

ALTEC

SOUND PRODUCTS DIVISION

405-8G LOUDSPEAKER



DESCRIPTION

The ALTEC 405-8G Loudspeaker is a compact 4" speaker that provides the utmost in performance that can be obtained from a speaker of this size. Clear, intelligible speech and good music reproduction is ensured because of the extended 60-15,000 Hz range.

The 405-8G is designed for continuous, trouble-

free service. The frame and housing of the magnetic structure are made of heavy-gauge steel. The backplate is tapped to mount an ALTEC accessory line-matching transformer. The small size of the speaker allows either front or rear mounting in walls, partitions or ceilings and into volumes as low as 0.1 cubic feet.

SPECIFICATIONS

Power Rating:	10 watts continuous pink noise (above 50 Hz)	Weight:	2 pounds, 1 ounce (0.94 kg)
Frequency Response:	60-15,000 Hz	Color:	ALTEC green
Pressure Sensitivity:	91 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/cm ²).	Mounting Data— Baffle Opening:	3 ¹³ / ₁₆ " (9.68 cm) diameter (rear mounted) 4 ⁵ / ₃₂ " (10.56 cm) diameter (front mounted)
Impedance:	8 ohms	Mounting Bolt Centers:	4 equally spaced 0.200" diameter holes at 90° on 4 ¹ / ₁₆ " (11.90 cm) diameter circle
Nominal Free-Air Cone Resonance:	120 Hz	Accessory Transformer Mounting Holes:	2" (5.08 cm) between centers
Distribution Pattern:	90°	Accessory (must be ordered separately):	ALTEC 70-volt line-matching transformer
Voice Coil Diameter:	1"		
Magnet Structure— Magnet Type:	Ceramic (V)		
Magnet Weight:	1 ³ / ₄ pounds		
Flux Density:	10,250 gauss		
Terminals:	Solder-lug type		
Dimensions:	4.39" (11.15 cm) H 4.39" (11.15 cm) W 2.125" (5.40 cm) D		

ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The loudspeaker shall meet the following performance and structural criteria. Power rating, 10 watts. Frequency response, uniform from 60-15,000 Hz. Pressure sensitivity, 91 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, 120 Hz. The voice coil shall have a diameter of 1" and shall operate in a magnetic field of 10,250 gauss derived from a Ceramic (V) magnet weighing at least 1³/₄ pounds. The speaker terminals shall be of the solder-lug type. Dimensions, 4.39" square x 2.125" deep. Weight, 2 pounds, 1 ounce. The loudspeaker shall be able to perform efficiently in a volume as low as 0.1 ft³. The loudspeaker frame shall be of solid, welded steel construction.

The loudspeaker shall be the ALTEC Model 405-8G.