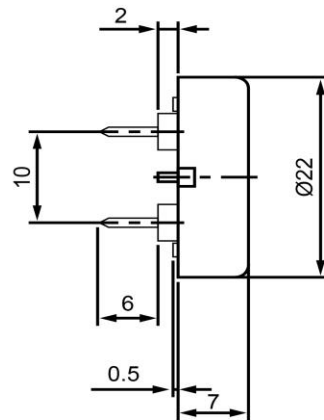
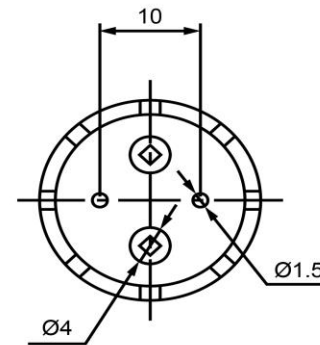


### SIDE VIEW



### BOTTOM VIEW



| Specifications                                                                                      |           |       | Notes                                                                        | Revision History |                           |            |            |             |            |
|-----------------------------------------------------------------------------------------------------|-----------|-------|------------------------------------------------------------------------------|------------------|---------------------------|------------|------------|-------------|------------|
| Description                                                                                         | Value     | Unit  |                                                                              | Version          | Description               |            | Date       | Approved    |            |
| Technology                                                                                          | Piezo     |       | 1) All dimensions are in mm unless otherwise noted<br>2) All parts meet RoHS | 1                | Released from Engineering |            | 10/21/2013 | J.S         |            |
| Resonant Frequency                                                                                  | 4,000     | (Hz)  |                                                                              |                  |                           |            |            |             |            |
| Rated Voltage                                                                                       | 9         | (V)   |                                                                              |                  |                           |            |            |             |            |
| SPL @ 10cm                                                                                          | 85        | (dBA) |                                                                              |                  |                           |            |            |             |            |
| Capacitance                                                                                         | 15,000    | (pF)  |                                                                              |                  |                           |            |            |             |            |
| Mount Type                                                                                          | Thru Hole |       |                                                                              |                  |                           |            |            |             |            |
| Voltage Range                                                                                       | 1 ~ 30    | (V)   |                                                                              |                  |                           |            |            |             |            |
| Max Rated Current                                                                                   | 3         | (mA)  |                                                                              |                  |                           |            |            |             |            |
| Housing Material                                                                                    | NORYL     |       |                                                                              |                  |                           |            |            |             |            |
| Operating Temperature                                                                               | -20 ~ +60 | °C    |                                                                              |                  |                           |            |            |             |            |
| Storage Temperature                                                                                 | -30 ~ +70 | °C    |                                                                              |                  |                           |            |            |             |            |
| Weight                                                                                              | 2.5       | (g)   |                                                                              |                  |                           |            |            |             |            |
| <br>DB UNLIMITED |           |       | Piezo Transducer                                                             |                  |                           | TP224009-1 |            |             |            |
|                                                                                                     |           |       |                                                                              |                  |                           |            |            |             |            |
|                                                                                                     |           |       | Drawn by                                                                     |                  | Date                      | Checked by | Date       | Approved by | Date       |
|                                                                                                     |           |       | A.B.                                                                         |                  | 10/21/2013                | C.E.       | 10/21/2013 | J.S         | 10/21/2013 |