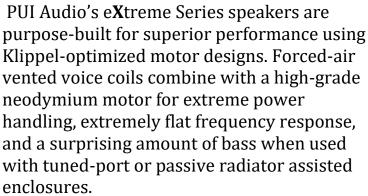
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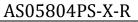
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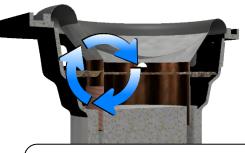


Data Sheet









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 ٠
- Low Qts design for use in ultra-small enclosures without inhibiting performance •

Specifications

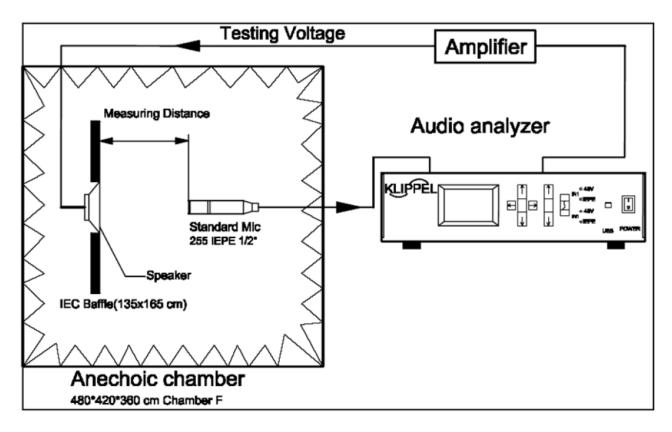
Parameters	Values	Units
Rated Input Power	10	Watts
Max Input Power	20	Watts
Impedance	4 ± 15%	Ohms
SPL @ 1W/0.5m		
(Average 0.8, 1.0, 1.2, 1.5 kHz)	85 ± 3	dB
Resonant Frequency	140 ± 20%	Hz
Frequency Range (-10 dB)	80 ~ 20,000+	Hz
Frame Material	Stamped Steel	-
Magnet Material	NdFeB	-
Weight	92	Grams
Ingress Protection Rating	IP65	-
Recommended Sealed Enclosure		
Volume Range (Qtc ≤ 0.707)*	0.09 ~ 0.50	Liters
Recommended Vented		
Enclosure Volume*	0.50	Liters
Vent Size and Tuning Frequency	20mm dia. x 300mm L, 80 Hz	-

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

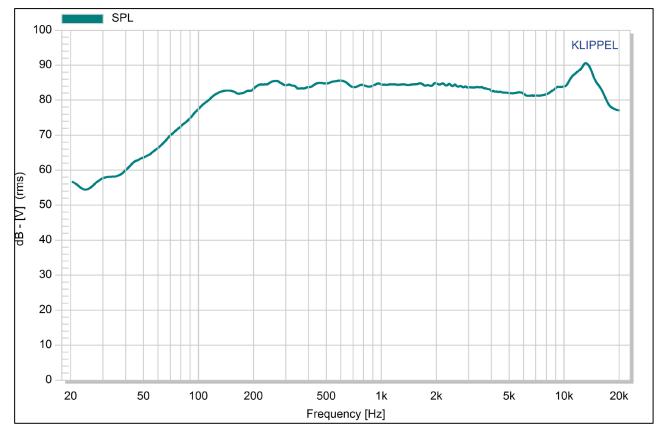
Speaker Specifications (continued)

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)

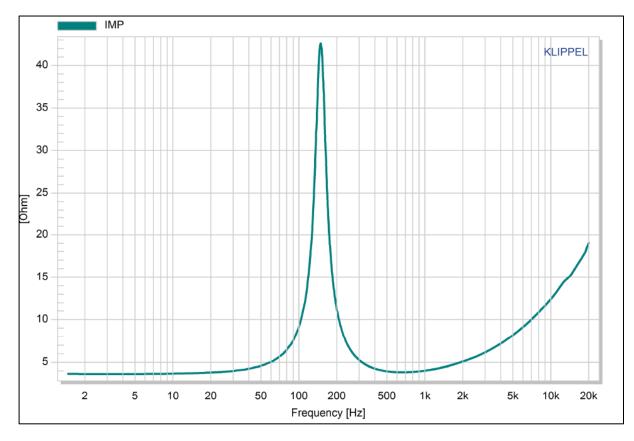


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Typical Frequency Response (Tested at 1W/50cm)

Typical Impedance Response



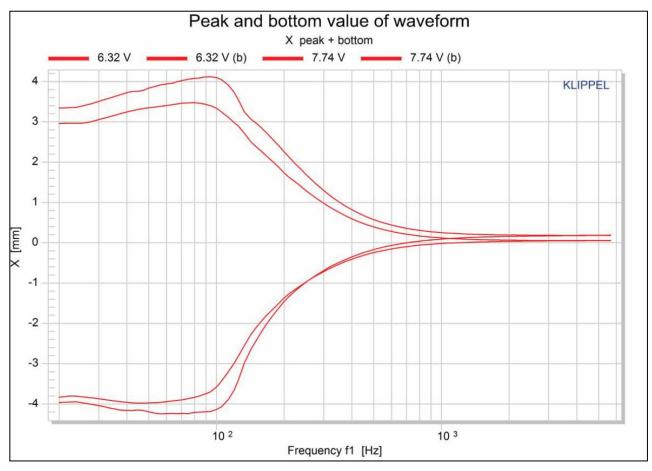
PUI Audio, Inc., 3541 Stop Eight Road, Dayton, OH 45414 Tel: (937) 415-5901 Fax: (937) 415-5925

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Specification	Value	Description
Re	3.62 Ohms	DC resistance
Le	0.142 mH	Inductance @ 10 kHz
Fs	145 Hz	Resonant Frequency
Mms	2.26 grams	Moving Mass
Bl	3.72 N/A	Magnet Force Factor
Qms	6.719	Mechanical Q-factor
Qes	0.582	Electrical Q-factor
Qts	0.536	Total Q-factor
Vas	0.108 liters	Equivalent Air Volume of Suspension
Xmax	4.5 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

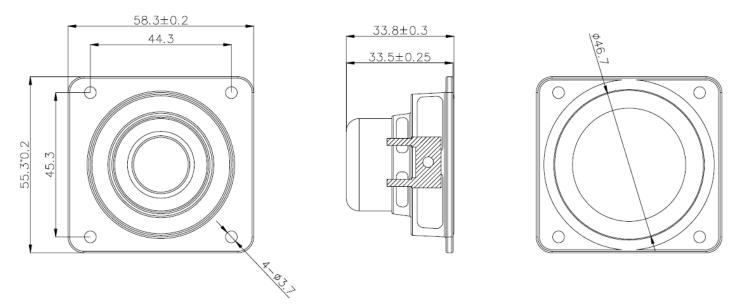


Reliability Testing

Type of Test	Test Specifications
High Temperature Test	96 hours at +60°C ± 2°C followed by three hours in normal room temperature
Low Temperature Test	96 hours at -20°C ± 3°C followed by three hours in normal room temperature
Humidity Test	96 hours at +40°C ± 2°C with relative humidity between 90% and 95% followed by 6 hours in normal room temperature
Temperature Cycle Testing	+60°C 10 s. Start Room Temperature +25°C 1 hour Total 4 Cycles TO Start 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 53.5mm. Always test-fit prior to closing mechanical design. Please maintain at least 6mm 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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 AS03608MR-LW100-R
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 9091661
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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
 A-10-6-BG310-HD1Z-AA-M4Z-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