



DESCRIPTION

The Altec Lansing 515-8LFE is a 16-inch low-frequency loudspeaker designed 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 515-8LFE ideal for use in either high power sound systems or the most critical studio monitor systems.

The 515-8LFE is built on a rigid die-cast aluminum frame designed for either front or rear mounting. A heavy duty ferrite permanent magnet backs up a high power voice coil of edge-wound copper ribbon. This provides the highest possible density of wire in the voice coil gap. 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 515-8LFE has a continuous power rating of 125 watts and a uniform frequency response from 20 Hz to 1000 Hz. Its high efficiency, high

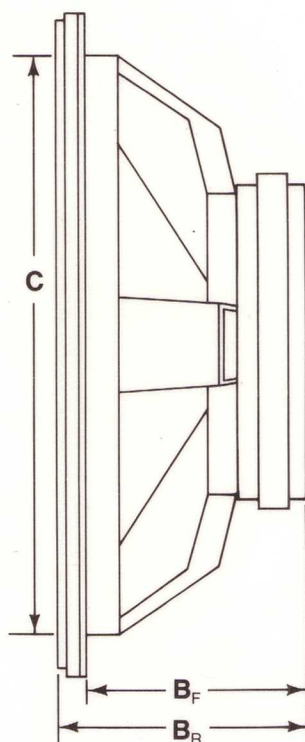
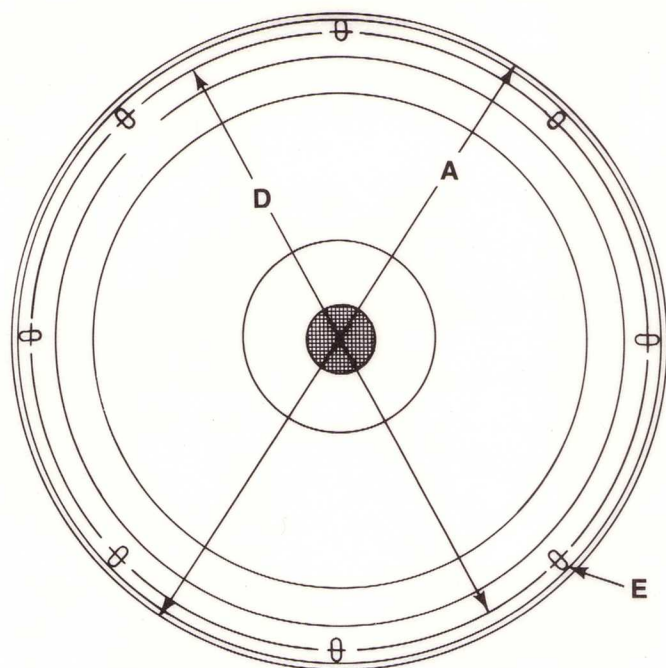
linearity, low distortion and high power-handling capacity make the 515-8LFE a perfect choice for the most demanding professional applications.

SPECIFICATIONS

Type:	16-inch low-frequency loudspeaker
Power Rating:	125 watts of band-limited pink noise (20-1000 Hz)
Frequency Response:	20-1000 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)

<u>Enclosure</u>	<u>dB SPL at 4'</u>
210 (2)	107.0
211 (2)	106.0
410 (4)	108.0
612C	99.0
815A (2)	105.0
816A	101.5
828G	102.0
(2) = 2 Model 515-8LFE's	
(4) = 4 Model 515-8LFE's	

Voice Coil Impedance:	8 ohms
Nominal Free-Air Cone Resonance:	25 Hz
Voice Coil:	3" diameter, edge-wound copper ribbon
Magnet:	5.6 lbs. ferrite, 13,000 gauss
Frame:	Die-cast aluminum
Cone:	Molded fiber
Cone Suspension:	High-compliance cloth surround with mechanical resistance
Dimensions:	16" (40.64 cm) diameter x 6 ³ / ₈ " (16.20 cm) deep
Weight:	22 lbs. (10 kg)
Mounting Data—	
Baffle Opening:	14 ¹ / ₈ " (35.87 cm) diameter
Mounting Bolt Centers:	8 mounting bolts 45° apart on 15" (38.1 cm) diameter circle



LOUDSPEAKER MOUNTING DIMENSIONS

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|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| (A) Loudspeaker Diameter: 16" (40.64 cm) | (C) Baffle Opening Diameter: 14 $\frac{1}{8}$ " (35.87 cm) |
| (B _F) Depth When Front Mounted: 5 $\frac{1}{4}$ " (14.13 cm) | (D) Bolt Circle Diameter: 15" (38.1 cm) |
| (B _R) Depth When Rear Mounted: 6 $\frac{3}{8}$ " (16.20 cm) | (E) Bolt Hole Slots: $\frac{1}{4}$ " (0.64 cm) x $\frac{3}{4}$ " (2.02 cm);
8 slots spaced 45° apart. |

ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The low-frequency loudspeaker shall meet the following criteria. Power rating: up to 125 watts of band-limited pink noise (20-1000 Hz). Frequency response: uniform from 20-1000 Hz when mounted in a suitable enclosure. Pressure sensitivity: _____ dB SPL when measured at 4' on axis from front edge of Altec Model _____ enclosure (containing _____ 515E speakers) with 1 watt of band-limited pink noise from 100-1000 Hz (Ref.: 0.0002 dyne/cm²).

Voice coil impedance: 8 ohms. Nominal free-air LF cone resonance: 25 Hz. The voice coil shall be 3" in diameter of edge-wound copper ribbon, driven by a 5.6-pound ferrite magnet having a flux density of 13,000 gauss. Dimensions: 16" diameter x 6 $\frac{3}{8}$ " deep. Weight: 22 pounds.

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



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