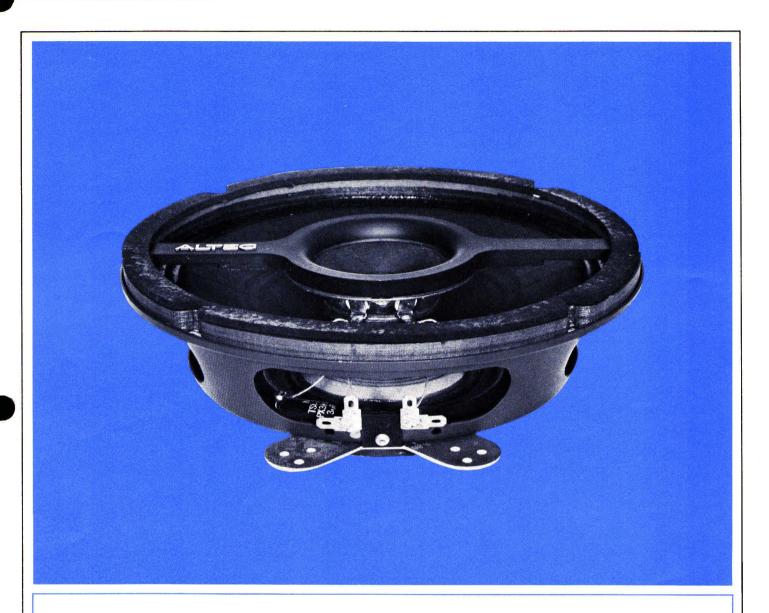


409-8D LOUDSPEAKER



DESCRIPTION

The ALTEC 409-8D Loudspeaker is a full-range, low-distortion, coaxial transducer. Its wide dispersion angle and compact shape make it ideal for use in indoor public address speaker systems, distributed sound systems, paging facilities, background music networks, and monitoring installations.

The wide distribution angle of this speaker enables larger areas to be covered with fewer

units, affording a considerable saving in cost while sustaining uniformity in response and intelligibility of speech.

The 409-8D may be flush-mounted in any type of wall, ceiling or baffle. If the 409-8D is to be used in a distributed sound system, an ALTEC 25- or 70-volt transformer may be installed on the mounting bracket attached to the speaker frame.

SPECIFICATIONS

Type:

Full-range coaxial

loudspeaker

Power Rating:

32 watts program material

16 watts, based on

continuous operation with band-limited pink noise

from 60-12,000 Hz

Frequency Response:

50-14.000 Hz

Pressure Sensitivity:

96 dB SPL measured at 4' on axis with 1 watt input of band-limited pink noise from 500-3000 Hz (Ref.: 0 dB =0.0002 dyne/cm²). Equal to EIA rating of 49 dB SPL at 30' with 1 milliwatt input.

Impedance:

8 ohms

Nominal Free-Air

Cone Resonance LF Section:

84 Hz

Crossover Frequency: 2500 Hz Dispersion Angle:

120°

-6 dB Angle*-

2000 Hz:

80°

4000 Hz:

69°

Voice Coil Diameter:

LF section -- 1" HF section — %"

Magnet Assembly-

Magnet Weight:

LF section — 10 ounces HF section — 1.65 ounce

Flux Density: LF section — 8500 gauss

HF section — 9500 gauss

Connections:

2 solder lugs

Dimensions:

81/8" (20.64 cm) diameter

31/4" (8.26 cm) deep

Weight:

3 pounds (1.36 kg)

Mounting Data-

Mounting Hole

Diameter:

Mounting Bolt

Centers:

71/8" (18.10 cm)

4 holes equally spaced on 711/6" (19.52 cm) diameter

circle

ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The loudspeaker shall be the full-range coaxial type with an 8" low-frequency (LF) cone radiator, a 3" high-frequency (HF) cone radiator, and a dividing network. The loudspeaker shall meet the following performance criteria. Power rating, 16 watts based on continuous operation with band-limited pink noise from 60-12,000 Hz. Frequency response, 50-14,000 Hz. Pressure sensitivity, 96 dB SPL when measured at 4' on axis with 1 watt input of band-limited pink noise from 500-3000 Hz (Ref.: 0 dB =0.0002 dyne/cm²). Impedance, 8 ohms. Nominal free-air cone resonance of LF cone, 84 Hz. Crossover frequency, 2500 Hz. Dispersion angle, 120°. Voice coil diameters; 1" LF section, %" HF section. Magnet weight; 10 ounces LF section, 1.65 ounce HF section. Flux density; 8500 gauss LF section, 9500 gauss HF section. The loudspeaker shall be 81/8" in diameter by 31/4" deep and shall weigh 3

The loudspeaker shall be the ALTEC Model 409-8D Loudspeaker.







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^{*}Angle of 6 dB loss on a plane perpendicular to the loudspeaker (see Technical Letter No. 257A, Sound Distribution on A Plane Normal to A Loudspeaker Axis.)