



Data Sheet

AS07808AS-R

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, 78mm square frame **AS07808AS-R** features a rubber surround, for water and dust resistance, and a shielded double-stacked motor to protect sensitive components and for high sensitivity.

Features:

- Coated alloy cone for extended frequency response to 40 kHz
- 82 dB output at 1m (102 dB output at 10cm)
- High-energy, double-stacked magnetic motor
- Large 20mm diameter voice coil for high power handling
- Easy-to-mount square frame

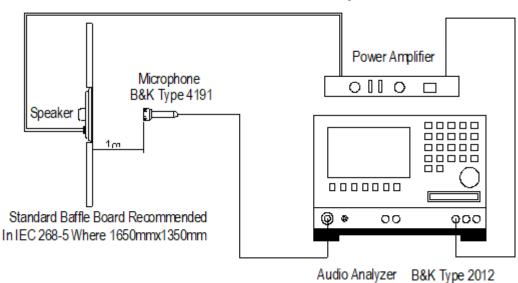
Specifications

Parameters	Values	Units
Rated Input Power	15	Watts
Max Input Power	30	Watts
Impedance	8 ± 15%	Ohms
Sensitivity (SPL @ 1W/1m)		
Avg. at 2, 4, 8, and 16 kHz	82 ± 3	dB
Resonant Frequency		
(in free air)	120±20%	Hz
Frequency Range (-20 dB)	60 ~ 40,000	Hz
Frame Material	Stamped Steel	-
Magnet Material	NdFeB	-
Weight	560	Grams

Specifications (continued)

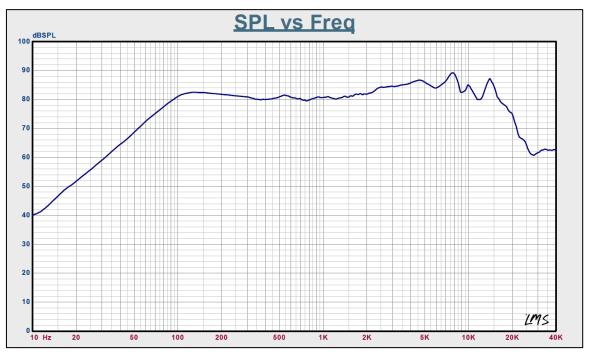
Buzz, Rattle, etc.	Should not be audible with 10.95V sine wave from 200 Hz to 20 kHz	-
Polarity	When positive voltage is applied to the positive terminal, the diaphragm will move outward	-
Storage Temperature	-20 ~ +60	°C
Operating Temperature	-20 ~ +60	°C

Measurement Method



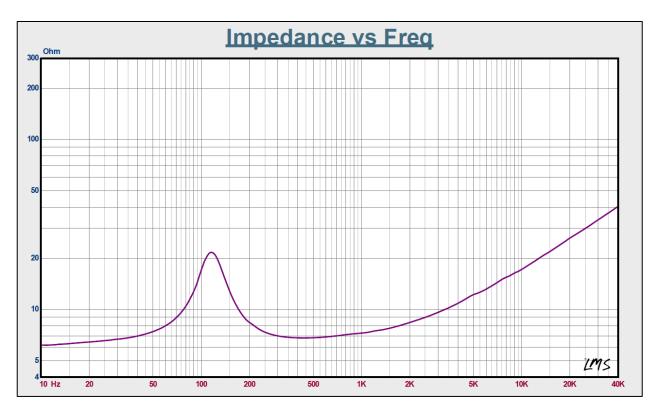
Standard test condition of speaker

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

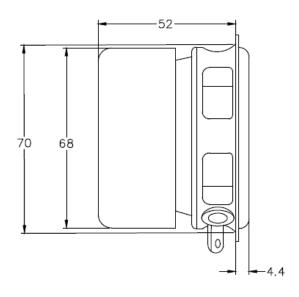


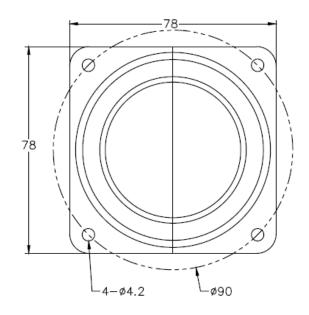
Reliability Testing

Type of Test	Test Specifications
	96 hours at +60°C ± 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
remperature Gycle resung	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:

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

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 AT

 2830-TW-LW35-R
 ED-30761-000
 CI-30120-A42
 SMT-0440-T-2-R
 PB-0927PQ
 BF-7083-000
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 SMS2020-08H4.5 LF

 BDT1717-08H6.5W56MLF
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 GSPK1003PN-8R0.2W-L100
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 FS5353DS0830-H19.3
 TE082703-8
 XMLP040BD21F
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 9091653
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 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-BG410-HD1Z-AA-AGZ-ZW
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 A-10-6-BG310-HD1Z-AA-AGZ-ZW

 HD1Z-GA-M4Z-ZW
 A-10-6-BG316-HD1Z-AA-AGZ-ZW
 A-10-6-BG316-HD1Z-AA-AGZ-ZW
 A-10-6-BG325-HD1Z-AA-AGZ-ZW
 A-10-6-BG325-HD1Z-AA-AGZ-ZW