

New Product Announcement

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**.

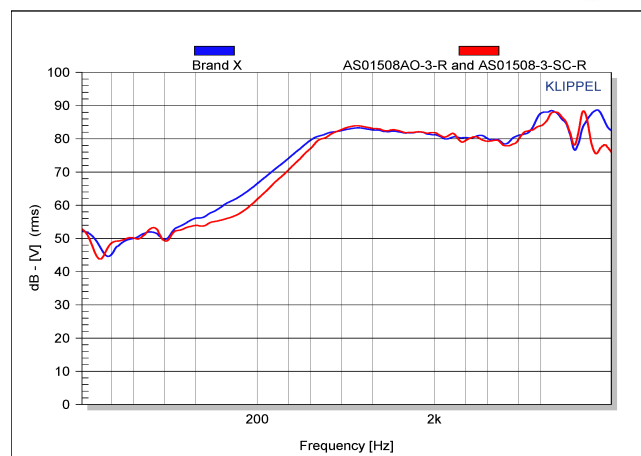
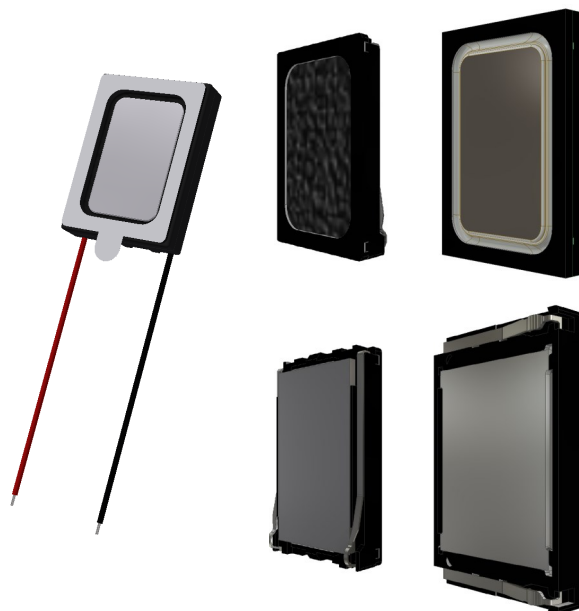
These are also available with an IP65-rated face: the **AS01508AO-WP-R** and the **AS01508AO-SC-WP-R**.

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

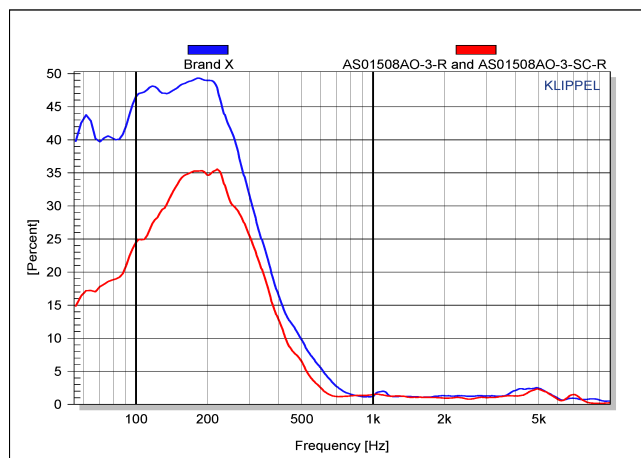
18 x 13 mm Slim-Line Micro Speakers

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.

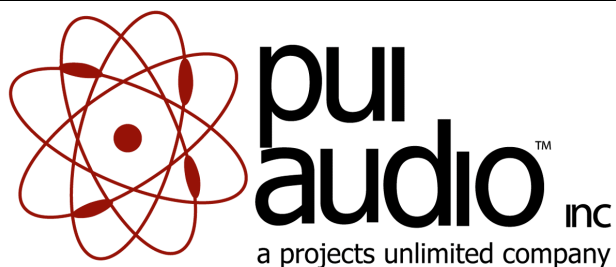
Both feature an amazingly low resonant frequency of 420 Hz and are available with IP65-rated faces in the **AS01808AO-WP-R** and **AS01808AO-SC-WP-R**.



Frequency Response Comparison



Total Harmonic Distortion (THD) Comparison

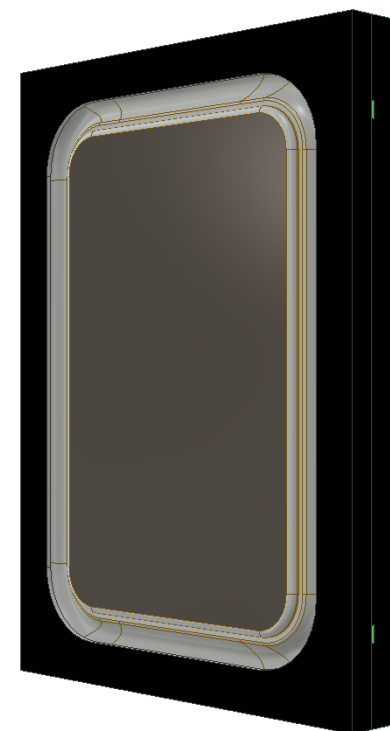


AS01808AO-3-R 18x13mm Slim-Mount Speaker

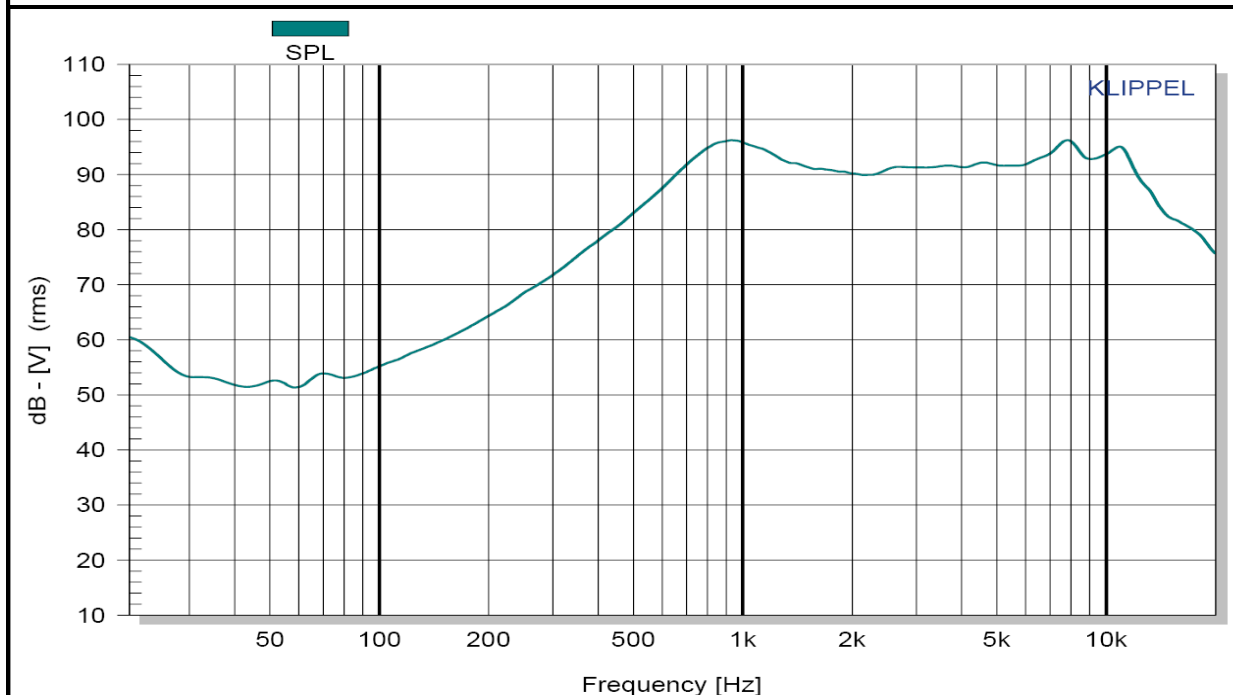
3541 Stop Eight Road • Dayton, Ohio 45414

Product Overview

- 18 x 13 mm speaker with Neodymium magnet for 94 dB sensitivity
- 1W continuous, 1.2W maximum power handling and 8Ω impedance
- For space-limited applications such as cell phones and consumer electronics
- Horizontally placed solder pads

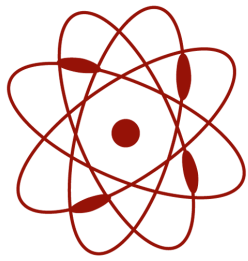


Frequency Response (1W @ 10 cm)



An initiative of the EEC and GeS



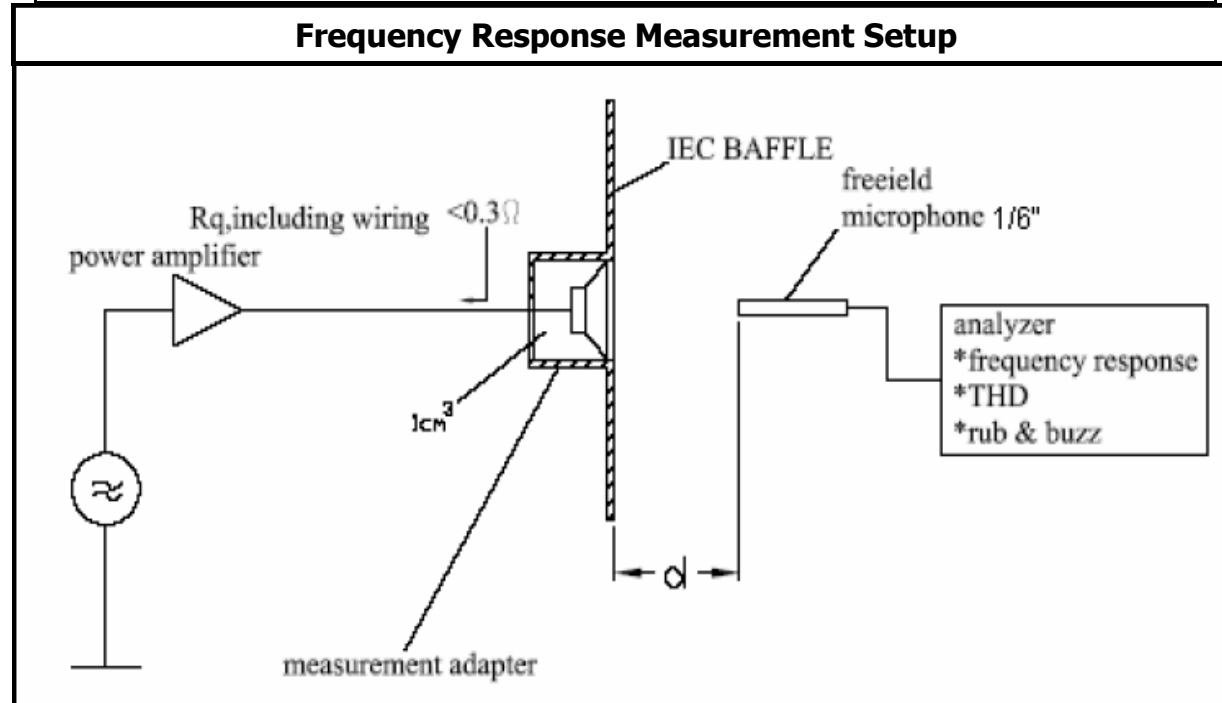


pui
audio™ inc
a projects unlimited company

AS01808AO-3-R 18x13mm Slim-Mount Speaker

| Mechanical and Environment Testing | |
|------------------------------------|--|
| Test Description | Test Condition |
| High Temperature | 60°C with random humidity for 96 hours |
| Low Temperature | -25°C with random humidity for 96 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 ± 3 dB from pre-test measurement.



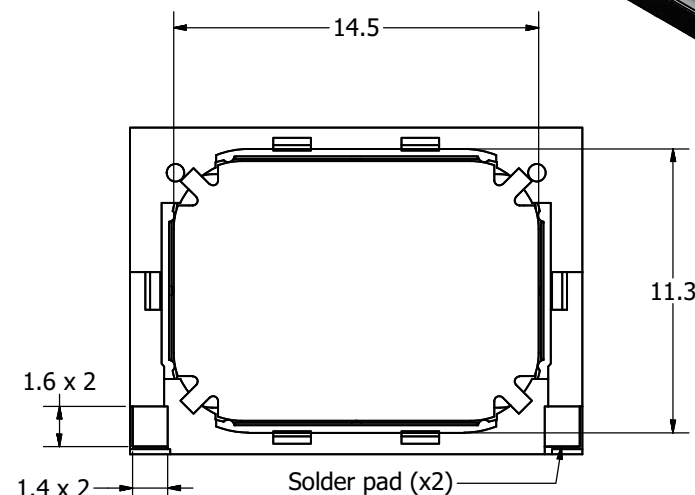
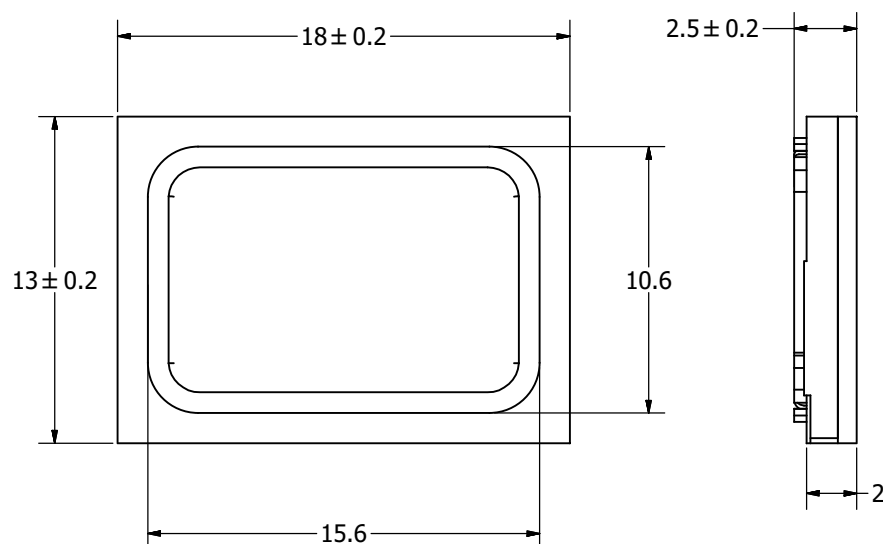
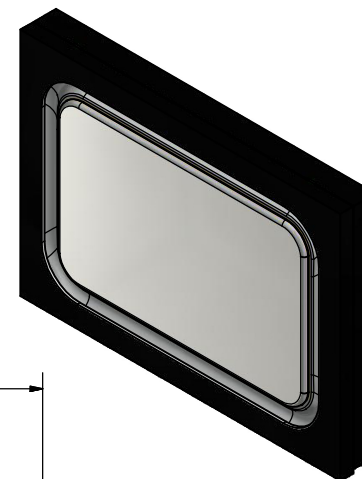
SPECIFICATIONS

| PARAMETERS | VALUES | UNITS |
|---|-----------------------|-------|
| RATED INPUT POWER | 1.0 | W |
| MAX INPUT POWER | 1.2 | W |
| IMPEDANCE | 8± 15% | OHM |
| OUTPUT SPL @ 1W/0.1M (AVG. 0.8, 1, 1.2, 1.5 kHz) | 94±3 | dBa |
| DISTORTION (MAX.) | 5% | - |
| RESONANT FREQUENCY | 420±20% | Hz |
| FREQUENCY RANGE | Fo ~ 14,000 | Hz |
| HOUSING MATERIAL | ABS | - |
| CONE MATERIAL | ALUMINUM CAP MYLAR | - |
| MAGNET MATERIAL | NdFeB | - |
| OPERATING TEMPERATURE | -25 ~ +60 | °C |
| WEIGHT | 2 | grams |

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REVISION HISTORY

| LTR | DESCRIPTION | DATE | APPROVED |
|-----|---------------------------|---------|----------|
| - | RELEASED FROM ENGINEERING | 3/23/16 | |



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: DIMENSIONS ARE IN MILLIMETERS, TOLERANCES ARE ±0.5 AND ANGLES ARE ±3°. | SIZE | Designed by | Date | Checked by | Date | Approved by | Date | Drawn Date |
| | | M.V. | 3/23/2016 | M.V. | 3/23/2016 | B.R. | 3/23/2016 | 3/23/2016 |
| | A3 |  pui audio ™ inc. <small>a projects unlimited company</small> | | | AS01808AO-3-R | | | |
| AS01808AO-3-R.idw | Speaker | | | | | Edition | Sheet | |
| | | | | | | | - | 1 / 1 |



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[AS01808AO-3-R](#)