

## New Product Feature

### Slim-Line Micro Speakers

PUI Audio, Inc.'s new line of slim-line micro speakers are purpose-built for space-limited, modern electronics such as smartphones, tablets, laptops, as well as wearable technology and IoT devices such as WiFi-enabled thermostats.

#### 15 x 11 mm Slim-Line Micro Speakers

The **AS01508AO-SC-R** is a 15 x 11 speaker with pre-installed double-sided adhesive for quick, easy installation and spring-loaded contacts for a solderless electrical connection and features a 4.42 mm thickness.

25 mm speaker leads replace the spring contacts on the AS01508AO-SC-R to minimize thickness to 3.9 mm on the **AS01508AO-LW25-R**.

For more output and lower distortion, a multi-magnet motor drives the **AS01508AO-3-R**, while solder pads drive the thickness down to 3.5 mm.

A spring-contact version is available in the **AS01508AO-3-SC-R**.

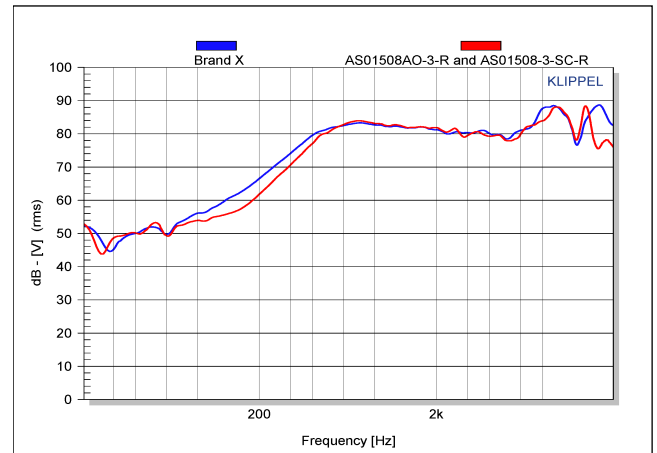
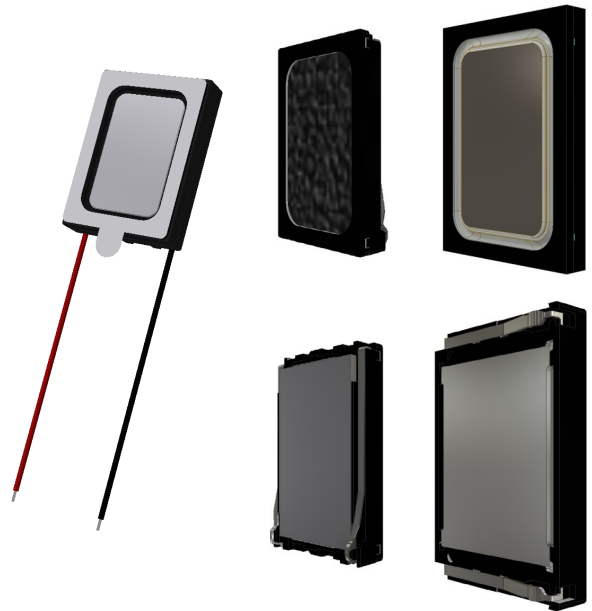
These are also available with an IP65-rated face: the **AS01508AO-WP-R** and the **AS01508AO-SC-WP-R**.

Each 15 x 11 mm speaker features a class-leading resonant frequency below 600 Hz for realistic sound.

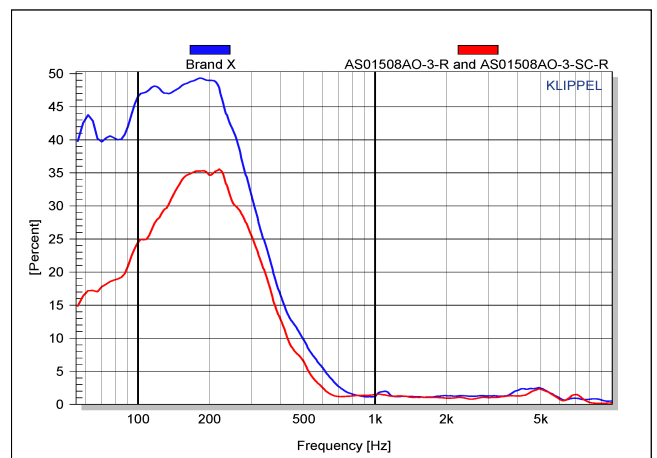
#### 18 x 13 mm Slim-Line Micro Speakers

PUI Audio's 18 x 13 mm speakers build on the performance of the 15 x 11 mm speakers, while reducing the overall thickness to below 3 mm on the **AS01808AO-3-R** with solder pads and 3.1 mm on the **AS01808AO-3-SC-R** with spring contacts.

Both feature an amazingly low resonant frequency of 320 Hz and are available with IP65-rated faces in the **AS01808AO-WP-R** and **AS01808AO-SC-WP-R**.

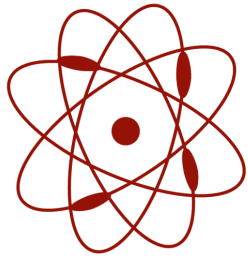


Frequency Response Comparison



Total Harmonic Distortion (THD) Comparison

**Contact your PUI Audio distributor today for pricing and availability!**



**pui**  
**audio**™  
INC  
a projects unlimited company

## AS01508AO-LW25-R 15x11mm Slim-Mount Speaker

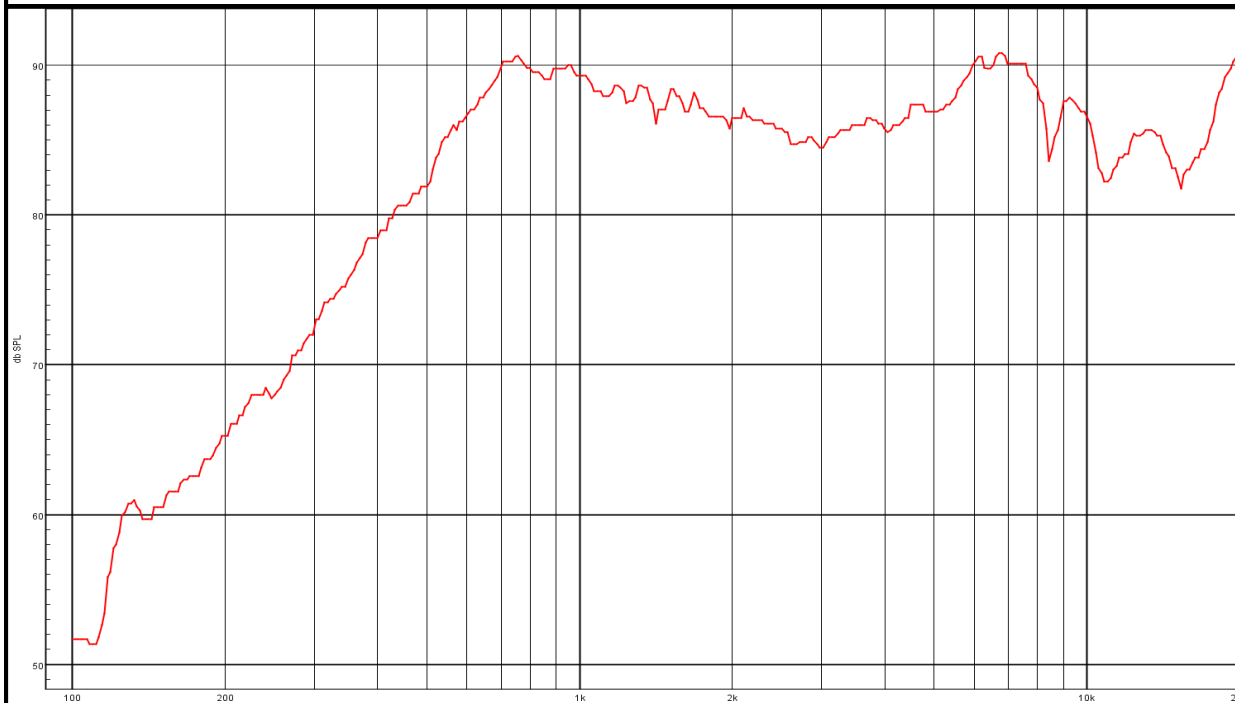
3541 Stop Eight Road • Dayton, Ohio 45414

### Product Overview

- 15 x 11 mm speaker with Neodymium magnet for 84 dB sensitivity and 25 mm lead wires
- 0.7W continuous, 1W maximum power handling and 8Ω impedance
- For space-limited applications such as cell phones and consumer electronics
- Convenient double-sided tape for quick mounting

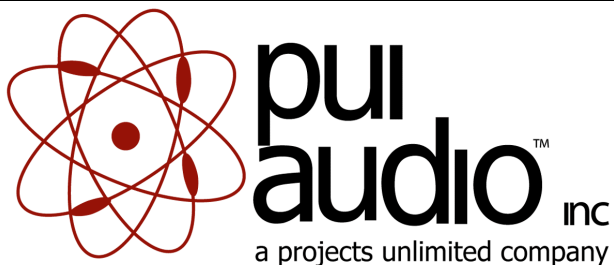


Frequency Response (0.1W @ 10 cm)



An Initiative of the EICC and GeSI

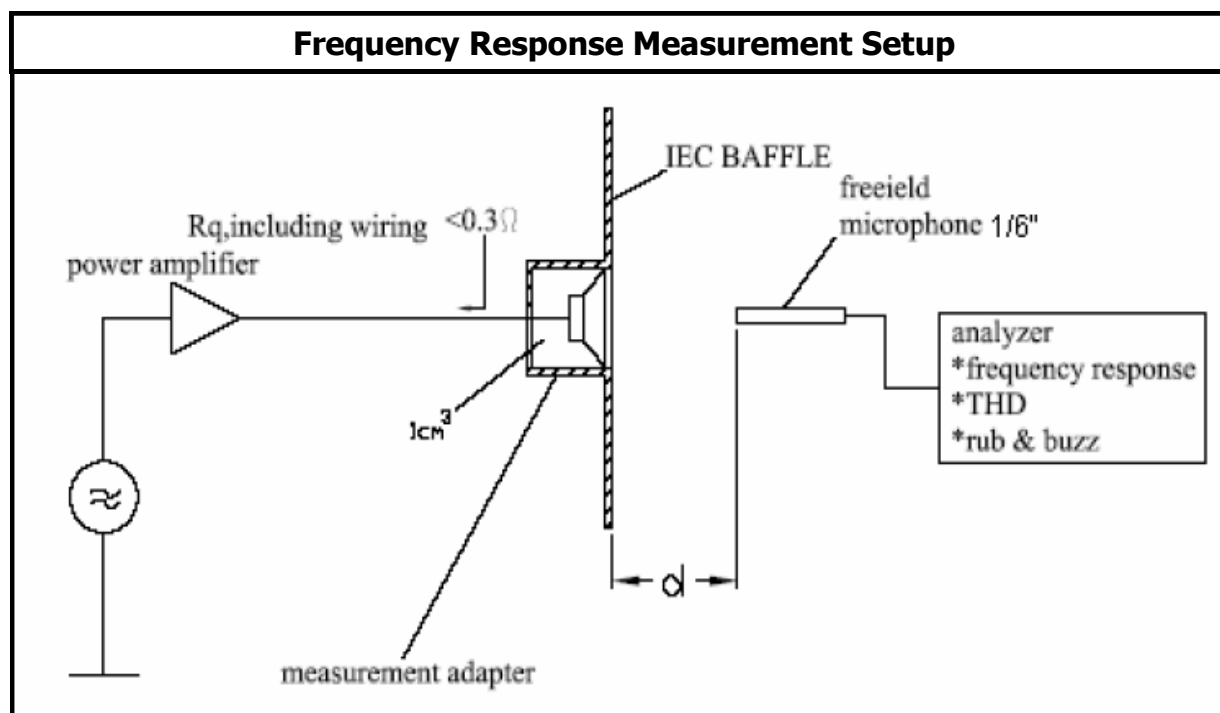




# AS01508AO-LW25-R 15x11mm Slim-Mount Speaker

| Mechanical and Environment Testing |  |
|------------------------------------|--|
| Test Description                   | Test Condition                                       |
| High Temperature                   | 80°C with random humidity for 24 hours               |
| Low Temperature                    | -40°C with random humidity for 24 hours              |
| Humidity                           | 40°C with 90% to 95% relative humidity for 96 hours  |
| Vibration                          | 1.5 mm movement modulated at 15 to 45 Hz for 3 hours |
| Drop Test                          | 75 cm free fall onto concrete, 10 cycles             |

After tests, speaker shall rest for 1 hours. SPL shall not deviate  $\pm 3$  dB from pre-test measurement.



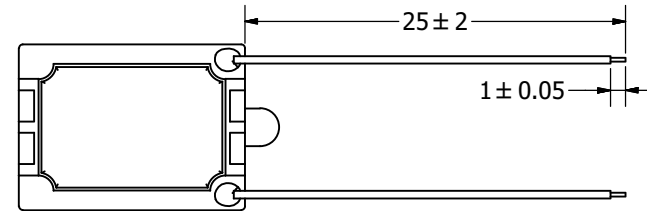
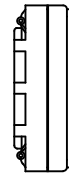
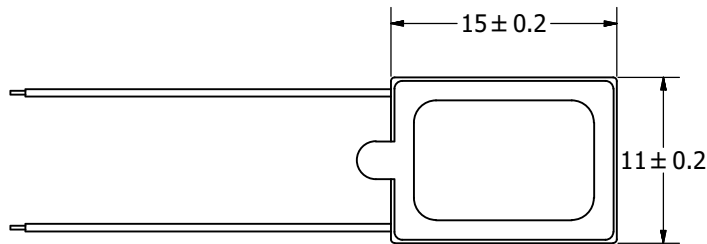
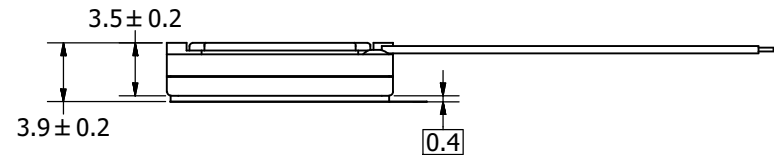
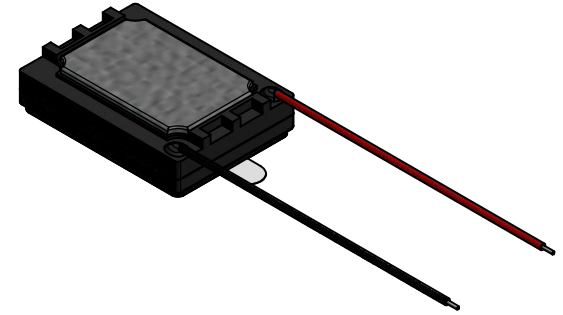
# SPECIFICATIONS

| PARAMETERS                                   | VALUES                | UNITS |
|--|-----------------------|-------|
| RATED INPUT POWER                            | .7                    | W     |
| MAX INPUT POWER                              | 1                     | W     |
| IMPEDANCE                                    | 8± 15%                | OHM   |
| OUTPUT SPL @ 0.1W/0.1M<br>(AVG. 650Hz-20kHz) | 84±3                  | dBa   |
| DISTORTION (MAX.)                            | 10%                   | -     |
| RESONANT FREQUENCY                           | 550±20%               | Hz    |
| FREQUENCY RANGE                              | Fo ~ 20,000           | Hz    |
| HOUSING MATERIAL                             | ABS                   | -     |
| CONE MATERIAL                                | ALUMINUM CAP<br>MYLAR | -     |
| MAGNET MATERIAL                              | NdFeB                 | -     |
| OPERATING TEMPERATURE                        | -40 ~ +80             | °C    |
| WEIGHT                                       | 2                     | grams |

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# REVISION HISTORY

| LTR | DESCRIPTION               | DATE      | APPROVED |
|-----|---------------------------|-----------|----------|
| -   | RELEASED FROM ENGINEERING | 6/18/2015 |          |



UL1571 AWG32

## NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWAL WITHOUT NOTICE.
3. THIS PART IS RoHS 2011/65/EU COMPLIANT.

|  |                   |  |           |                                    |           |             |              |                |
|--|-------------------|--|-----------|------------------------------------|-----------|-------------|--------------|----------------|
| UNLESS OTHERWISE SPECIFIED:<br>DIMENSIONS ARE IN MILLIMETERS,<br>TOLERANCES ARE ±0.5 AND ANGLES ARE ±3°. | SIZE<br><b>A3</b> | Designed by  | Date      | Checked by                         | Date      | Approved by | Date         | Drawn Date     |
|  |                   | M.L.   | 6/18/2015 | M.L.                               | 6/18/2015 | B.R.        | 6/18/2015    | 6/18/2015      |
|  |                   |  <b>pui audio</b><br>a projects unlimited company |           | <b>AS01508AO-LW25-R</b><br>Speaker |           |             | Edition<br>- | Sheet<br>1 / 1 |
| AS01508AO-LW25-R.idw   |                   |  |           |                                    |           |             |              |                |



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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