C10A Series

8" Dual Cone Loudspeaker Available With Transformer

Features

- Acoustically Proven, General Purpose 25 Watt Loudspeaker
- Includes Choice of Factory-Installed Line-Matching Transformer
- Ideal for Multi-Purpose Commercial, Industrial and Institutional Use
- Mounts a Wide Selection of Atlas Sound Baffles

Applications

Utilize Atlas Sound’s Model C10A, 8” dual-cone loudspeaker for dependable voice, music and signal reproduction in commercial, industrial and institutional communication systems. It is the industry standard for performance and service reliability in general purpose applications. Model includes a choice of four factory-installed line matching transformers to meet a wide range of project requirements.

General Description

Model C10A is a dual cone, 25 Watts 8” (203mm) loudspeaker with a 10 oz. (260g) ceramic magnet. It includes a curvelinear, treated-paper cone for lower harmonic distortion. The loudspeaker is also equipped with a full 1” diameter copper voice coil with a black-anodized aluminum former for better power dissipation.

Model C10A operates within a frequency response range of 45Hz – 19kHz with a sensitivity of 97dB and a dispersion angle of 105°. It mounts a wide variety of Atlas Sound round and square baffles and enclosures to meet functional and aesthetic application requirements.

Specifications

<table>
<thead>
<tr>
<th>Size</th>
<th>8” (203mm)</th>
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<tbody>
<tr>
<td>Power Handling</td>
<td>15 Watts RMS</td>
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<tr>
<td>Sensitivity</td>
<td>97dB Peak</td>
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<tr>
<td>Impedance</td>
<td>8Ω Nominal</td>
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<tr>
<td>Frequency Response</td>
<td>45Hz–19kHz</td>
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<tr>
<td>Dispersion</td>
<td>105° (2kHz Octave Band, -6dB Points)</td>
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<tr>
<td>Diameter</td>
<td>8.125” (205mm)</td>
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<tr>
<td>Depth</td>
<td>2.875” (73mm)</td>
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Transformer Specifications

C10AT25

- Includes Transformer LT-25
- Primary Voltage 25V
- Transformer Frequency Response 100Hz – 10kHz, (±1.5dB)
- Primary Taps .5, 1, 2, & 5 Watts
- Secondary Impedance 8Ω
- Insertion Loss 1.5dB
- Core Size ½” x ¾” (13 x 16mm)
- Power Rating 5 Watts

C10AT70

- Includes Transformer LT-70
- Primary Voltage 70.7V
- Transformer Frequency Response 100Hz – 10kHz, (±1.5dB)
- Primary Taps .5, 1, 2, & 5 Watts
- Secondary Impedance 8Ω
- Insertion Loss 1.5dB
- Core Size ½” x ¾” (13 x 16mm)
- Power Rating 5 Watts

C10AT72

- Includes Transformer LT-72
- Primary Voltage 25V/70.7V
- Transformer Frequency Response 100Hz – 10kHz, (±1.5dB)
- Primary Taps .5, 1, 2, & 4 Watts
- Secondary Impedance 8Ω
- Insertion Loss 1.5dB
- Core Size ½” x ¾” (13 x 16mm)
- Power Rating 4 Watts

Architect and Engineer Specifications

Unit shall be Atlas Sound 8" loudspeaker Model _____ or loudspeaker / transformer combination Model _____ (utilizing line-matching transformer Model ______). It shall have a (10oz.) ceramic magnet and a seamless cone. Frequency response range shall be ____________.

Sensitivity shall be _______. Voice coil shall be black anodized aluminum to help dissipate heat, have an impedance of 8Ω and a diameter of 1” (25mm). Transformer primary voltage shall be ____ with a frequency response range of ______. Insertion loss shall not exceed ____.
C10A Polar (Normalized to Zero on Axis) (-6dB)

C10A Frequency Response

SPL in dB

Frequency (Hz)
C10A Impedance

Frequency (Hz) Octave Smoothing = 30.0%