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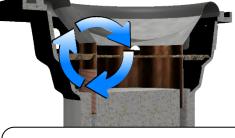


Data Sheet

PUI Audio's e**X**treme Series speakers are purpose-built for superior performance using Klippel-optimized motor designs. Forced-air vented voice coils combine with a high-grade neodymium motor for extreme power handling, extremely flat frequency response, and a surprising amount of bass when used with tuned-port or passive radiator assisted enclosures.



AS06504PS-X-R



Air is forced into the magnetic loop on both sides of the voice coil for improved heat dissipation

Features:

- Paper cone for warm natural sound and improved ruggedness
- Large voice coil diameter for high power handling
- Convenient mounting frame for easy integration
- Venting in the magnetic motor creates forced-air cooling limiting power compression
- Four-layer copper-clad aluminum wire for great transient response
- Water resistant with optional PUI Audio WR coating process
- Low Qts design for use in ultra-small enclosures without inhibiting performance

Specifications

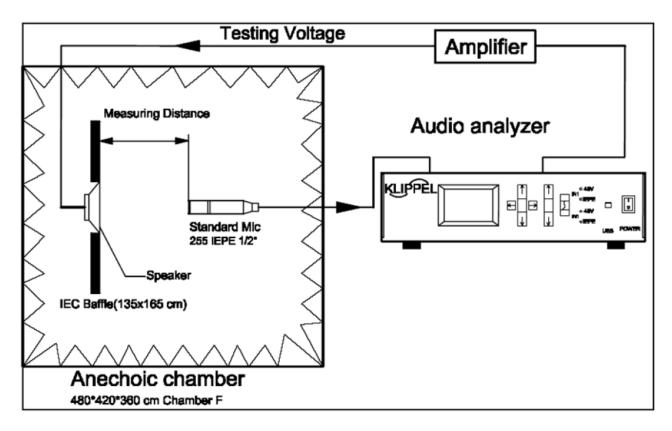
Parameters	Values	Units
Rated Input Power	10	Watts
Max Input Power	20	Watts
Impedance	4 ± 15%	Ohms
SPL @ 1W/0.5m		
(Average 0.8, 1.0, 1.2, 1.5 kHz)	88 ± 3	dB
Resonant Frequency	130 ± 20%	Hz
Frequency Range (-10 dB)	80 ~ 20,000+	Hz
Frame Material	Stamped Steel	-
Magnet Material	NdFeB	-
Weight	92	Grams
Ingress Protection Rating	IP65**	**With WR Coating
Recommended Sealed Enclosure		
Volume Range (Qtc ≤ 0.707)*	0.06 ~ 0.60	Liters
Recommended Vented		
Enclosure Volume*	0.60	Liters
Vent Size and Tuning Frequency	26mm dia. x 350mm L, 88 Hz	-

*Recommended enclosure volumes do not include volume displaced by speaker or vent

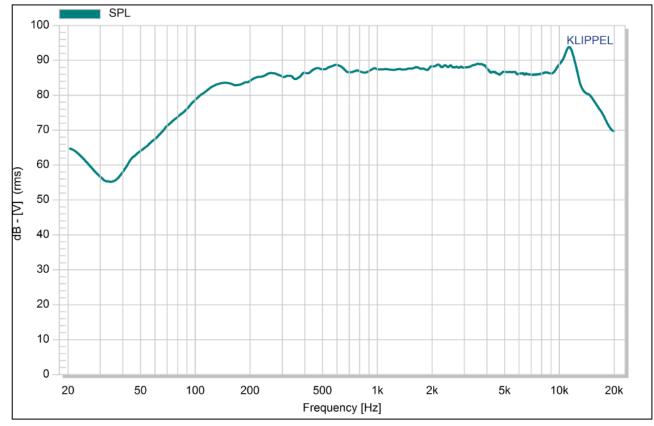
Speaker Specifications (continued)

Acceptable Soldering Methods	Hand Solder	-
Buzz, Rattle, etc.	Should not be audible with 6.32V sine wave from 90 Hz to 20 kHz	-
Environmental Compliances	RoHS 2015/863/EU, REACH 197	-
Polarity	Cone shall move forward when a positive voltage is applied to the positive terminal	-
Operating Temperature	-25 ~ +60	°C

Measurement Method (1W input power with microphone spaced at 50cm)

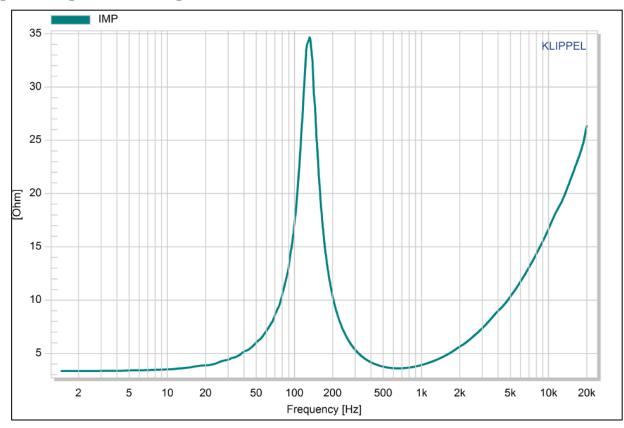


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Typical Frequency Response (Tested at 1W/50cm)

Typical Impedance Response



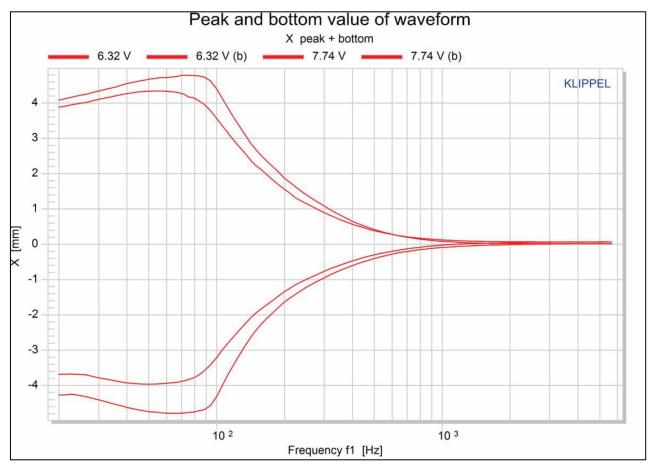
PUI Audio, Inc., 3541 Stop Eight Road, Dayton, OH 45414 Tel: (937) 415-5901 Fax: (937) 415-5925

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Specification	Value	Description
Re	3.32 Ohms	DC resistance
Le	0.202 mH	Inductance @ 10 kHz
Fs	132 Hz	Resonant Frequency
Mms	2.658 grams	Moving Mass
Bl	4.283 N/A	Magnet Force Factor
Qms	3.617	Mechanical Q-factor
Qes	0.417	Electrical Q-factor
Qts	0.374	Total Q-factor
Vas	0.188 liters	Equivalent Air Volume of Suspension
Xmax	4.75 mm	One-Way Voice Coil Travel @ 15W Input

Typical Thiele-Small Parameters (based on Golden Sample, up to 20% variance is normal)

Klippel Tested Excursion

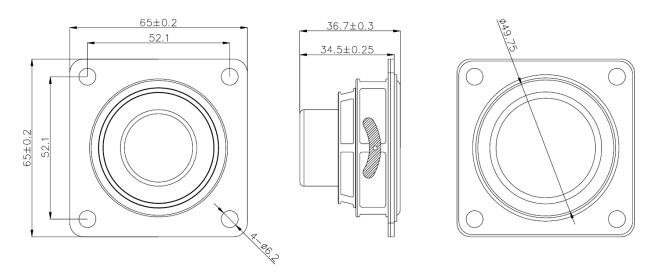


Reliability Testing

Type of Test	Test Specifications
High Temperature Test	96 hours at +60°C ± 2°C followed by three hours
	in normal room temperature
	96 hours at -20°C ± 3°C followed by three hours
Low Temperature Test	in normal room temperature
	96 hours at +40°C \pm 2°C with relative humidity
	between 90% and 95% followed by 6 hours in
Humidity Test	normal room temperature
Temperature Cycle Testing	+60°C 10 s. Start Total 4 Cycles Total 4 Cycles To Start Room Temperature +25°C 1 hour
	Frequency 30±15 Hz, Amplitude 1.5 mm for 3 Hours. After test, SPL shall not deviate by
Vibration Test	±3 dB from pre-test measurement
Drop Test	75 cm free falling on concrete floor, 10 times.
	Speaker should not fail after applying 20 Hz ~ 20 kHz pink noise with HPF rated power input
Load Test	(RMS), 96 hours.

After each test, SPL shall not deviate by more than ±3 dB from pre-test measurement.

Dimensions (Left, larger terminal is positive and is indicated by + on the terminal board)



Note: Recommended speaker baffle opening is 53.6mm. Always test-fit prior to closing mechanical design. Please maintain at least 7mm distance between top of frame and next surface.

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Specifications Revisions			
Revision	Description	Date	
-	Released from Engineering	6/14/2019	

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.

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 PT-4175W
 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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 MBS 3000-1811-A1AB08-0

 SMS2020-08H4.5 LF
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 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-66000-5
 9090231
 FS4014-4-2W
 PBM4-13.B31R.A115.0663
 PBM4-13.B33R.A115.0663
 PBM4-13.B35R.A115.0663
 A-10-6-BG410-HD1Z-FC-AGZ-ZW

 A-10-6-BG410-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
 A-10-6-BG310-HD1Z-AA-M4Z-ZW
 A-10-6-BG310-HD1Z-AA-M4Z-ZW
 A-10-6-BG310-HD1Z-AA-M4Z-ZW
 A-10-6-BG310-HD1Z-AA-M4Z-ZW
 A-10-6-BG310-HD1Z-AA-M4Z-ZW
 A-10-6-BG310-HD1Z-AA-AGZ-ZW