



# PUI audio

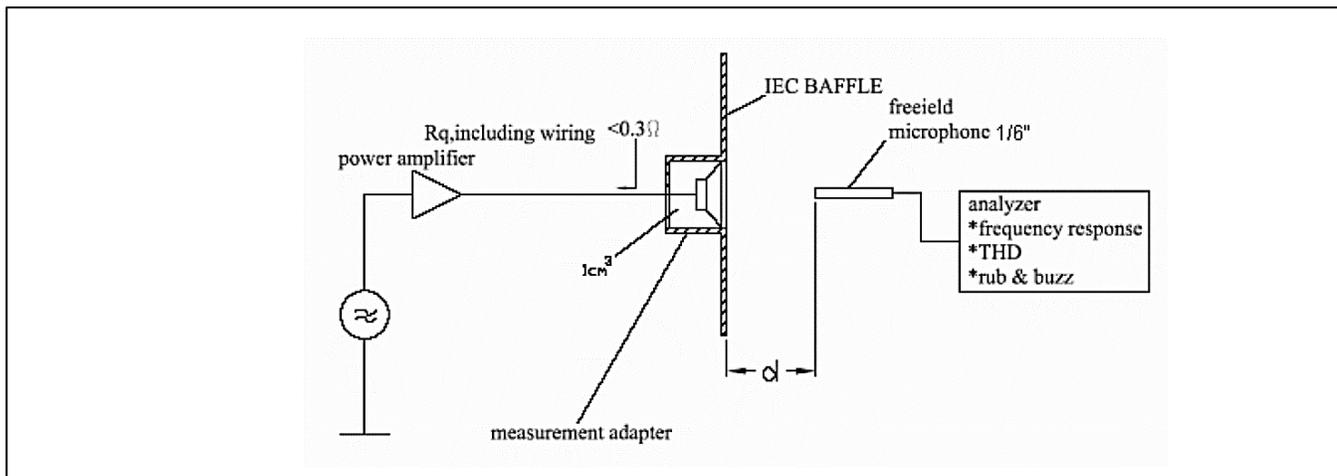


Data Sheet	AS01508AO-3-SC-R
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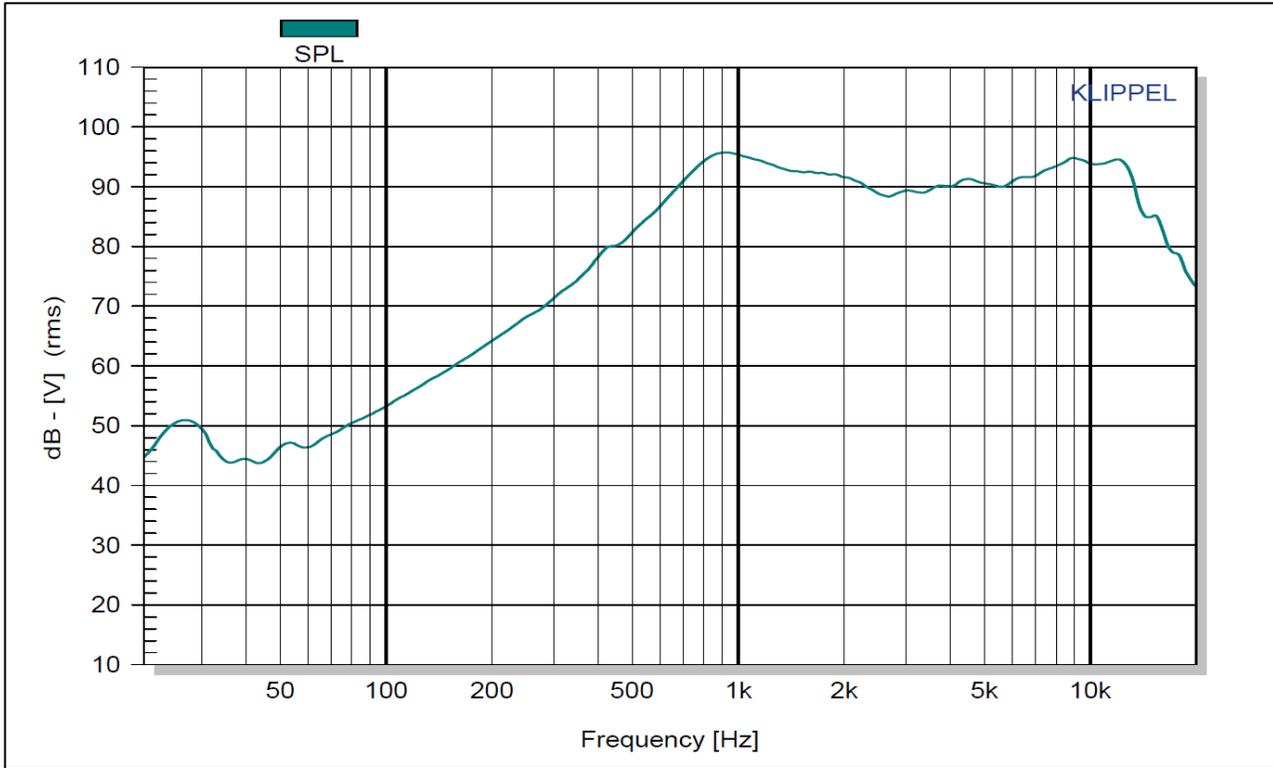
## Specifications

Parameters	Values	Units
Rated Input Power	0.7	Watts
Max Input Power	1.0	Watts
Impedance	$8 \pm 15\%$	Ohms
Output SPL ( <i>0.7W/0.1m; average at 0.8, 1.0, 1.2, 1.5 kHz</i> )	94 $\pm$ 3 (free air) 91 $\pm$ 3 (1cc box)	dB
Resonant Frequency	500 $\pm$ 20% (free air) 800 $\pm$ 20% (1cc box)	Hz
Frequency Range	Fo ~ 14,000	Hz
THD	5% Max	
Frame Material	ABS	-
Magnet Material	NdFeB	-
Diaphragm Material	Mylar	-
Weight	1.7	Grams
Environmental Compliances	ROHS/REACH	-
Operating Temperature	-25 ~ +60	°C

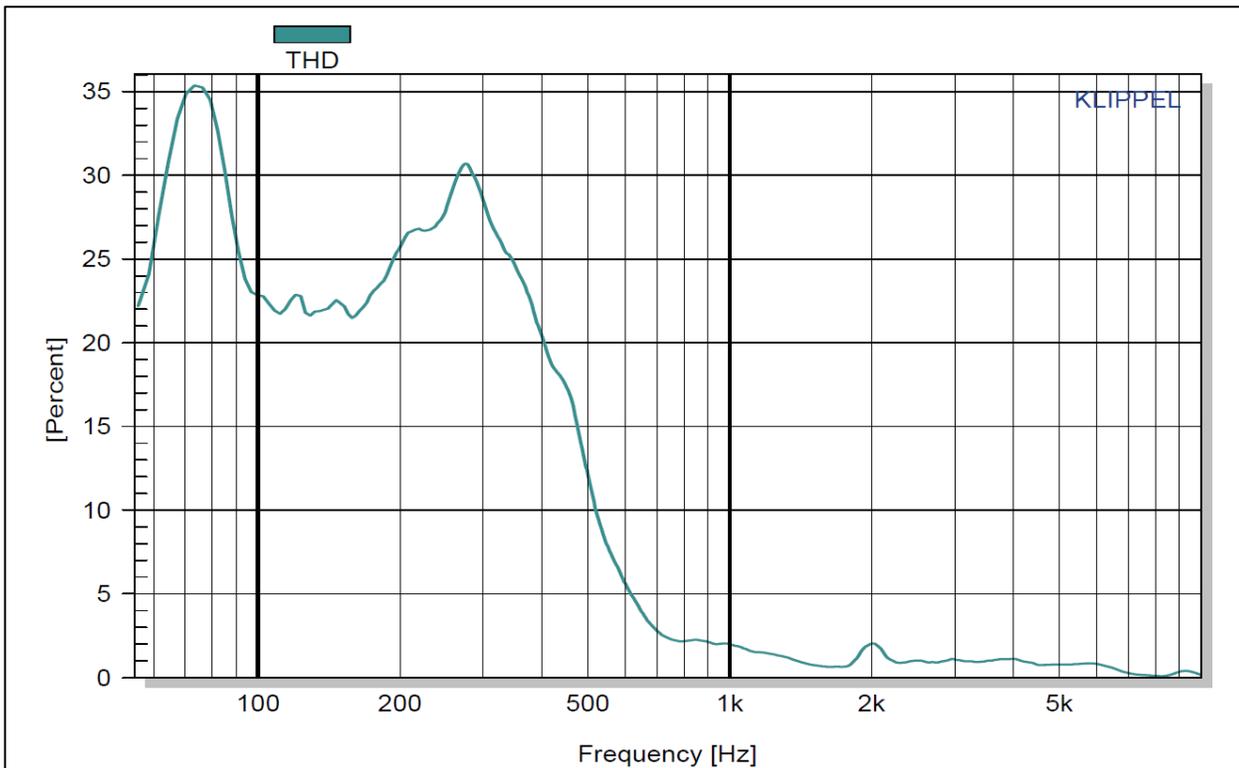
## Measurement Method



### Typical Frequency Response (0.7W/2.37V - 10cm)



### THD vs Frequency (0.7W/2.37V - 10cm)

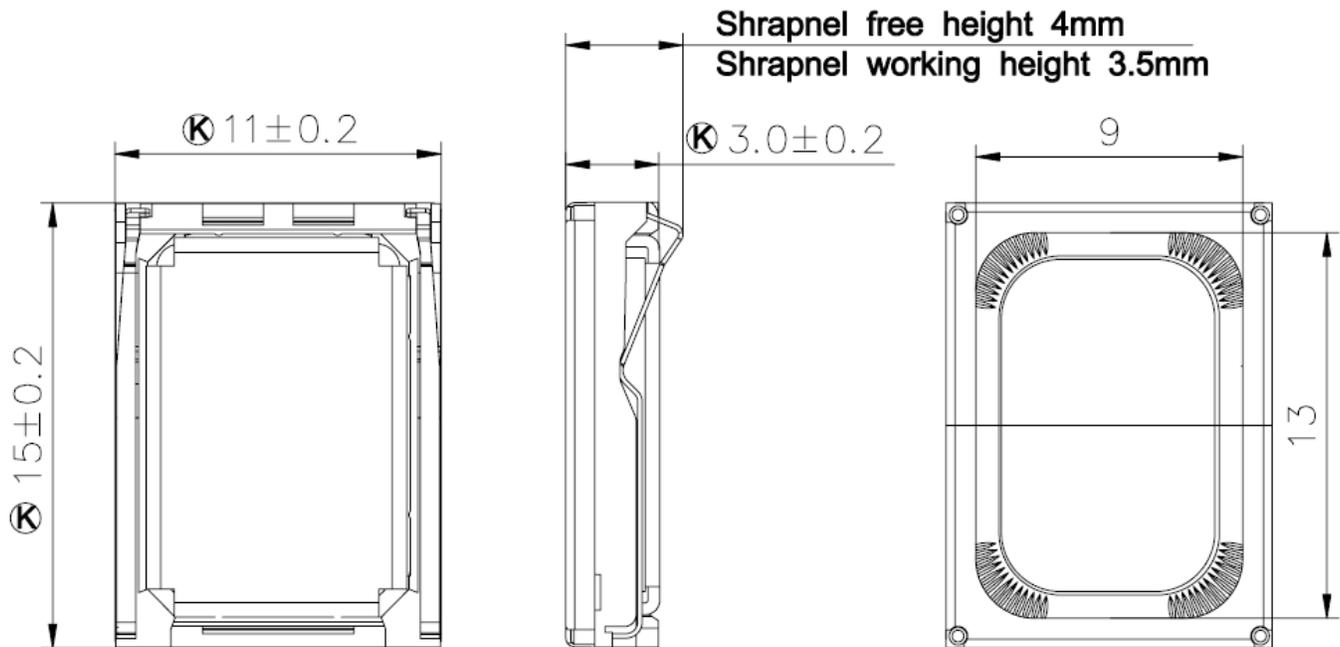


## Reliability Testing

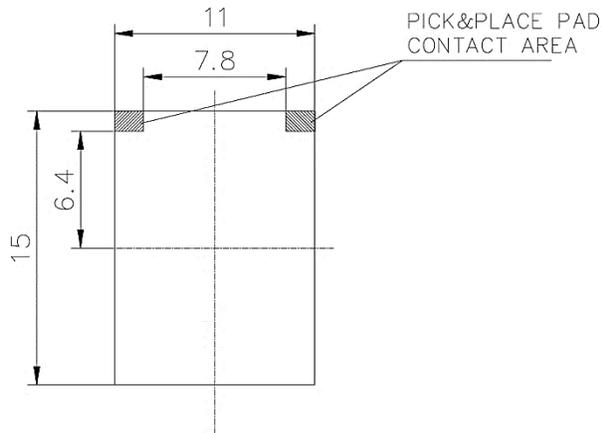
Type of Test	Test Specifications
High Temperature Test	60°C with random humidity for 96 hours
Low Temperature Test	-25°C with random humidity for 96 hours
Humidity Test	40°C with 90% to 95% relative humidity for 96 hours
Temperature Cycle Testing	25°C to 60°C, 4 cycles
Vibration Test	1.5 mm movement modulated at 15 to 45 Hz for 3 hours
Drop Test	75 cm free fall onto concrete, 10 cycles

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

## Dimensions



## Recommended Land Pattern\*



**\*This land pattern is advisory only and its use or adaptation is entirely voluntary. PUI Audio disclaims all liability of any kind associated with the use, application, or adaptation of this land pattern.**

### Specifications Revisions

Revision	Description	Date	Approved
-	Released from Engineering	03/23/2016	-
A	Revised Specification Template, THD vs. Frequency & Frequency Response Graphs, Added Land Pattern, Add 1cc box parameters	04/30/2024	M.L.

Note:

1. Unless otherwise specified:
  - A. All dimensions are in millimeters.
  - B. Default tolerances are  $\pm 0.5\text{mm}$  and angles are  $\pm 3^\circ$ .
2. Specifications subject to change or withdrawal without notice.