

**DESCRIPTION**

The Altec Lansing 515-8LF is a 15-inch low-frequency loudspeaker designed specifically for quality sound reinforcement and reproduction systems where high power-handling capacity must be combined with high efficiency and linearity. This combination of performance attributes makes the 515-8LF ideal for use in either high-power sound systems or the most critical studio monitor systems.

The 515-8LF is built on a rigid die-cast aluminum frame which is designed for either front or rear mounting. A heavy Alnico V permanent magnet backs up a high-powered voice coil made from edge-wound copper ribbon. This

provides the highest possible density of wire in the voice coil gap. In addition, the uniform axial retention of the voice coil in the magnetic gap and the extremely high-compliance cone suspension ensures clear, accurate reproduction of even the lowest frequencies.

The 515-8LF has a continuous power rating of 125 watts and a uniform frequency response from 20 Hz to 1500 Hz. Its high efficiency, high linearity, low distortion and high power-handling capacity make the 515-8LF a perfect choice for the most demanding professional applications.

SPECIFICATIONS

Type:	15" low-frequency speaker
Power Rating:	125 watts of band-limited pink noise (60-1000 Hz)
Frequency Response:	20-1500 Hz
Pressure Sensitivity:	Measured in the far (free) field with 1 watt input of band-limited pink noise from 100-1000 Hz and calculated to 4' equivalent (Ref.: 0.0002 dyne/cm ²):
	1W, 4' Rating
	Enclosure in dB SPL
	210 ¹ 107.0
	210A/211 ¹ 106.0
	410 ² 108.0
	612C 99.0
	815A ¹ 105.0
	816A 101.5
	825B/828A 102.0
	1 = 2 Model 515-8LF's
	2 = 4 Model 515-8LF's

Nominal

Impedance: 8Ω

Nominal Free-Air

Cone Resonance: 25 Hz

Magnet:	4.4 lb. Alnico V
Flux Density:	14,750 gauss
Construction —	
Frame (Basket):	Die-cast Aluminum
Cone:	Molded fiber
Cone Suspension:	High-compliance cloth surrounded with edge damping
Voice Coil:	3" diameter of edge-wound copper ribbon
Dimensions:	16" (40.64cm) diameter x 8" (20.32cm) deep
Weight:	26 lbs. (11.8 kg)
Mounting Data —	
Mounting Hole Diameter:	14 1/8" (35.87cm) may be either front or rear mounted)
Mounting Bolt Centers:	8 mounting bolts 45° apart on 15" (38.1cm) diameter

ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The low-frequency loudspeaker shall be 16" in diameter (frame size) by 8" deep, shall weigh 26 pounds, and shall have a structurally reinforced die-cast aluminum frame. The voice coil shall be 3" in diameter, of edge-wound copper ribbon, and shall operate in a magnetic gap having a flux density of 14,750 gauss. The loudspeaker shall have an Alnico V permanent magnet weighing not less than 4.4 pounds. The cone surround shall be of high-compliance cloth. The loudspeaker shall meet the following performance criteria. Power rating, up to 125

watts of band-limited pink noise (60-1000 Hz). Frequency response, uniform from 20 to 1500 Hz when mounted in a suitable enclosure. Pressure sensitivity, — db SPL when measured at 4' on axis from front edge of Altec Model _____ enclosure. LF with 1 watt input of band-limited pink noise from 100-1000 Hz (Ref.: 0.0002 dyne/cm²). Nominal impedance, 8 ohms. Nominal free-air cone resonance, 25 Hz.

The low-frequency loudspeaker shall be the ALTEC Model 515-8LF.



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