



# Product Specification

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

|               |                                    |
|---------------|------------------------------------|
| Product Name: | High-Output Piezo Alarm Transducer |
| Part Number:  | W-62A                              |
| Version:      | 1.01                               |
| Date:         | 2019-11-7                          |
| Note:         |                                    |

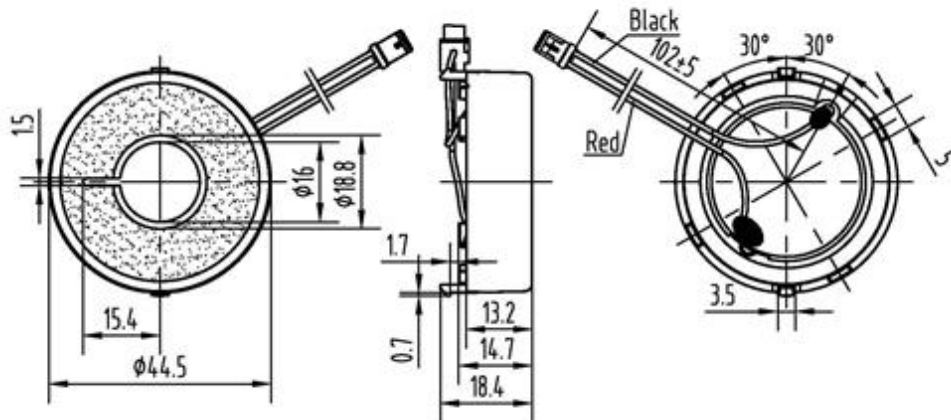
**East is an ISO 9001 , IATF16949 and ISO 14001 Certified Company**

## Revision History

| Rev. | Description                       | Author/Date      | Checked By | Approver |
|------|-----------------------------------|------------------|------------|----------|
| 1.01 | Quality management system revised | 汤礼东<br>2019-11-7 | 吕文斌        | 王建成      |
| 1.0  | Released                          | 汤礼东<br>2017-5-23 | 俞凯         | 王建成      |

## 1. Part Number W-62A

## 2. Dimension Drawing (Unit: mm)



Connector Housing: 87439-0200    Connector crimp: 87421-0000

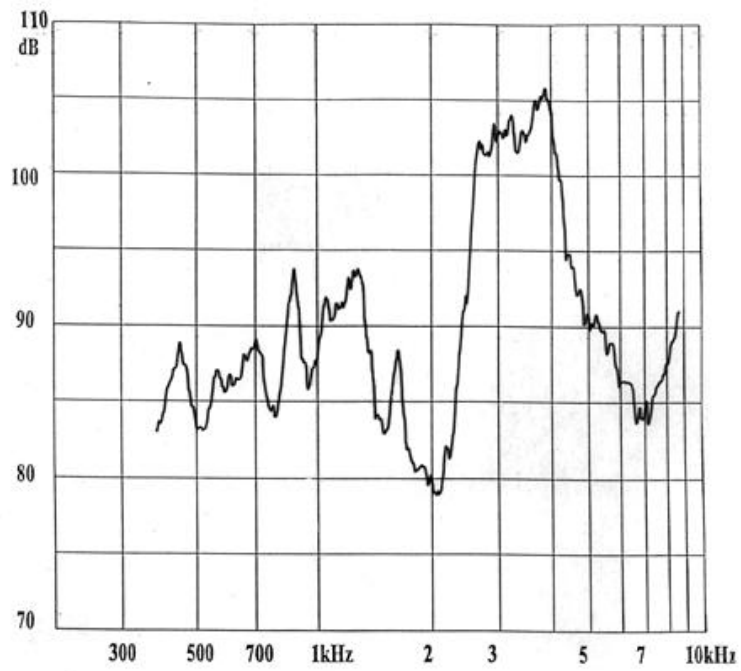
## 3. Specification

| No.  | Item   | Specification                         |
|------|--|---------------------------------------|
| 3-1  | Min. Sound Pressure Level                                      | 102dB/1~5kHz/12Vp-p square wave /30cm |
| 3-2  | Min. Continuous Drive Voltage at Square Wave(50% Duty Cycle)   | 50Vp-p                                |
| 3-3  | Min. Intermittent Drive Voltage at Square Wave(50% Duty Cycle) | 60Vp-p                                |
| 3-4  | Capacitance  | 180±30% nF(At 120Hz)                  |
| 3-5  | Resonant Frequency   | 1~5kHz                                |
| 3-6  | Operating Temperature  | -40~+100°C                            |
| 3-7  | Storage Temperature  | -40~+100°C                            |
| 3-8  | Case Material /Color   | PA66+15%GF/Black                      |
| 3-9  | Weight   | 10g                                   |
| 3-10 | Wire Standard  | UL1095-26AWG                          |

### NOTES:

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

#### 4. Typical Frequency Response Curve

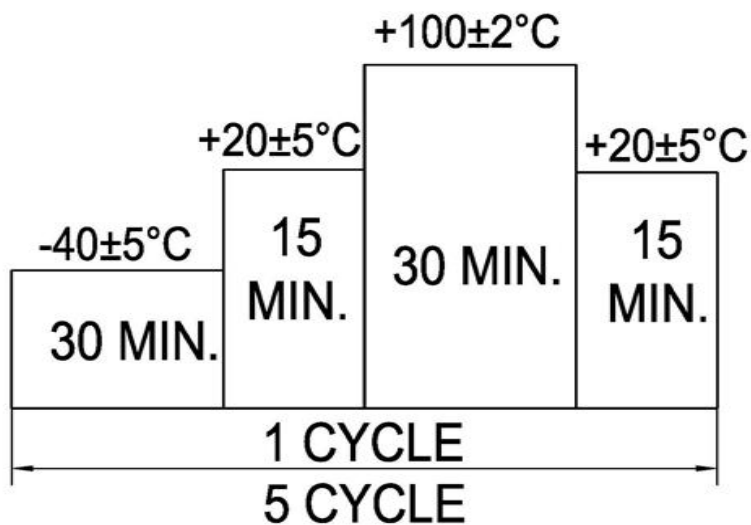


**Note:** Input Voltage 12Vp-p square wave  
Distance 30cm

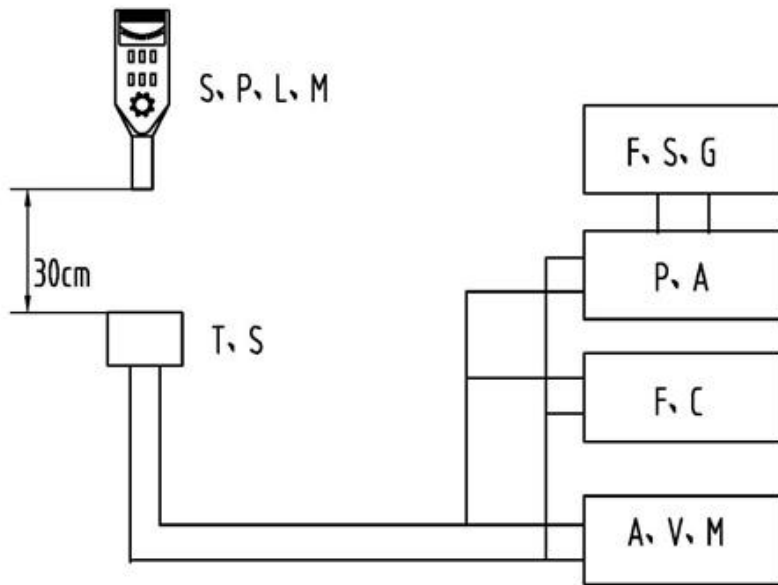
## 5. Reliability Test

| No. | Item                                  | Method of Test   | Tolerance after Testing  |
|-----|---------------------------------------|--|--|
| 5-1 | Operating Temperature                 | -40~+100°C   | Sound pressure level initial value $\pm 10\text{dB}$<br><br>Capacitance value $\pm 20\%$ |
| 5-2 | Storage in high temperature           | Storage in +100°C test box 96 hours then exposed to the room temperature for 2 hours   |  |
| 5-3 | Storage in low temperature            | Storage in -40°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 96 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   |  |

Figure 5-6



## 6. Electrical Testing Method



|         |                            |
|---------|----------------------------|
| S.P.L.M | Sound Pressure Level Meter |
| T.S     | Testing Sample             |
| F.C     | Frequency Counter          |
| F.S.G   | Frequency Signal Generator |
| A.V.M   | AC Voltage Meter           |
| P.A     | Power Amplifier            |

## 7. Packing Information

**Packing: 840 pcs per export carton**

**Carton Size: 47× 30.5× 33 cm**

**G. Weight: 12.1 kgs N. Weight: 8.4 kgs**