



8" DUAL CONE LOUDSPEAKER AVAILABLE WITH TRANSFORMER

C10A
Series

ONE



C10A

SPECIFICATIONS

- Size:** 8" (205mm)
- Power Handling:** 25 Watts Peak, 15 Watts RMS
- Sensitivity:** 97dB Peak, 94dB Average
- Impedance:** 8 Ohms Nominal, 8 Ohms Minimum
- Frequency Response:** 45 Hz-19 kHz Nominal, 85 Hz-8 kHz +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 (in²)
- Fs:** 125 Hz
- 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 (ft³)

FEATURES

- Acoustically Proven, General Purpose 25-Watt Loudspeaker
- Offers U.S.- Made Quality at a Realistic Price
- 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, 25-watt 8" (205mm) 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 45 Hz to 19 kHz 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.

To ensure reliability and performance integrity, 100% of all C10A loudspeakers are TEF-tested at the factory. Atlas Sound operates a well-equipped, certified research laboratory which contains a fully anechoic chamber complete with analog Bruel & Kjaer measurement equipment and the TEF 20® audio analyzer.

TRANSFORMER SPECIFICATIONS

SPKR./XFMR. MODELS	INCLUDES XFMR.	PRIMARY VOLTAGE	XFMR. FREQUENCY RESPONSE	PRIMARY TAPS (WATTS)	SECONDARY IMPEDANCE	INSERTION LOSS	CORE SIZE	POWER RATING
C10AT25	LT-25	25V	100 Hz - 10 kHz, ± 1.5dB	.5, 1, 2 & 5	8 Ohms	1.5dB	½" x ¾" (13 x 16mm)	5 Watts
C10AT47	HT-47	70.7V	60 Hz - 12 kHz, ±1.0dB	.5, 1, 2 & 4	8 Ohms	1.0dB	¾" x ¾" (16 x 16mm)	4 Watts
C10AT70	LT-70	70.7V	100 Hz - 10 kHz, ±1.5dB	.5, 1, 2 & 5	8 Ohms	1.5dB	½" x ¾" (13 x 16mm)	5 Watts
C10AT72	LT-72	25/70.7V	100 Hz - 10 kHz, ±1.5dB	.5, 1, 2 & 4	8 Ohms	1.5dB	½" x ¾" (13 x 16mm)	4 Watts
C10AT82	HT-82	25V	50 Hz - 15 kHz, ±1.0dB	1, 2, 4 & 8	4 & 8 Ohms	.6dB	1" x ¾" (25 x 19mm)	8 Watts
C10AT87	HT-87	70.7V	50 Hz - 15 kHz, ±1.0dB	1, 2, 4 & 8	4 & 8 Ohms	.6dB	1" x ¾" (25 x 19mm)	8 Watts

Specifications subject to change without notice

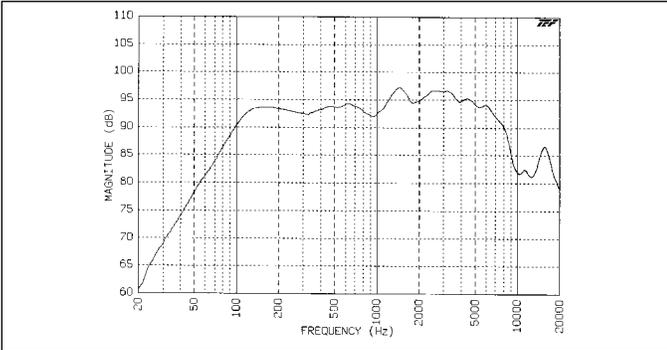


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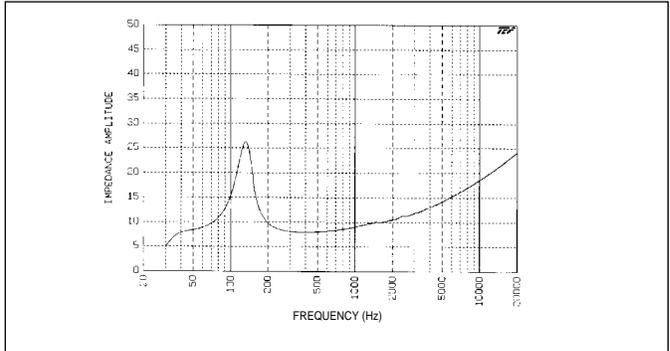
ARCHITECT & ENGINEER SPECIFICATIONS

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 _____.

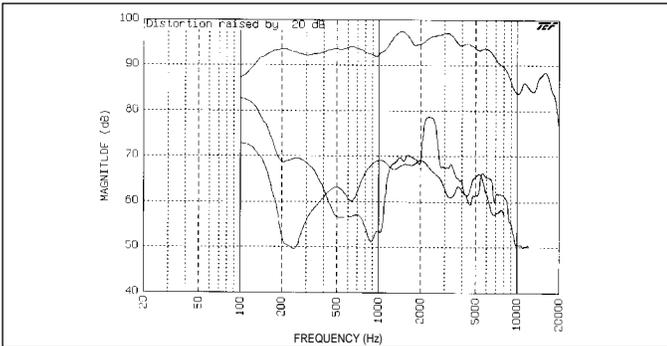
Sensitivity shall be _____. Voice coil shall be black anodized aluminum to help dissipate heat, have an impedance of 8 ohms and a diameter of 1" (25mm). Transformer primary voltage shall be _____ with a frequency response range of _____. Insertion loss shall not exceed _____.



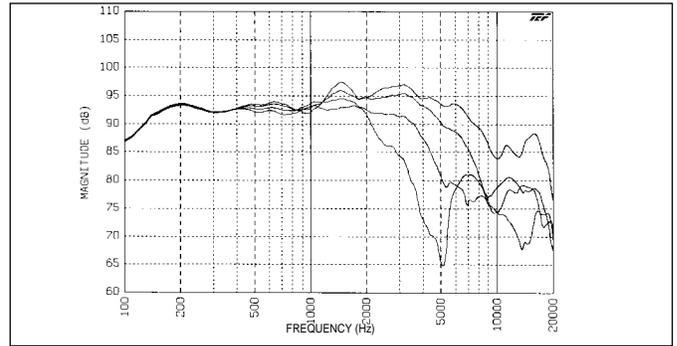
C10A: Frequency Response



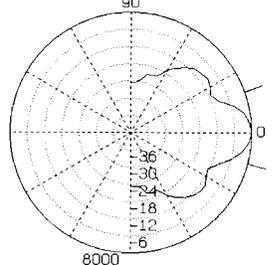
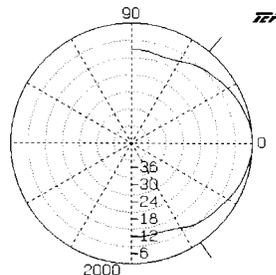
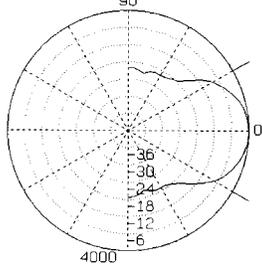
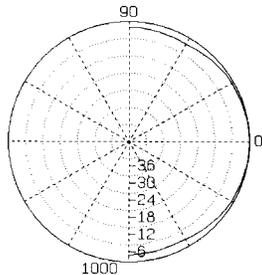
C10A: Impedance



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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