



PUI Audio's **Copperhead Series** was conceived to create a family sound across three different speaker sizes: 36mm, 53mm, and 78mm square. Specialized alloy cones are paired with optimized motors to achieve superior frequency response and output, with minimized harmonic distortion.

The eight ohm, 53mm square frame **AS05308AS-R** features a rubber surround, for water and dust resistance, and a vented voice coil former for improved voice coil cooling.

Features:

- Coated alloy cone for extended frequency response to 40 kHz
- 78 dB output at 1m (98 dB output at 10cm)
- High-energy neodymium motor
- Large 1" diameter voice coil for high power handling
- Easy-to-mount square frame

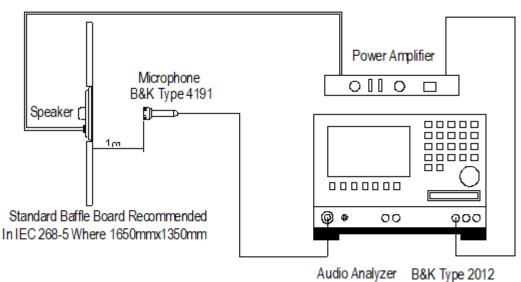
Specifications

Parameters	Values	Units
Rated Input Power	10	Watts
Max Input Power	20	Watts
Impedance	8 ± 15%	Ohms
Sensitivity (SPL @ 1W/1m)		
Avg. at 2, 4, 8, and 16 kHz	78 ± 3	dB
Resonant Frequency (in free air)	230±20%	Hz
Frequency Range (-10 dB)	100 ~ 40,000	Hz
Frame Material	Stamped Steel	-
Magnet Material	NdFeB	-
Weight	120	Grams

Specifications (continued)

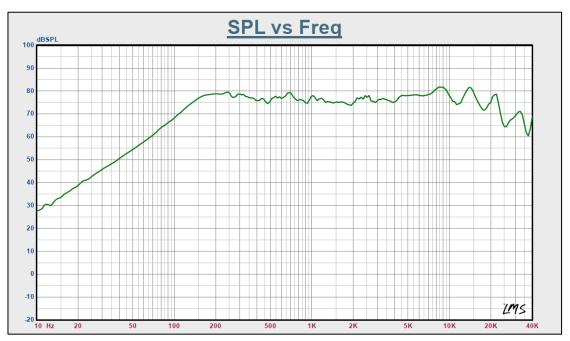
Buzz, Rattle, etc.	Should not be audible with 8.95V sine wave from 200 Hz to 20 kHz	_
Polarity	When positive voltage is applied to the positive terminal, the diaphragm will move outward	-
Storage Temperature	-20 ~ +60	°C
Operating Temperature	-20 ~ +60	°C

Measurement Method



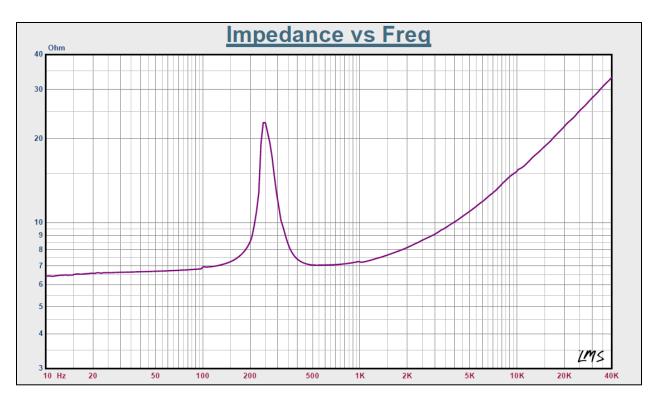
Standard test condition of speaker

Frequency Response (measured with 2.83V @ 1m)



PUI Audio, Inc., 3541 Stop Eight Road, Dayton, OH 45414 Tel: (937) 415-5901 Fax: (937) 415-5925

Impedance Response

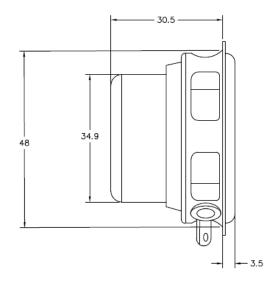


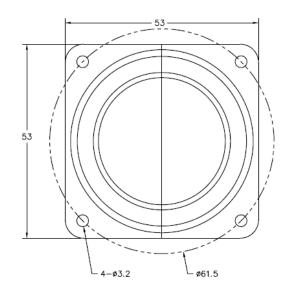
Reliability Testing

Type of Test	Test Specifications
	96 hours at $+60^{\circ}$ C \pm 3°C followed by three hours in
High Temperature Test	normal room temperature
	96 hours at -20°C ± 3°C followed by three hours in
Low Temperature Test	normal room temperature
	96 hours at +40°C ± 3°C with relative humidity at
	90%~95% followed by 6 hours in normal room
Humidity Test	temperature
	The part shall be subjected to 12 cycles using the
	following procedure:
Temperature Cycle Testing	Low temperature: -20°C±3°C
Temperature Cycle Testing	High temperature:+60°C±3°C
	Cycle: 2 hours at High, 5 minutes High to Low, 2
	hours at Low, 5 minutes Low to High
	10 to 55 to 10 Hz sine sweep, per minute @
	1.5mm amplitude
Vibration Test	2 hours in each axis X, Y, and Z.
	White noise is applied at the speakers rated power
Load Test	for 96 hours at room temperature

After each test, the speaker's SPL shall be ±3 dB of the original SPL

Dimensions (red terminal is positive +)









Specifications Revisions

Specifications Revisions		
Revision	Description	Date
-	Released from Engineering	5/23/18

Note:

2.

- 1. Unless otherwise specified:
 - A. All dimensions are in millimeters.
 - B. Default tolerances are ± 0.5 mm and angles are $\pm 3^{\circ}$.
 - Specifications subject to change or withdrawal without notice.
- 3. This part is RoHS 2011/65/EU Compliant.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Speakers & Transducers category:

Click to view products by PUI Audio manufacturer:

Other Similar products are found below :

 FC-30814-P127
 AS02832MR-2-R
 PB-1220PE
 PB-2015PQ
 900-00001
 AB2025B-LW50-R
 SWFK-31736-000
 PT-2065FW
 PT-4175W
 AT

 2830-TW-LW35-R
 ED-30761-000
 CI-30120-A42
 SMT-0440-T-2-R
 PB-0927PQ
 BF-7083-000
 BF-9778-000
 MBS 3000-1811-A1AB08-0

 SMS2020-08H4.5 LF
 BDT1717-08H6.5W56MLF
 02094
 02097
 GSPK1003PN-8R0.2W-L100
 GSPK151103TN-8R0.2W
 GSPK2014035PN

 8R0.5W-L100
 FS5353DS0830-H19.3
 TE082703-8
 XMLP040BD21F
 AS03608MR-LW100-R
 24520
 SMT-0540-S-2-R
 1450069
 9091653

 9091661
 IPS-G6000-5
 9090231
 FS50MS0820-H9.7
 FS4014-4-2W
 PBM4-13.B31R.A115.0663
 PBM4-13.B33R.A115.0663
 PBM4

 13.B35R.A115.0663
 A-10-6-BG360-HD1Z-GA-M4Z-ZW
 A-10-6-BG410-HD1Z-AA-AGZ-ZW
 A-10-6-BG310-HD1Z-AA-M4Z-ZW
 A-10-6-BG310-HD1Z-AA-M4Z-ZW

 A-10-6-BG310-HD1Z-GA-M4Z-ZW
 A-10-6-BG310-HD1Z-AA-AGZ-ZW
 A-10-6-BG310-HD1Z-AA-M4Z-ZW
 A-10-6-BG310-HD1Z-AA-M4Z-ZW