

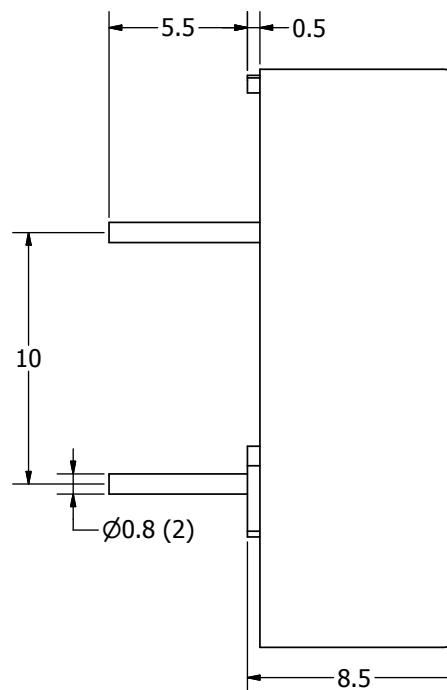
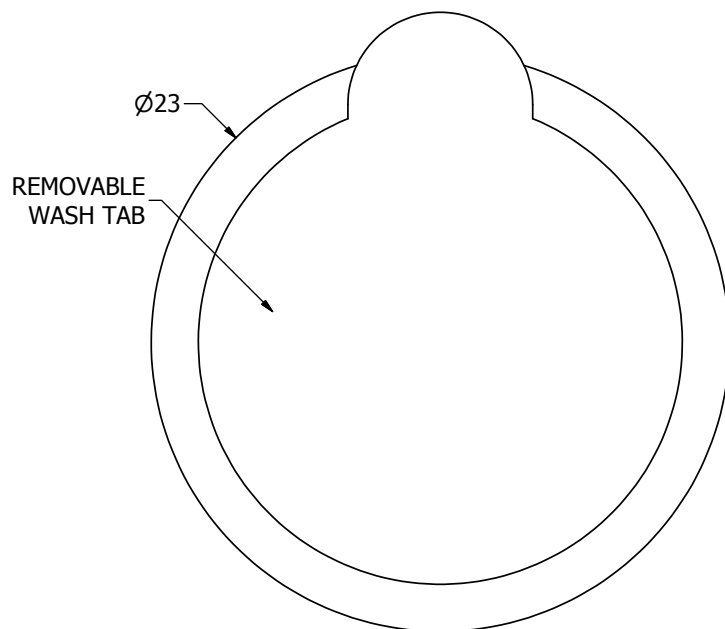
## SPECIFICATIONS

| PARAMETERS                                            | VALUES       | UNITS |
|-------------------------------------------------------|--------------|-------|
| RATED INPUT POWER                                     | 0.1          | W     |
| MAX INPUT POWER                                       | 0.2          | W     |
| IMPEDANCE                                             | 8 ± 20%      | OHM   |
| OUTPUT SPL @ 0.1W/0.5M<br>(AT 1.2, 1.5, 1.6, 1.8 kHz) | 75 ± 3       | dBA   |
| DISTORTION (MAX.)                                     | 5%           | -     |
| RESONANT FREQUENCY                                    | 1,500 ± 20%  | Hz    |
| FREQUENCY RANGE                                       | 600 ~ 20,000 | Hz    |
| HOUSING MATERIAL                                      | ABS          | -     |
| CONE MATERIAL                                         | MYLAR        | -     |
| MAGNET MATERIAL                                       | NdFeB        | -     |
| OPERATING TEMPERATURE                                 | -20 ~ +60    | °C    |
| WEIGHT                                                | 3.2          | grams |

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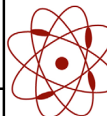
## REVISION HISTORY

| LTR | DESCRIPTION                              | DATE       | APPROVED |
|-----|------------------------------------------|------------|----------|
| -   | RELEASED FROM ENGINEERING                | 4/19/2006  |          |
| A   | REVISED POWER RATINGS                    | 11/19/2007 | B.R.     |
| B   | REVISED TO INVENTOR 3-D DRAWING TEMPLATE | 2/25/2009  | B.R.     |
| C   | ADDED NOTE 4                             | 1/5/2011   | B.R.     |
| D   | REVISED MAGNET MATERIAL                  | 6/28/2011  | C.W.     |
| E   | REVISED HOUSING MATERIAL                 | 12/23/2011 | M.L.     |



### NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWAL WITHOUT NOTICE.
3. THIS PART IS RoHS 2002/95/EC COMPLIANT.
4. HAND SOLDER ONLY.

|                                                                                                                  |         |                                                                                                                                        |           |            |               |             |           |            |
|------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|---------------|-------------|-----------|------------|
| UNLESS OTHERWISE SPECIFIED:<br><br>DIMENSIONS ARE IN MILLIMETERS,<br><br>TOLERANCES ARE ±0.5 AND ANGLES ARE ±3°. | SIZE    | Designed by                                                                                                                            | Date      | Checked by | Date          | Approved by | Date      | Drawn Date |
|                                                                                                                  |         | B.R.                                                                                                                                   | 4/19/2006 | B.R.       | 4/19/2006     | E.P.        | 4/19/2006 | 2/25/2009  |
|                                                                                                                  | A3      |  <b>pui audio</b><br>a projects unlimited company |           |            | AST-02308MR-R |             |           |            |
| AST-02308MR-R.idw                                                                                                | Speaker |                                                                                                                                        |           |            | Edition       | Sheet       |           |            |
|                                                                                                                  |         |                                                                                                                                        |           |            |               |             | -         | 1 / 1      |