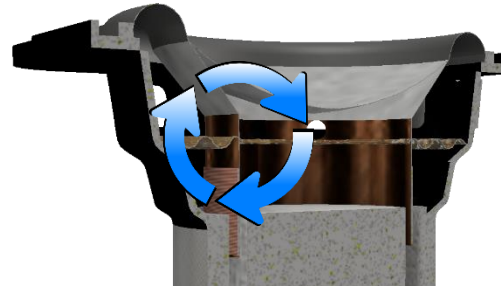




Data Sheet	AS04504PS-X-R
------------	---------------

PUI Audio’s eXtreme 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.



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

Features:

- Poly-coated 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
- Two-layer copper-clad aluminum wire for great transient response
- Water and dustproof to IP65
- Low Qts design for use in ultra-small enclosures without inhibiting performance

Specifications

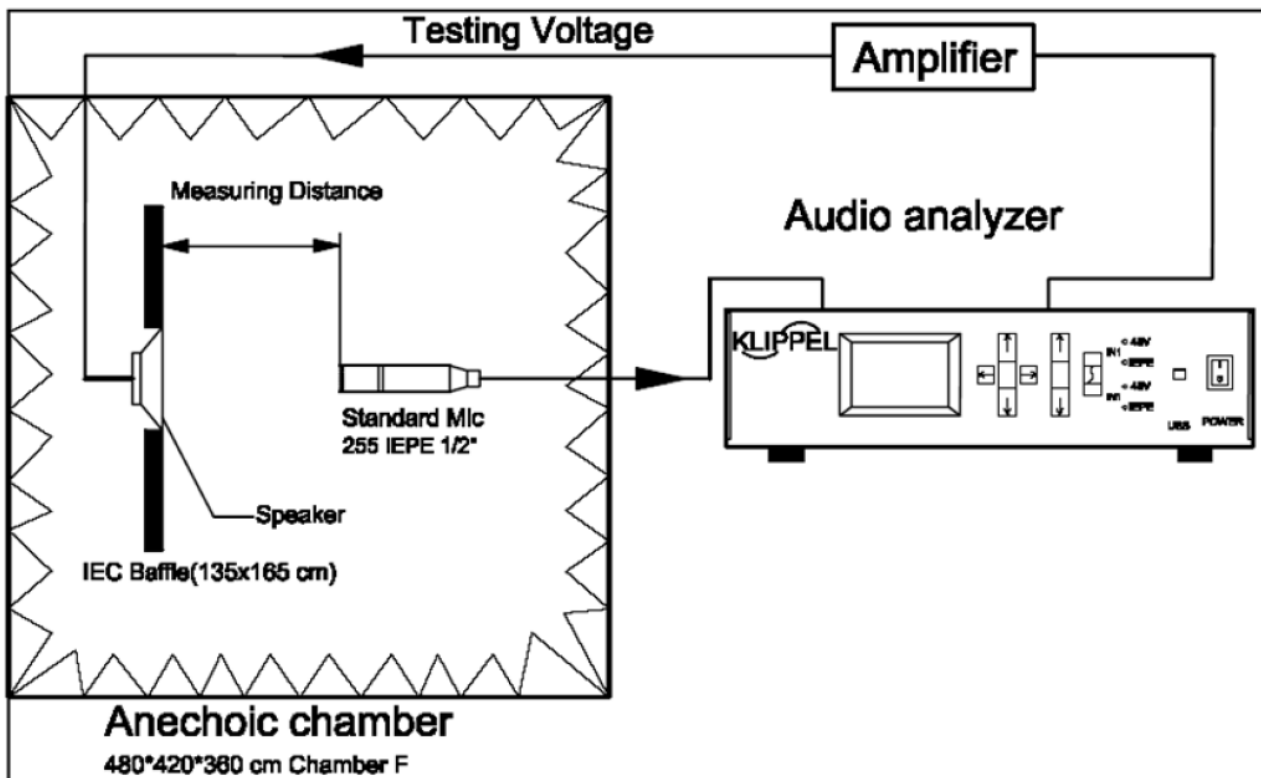
Parameters	Values	Units
Rated Input Power	10	Watts
Max Input Power	20	Watts
Impedance	4 ± 15%	Ohms
SPL @ 1W/0.5m (Average 0.8, 1.0, 1.2, 1.5 kHz)	86 ± 3	dB
Resonant Frequency	170 ± 20%	Hz
Frequency Range (-10 dB)	90 ~ 20,000+	Hz
Frame Material	Stamped Steel	-
Magnet Material	NdFeB	-
Weight	63	Grams
Ingress Protection Rating	IP65	-
Recommended Sealed Enclosure Volume Range (Qtc ≤ 0.707)*	0.05 ~ 0.40	Liters
Recommended Vented Enclosure Volume*	0.40	Liters
Vent Size and Tuning Frequency	20mm dia. x 244mm L, 100 Hz	-

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

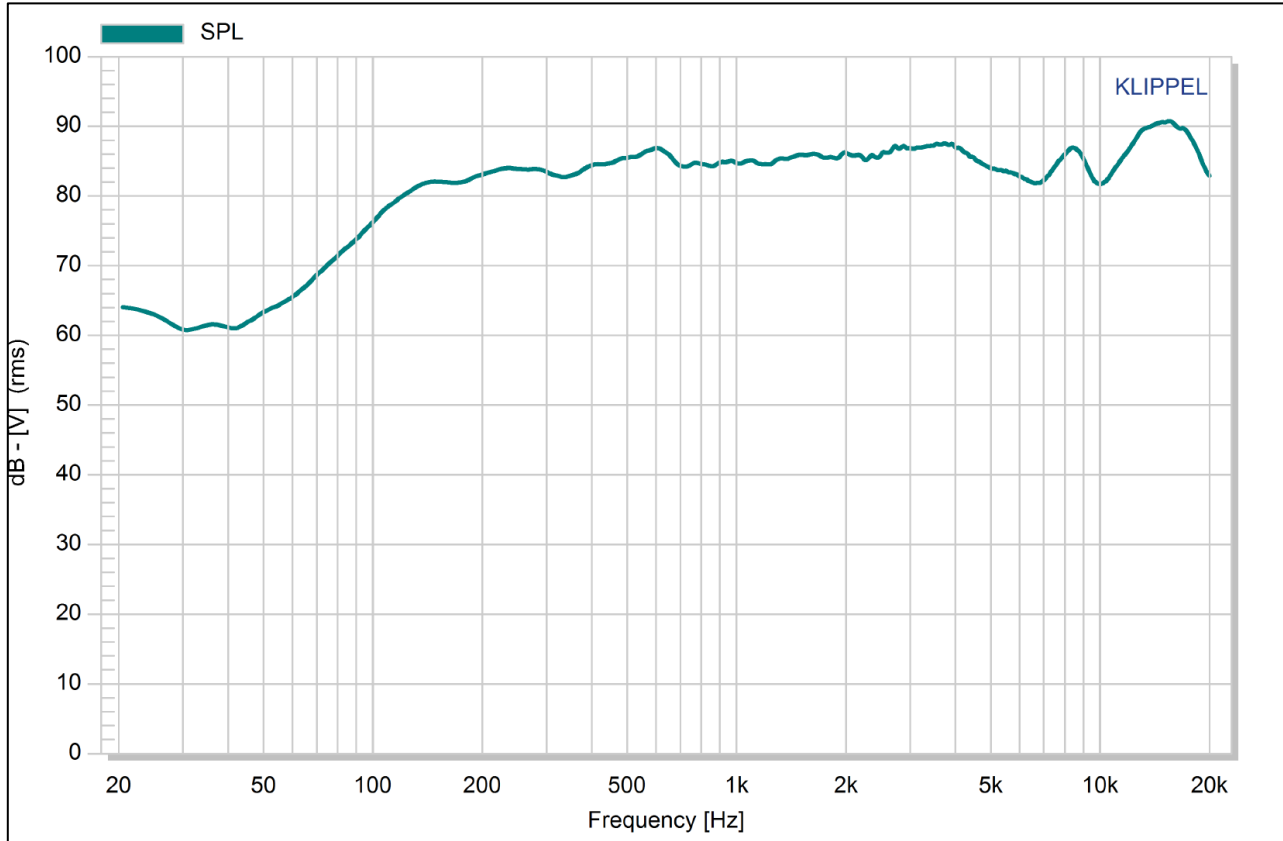
Speaker Specifications (continued)

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

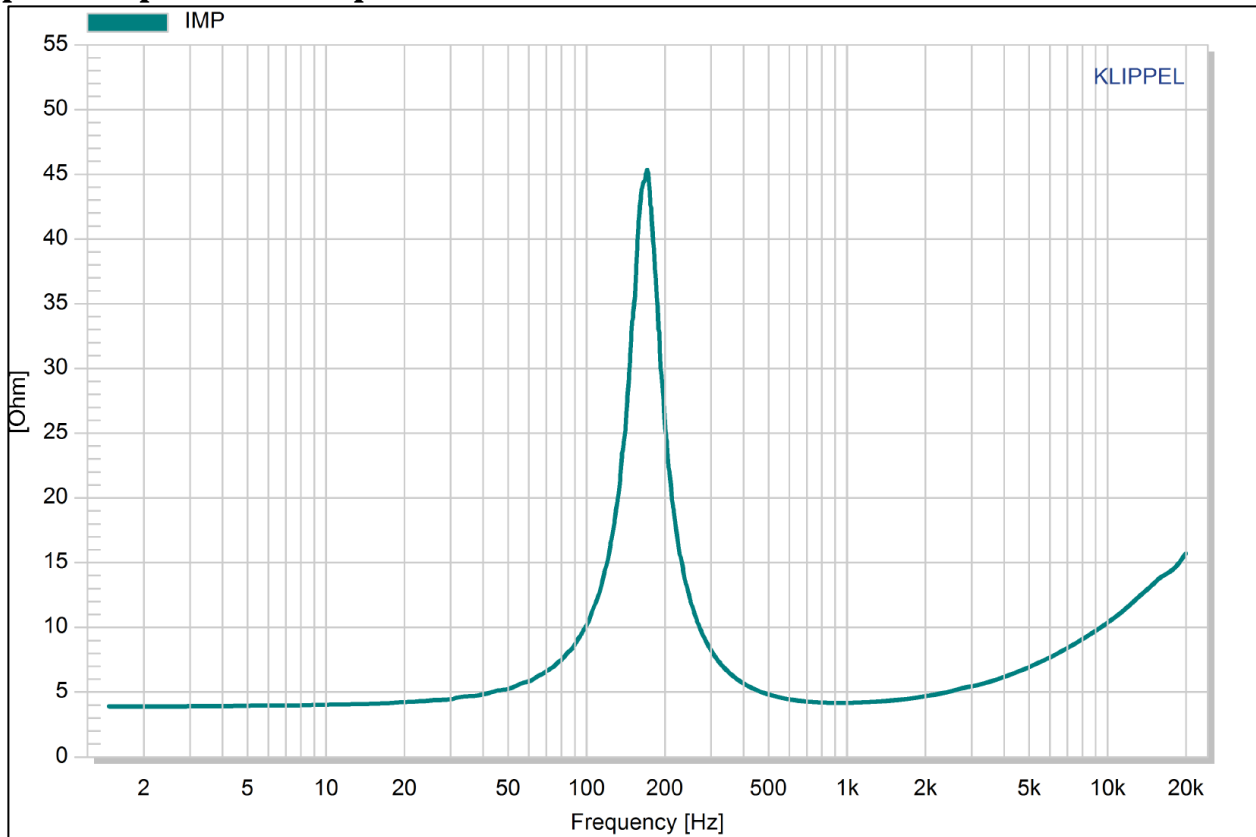
Measurement Method (1W input power with microphone spaced at 50cm)



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



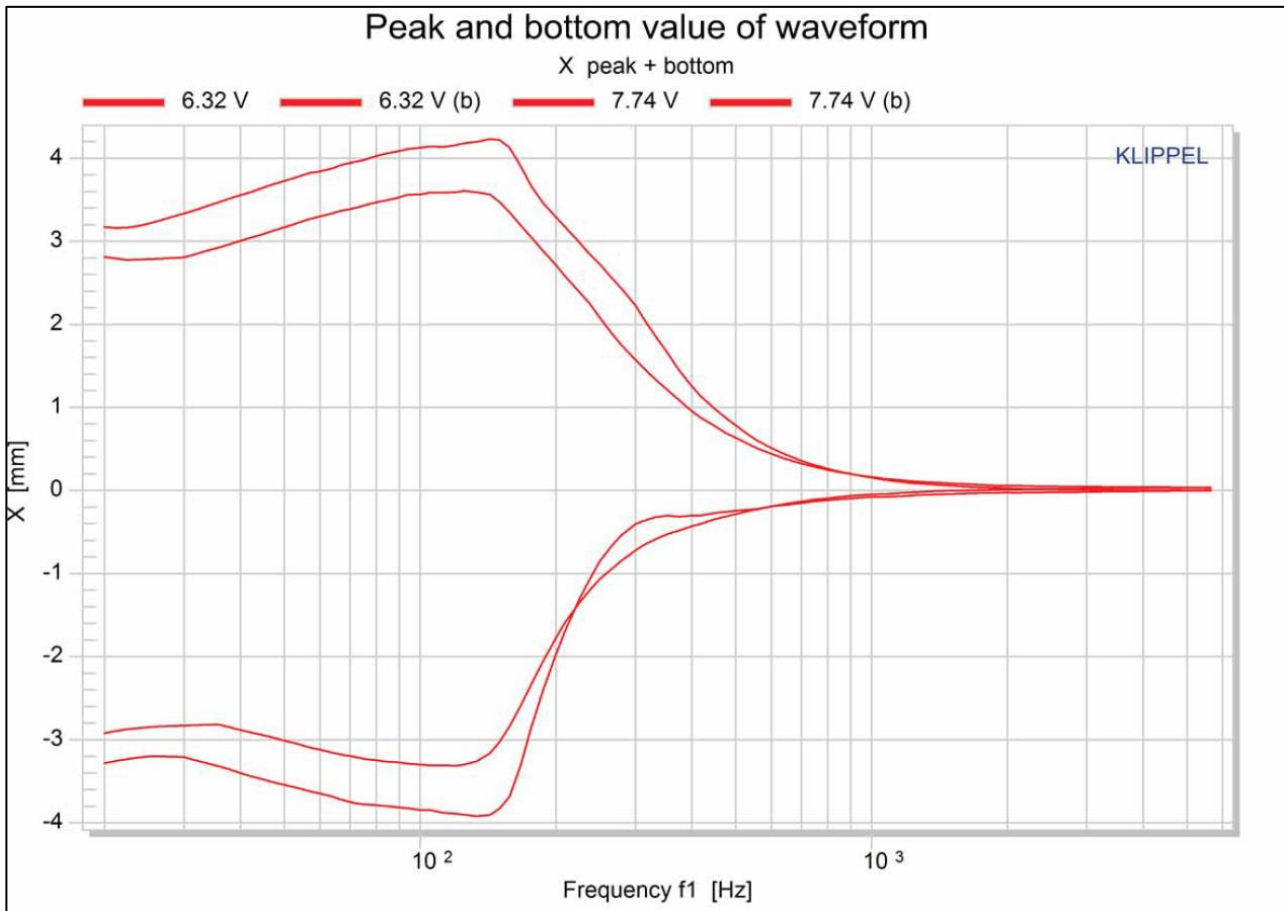
Typical Impedance Response



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

Specification	Value	Description
Re	3.7 Ohms	DC resistance
Le	0.093 mH	Inductance @ 10 kHz
Fs	166 Hz	Resonant Frequency
Mms	1.114 grams	Moving Mass
Bl	2.86 N/A	Magnet Force Factor
Qms	4.556	Mechanical Q-factor
Qes	0.528	Electrical Q-factor
Qts	0.473	Total Q-factor
Vas	0.0907 liters	Equivalent Air Volume of Suspension
Xmax	4 mm	One-Way Voice Coil Travel @ 15W Input

Klippel Tested Excursion



Specifications Revisions

Revision	Description	Date
-	Released from Engineering	6/14/19

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.

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](#) [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-BG410-HD1Z-AA-M4Z-ZW](#) [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-GA-M4Z-ZW](#) [A-10-6-BG316-HD1Z-AA-AGZ-ZW](#) [A-10-6-BG316-HD1Z-AA-M4Z-ZW](#) [A-10-6-BG325-HD1Z-AA-AGZ-ZW](#)