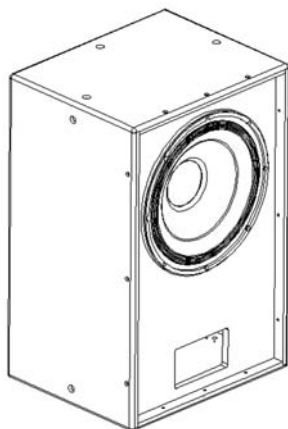


ALTEC LANSING®

PROFESSIONAL

LF115-8A



FEATURES - THE ALTEC LANSING DIFFERENCE

- High Fidelity 15" / 380 mm Low Frequency Speaker
- High Performance 250 W AES / 1,000 W Peak Power Handling
- Onboard Crossover Network with High Pass Output
- Durable 18 mm/13-Ply Poplar Cabinet Provides Easy System Expansion
- Internal Flying Points Allow Vertical Or Horizontal Suspension
- Forged Eyebolt Hardware Kit Included
- Cloth Covered Perforated Steel Grille
- Neutral Grille Cloth Included For Custom Color Matching
- Barrier Strip And Neutrik® Speakon® Input and High Pass Output Connectors
- Available In Charcoal Grey Or White Finishes

GENERAL PRODUCT DESCRIPTION

The LF115-8A is the perfect low frequency companion for the DS912-8A. Equipped with a 15 inch / 380 mm low frequency speaker housed in a durable 18 mm / 13-Ply Poplar cabinet, the LF115-8A offers affordable system expansion in an easy-to-install package. The LF115-8A will complement the low frequency performance in Auditorium and House of Worship systems.

Altec Lansing's high performance model 4156-8A woofer is a 15 inch / 380 mm speaker with a robust corrosion-resistant die-cast frame and a weather-resistant cone for maximum durability in all environments.

The unique on-board crossover network provides simplistic add-on operation without the need for an additional power amplifier channel or the costs associated with additional amplification and an active crossover. The charcoal grey or white painted cabinet blends into most backgrounds, or it can be easily painted to match any décor. Altec Lansing includes neutral grille cloth with each speaker, allowing you to dye the cloth to integrate the speaker into the surroundings. The cabinet also features internal hanging points to facilitate permanent installation in either a horizontal or vertical orientation.

FREQUENCY RESPONSE ^{1, 2}

48 Hz - 800 Hz (±3 dB)

USABLE LOW FREQUENCY LIMIT (-10 dB) ^{1, 2}

38 Hz

SENSITIVITY ³

100 dB SPL

POWER HANDLING ⁴

250 W continuous; 1,000 W peak

MAXIMUM OUTPUT (1 m) ⁵

124 dB SPL continuous, 130 dB SPL peak

TRANSDUCER COMPONENTS

1x 15 in. Woofer in a Vented Enclosure (4156-8A)

IMPEDANCE ⁷

Nominal: 8.0 Ohms

Minimum: 6.5 Ohms at 45 Hz

CROSSOVER FREQUENCY

Passive LF - HF: 200 Hz

HARMONIC DISTORTION ⁸

1% rated power		10% rated power	
2nd Harmonic	0.33%	2nd Harmonic	1.40%
3rd Harmonic	0.36%	3rd Harmonic	0.61%
THD	0.65%	THD	1.87%

INPUT CONNECTIONS

1x 2 position barrier strip and 2x NL4

High Pass Output: 1x 2 position barrier strip and 1x NL4

CONTROLS

Low Pass On/Off switch

High Pass On/Off switch

ENCLOSURE MATERIALS & FINISH

18 mm, 13 ply Poplar Plywood Finished with Charcoal Grey or White Catalyzed Polyurethane

SUSPENSION SYSTEM ⁹

Working Load Limit (maximum weight applied to uppermost mounting point): 250 lbs. (113.6 kg)
(12) 3/8 in.-16 Threaded Mounting Suspension Points
(3 each top & bottom and 2 each sides & back)

DIMENSIONS

30.50 in. (H) x 20.00 in. (W) x 16.25 in. (D)

775 mm (H) x 508 mm (W) x 413 mm (D)

WEIGHT

Net: 75 lbs. (34.1 kg)

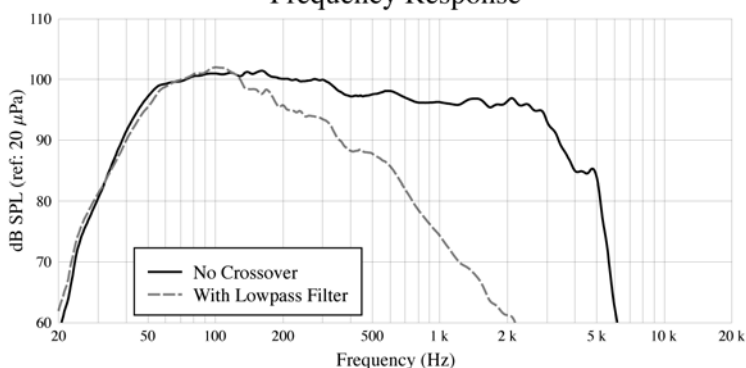
Shipping: 90 lbs. (40.9 kg)

ARCHITECTS & ENGINEERS SPECIFICATION

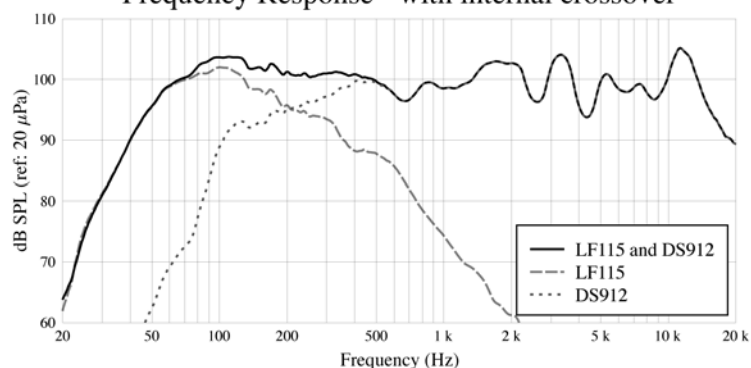
The loudspeaker system shall be a low frequency multi-purpose type consisting of a 15 inch / 380 mm cast frame loudspeaker component with a weather resistant cone. The internal passive crossover network shall be a switchable dual-section, 12 dB/octave slope low pass and 12 dB/octave slope high pass with an electro-acoustic crossover frequency of 200 Hz. The loudspeaker system shall have an operating bandwidth of 48 Hz - 800 Hz with a sensitivity of 100 dB when measured at a distance of one meter. The power handling capability shall be 250 W AES (1,000 W peak). Nominal impedance shall be 8 ohms with

a minimum impedance of 6.5 ohms at 45 Hz. The unit shall be a Vented Enclosure, constructed of 18 mm Poplar plywood painted charcoal grey or white with a cloth covered metal grille. The cabinet shall include integral suspension points. Forged shoulder machinery eye bolts shall be included to facilitate the suspension of the speaker system. The dimensions shall be 30.50 inches high by 20.00 inches wide by 16.25 inches deep. The loudspeaker system shall weigh 75 pounds (34.1 kg). The loudspeaker system shall be the Altec Lansing Professional model LF115-8A.

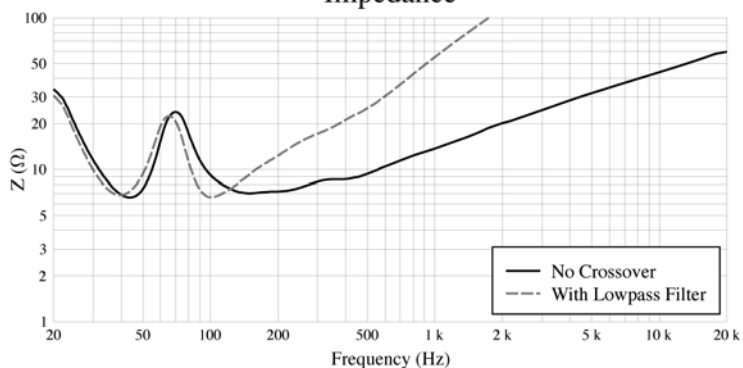
Frequency Response



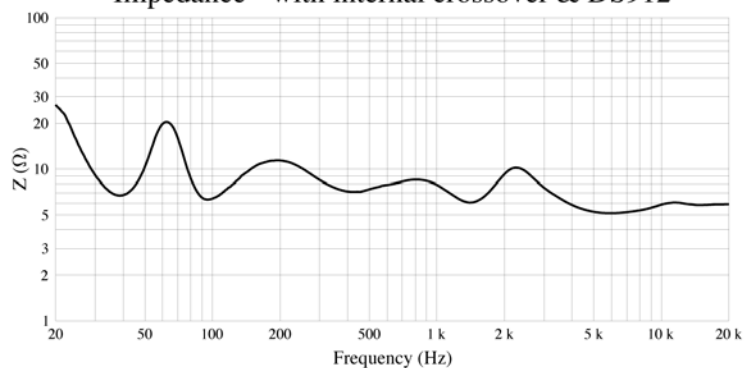
Frequency Response - with internal crossover



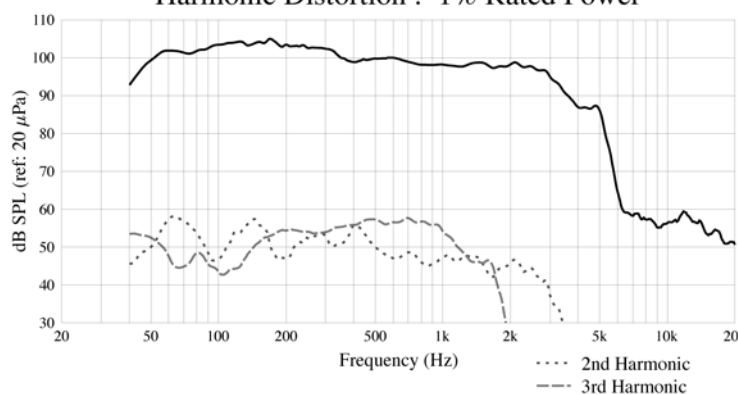
Impedance



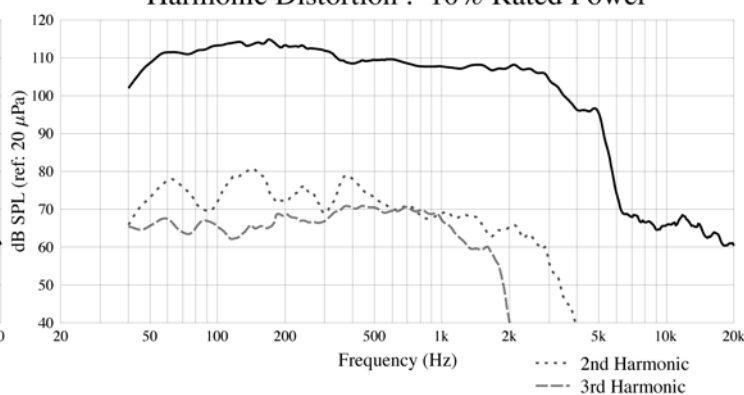
Impedance - with internal crossover & DS912



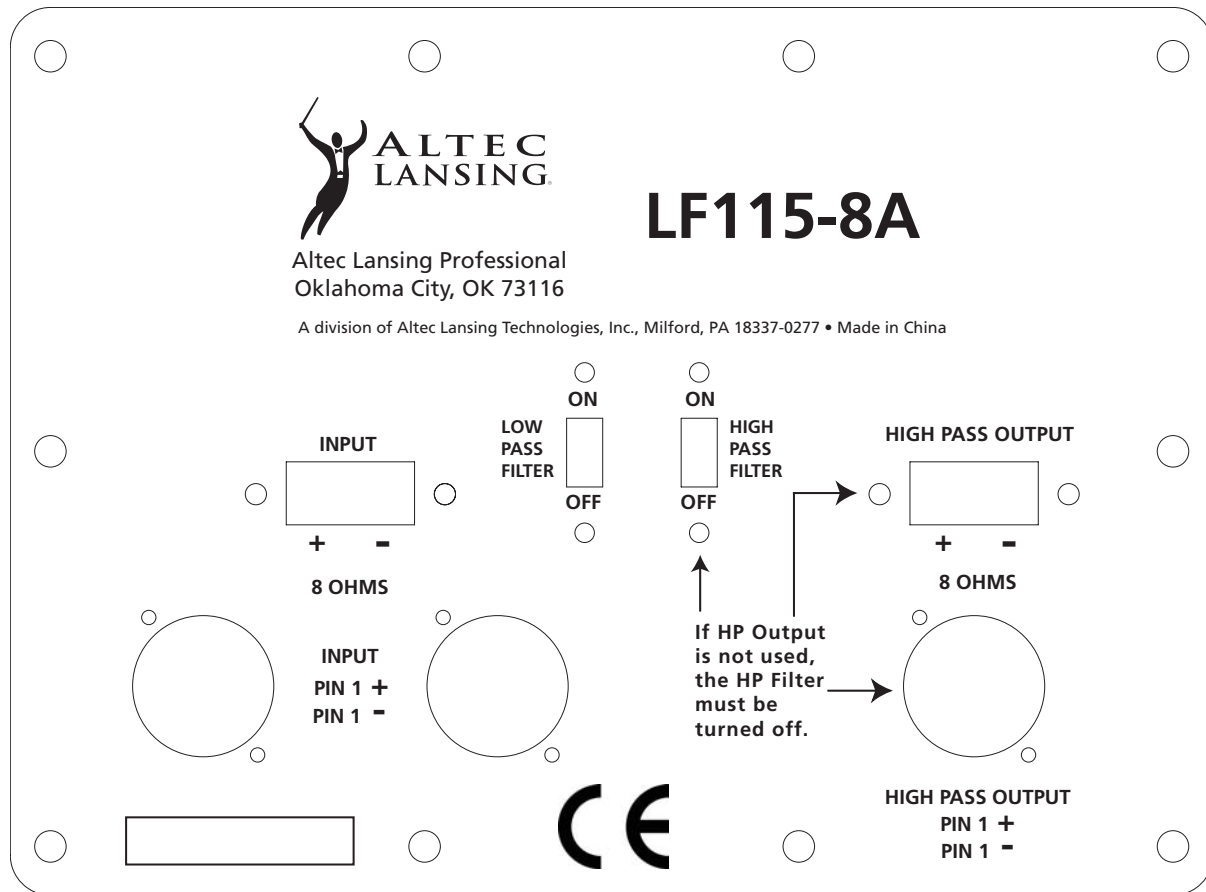
Harmonic Distortion : 1% Rated Power



Harmonic Distortion : 10% Rated Power

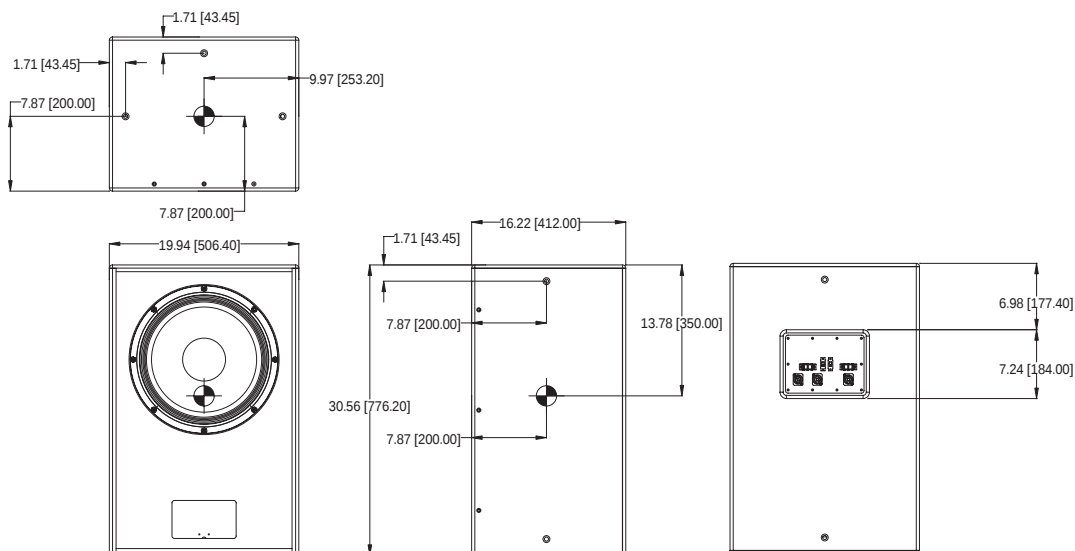


INPUT PLATE



As we are continually striving to improve Altec Lansing products, specifications are subject to change without notice.
Please visit www.altecpro.com for the latest information on Altec Lansing Professional Products.

MOUNTING DIMENSIONS



DENOTES CENTER OF MASS

DIMENSIONS ARE IN INCHES.
DIMENSIONS SHOWN IN () PARENTHESES ARE IN MILLIMETERS.

SPECIFICATION NOTES

- 1 The frequency response of the loudspeaker system is measured at a distance of no less than 3 meters to obtain full range data. The level is then corrected to be equivalent to a 2.83 V 1 m measurement. A near field measurement of the loudspeaker system is performed for frequencies below 500 Hz. This data is then combined with the full range measurement to give an accurate composite frequency response curve.
- 2 The limits of the frequency response are referenced to -3 dB of the systems rated sensitivity.
- 3 The sensitivity of the loudspeaker system is the log based average SPL taken over the intended bandwidth of operation for the system with a 2.83 V swept sine stimulus. The data is measured and level corrected in a manner consistent with note 1.
- 4 The power handling capacity of the loudspeaker system is tested using AES Standard 2-1984. The test stimulus is band limited (30 Hz – 300 Hz) pink noise with a 6 dB crest factor. The applied RMS voltage is determined using the minimum impedance of the system. The amplifier used to drive the system has a minimum operating headroom of 6 dB referenced to the RMS voltage.
- 5 The maximum output level of the loudspeaker system is calculated based on the sensitivity and the power handling capabilities of the system.
- 7 The minimum impedance of the loudspeaker system is taken over its intended band of operation.
- 8 The distortion measurements of the loudspeaker system are performed at a distance of 1 m with RMS input voltages corresponding to 1% and 10% of rated system power handling calculated using minimum system impedance. The distortion percentages are log based averages from 40 Hz – 300 Hz.
- 9 Before attempting to suspend the loudspeaker system, consult a certified structural engineer. This loudspeaker system can fall from improper suspension, resulting in serious injury and property damage. Maximum enclosure rigging angle is 45°. Use only the correct mating hardware, forged shoulder machinery eye bolt, Mil Spec MIL 51937-3. All associated rigging is the responsibility of others.

VISIT WWW.ALTECPRO.COM FOR

- Authorized EASE® data on all Altec Lansing Professional speakers.
- Specification sheets in .pdf format. Download page 1 of the specification sheet for your submittals.
- One paragraph A & E Specifications in .doc format

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