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 **ASO1508AO-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**.

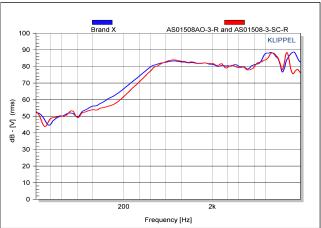
Each 15×11 mm speaker features a class-leading resonant frequency below 600 Hz for realistic sound.

18 x 13 mm Slim-Line Micro Speakers

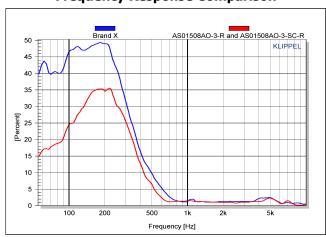
PUI Audio's 18 x 13 mm speakers build on the performance of the 15 x 11 mm speakers, while reducing the overall thickness to below 3 mm on the $\bf ASO1808AO-3-R$ with solder pads and 3.1 mm on the $\bf ASO1808AO-3-SC-R$ with spring contacts.

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

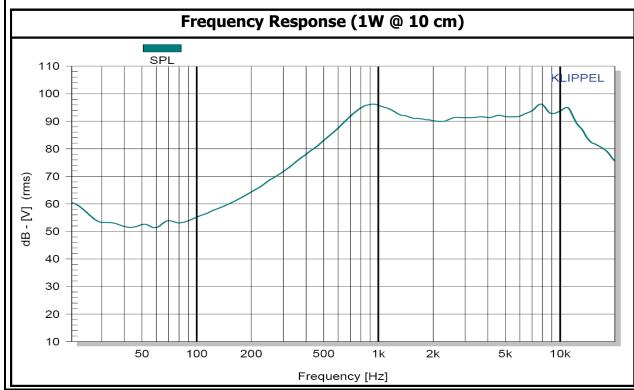


AS01808AO-WP-R 18x13mm Slim-Mount Speaker

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

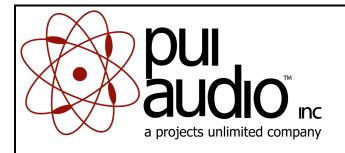








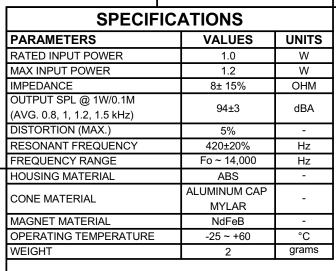




AS01808AO-WP-R 18x13mm Slim-Mount Speaker

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 ±3 dB from pre-test measurement.		

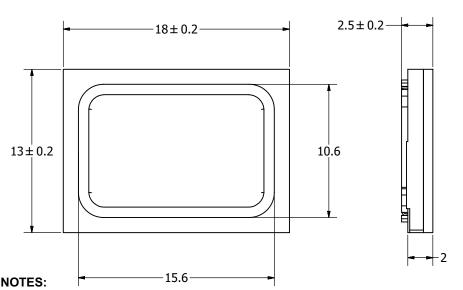
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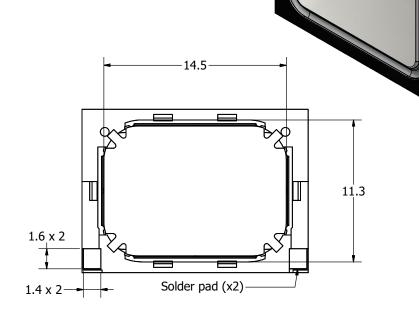


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REVISION HISTORY					
LTR	DESCRIPTION	DATE	APPROVED		
-	RELEASED FROM ENGINEERING	3/23/16			





1. ALL DIMENSIONS ARE IN MILLIMETERS.

 SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWL WITHOUT NOTICE.

3. THIS PART IS RoHS 2011/65/EU COMPLIANT.

4. THE FACE OF THIS PART COMPLIES WITH IP65 WATERPROOFING STANDARDS.

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MILLIMETERS,

TOLERANCES ARE ±0.5 AND ANGLES ARE ±3°.

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M.V. 3/23/2016

Date

Checked by

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Date

3/23/2016 B.R. 3/23/2016 3/23/2016 AS01808AO-WP-R

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Approved by

Speaker Edition Sheet 1 / 1

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