



# 8" DUAL CONE LOUDSPEAKER AVAILABLE WITH TRANSFORMER

C5A  
Series

ONE



C5A

## SPECIFICATIONS

**Size:** 8" (203mm)  
**Power Handling:** 15 Watts program, 10W RMS  
**Sensitivity (1W/1M):** 96dB Peak, 93dB Average  
**Impedance:** Nominal, 8 ohm  
**Frequency Response:** 50 Hz - 18 kHz (Nominal), 80 - 9kHz  $\pm$ 5dB  
**Dispersion:** 105° (2 kHz Octave Band, -6dB Points)  
**Diameter & Depth:** 8.125" (206mm) Dia. & 2.625" (67mm) Deep  
**Mounting Dimensions:** 7.625" (194mm) Bolt Circle  
**Cone Material:** Treated Paper  
**Surround Material & Damping:** Self Edge  
**Flux Density:** 9,200 Gauss, .92 Tesla  
**Magnet Weight - Nominal:** 5 oz., (132 g)  
**Basket Material:** Stamped Plated 20 ga. CRS  
**VC Diameter:** 1" (25mm)  
**VC Material:** Copper  
**VC Former Material:** Black Anodized Aluminum  
**VC Winding Width:** .190"  
**Top Plate Thickness:** .180"  
**Weight:** 22 oz. (607g)

## THIELE-SMALL PARAMETERS

**Pe:** 10 watts      **Qes:** 1.57      **Sd:** 33.2 (in<sup>2</sup>)  
**Fs:** 128 Hz      **Qms:** 4.2      **Le@1kHz:** .26 mH  
**Xmax:** .05"      **BL:** 5.6 N/A      **MMs:** .36 oz.  
**Resistance:** 6.1 ohms      **Efficiency:** 1.3%      **Cms:** .027 in./lb.  
**Qts:** 1.15      **Vas:** .35 (ft<sup>3</sup>)

## FEATURES

- Industry Standard Value Loudspeaker with Proven Performance
- Available with 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 U.S.-made, 8" dual-cone loudspeaker for voice transmission, music and signal reproduction in commercial, industrial and institutional applications. Model C5A is an economical, multi-purpose loudspeaker with choice of eight factory-installed line matching transformers to meet a variety of value-conscious project requirements. (For more information on Atlas Sound transformers, see sales sheet #SL1-1369.)

## GENERAL DESCRIPTION

Model C5A is a reliable, economically priced 15-watt loudspeaker that offers many features found in speakers costing considerably more. It includes a curvilinear, treated-paper cone for lower harmonic distortion. It is also equipped with a full 1" diameter copper voice coil with a black-anodized aluminum former for better power dissipation.

Model C5A operates within a frequency response range of 50Hz -18 kHz with a sensitivity of 96dB 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 C5A 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.*

SPKR./ XFMR. MODELS	INCLUDES XFMR.	TRANSFORMER SPECIFICATIONS						
		PRIMARY VOLTAGE	XFMR. FREQUENCY RESPONSE	PRIMARY TAPS (WATTS)	SECONDARY IMPEDANCE	INSERTION LOSS	CORE SIZE	POWER RATING
C5AT25	LT-25	25V	100 Hz - 10 kHz, $\pm$ 1.5dB	.5, 1, 2 & 5	8 Ohms	1.5dB	1/2" x 5/8" (13 x 16mm)	5 Watts
C5AT47	HT-47	70.7V	60 Hz - 12 kHz, $\pm$ 1.0dB	.5, 1, 2 & 4	8 Ohms	1.0dB	3/8" x 5/8" (16 x 16mm)	4 Watts
C5AT70	LT-70	70.7V	100 Hz - 10 kHz, $\pm$ 1.5dB	.5, 1, 2 & 5	8 Ohms	1.5dB	1/2" x 5/8" (13 x 16mm)	5 Watts
C5AT72	LT-72	25/70.7V	100 Hz - 10 kHz, $\pm$ 1.5dB	.5, 1, 2 & 4	8 Ohms	1.5dB	1/2" x 5/8" (13 x 16mm)	4 Watts
C5AT87	HT-87	70.7V	50 Hz - 15 kHz, $\pm$ 1.0dB	1, 2, 4 & 8	4 & 8 Ohms	.6dB	1" x 3/4" (25 x 19mm)	8 Watts

Specifications subject to change without notice

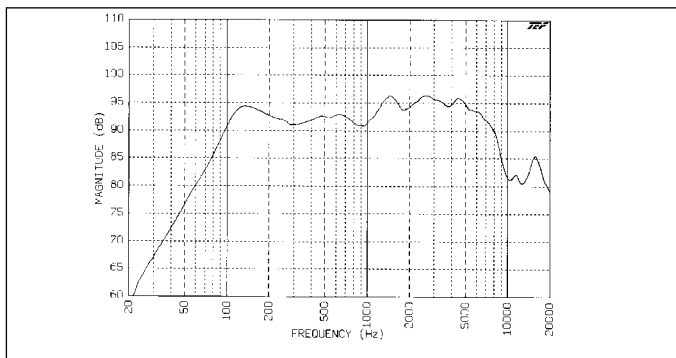


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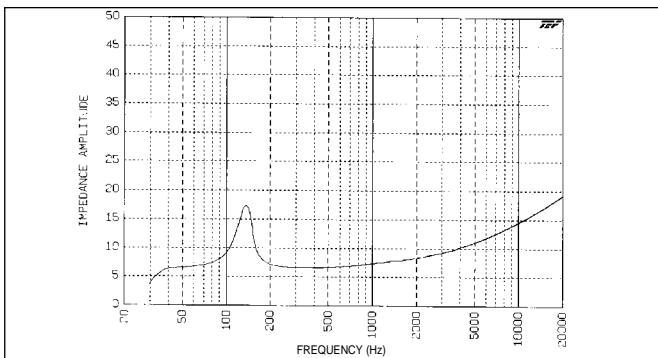
## ARCHITECT & ENGINEER SPECIFICATIONS

Unit shall be Atlas Sound 8" loudspeaker Model \_\_\_\_\_ or loudspeaker/transformer combination Model \_\_\_\_\_ (utilizing line-matching transformer Model \_\_\_\_\_). It shall have a (5 oz.) ceramic magnet and a seamless cone. Frequency response range shall be \_\_\_\_\_. Sensitivity shall be \_\_\_\_\_. Voice coil shall be \_\_\_\_\_.

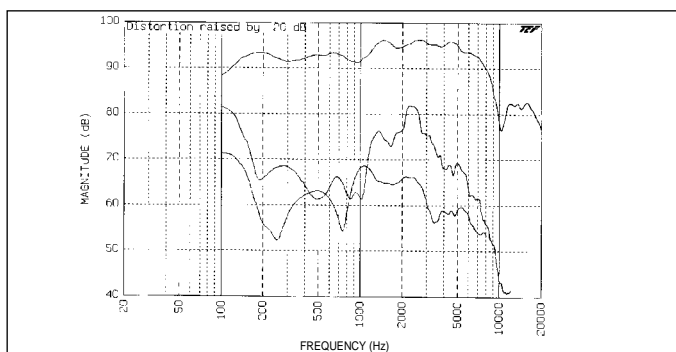
black anodized to help dissipate heat, have an impedance of 8 ohms and a diameter of 1" (25mm). Transformer primary voltage shall be \_\_\_\_\_ with a frequency response range of \_\_\_\_\_. Insertion loss shall not exceed \_\_\_\_\_.



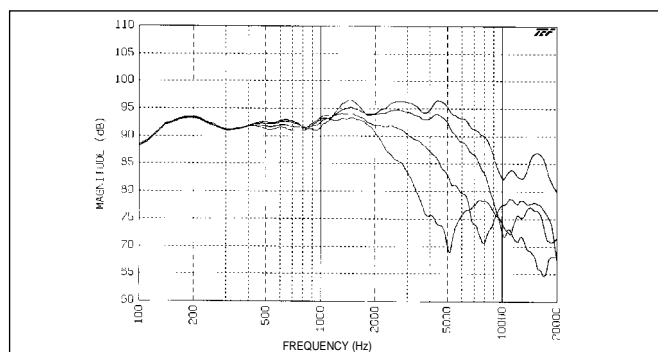
**C5A : Frequency Response**



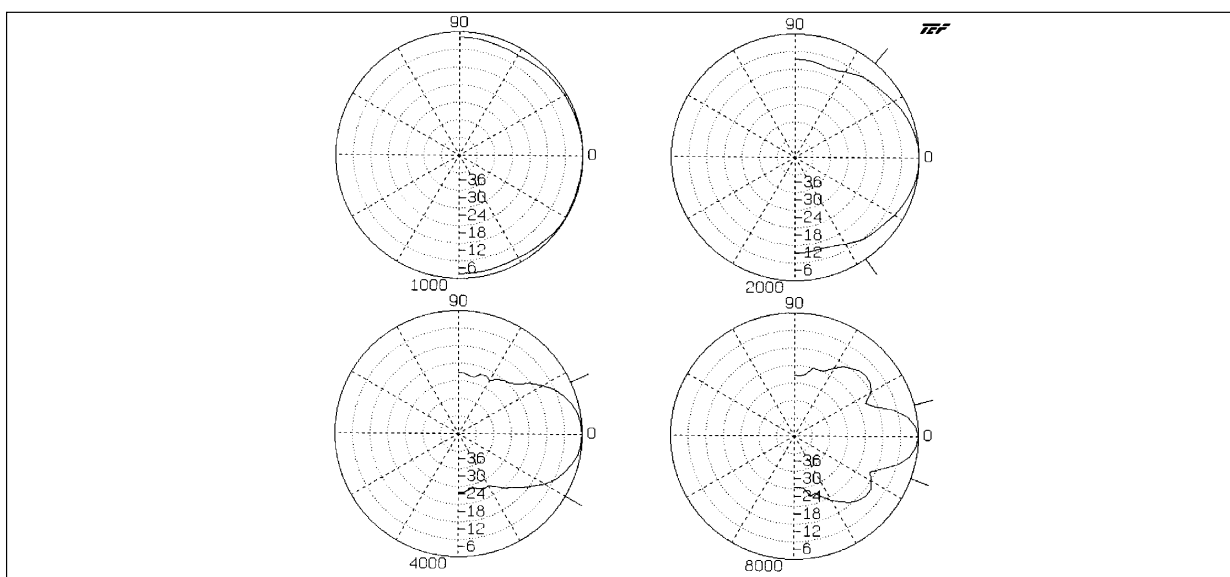
**C5A: Impedance**



**C5A : Fundamental vs 2nd & 3rd Harmonic (Raised 20dB) @ 1 watt**



**C5A: Frequency Response Overlay at 0, 15, 30 & 45 degrees**



**Octave Bands Normalized to Zero On Axis**

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