

# 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**.

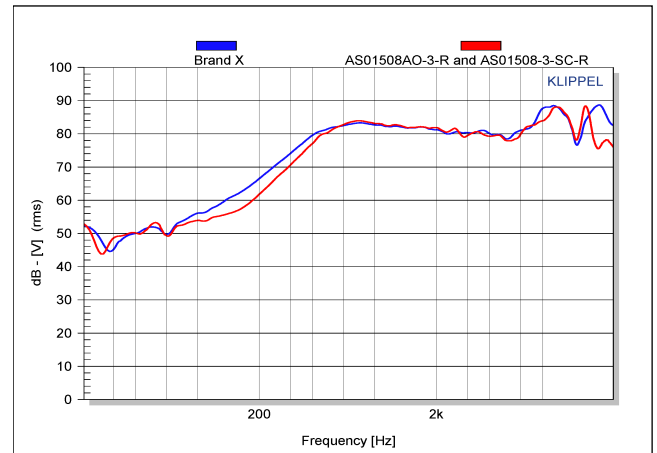
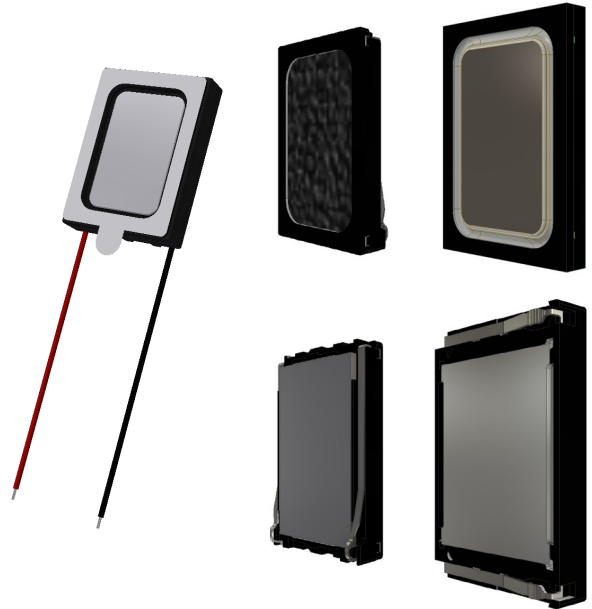
These are also available with an IP65-rated face: the **AS01508AO-WP-R** and the **AS01508AO-SC-WP-R**.

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

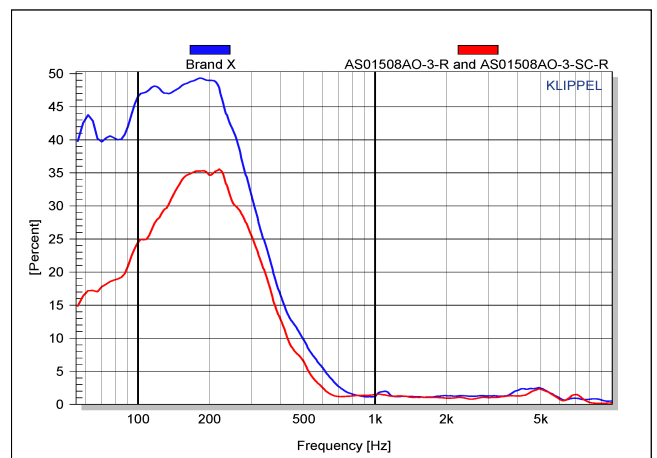
### 18 x 13 mm Slim-Line Micro Speakers

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.

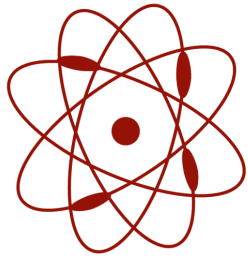
Both feature an amazingly low resonant frequency of 420 Hz and are available with IP65-rated faces in the **AS01808AO-WP-R** and **AS01808AO-SC-WP-R**.



Frequency Response Comparison



Total Harmonic Distortion (THD) Comparison



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## AS01808AO-WP-R 18x13mm Slim-Mount Speaker

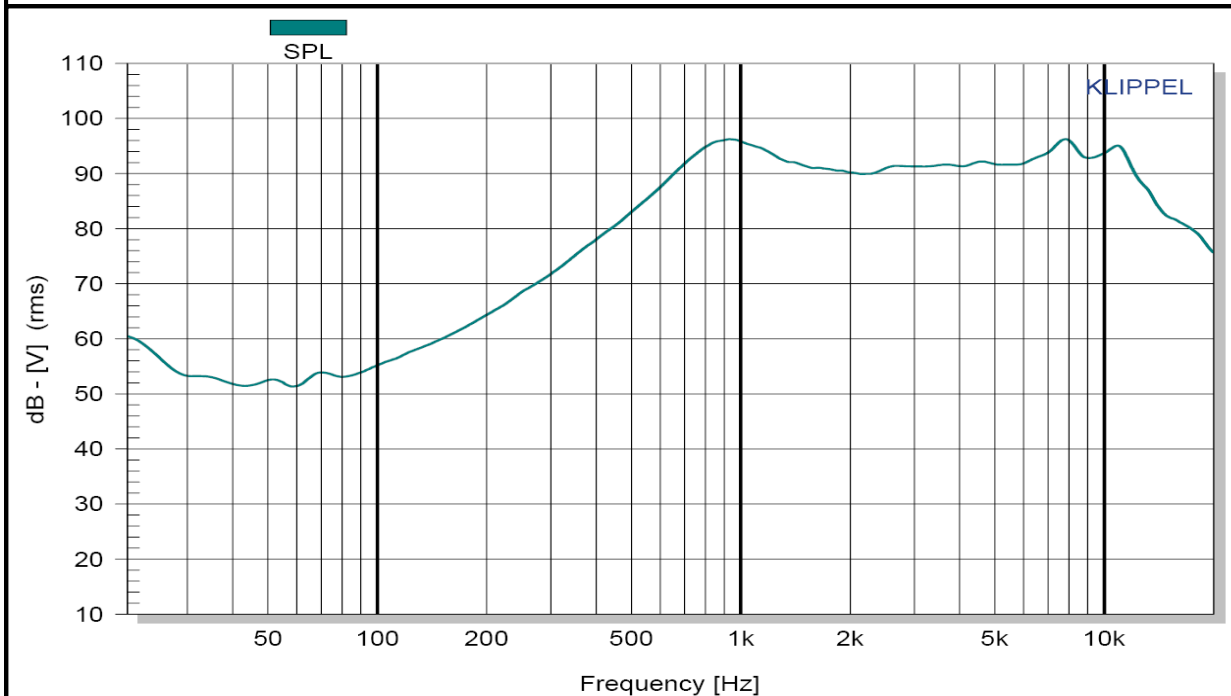
3541 Stop Eight Road • Dayton, Ohio 45414

### 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
- Waterproofed face meets IP65 requirements when properly mounted

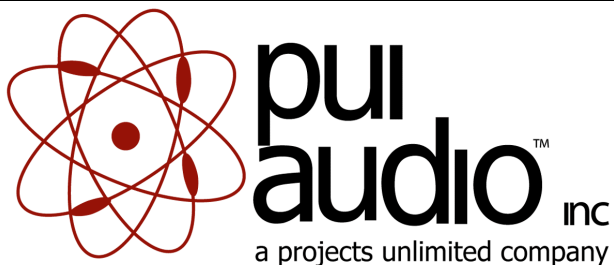


### Frequency Response (1W @ 10 cm)



An Initiative of the EICC and GeSI





# AS01808AO-WP-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  $\pm 3$  dB from pre-test measurement.

