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)

**Frequency Response:** 60-15,000 Hz

**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/cm²).

**Impedance:** 8 ohms

**Nominal Free-Air Cone Resonance:** 120 Hz

**Distribution Pattern:** 90°

**Voice Coil Diameter:** 1”

**Magnet Structure—**
- **Magnet Type:** Ceramic (V)
- **Magnet Weight:** 1 ¼ 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

**Weight:** 2 pounds, 1 ounce (0.94 kg)

**Color:** ALTEC green

**Mounting Data—**
- **Baffle Opening:** 3⅞” (9.68 cm) diameter (rear mounted)
- **Mounting Bolt Centers:** 4½” (10.56 cm) diameter (front mounted)
- **Mounting Holes:** 2” (5.08 cm) between centers

**Accessory (must be ordered separately):**
- **Transformer:** ALTEC 70-volt line-matching transformer

### 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 1 ¼ 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-BG.