



**DESCRIPTION**

The ALTEC 405T Loudspeaker is a compact 4" speaker that provides the utmost in performance obtainable from a speaker of this size. Clear, intelligible speech and good music reproduction are ensured because of the extended 60-15,000 Hz range. An ALTEC 15132 70-volt transformer is incorporated for use in distributed sound systems.

The 405T is designed for continuous, trouble-free service. The frame and housing of the magnetic structure are made of heavy-gauge steel. 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

<b>Power Rating:</b>	10 watts continuous pink noise (above 50 Hz)	<b>Magnet Structure —</b>	
<b>Frequency Response:</b>	60-15,000 Hz	<b>Magnet Type:</b>	Ceramic (V)
<b>Pressure Sensitivity:</b>	91 dB SPL measured at 4' on axis with 1 watt input of pink noise, band-limited from 500-3000 Hz (Ref.: 0 dB = 0.0002 dyne/cm <sup>2</sup> )	<b>Magnet Weight:</b>	1¾ pounds
		<b>Flux Density:</b>	10,250 gauss
<b>Transformer Data —</b>		<b>Mounting Data —</b>	
<b>Load Impedance</b>		<b>Baffle Opening:</b>	3 <sup>13</sup> / <sub>16</sub> " (9.7 cm) diameter (rear mounted) 4 <sup>5</sup> / <sub>32</sub> " (10.6 cm) diameter (front mounted)
<b>Secondary:</b>	8 ohms	<b>Mounting Bolt Centers:</b>	4 equally spaced 0.200" diameter holes at 90° on 4 <sup>11</sup> / <sub>16</sub> " (11.9 cm) diameter circle
<b>Audio Watts</b>			
<b>Primary:</b>	4, 2, 1 and 0.5 watts	<b>Dimensions:</b>	4 <sup>7</sup> / <sub>16</sub> " (11.3 cm) H 4 <sup>7</sup> / <sub>16</sub> " (11.3 cm) W 4 <sup>1</sup> / <sub>16</sub> " (10.3 cm) D
<b>Maximum</b>		<b>Weight:</b>	2 pounds, 9 ounces (1.2 kg)
<b>Insertion Loss:</b>	1.0 dB	<b>Color:</b>	ALTEC green
<b>Frequency Response:</b>	±1 dB, 100-10,000 Hz		
<b>Terminals:</b>	¼" spade lug type		
<b>Nominal Free-Air Cone Resonance:</b>	120 Hz		
<b>Distribution Pattern:</b>	90°		
<b>Voice Coil Diameter:</b>	1"		

## ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The loudspeaker shall meet the following 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 pink noise, band-limited from 500-3000 Hz (Ref.: 0 dB = 0.0002 dyne/cm<sup>2</sup>). Load impedance secondary, 8 ohms. A 70-volt line transformer shall be incorporated for use in distributed systems, and shall have a frequency response of ±1 dB from 100-10,000 Hz, with maximum insertion loss of 1.0 dB and primary wattage taps of 4, 2, 1 or 0.5 watts. 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 1¾ pounds. The speaker terminals shall be a ¼" spade lug type. The loudspeaker shall be able to perform efficiently in a volume as low as 0.1 ft<sup>3</sup>. The loudspeaker frame shall be of solid, welded steel construction. Dimensions, 4<sup>7</sup>/<sub>16</sub>" square by 4<sup>1</sup>/<sub>16</sub>" deep. Weight; 2 pounds, 9 ounces.

The loudspeaker shall be the ALTEC Model 405T.



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