





Packing: 460 pcs per export carton Carton Size: 47× 30.5× 35 cm G. Weight: 6.7kgs N. Weight: 5.0 kgs