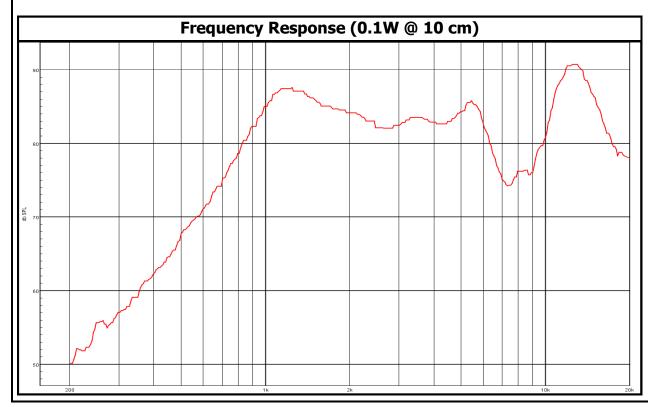


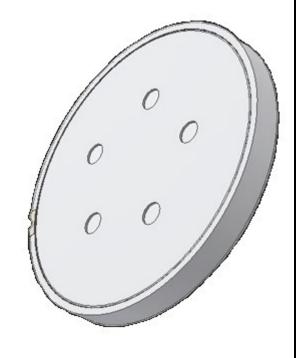
## AS01308MR-2-R 13mm Speaker

3541 Stop Eight Road ● Dayton, Ohio 45414

## **Product Overview**

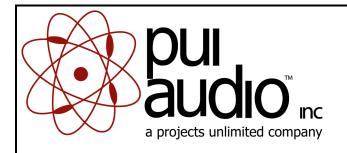
- 13mm diameter speaker with Neodymium magnet for 85 dB sensitivity
- 0.2 continuous, 0.3 maximum power handling and  $8\Omega$  impedance
- Mylar diaphragm for moisture resistance and metal housing for protection
- Less than 3 mm thick for space-limited applications





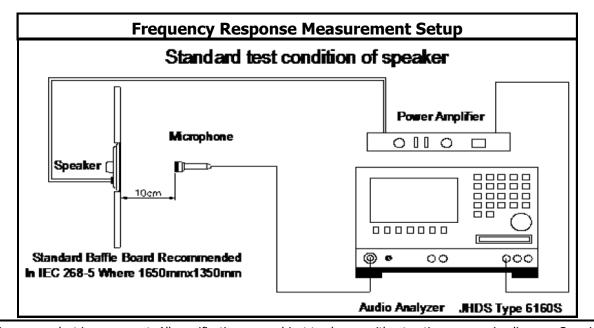






## AS01308MR-2-R 13mm Speaker

| Mechanical and Environment Testing  |  |  |
|---|--|--|
| Test Description  | Test Condition                                       |  |
| High Temperature  | 60°C with random humidity for 96 hours               |  |
| Low Temperature   | -30°C with random humidity for 1 hours               |  |
| Humidity  | 40°C with 90% relative humidity for 96 hours         |  |
| Vibration   | 1.5 mm movement modulated at 10 to 55 Hz for 2 hours |  |
| Drop Test   | 1m free fall onto 20 mm thick board, 5 cycles        |  |
| Temperature Cycle Test  | -30°C to 60°C, 5 cycles                              |  |
| After tests, speaker shall rest for 1 hours. SPL shall not deviate ±3 dB from pre-test measurement. |  |  |

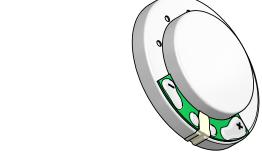


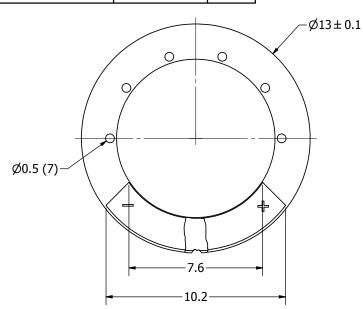
| SPECIFICATIONS              |            |       |  |
|-----------------------------|------------|-------|--|
| PARAMETERS                  | VALUES     | UNITS |  |
| RATED INPUT POWER           | 0.2        | W     |  |
| MAX INPUT POWER             | 0.3        | W     |  |
| IMPEDANCE                   | 8 ± 15%    | ОНМ   |  |
| OUTPUT SPL @ 0.1W/0.1M      | 85 ± 3     | 4D V  |  |
| (AT 0.8, 1.0, 1.2, 1.5 kHz) | 00±3       | dBA   |  |
| DISTORTION (MAX.)           | 5%         | -     |  |
| RESONANT FREQUENCY          | 1100 ± 20% | Hz    |  |
| FREQUENCY RANGE             | 700 ~ 5000 | Hz    |  |
| HOUSING MATERIAL            | METAL      | -     |  |
| CONE MATERIAL               | MYLAR      | -     |  |
| MAGNET MATERIAL             | ND         | -     |  |
| OPERATING TEMPERATURE       | -20 ~ +50  | °C    |  |
| WEIGHT                      | 1.1        | grams |  |

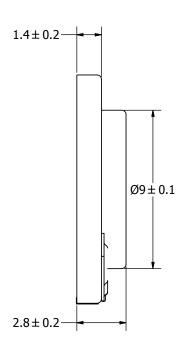
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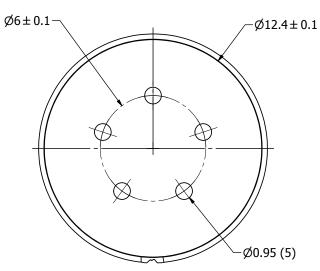
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|     | REVISION HISTORY                         |           |          |
|-----|--|-----------|----------|
| LTR | DESCRIPTION                              | DATE      | APPROVED |
| 1   | RELEASED FROM ENGINEERING                | 5/30/2006 |          |
| Α   | REVISED TO INVENTOR 3-D DRAWING TEMPLATE | 9/06/2007 | B.R.     |









## NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETERS.
- 2. SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWL WITHOUT NOTICE.
- 3. THIS PART IS RoHS 2002/95/EC COMPLIANT.

| UNLESS OTHERWISE<br>SPECIFIED:                | 0.75 |  |
|---|------|--|
| DIMENSIONS ARE IN MILLIMETERS.                | SIZE |  |
| TOLERANCES<br>ARE ±0.5 AND<br>ANGLES ARE ±3°. | A3   |  |
| AS01308MR-2-R.idw                             |      |  |

| J.D. | 5/30/2006                            | Е          | Ξ.Р. |
|------|--------------------------------------|------------|------|
|      | pul.                                 |            |      |
|      | audic<br>A Division of Projects Unli | )<br>mited |      |
|      |                                      |            |      |

Designed by

| Checked by    | Date      | Approved by | Date      | Drawn Date |  |
|---------------|-----------|-------------|-----------|------------|--|
| E.P.          | 5/31/2006 | B.R.        | 5/31/2006 | 9/6/2007   |  |
| AS01308MR-2-R |           |             |           |            |  |

Speaker Edition Sheet