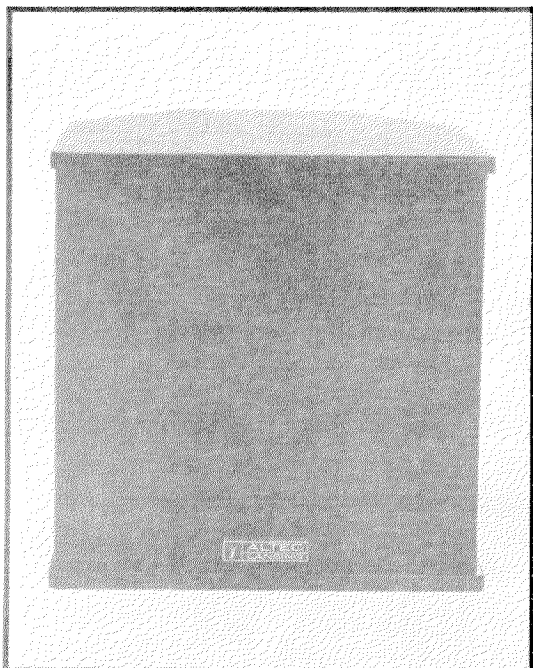




# PS-95 15" Duplex® Portable Loudspeaker System



## KEY FEATURES

- ★ Portable Loudspeaker System
- ★ Unique 5-Sided Enclosure
- ★ High-Output Capability
- ★ Auto-Reset Circuit Breakers

## PRIMARY SPECIFICATIONS

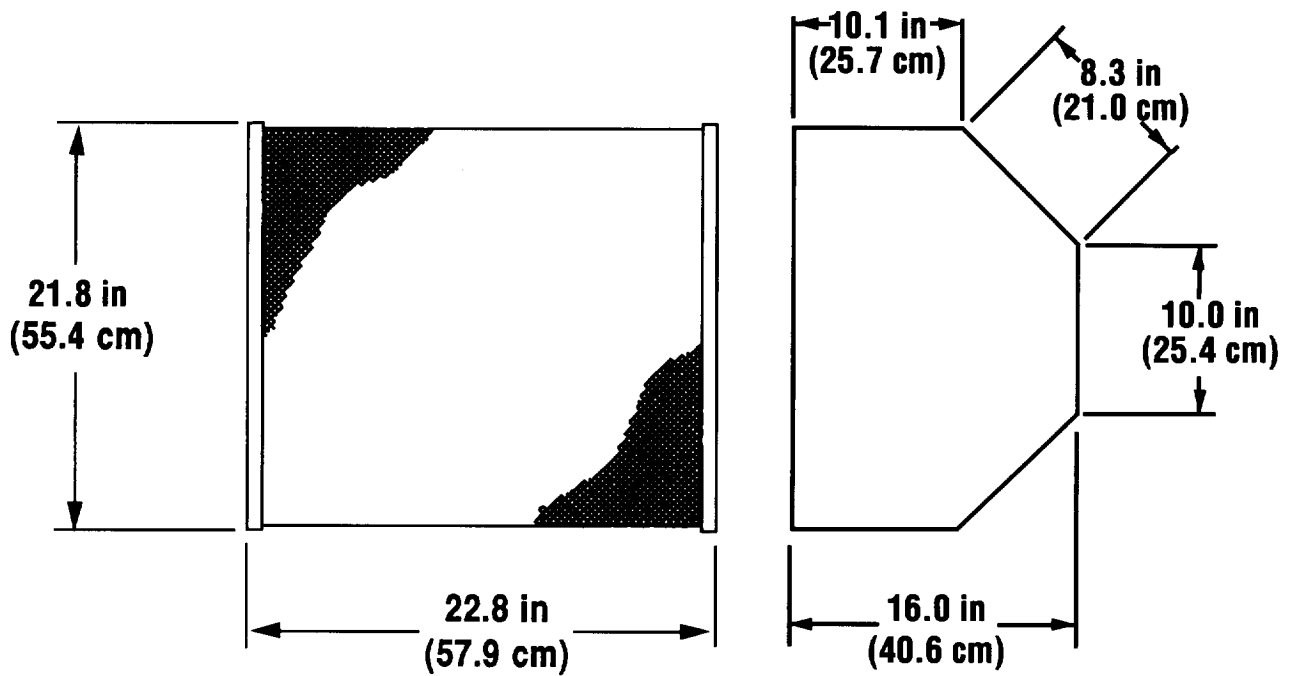
|                                      |  |
|--------------------------------------|--|
| <b>System Type:</b>                  | Two-way, sealed-type full-range loudspeaker system.  |
| <b>Pressure sensitivity:</b>         | 98.0 dB SPL<br>(1 W, 60 Hz - 20 kHz,<br>re: 20 $\mu$ Pa, see note 1).  |
| <b>Frequency Response:</b>           | 60 Hz - 20 kHz<br>(see Figure 1, Note 2)   |
| <b>Power Handling:</b>               | 200 watts, 60 Hz - 20 kHz,<br>AES method (see note 3).<br>400 watts, 60 Hz - 20 kHz,<br>continuous program.<br>800 watts, 60 Hz - 20 kHz, peak<br>power. |
| <b>Maximum Long-Term<br/>Output:</b> | 119.6 dB SPL<br>(200 watts input, 1 m,<br>re: 20 $\mu$ Pa, see note 4).  |
| <b>Impedance:</b>                    | 7.0 ohms minimum<br>8.0 ohms nominal.  |

## DESCRIPTION

The Altec Lansing **PS-95** loudspeaker is a two-way factory-assembled system. The system features a duplex® 15 inch (38.1 cm) low frequency driver with a coaxially mounted 1-inch compression driver utilizing a 90° x 90° constant-directivity horn. Smooth transition at crossover is accomplished by a dual-section 12 dB/octave crossover network centered at 1.8 kHz. Both the L.F. and H.F. sections of the system are protected using a self-resetting protection circuit which will not allow the inexperienced user to damage the systems components. The enclosure is constructed of 3/4-inch (1.9 cm) Enviro-board™ covered in a protective light gray carpet that

is more durable than conventional coverings. The enclosure is also supplied with a removable metal grille which adds to the durability. Inset handles on either side of the unit allow for easy transportation. A built-in stand mount compliments the versatility of this unit.

The intended use of the **PS-95** is in medium to large main sound reinforcement systems and would be ideal for houses of worship, audio-visual presentations, conference rooms or other acoustic environments where a flexible, portable, inexpensive loudspeaker system is required.



## PS-95 Specifications (continued)

|                                    |   |                         |  |
|------------------------------------|---|-------------------------|--|
| <b>Components:</b>                 | 15-inch duplex® loudspeaker with a coaxially mounted, 1.0 inch, compression driver and rectangular coverage 90° by 90° horn.        | <b>Enclosure:</b>       | Sealed-type, built of 3/4-inch (1.9 cm) Enviro-board™ lined with glass wool. |
| <b>Crossover Network:</b>          | Two-way at 1800 Hz with a 12 dB per-octave slope for both sections. Self resetting protection circuits for both woofer and tweeter. | <b>Finish:</b>          | Light gray carpet covering with black metal grille.                          |
| <b>Input Terminals:</b>            | Two 1/4 - inch phone jacks and two Neutrik Speakon connectors.  | <b>Dimensions:</b>      | 21.8 in (55.4 cm) high<br>22.8 in (57.9 cm) wide<br>16.0 in (40.6 cm) deep   |
| <b>Replacement H.F. Diaphragm:</b> | R950-8AHF   | <b>Net Weight:</b>      | 64.0 lbs (29.1 kg)   |
| <b>Replacement L.F. Recone:</b>    | R950-8ALF   | <b>Shipping Weight:</b> | 71.0 lbs (32.3 kg)   |
| <b>Replacement Grille:</b>         | Model RG9850B   |                         |  |

Altec Lansing continually strives to improve products and performance. Therefore specifications are subject to change without notice.

## NOTES ON MEASUREMENT CONDITIONS

1. Pink noise signal, one Watt calculated using  $E^2/Z_{min}$ , 3.16 meter-measurement distance referred to one meter.
2. On-axis, one Watt calculated using  $E^2/Z_{min}$ , 3.16 meter-measurement distance referred to one meter, low frequencies corrected for anechoic chamber error.
3. This system rating patterned after the AES method for individual driver, where the test signal is pink noise with a 6 dB crest factor over the bandwidth of the system, with power calculated using the  $E^2/Z_{min}$ , for two hours.
4. This measurement made under the same conditions as Pressure Sensitivity, but at rated power, and takes into account any power compression effects due to non-linearities in the system.
5. Distortion components invalid above 10 kHz. The distortion at any given frequency may be found by graphically taking the difference between the fundamental and harmonic, and adding the number of Decibels which the harmonic has been raised on the graph and apply the formula:  

$$\% \text{ distortion} = 100 \times 10^{(\text{difference in dB}/20)}$$

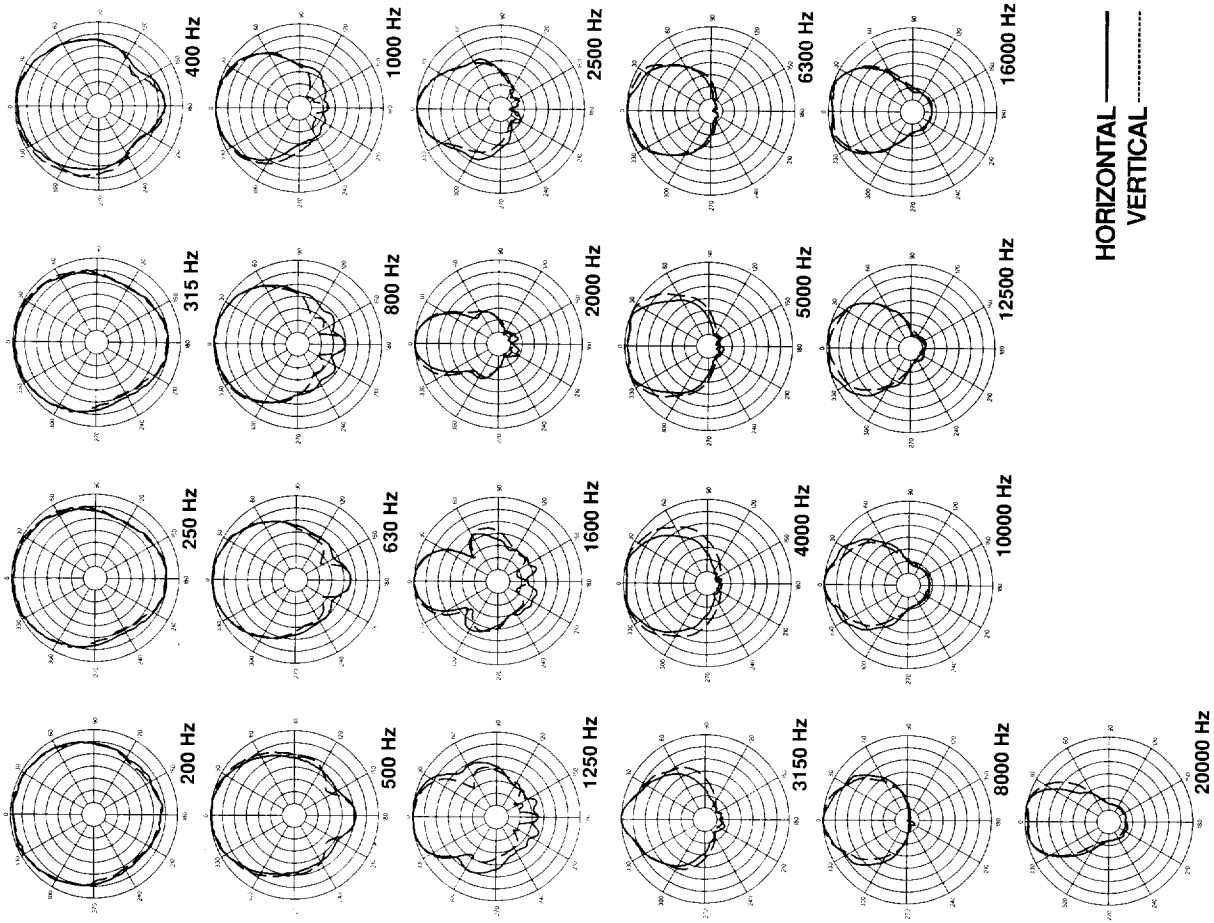


Figure 1 1/3-Octave Polar Response

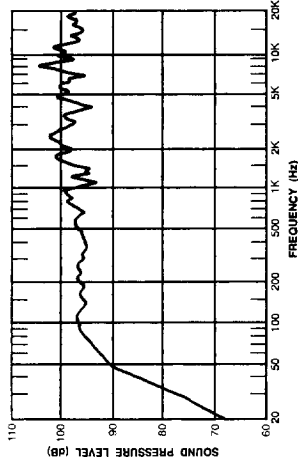


Figure 2. Frequency Response

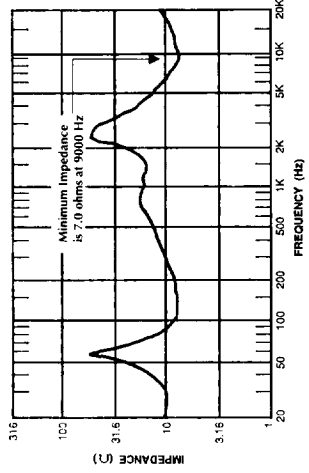


Figure 3. Dispersion Angle

Figure 4. Magnitude of Impedance

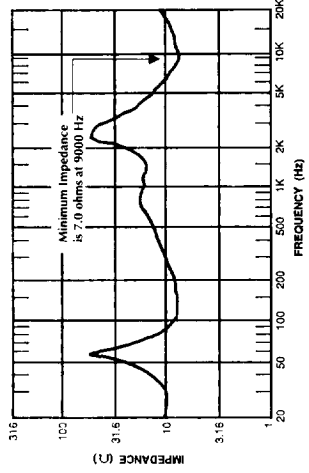


Figure 5. Q and Directivity Index

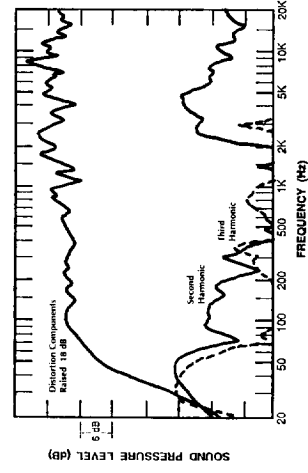
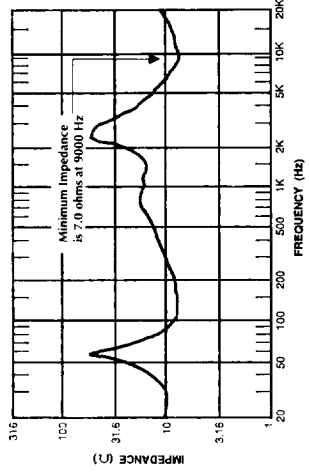


Figure 6. Harmonic Distortion at 0.01 Rated Power

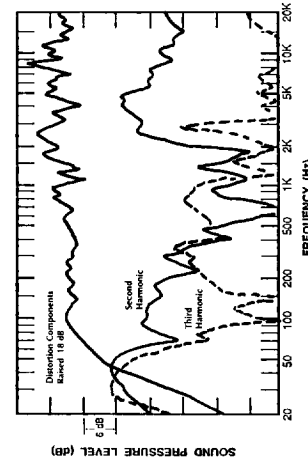


Figure 7. Harmonic Distortion at 0.1 Rated Power

## ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The loudspeaker system shall be a two-way multipurpose type consisting of a 15-inch duplex loudspeaker with a coaxially mounted 1-inch compression driver loaded with a 90° by 90° constant-directivity horn. The dividing network is a dual section type 12 db/octave slope on both L.F. and H.F. sections with a crossover center frequency of 1.8 kHz. The loudspeaker system shall meet the following performance criteria: Power handling, 200 watts of pink noise with 6 dB crest factor, band limited from 60 Hz - 20 kHz. Frequency response, smooth and uniformly usable from 60 Hz - 20 kHz. Pressure sensitivity, 98 dB spi

when measured at one meter on axis with one watt of band-limited pink noise from 60 Hz - 20 kHz. Minimum impedance, 7.0 ohms.

The enclosure shall be of the sealed type, constructed of 3/4-inch (1.9 cm) Enviro-board™ lined with sound absorbent glass wool. The enclosure shall be covered in a protective gray carpet and feature a metal grille. The dimensions shall be 21.8 inches (55.4 cm) high by 22.8 inches (57.9 cm) wide by 16.0 inches (40.6 cm) deep. The loudspeaker shall weigh 64.0 lbs (29.1 kg). The loudspeaker system shall be the Altec Lansing PS-95.



a MARK IV company

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