**DESCRIPTION**

ALTEC LANSING 8-inch Ceiling Loudspeaker Systems provide interchangeable combinations of loudspeakers, baffles and enclosures to achieve the desired specifications within the acoustic space. Any selected combination assures unobtrusive integration into any new or existing office or factory ceiling.

Ceiling Loudspeakers

Altec ceiling loudspeakers are highly efficient, full-range, low distortion transducers, ideally suited for general purpose background music and paging systems. Wide dispersion angles of the ceiling loudspeakers enable coverage of larger areas with fewer units, affording considerable savings in cost while sustaining uniformity in response and intelligibility of speech. Each loudspeaker is equipped with a line transformer having selectable taps for desired power.

Flush Ceiling Baffles

Flush ceiling baffles are contemporary in design to harmonize well in commercial interiors. Optional plaster rings and frames are available.

Ceiling Loudspeaker Enclosures

Protective loudspeaker enclosures accommodate the ceiling loudspeakers with their integral line transformers. The rugged, steel enclosures are sufficiently undercoated to eliminate resonance. Four conduit knockouts are provided at 90-degree intervals. Cubic volume of the enclosures allow the

loudspeakers to operate at optimum loading, improving low-frequency response.

Model 5681-7T Sound Masking Loudspeaker System

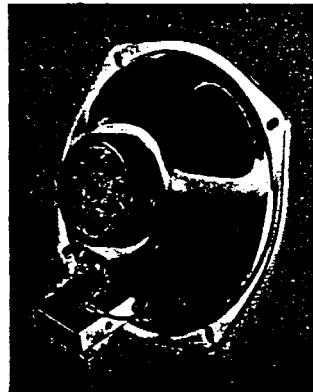
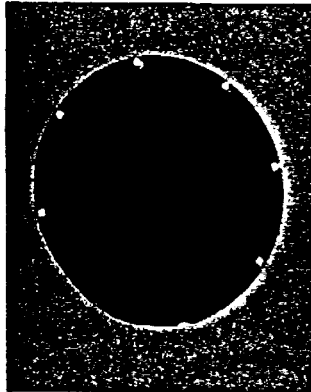
The ALTEC LANSING Model 5681-7T Sound Masking Loudspeaker System reproduces and transmits a specially uniform masking sound for obtaining normal conversational speech privacy throughout the open-plan environment. The system is furnished assembled and wired, ready for inconspicuous installation above lay-in ceiling tiles. Components of the system include the loudspeaker, line matching transformer, protective loudspeaker enclosure, and recessed ceiling baffle. Mounting hardware and suspension chain is included.

The cylindrical enclosure is coated to eliminate metallic resonance. Acoustic absorptive glass wool is used to prevent acoustic resonance. A cover gasket is incorporated between the loudspeaker and baffle to assure a proper seal, and to afford maximum protection against dust and foreign matter. Unique enclosure construction permits versatile mounting from the structural deck for upward, downward or horizontal orientation above the ceiling area.

The loudspeaker is equipped with a line transformer having five color-coded power taps from 0.25W to 4.0W. Wattage tap selection is facilitated externally via 4-inch wire leads.

SPECIFICATIONS FOR 8-INCH CEILING LOUDSPEAKER SYSTEMS

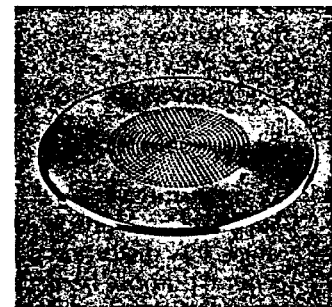
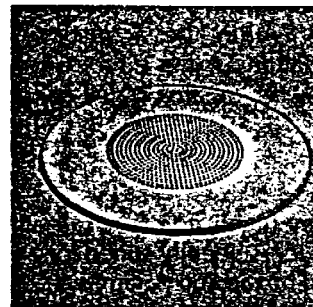
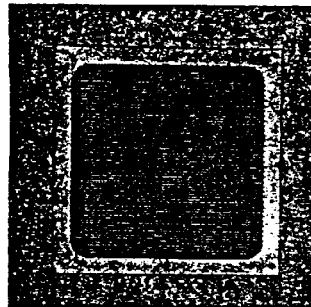
All listed loudspeakers, baffles and enclosures are interchangeable, and may be integrated in any combination to provide the desired ceiling loudspeaker system.



LOUDSPEAKERS

Model:	5381T	2459A	409T (COAXIAL)
Sensitivity:*	96	96	96
Power Taps (watts):	¼, ½, 1, 2, 4	½, 1, 2, 4	½, 1, 2, 4
Frequency Response:	50 Hz to 13,000 Hz	80 Hz to 13,000 Hz	50 Hz to 14,000 Hz
Line Input:	70 volts	25/70 volts	70 volts
Insertion Loss:	1 dB max	1 dB max	1 dB max
Magnet Weight:	10 oz	4.8 oz	10.7 oz LF, .68 HF
Flux Density:	11,500 Gauss	8500 Gauss	8500 Gauss LF, 7500 Gauss HF
Diameter:	8"	8½"	8⅞"
Depth:	2⅞"	3"	4⅜"
Weight:	2 lb, 6 oz	1 lb, 14 oz	3 lbs, 8 oz

*SPL at 4 feet with a 1 watt input.

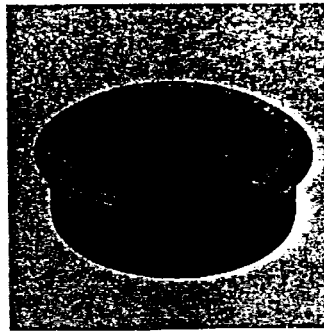


BAFFLES

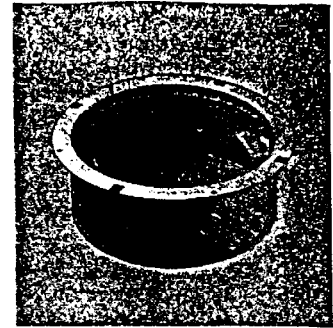
Model:	5282W	5281W	5281S
Shape:	Square	Round	Round
Color:	White	White	Satin
Material:	Steel	Steel	Aluminum
Dimensions:	12½" sq.	13¼" dia.	13¼" dia.

ENCLOSURES

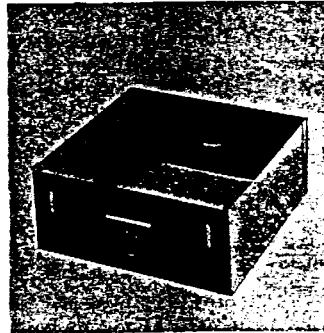
Model: 5184N
Application: New construction
Shape: Round
Material: Steel
Dimensions: 13 1/8" dia. flange
 8 5/8" dia. enclosure
 4 1/4" deep



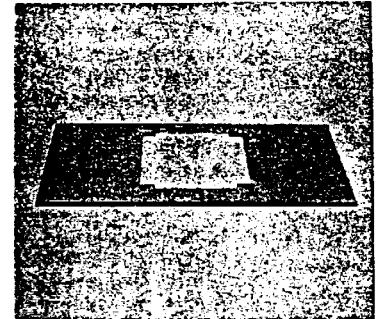
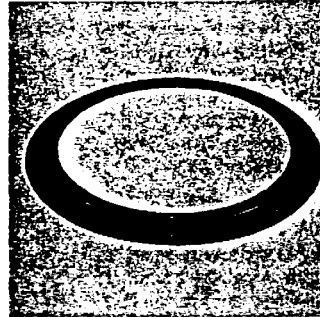
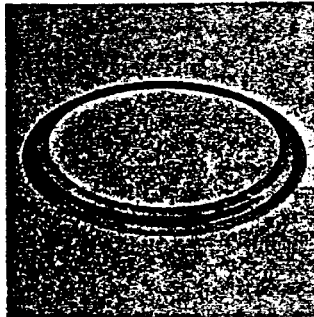
5184E
 Existing construction
 Round
 Steel
 13 1/8" dia. flange
 8 5/8" dia. enclosure
 4 1/4" deep



Model: 5183X
Application: New and existing construction
Shape: Square
Material: Steel
Dimensions: 8 3/4" square
 4 1/4" deep



5189X
 New and existing construction
 Square
 Round
 15" dia. enclosure
 10 5/8" deep



OPTIONAL PLASTER RINGS/FRAMES

Model: 5486N
Application: New construction
Shape: Round
Material: Steel
Dimensions: 13 1/2" OD
 12" ID

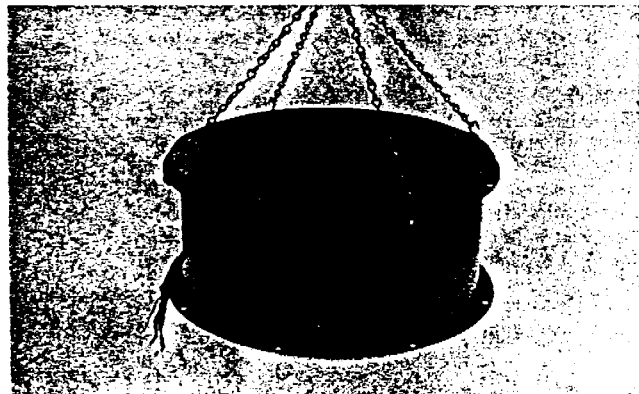
5485X
 New/existing construction
 Round
 Plastic
 13 13/16" OD
 12 1/8" ID

5487X
 Tee bar ceilings
 Rectangular
 Steel
 12 1/8" wide
 23 3/4" long
 8 1/2" sq. cutout

SPECIFICATIONS FOR MODEL 5681-7T SOUND MASKING LOUDSPEAKER SYSTEM

Frequency Response: 50 to 13,000 Hz
Sensitivity: 96 dB SPL at 4 feet with 1W input
Power Handling Capacity: 12 watts
Insertion Loss: 1 dB maximum
Voice Coil Impedance: 8 ohms
Magnet Weight: 10 ounces
Flux Density: 11,500 Gauss
Voice Coil Diameter: 1 inch
Line Transformer—
Input: 70.7V
Output: 0.25W, 0.5W, 1.0W, 2.0W, 4W
Enclosure Volume: 650 in³ (0.01 in³)
Enclosure Construction: 22 gauge cold rolled steel
Absorption Material: glass wool (1 1/2 lbs/ft³)
Loudspeaker: Model 5381T

Protective Cover Gasket: reticulated polyurethane foam with approximate opening of 60%



5381T

The Ceiling Loudspeaker shall be an 8" cone with a frequency response of 50 Hz to 13,000 Hz and shall provide a maximum power rating of 12 watts. Selectable power ratings of ¼W, ½W, 1W, 2W and 4W shall be provided by a matching transformer for 70-volt distributed systems. Sensitivity shall be 96 dB SPL at 4 feet with 1 watt input. Insertion loss shall be a maximum of 1 dB. Magnet weight shall be 10 ounces. Dimensions shall be 8" in diameter and 2½" deep. The Ceiling Loudspeaker shall be the Altec Lansing Model 5381T.

2459A

The Ceiling Loudspeaker shall be an 8" curvilinear cone, with a frequency response of 80 Hz to 13,000 Hz, and shall provide a maximum power rating of 10 watts. Selectable power ratings of ½W, 1W, 2W and 4W shall be provided by a matching transformer for 25V or 70V distributed systems. Sensitivity shall be 96 dB SPL at four feet with 1 watt input. Insertion loss shall be a maximum of 1 dB. Voice coil diameter shall be ¾". The loudspeaker magnet shall weigh 4.8 ounces and have a flux density of 8500 Gauss. Dimensions shall be 8" in diameter and 2¾" deep. Weight shall be 1 pound, 14 ounces. The Ceiling Loudspeaker shall be the Altec Lansing Model 2459A.

409T

The Ceiling Loudspeaker shall be the full-range coaxial type with an 8" LF cone, a 3" HF cone and a dividing network. The loudspeaker shall have a frequency response of 50 Hz to 14,000 Hz, and shall provide a maximum power rating of 16 watts. Selectable power ratings of ½W, 1W, 2W and 4W shall be provided by a matching transformer for 70V distributed systems. Sensitivity shall be 96 dB SPL at four feet with 1 watt input. Insertion loss shall be a maximum of 1 dB. Voice coil diameters shall be 1" (LF) and ¾" (HF). The LF loudspeaker magnet shall weigh 4.8 ounces and have a flux density of 8500 Gauss. Dimensions shall be 8½ inches in diameter and 4¾" deep. Weight shall be 1 pound, 14 ounces. The Ceiling Loudspeaker shall be the Altec Lansing Model 409T.

5282W

The Flush Wall/Ceiling Baffle shall be of square shape and constructed of steel material having a white finish. Dimensions shall be 12½" square. Mounting screws shall attach the baffle to the selected enclosure. The Flush Wall/Ceiling Baffle shall be the Altec Lansing Model 5282W.

5281W

The Flush Wall/Ceiling Baffle shall be of round shape and constructed of steel material having a white finish. Dimensions shall be 13¼" in diameter. Mounting screws shall attach the baffle to the selected enclosure. The Flush Wall/Ceiling Baffle shall be the Altec Lansing Model 5281W.

5281S

The Flush Wall/Ceiling Baffle shall be of round shape and constructed of aluminum material having a satin finish. Dimensions shall be 13¼" in diameter. Mounting screws shall attach the baffle to the selected enclosure. The Flush Wall/Ceiling Baffle shall be the Altec Lansing Model 5281S.

5184N

The Recessed Protective Enclosure shall be of cylindrical shape for new installations to accommodate an 8-inch loudspeaker. Construction shall be of welded cold rolled steel material, sufficiently undercoated to eliminate acoustical and metallic resonance. The enclosure shall have four ½"-¾" conduit knockouts at 90 degree intervals. Screw retaining U-clips shall be mounted internally

to protect screw holes from blockage by plaster or poured concrete. The enclosure interior shall be finished with a rust preventative coating. The Recessed Protective Enclosure shall be the Altec Lansing Model 5184N.

5184E

The Recessed Protective Enclosure shall be of cylindrical shape for existing installations to accommodate an 8-inch loudspeaker. Construction shall be of welded cold rolled steel material, sufficiently undercoated to eliminate acoustical and metallic resonance. The enclosure shall have four ½"-¾" conduit knockouts at 90 degree intervals. The enclosure interior shall be finished with a rust preventative coating. The Recessed Protective Enclosure shall be the Altec Lansing Model 5184E.

5183X

The Recessed Protective Enclosure shall be of square shape for new and existing installations to accommodate an 8-inch loudspeaker. Construction shall be of welded cold rolled steel material, sufficiently undercoated to eliminate acoustical and metallic resonance. The enclosure shall have four ½"-¾" conduit knockouts at 90 degree intervals, with two sets of die punched slots on parallel sides to facilitate greater depth adjustment in contemporary suspended ceilings. Screw retaining U-clips shall be mounted internally to protect screw holes from blockage by plaster or poured concrete. The enclosure interior shall be finished with a rust preventative coating. The Recessed Protective Enclosure shall be the Altec Lansing Model 5183X.

5189X

The Recessed Protective Enclosure shall be of cylindrical shape for new and existing installations to accommodate an 8-inch loudspeaker. Cubic volume shall be one cubic foot. Construction shall be of welded cold rolled steel material, sufficiently undercoated to eliminate metallic resonance, and using glass wool to eliminate acoustical resonance. The enclosure shall have four ½"-¾" conduit knockouts at 90 degree intervals, and employ four mounting straps for installation. Screw retaining U-clips shall be mounted internally to protect screw holes from blockage by plaster or poured concrete. The enclosure interior shall be finished with a rust preventative coating. The Recessed Protective Enclosure shall be the Altec Lansing Model 5189X.

5681-7T

The Sound Masking Loudspeaker System shall reproduce and transmit a spacially uniform masking sound for obtaining normal conversational speech privacy throughout the open-plan environment. The system shall be furnished assembled and wired, ready for installation above lay-in ceiling tiles. Components of the system shall include the loudspeaker, line matching transformer, protective loudspeaker enclosure, and recessed ceiling baffle.

The cylindrical enclosure shall be constructed of welded 22 gauge cold rolled steel, sufficiently coated to eliminate metallic resonance. Acoustic absorptive glass wool of 1½ pounds per cubic foot density shall be inserted to prevent acoustic resonance. A cover gasket of reticulated polyurethane foam (with approximate opening of 60 percent) shall be incorporated between the loudspeaker and baffle to assure a proper seal. The loudspeaker shall be equipped with a 70.7-volt line transformer having five color-coded power taps of 0.25W, 0.5W, 1.0W, 2.0W and 4.0W. The Sound Masking Loudspeaker System shall be the Altec Lansing Model 5681-7T.



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