

## 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**.

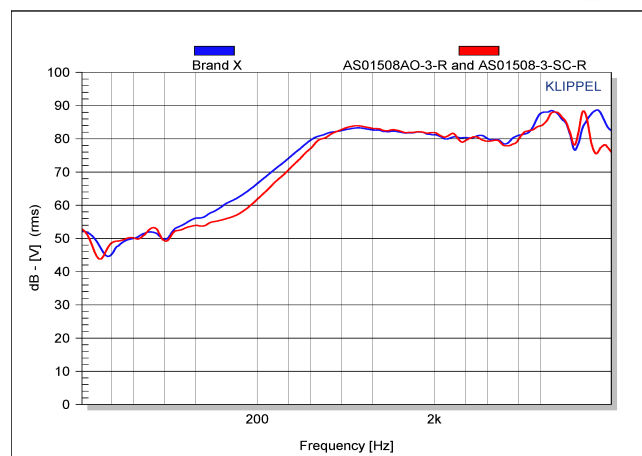
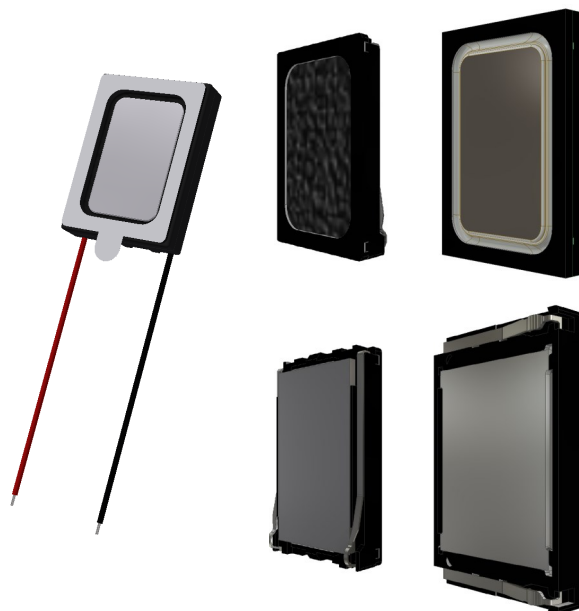
These are also available with an IP65-rated face: the **AS01508AO-WP-R** and the **AS01508AO-SC-WP-R**.

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

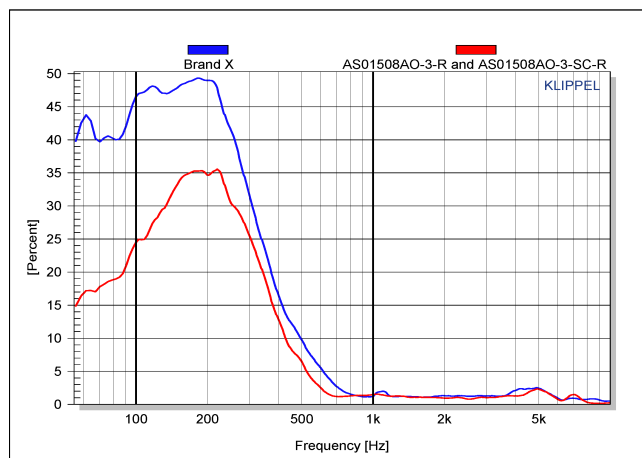
#### 18 x 13 mm Slim-Line Micro Speakers

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**.

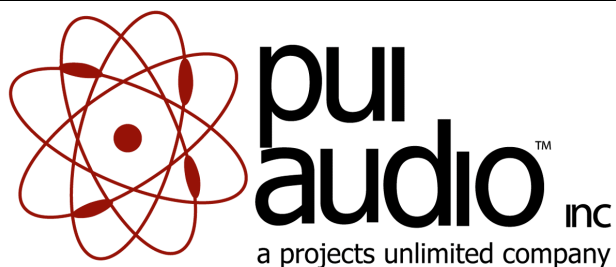


Frequency Response Comparison



Total Harmonic Distortion (THD) Comparison

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

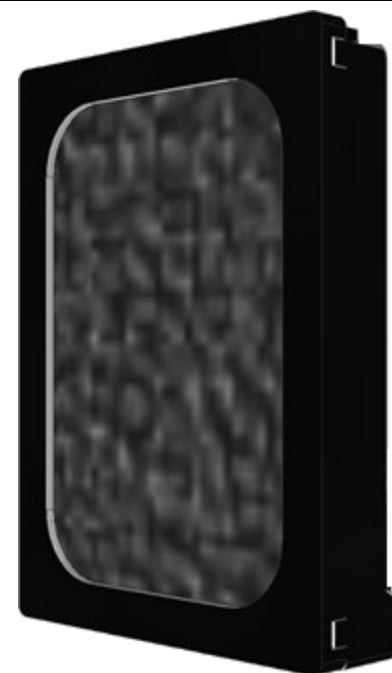


## AS01508AO-SC-WP-R 15x11mm Slim-Mount Speaker

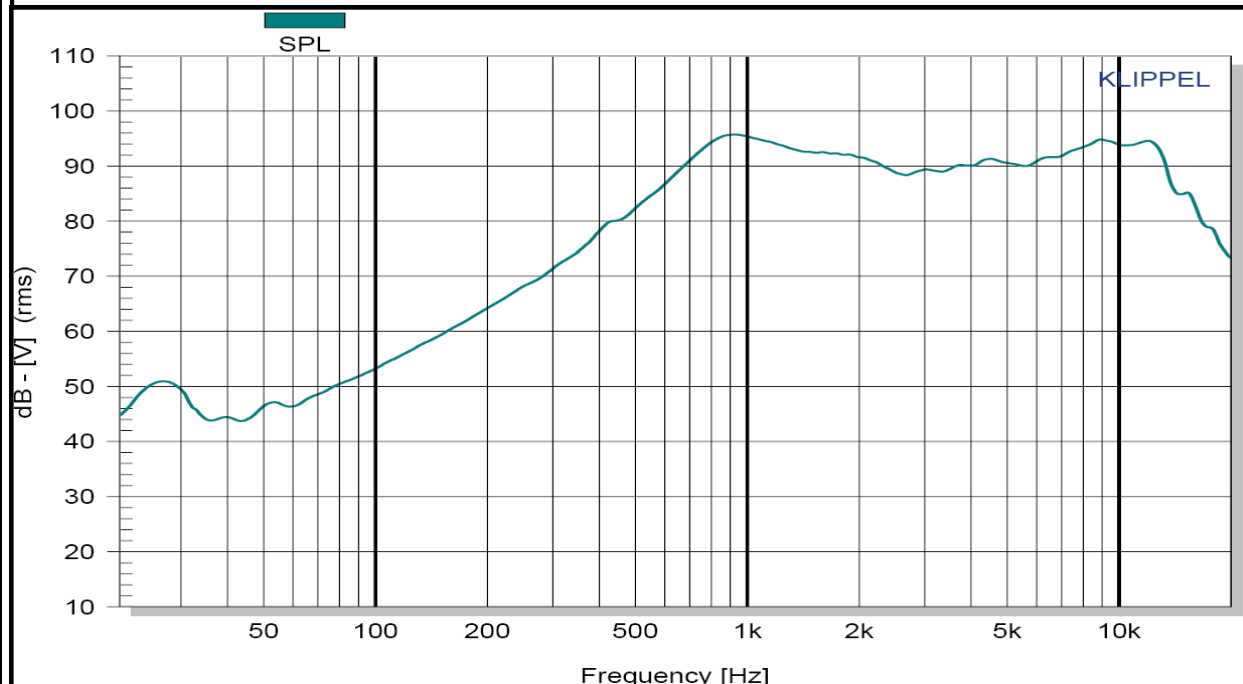
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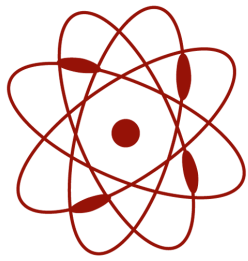
### Product Overview

- 15 x 11 mm speaker with Neodymium magnet for 94 dB sensitivity and spring contacts
- 0.7W continuous, 1W maximum power handling and 8Ω impedance
- For space-limited applications such as cell phones and consumer electronics
- Waterproofed face meets IP65 requirements when properly mounted



Frequency Response (0.7W @ 10 cm)



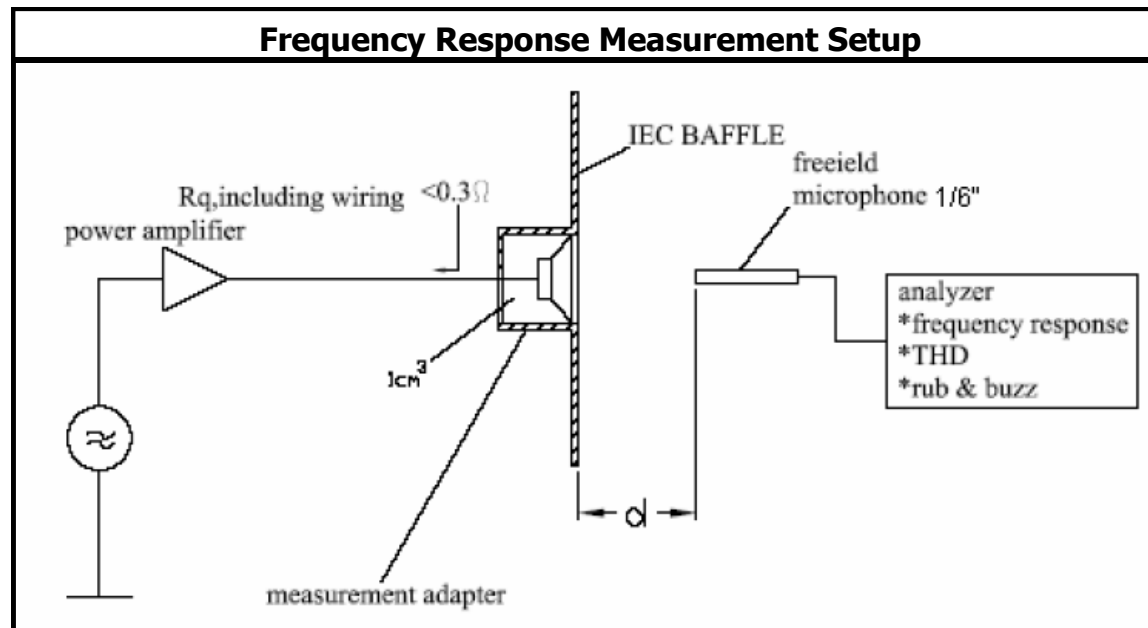


**pui  
audio**™ inc  
a projects unlimited company

## AS01508AO-SC-WP-R 15x11mm 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
Temperature Cycle Test	-25°C to 60°C, 4 cycles

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



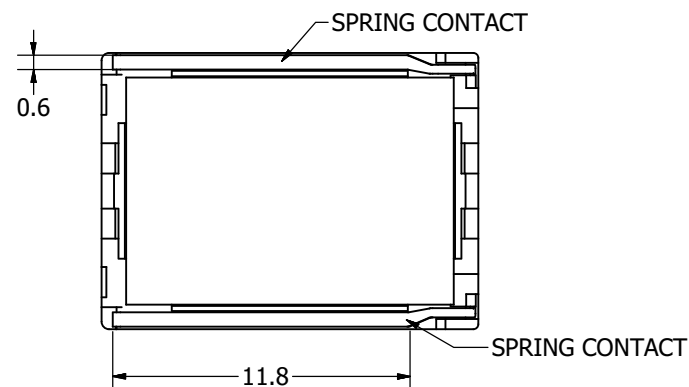
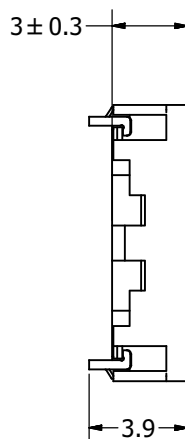
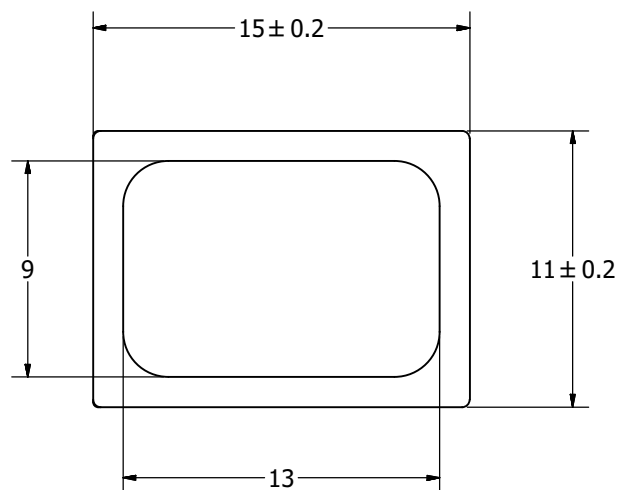
## SPECIFICATIONS

PARAMETERS	VALUES	UNITS
RATED INPUT POWER	0.7	W
MAX INPUT POWER	1.0	W
IMPEDANCE	8± 15%	OHM
OUTPUT SPL @ 0.7W/0.1M (AVG. 0.8, 1, 1.2, 1.5 kHz)	94±3	dBa
DISTORTION (MAX.)	5%	-
RESONANT FREQUENCY	500±20%	Hz
FREQUENCY RANGE	Fo ~ 14,000	Hz
HOUSING MATERIAL	ABS	-
CONE MATERIAL	MYLAR	-
MAGNET MATERIAL	NdFeB	-
OPERATING TEMPERATURE	-25 ~ +60	°C
WEIGHT	1.7	grams

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## REVISION HISTORY

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



### NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS.
- SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWAL WITHOUT NOTICE.
- THIS PART IS RoHS 2011/65/EU COMPLIANT.
- 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°.	SIZE  A3	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
	 <b>pui audio</b> ™ inc <small>a projects unlimited company</small>		AS01508AO-SC-WP-R					
Speaker						Edition -	Sheet 1 / 1	
AS01508AO-SC-WP-R.idw								



# Mouser Electronics

Authorized Distributor

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