



8" DUAL CONE LOUDSPEAKER AVAILABLE WITH TRANSFORMER

C10A
Series

ONE



C10A

SPECIFICATIONS

Size: 8" (203mm)
Power Handling: 25 Watts Peak, 15 Watts RMS
Sensitivity: 97dB Peak, 94dB Average
Impedance: 8 Ohms Nominal, 8 Ohms Minimum
Frequency Response: 45Hz-19kHz Nominal, 85Hz-8kHz +5dB
Dispersion: 105° (2 kHz Octave Band, -6dB Points)
Diameter & Depth: 8.125" (205mm) Dia. & 2.875" (73mm) Deep
Mounting Dimensions: 7.625" (194mm) Bolt Circle
Cone Material: Treated Paper
Surround Material & Damping: Damped Self Edge
Flux Density: 10,600 Gauss, 1.06 Tesla
Magnet Weight: Nominal, 10 oz. (260g)
Basket Material: Stamped Plated 20 ga. CRS
VC Diameter: 1" (25mm)
VC Material: Copper
VC Former Material: Black Anodized Aluminum
VC Winding Width: .225"
Top Plate Thickness: .239"
Weight: 32 oz. (908g)

THIELE-SMALL PARAMETERS

| | | |
|-----------------------------|------------------------------------|------------------------------------|
| Pe: 15 Watts | Qes: .95 | Sd: 33.2 (in ²) |
| Fs: 125Hz | Qms: 5.2 | Le@1kHz: .36 mH |
| Xmax: .05" | BL: 7.9 N/A | Mms: .39 oz. |
| Resistance: 7.3 Ohms | Efficiency: 1.9% | Cms: .024 in./lb. |
| Qts: .80 | Vas: .32 (ft ³) | |

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 eight factory-installed line matching transformers to meet a wide range of project requirements. (For more information on Atlas Sound transformers, see sales sheet #SL1-1369.)

GENERAL DESCRIPTION

Model C10A is a dual cone, 25W 8" (203mm) loudspeaker with a 10 oz. (260g) ceramic magnet. It includes a curvilinear, 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 to 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.

| SPKR./ XFMR. MODELS | INCLUDES XFMR. | TRANSFORMER SPECIFICATIONS | | | | | | |
|---------------------------|-------------------|----------------------------|-----------------------------|----------------------------|------------------------|-------------------|---------------------|-----------------|
| | | PRIMARY VOLTAGE | XFMR. FREQUENCY RESPONSE | PRIMARY TAPS (WATTS) | SECONDARY IMPEDANCE | INSERTION LOSS | CORE SIZE | POWER RATING |
| C10AT25 | LT-25 | 25V | 100Hz - 10kHz, ±1.5dB | .5, 1, 2 & 5 | 8Ω | 1.5dB | ½" x ⅝" (13 x 16mm) | 5W |
| C10AT70 | LT-70 | 70.7V | 100Hz - 10kHz, ±1.5dB | .5, 1, 2, & 5 | 8Ω | 1.5dB | ½" x ⅝" (13 x 16mm) | 5W |
| C10AT72 | LT-72 | 25/70.7V | 100Hz - 10kHz, ±1.5dB | .5, 1, 2 & 4 | 8Ω | 1.5dB | ½" x ⅝" (13 x 16mm) | 4W |

Specifications subject to change without notice



1601 JACK MCKAY BLVD. / ENNIS, TEXAS 75119 U.S.A.
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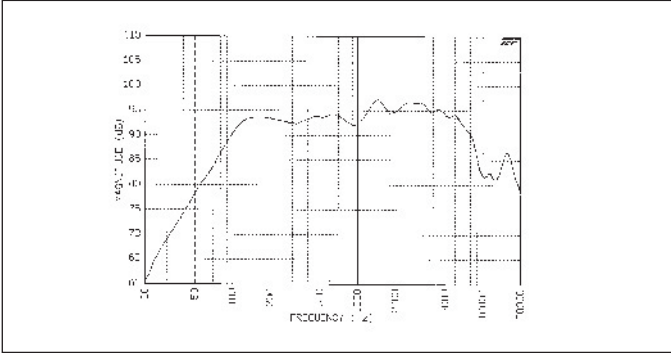
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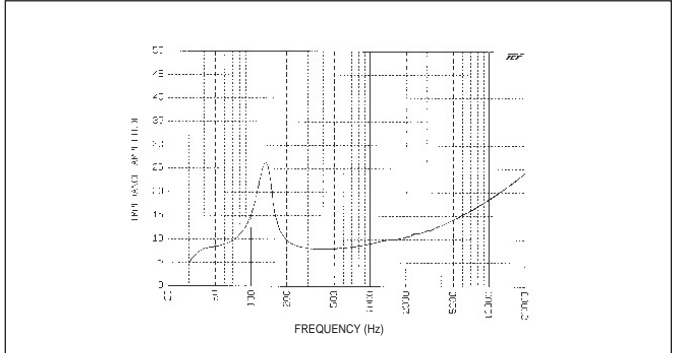
ARCHITECT & ENGINEER SPECIFICATIONS

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

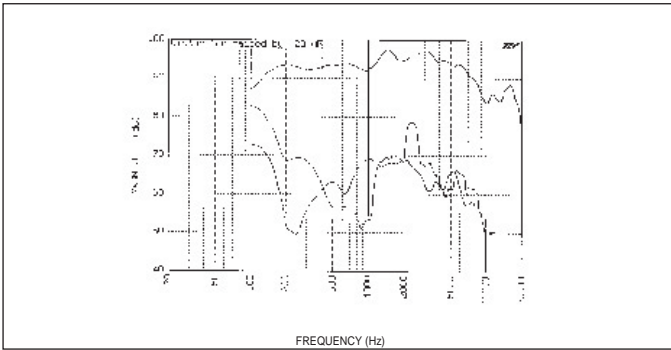
Sensitivity shall be _____. Voice coil shall be black anodized aluminum to help dissipate heat, have an impedance of 8 Ohms and a diameter of 1" (25mm). Transformer primary voltage shall be _____ with a frequency response range of _____. Insertion loss shall not exceed _____.



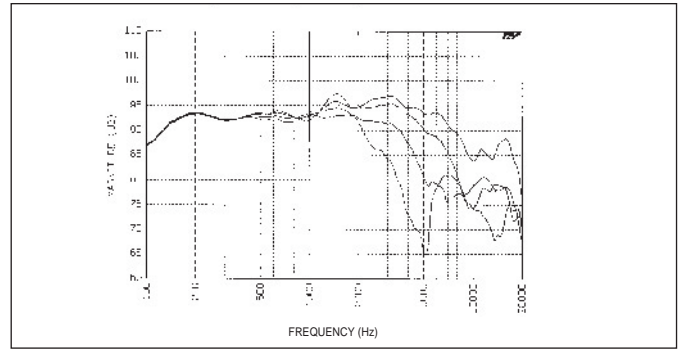
C10A: Frequency Response



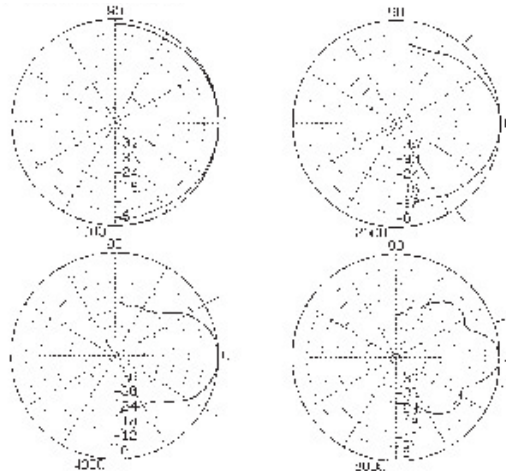
C10A: Impedance



C10A : Fundamental vs 2nd & 3rd Harmonic (Raised 20dB)@ 1 Watt



C10A: Frequency Response Overlay at 0, 15, 30 & 45 degrees



Octave Bands Normalized to Zero On Axis

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