



# 8" COAXIAL LOUDSPEAKER AVAILABLE WITH TRANSFORMER

C803A  
Series

ONE



**C803A**  
(shown with transformer)

## SPECIFICATIONS

<b>Speaker Size:</b>	LF: 8" (203mm), HF: 3" (76mm)
<b>Power Rating:</b>	16 Watts RMS
<b>Sensitivity (SPL at 1W/1M):</b>	98dB (peak), 95dB (avg)
<b>Impedance:</b>	Nominal, 8 ohms
<b>Frequency Response:</b>	70 Hz - 15.5 kHz (±5dB)
<b>Crossover Frequency:</b>	2,800 Hz, First Order
<b>Dispersion:</b>	120°
<b>Mounting Dimensions:</b>	7 $\frac{5}{8}$ " (194mm) B.C.
<b>Cone Material:</b>	Treated Paper
<b>Surround Material &amp; Damping:</b>	Self Edge with Dampener
<b>Flux Density:</b>	10,600 Gauss, 1.06 Tesla
<b>Magnet Weight:</b>	Nominal, 10 oz. (260g)
<b>Basket Material:</b>	20 ga. Stamped Steel
<b>Voice Coil Diameter:</b>	1" (25mm)
<b>Voice Coil Material:</b>	Copper
<b>Voice Coil Former Material:</b>	Black Anodized Aluminum
<b>Voice Coil Winding Width:</b>	.265 (7mm)
<b>Top Plate Thickness:</b>	.239 (6mm)
<b>Weight:</b>	2.4 lbs. (1060g)
<b>Diameter &amp; Depth Less Xfmr:</b>	8 $\frac{1}{8}$ " (206mm) Dia. & 2 $\frac{1}{8}$ " (73mm) Deep

## THIELE-SMALL PARAMETERS

<b>Pe:</b> 16 Watts	<b>Qes:</b> .556	<b>Sd:</b> 33.1 In. <sup>3</sup>
<b>Fs:</b> 105 Hz	<b>Qms:</b> 6.58	<b>Le@1kHz:</b> .74 mH
<b>Xmax:</b> .05 in.	<b>BL:</b> 8.9 N/A	<b>Mms:</b> .369 oz
<b>Resistance:</b> 6.4 ohms	<b>Efficiency:</b> 2.9%	<b>Cms:</b> .039 in./lb.
<b>Qts:</b> .513	<b>Vas:</b> .507 Ft. <sup>3</sup>	

## FEATURES

- Industry Standard 8" (203mm) Coaxial, 16-Watt, Loudspeaker
- Offers Proven Performance with Wide Frequency Response
- Post-Mounted Tweeter Adds Strength and a More Attractive Appearance
- Ideal for Multi-Purpose Commercial, Industrial, and Institutional Use

## APPLICATIONS

Use Atlas Sound 8" (203mm) dia., multi-purpose, coaxial loudspeaker Model C803A for voice transmission, music and signal reproduction in high-quality commercial, industrial and institutional applications.

## GENERAL DESCRIPTION

Model C803A. High-quality, 16-watt Model C803A utilizes a post-mounted tweeter which adds strength to the assembly and provides an attractive appearance. This coaxial loudspeaker features a 70 Hz-15.5 kHz, ±5dB frequency response and a broad, uniform dispersion pattern of 120°. Such provisions allow for highly intelligible sound reproduction and better distribution for high-quality sound systems. The C803A combines a full-size 8" (203mm) dia. low-frequency reproducer and a 3" (76mm) high-frequency reproducer. The two sections are coupled via a built-in crossover network. The woofer has a 10 oz. (260g) ceramic magnet; the tweeter has a 2.35 oz. (67g) ceramic magnet and the unit has a peak sensitivity of 98dB (at 1 watt, 1 meter).

The loudspeaker is available with six different factory-installed line-matching transformers to meet a variety of project requirements (see chart below). Model C803A mounts a wide variety of Atlas Sound baffles and enclosures, with the optimum sealed enclosure size being .36 cu. ft.

## MODEL COMBINATIONS / TRANSFORMER SPECIFICATIONS

SPKR. / XFMR. COMBINATIONS AVAILABLE	XFMR.	PRIMARY VOLTAGE	XFMR. FREQUENCY RESPONSE	PRIMARY TAPS (WATTS)	SECONDARY IMPEDANCE	INSERTION LOSS (MAX)	CORE SIZE	POWER RATING
C803AT25	LT-25	25 V	100 Hz - 10 kHz, ±1.5dB	.5, 1, 2 & 5	8 Ohms	1.5dB	½" x ¾" (16 x 16mm)	5 Watts
C803AT47	HT-47	70.7 V	60 Hz - 12 kHz, ±1.0dB	.5, 1, 2 & 4	8 Ohms	1.0dB	⅝" x ⅝" (16 x 16mm)	4 Watts
C803AT70	LT-70	70.7 V	100 Hz - 10 kHz, ±1.5dB	.5, 1, 2 & 5	8 Ohms	1.5dB	½" x ¾" (16 x 16mm)	5 Watts
C803AT72	LT-72	25/70 V	100 Hz - 10 kHz, ±1.5dB	.5, 1, 2 & 4	8 Ohms	1.5dB	½" x ¾" (16 x 16mm)	4 Watts
C803AT82	HT-82	25 V	50 Hz - 15 kHz, ±1.0dB	1, 2, 4, 8	4 & 8 Ohms	0.6dB	1" x ¾" (25 x 19 mm)	8 Watts
C803AT87	HT-87	70.7 V	50 Hz - 15 kHz, ±1.0dB	1, 2, 4, 8	4 & 8 Ohms	0.6dB	1" x ¾" (25 x 19mm)	8 Watts

For additional information on Atlas Sound transformer models, refer to technical literature #SL1-1369.

Specifications subject to change without notice



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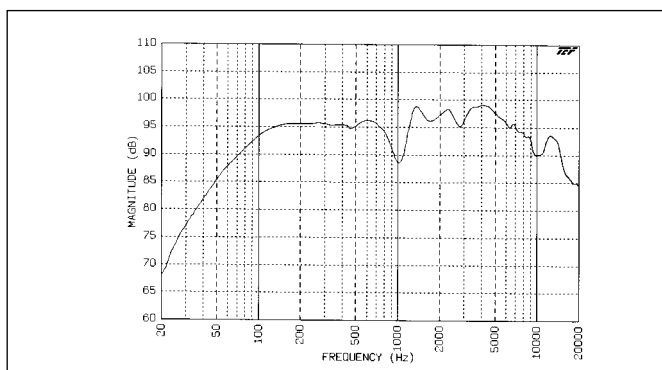
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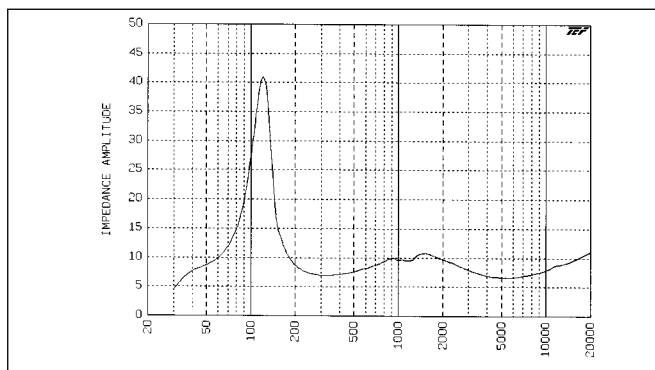
## ARCHITECT & ENGINEER SPECIFICATIONS

Unit shall be Atlas Sound 8" dia. loudspeaker Model C803A or loudspeaker/transformer combination Model \_\_\_\_\_ (utilizing Atlas Sound line-matching transformer Model \_\_\_\_\_). The low-frequency reproducer cone shall be a full 8" (203mm) in diameter and the high frequency reproducer cone shall be 3" (76mm) in diameter. The woofer shall have a 10 oz. (260g) ceramic magnet; the tweeter shall have a 2.35 oz. (67g) ceramic magnet. The two reproducer sections shall be coupled through a built-in crossover network. The crossover frequency shall be at 2800 Hz. Frequency response range shall be 70 Hz to

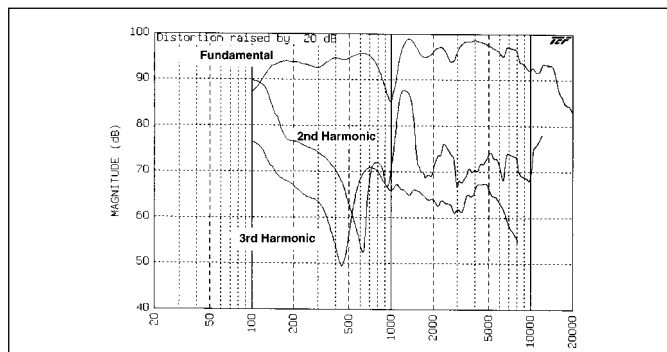
15.5 kHz,  $\pm 5$ dB. Sensitivity shall be 98dB at 1 watt, 1 meter. Voice coil impedance shall be 8 ohms. Low frequency voice coil diameter shall be 1" (25mm) and operate in a magnet field of at least 10,600 gauss. Transformer primary voltage shall be \_\_\_\_\_ (25V, 70.7V, 70/25) with a frequency response range of \_\_\_\_\_ and power taps at \_\_\_\_\_ watts. Insertion loss shall not exceed \_\_\_\_\_ dB. The maximum depth of the loudspeaker shall not exceed 2 1/4" (73mm).



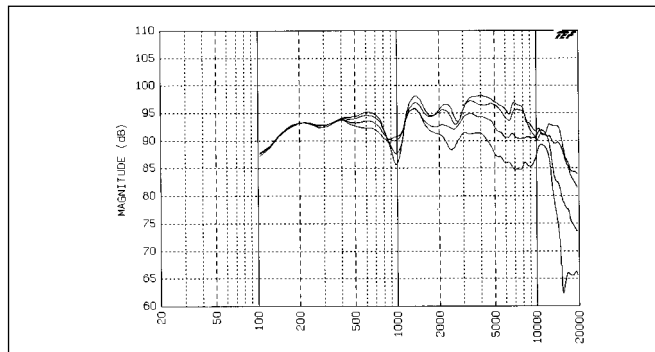
**C803A: Frequency Response**



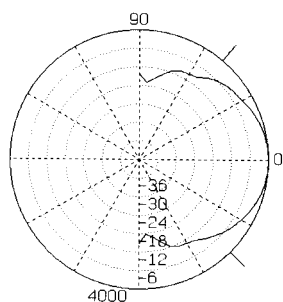
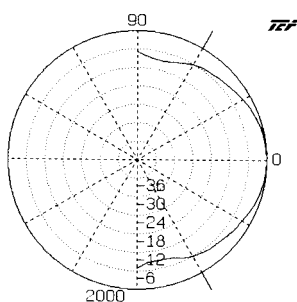
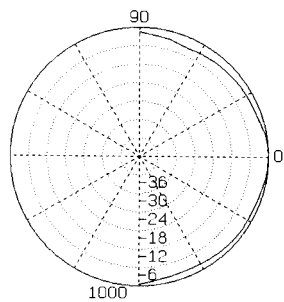
**C803A: Impedance**



**C803A: Fundamental vs 2nd & 3rd Harmonics (Raised 20dB) @ 1 watt**



**C803A Frequency Response Overlay at 0, 15, 30 & 45 degrees**



**Octave Bands Normalized to Zero On Axis**

*Specifications subject to change without notice*



# Northeast Total Communications

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# EQ SERIES 8" PROFESSIONAL LOUDSPEAKER SYSTEM

EQ818-T82, EQ818-T87  
EQ818-T167, EQ164A,  
EQ61, EQ81

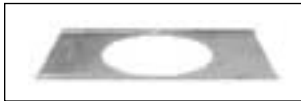
ONE



EQ818-T82



EQ818-BX



EQ81



EQ61



EQ164A

## APPLICATIONS

The Atlas Sound EQ Series is a high fidelity 8" loudspeaker system for ceiling installation designed to enhance the audio quality and listener appreciation for music in distributed sound systems. The 8" diameter low frequency reproducer, 4" diameter high frequency piezo transducer and ported bass reflex enclosure of this cost-efficient assembly assure its outstanding acoustic performance in constant voltage systems. Ideal for low-ceiling applications. Recommended applications include stores and boutiques, restaurants, nightclubs, hotel ballrooms, lecture or convention halls and meeting rooms, airports, recreation and performing art centers.

## GENERAL DESCRIPTION

The EQ Series was developed to meet the sound industry's need for a high fidelity 8" ceiling loudspeaker system with conventional installation and architectural integrity. Cost-efficient series combines a high performance 8" coaxial loudspeaker with a ported bass reflex ceiling enclosure and choice of flush grilles to achieve professional quality sound reproduction in an attractively packaged distributed ceiling system. Loudspeaker and enclosure were developed as an acoustically matched unit with tuned ports to assure optimum response and system resonance. Square and round grilles are designed to achieve efficient sound transmission, while exhibiting an aesthetically pleasing appearance.

Loudspeaker is comprised of an 8" diameter low frequency driver, a 4" diameter piezo high frequency driver, 18 oz. magnet, 1½" voice coil and choice of three high quality line matching transformers. All loudspeaker components are factory mounted to a subplate and ready for installation. Recessed mounting acoustic enclosure has a volume of ½ cu.ft. and is lined with 1½" thick fiberglass having a 1½ lb./cu. ft. density to provide superior acoustic performance. Enclosure is 11¼" dia. x 8" D (from mounting flange). Two 18 ga. teflon leads exit through the enclosure top for connection in plenum and hardwired systems. Additionally, enclosure is supplied with an unattached, rear mounting, single gang junction box for convenient and efficient connection in conduit systems. Manufactured from 20 ga. CRS, finished in black epoxy. Grilles are manufactured from 22 ga. CRS, finished in white epoxy. Model EQ61 is 13½" diameter. Model EQ164A is 16" square.

Loudspeaker assembly, enclosure, grilles and optional tile bridge are ordered and packaged separately to facilitate grille selection and pre-installation of enclosure in new or existing construction applications. Loudspeaker assembly is designed to mount the EQ818-BX enclosure only. Model EQ818-BX however, will accept any 8" loudspeaker and a variety of standard round and square grilles for applications when enhanced performance of a commercial grade loudspeaker is required.

EQ818 SYSTEM SPECIFICATIONS							LOUDSPEAKER SPECIFICATIONS			
FREQUENCY RESPONSE	IMPEDANCE	POWER RATING	SENSITIVITY	SENSITIVITY WITH 1	DISPERSION ANGLE	SYSTEM RESONANCE	LF REPRODUCER	HF REPRODUCER	MAGNET	V.C. DIAMETER
70 Hz to 20 KHz	8 ohms	50 Watts	93dB	watt input (SPL at 1W / 1M)	120° @ 1 KHz	85Hz	8" (203mm)	4" (102mm) cone type piezo	18 oz. (510g)	1½" (38mm)

Specifications subject to change without notice

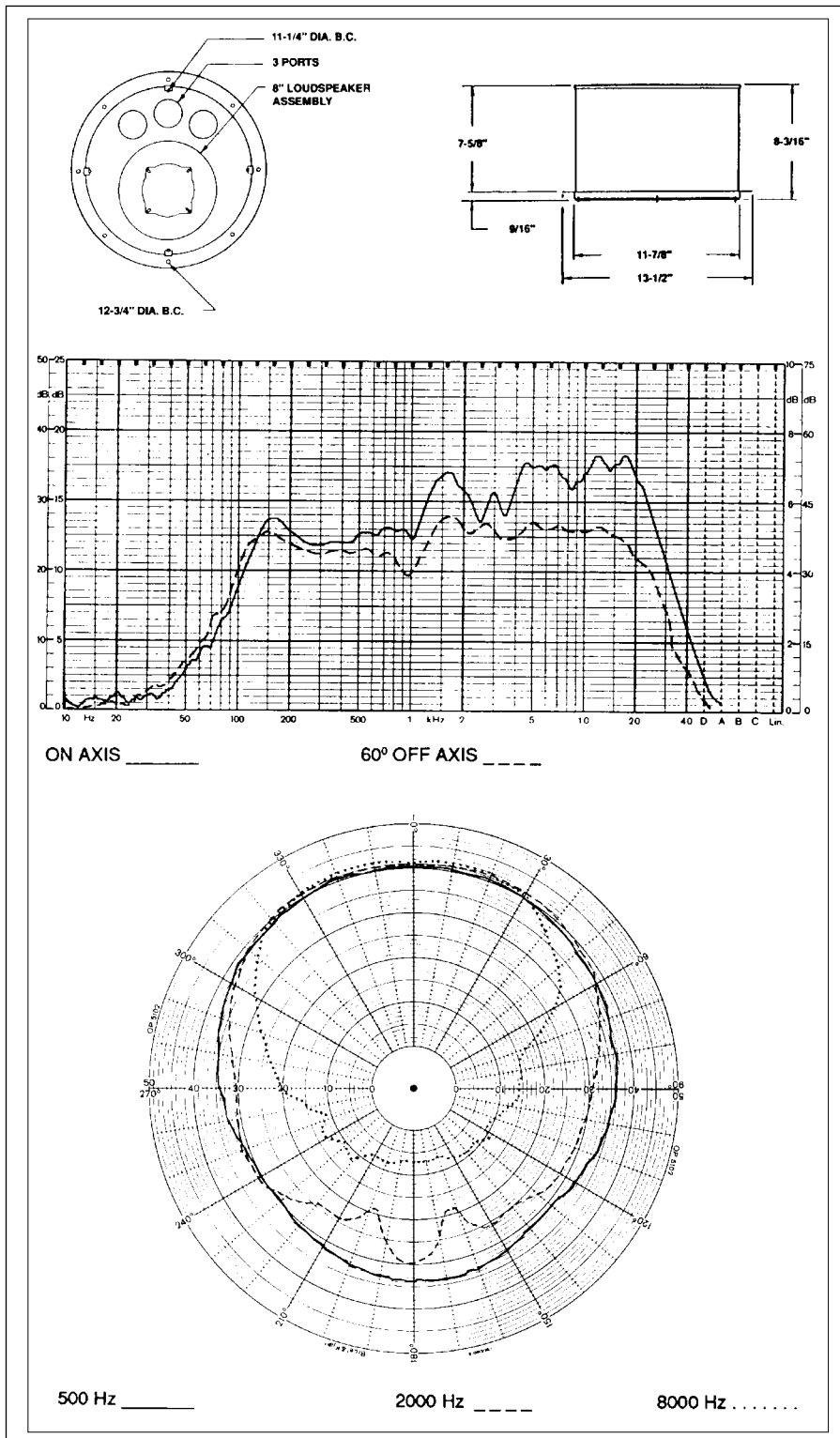


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MODELS WITH XFMR	VOLTS	PRIMARY TAPS	MOUNT ENCLOSURES	MOUNT BAFFLES	OPTIONAL TILE BRIDGE
EQ818-T82	25	1, 2, 4, 8 WATTS	EQ818-BX	EQ61 (ROUND) EQ164 (SQUARE)	EQ81
EQ818-T87	70.7	1, 2, 4, 8 WATTS			
EQ818-T167	70.7	4, 8, 16 WATTS			



## ARCHITECT AND ENGINEER SPECIFICATIONS

The loudspeaker system shall be Atlas Sound EQ Series model \_\_\_\_\_ or approved equal. System shall include a high performance 8" coaxial loudspeaker ported bass reflex enclosure and flush grille for conventional ceiling installation. Frequency response of the system shall be 70 Hz - 20 KHz and the sensitivity shall be 93dB (SPL at 1W / 1M).

Loudspeaker shall be comprised of an 8" (203mm) diameter low frequency driver and a cone type 4" (102mm) diameter piezo high frequency driver. Magnet shall be a minimum of 18 oz. (510 g.) and the voice coil diameter shall be 1 1/2" (38mm). Transformer shall be 25.0 (70.7) volts with 1,2,4 and 8 watt (1,2,4 and 8 or 4,8 and 16 watt) primary taps. Loudspeaker components shall be factory wired and assembled to a subplate which shall have provisions to screw mount ceiling enclosure model EQ818-BX and to accept grille models EQ61 and EQ164A. Loudspeaker hook-up shall be provided via quick connect plugs.

Enclosure shall be a recessed ceiling design and shall have the capability to be installed prior to loudspeaker hook-up. Enclosure shall be acoustically treated with fiberglass lining having a 1 1/2 lb. / cu. ft. density. Protective unit shall be 11 3/4" diameter x 8" D (from mounting flange) and shall include two 18 gauge teflon conductors which exit the rear of enclosure. Construction shall be a minimum of 20 gauge CRS, finished in black epoxy.

Grilles shall be a flush mount installation, manufactured from 22 gauge CRS and finished in white epoxy. Round grille shall be 13 3/8" Diameter. Square grille shall be 16" Square.

Optional tile bridge model EQ81 shall be recommended for suspended tile ceiling applications.

Specifications subject to change without notice



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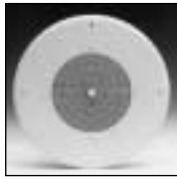
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# PRE-ASSEMBLED 8" LOUDSPEAKER WITH VOLUME CONTROL, TRANSFORMER & BAFFLE

Series  
SV/EZSV  
HV/EZHV

ONE



Front View  
SV1 & HV1  
Series



Rear View  
SV2-72



Front View  
SV2 & HV2  
Series



Front View  
SV5 & HV5  
Series



EZ Series

## FEATURES

- Control Loudspeaker Volume in Individual Office and Zone Areas
- Incorporate or Remove Volume Control Knob to Suit Application Requirements
- Save Installation Time and Expense with Factory-Wired Loudspeaker, Transformer and Baffle Assemblies
- Choose from 15 or 25-Watt Loudspeaker with Pre-Mounted 25V, 70.7V or 25 / 70.7V Transformer
- All Models Include 1" Voice Coil and 10 oz. (HV Series) or 5 oz. (SV Series) Magnets

## APPLICATION

Utilize SV or HV Series loudspeakers in applications where grille-mounted volume control is a desirable feature. Easy-to-adjust knob style potentiometer sets output level so that audio may be heard optimally in work centers with fluctuating ambient noise, including multi-task areas, individual offices, departments and conference areas. Models feature a volume control knob, which can be removed to protect sound level settings from tampering and/or for aesthetic preference.

## GENERAL DESCRIPTION

SV and HV Series are cost effective assemblies that include high-quality 8" loudspeaker, choice of transformer, selection of grilles and 50-ohm potentiometer. The volume control has a 5-watt audio rating and is factory wired to the voice coil. Units are shipped assembled, ready for installation.

SV Series and HV Series loudspeakers feature a conventional cone design with a 1" diameter voice coil to reproduce voice and music with excellent response and superb overall performance. SV Series models have a 15-watt power rating. HV Series models offer a power rating of 25-watts. Both series assemblies meet varying system requirements by offering a choice of pre-mounted 25V, 70.7V, or 25 / 70.7V transformers and baffles.

SV Series and HV Series are also offered with Atlas Sound's exclusive EZ Mount System which is designed for use in standard 2 X 4 lay-in ceiling installations where back boxes are not required. All EZ Mount models feature pre-mounted loudspeaker brackets which accept EZ Mount System support rails. Rails slide through the brackets and secure with phillips screws.

SV AND HV SERIES LOUDSPEAKER, TRANSFORMER and BAFFLE ASSEMBLIES									
SPEAKER/TRANSFORMER MODEL		POWER (WATTS)	NET WT. (LBS/KG)	INCLUDES		RECOMMENDED			
25V	70.7V			25 / 70.7V	BAFFLE	STYLE	ENCLOSURE	MTG RING	BRIDGE
SV1-2	SV1-7	SV1-72	15	2.9 / 1.3	51-8	Round, CRS White	(EZ)95 Series, (EZ)96 Series, 199-8, Q408	75-8(E1)(E2), 76-8(E1)(E2), P77-8, P78-8	81-8R(S)
HV1-2	HV1-7	HV1-72	25	3.6 / 1.6	60-8	Round, Alum. Satin			
—	HV2-7	HV2-72	25	3.3 / 1.5	60-8	—			
EZSV1-2	EZSV1-7	EZSV1-72	15	3.6 / 1.6	T51-8	Round, CRS White	Do Not Accept Enclosures		
—	EZHV1-7	EZHV1-72	25	4.3 / 2.0	T51-8	—			

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## SV SERIES AND HV SERIES BAFFLES — 51-8, T51-8 (EZ MOUNT VERSIONS ONLY), 60-8 & P900

System baffles offer diverse styling to accommodate a variety of applications and are compatible with listed mounting accessories. Units provide practical and efficient performance and are aesthetically pleasing in both size and overall appearance. All baffles are round (12<sup>3</sup>/<sub>4</sub>" Dia.) one-piece units constructed of CRS, plastic, or aluminum, with white or satin finish as noted.

**51-8.** This economical industry favorite is sturdy CRS construction with stamped perforations and textured white epoxy finish. Model 51-8 is part of the SV1 and HV1 Series assembly.

**T51-8.** Torsion spring model T51-8 is identical to the standard 51-8 less the four baffle mounting holes. Model T51-8 is part of the EZSV1 and EZHV1 Series assembly.

**60-8.** Popular aluminum baffle features stamped perforations and a beautiful clear satin finish. It is part of the SV2 and HV2 Series family.

**P900.** The acoustical louvered design of the P900 allows for maximum sound transmission and dispersion. The white-finished baffle features standard screw-mount installation and is molded from high-impact polystyrene plastic. It is part of the SV5 and HV5 Series assembly.

### LOUDSPEAKER SPECIFICATIONS

MODEL SERIES	SPEAKER SIZE*	POWER RATING	FREQUENCY RESPONSE	SENSITIVITY	MAGNET (Ceramic)	V.C. DIAMETER	V.C. IMPEDANCE	FLUX DENSITY
SV	8" (203mm)	15 Watts	50 Hz - 15 kHz	96dB	5 Oz. (142g.)	1" (25 mm)	8 Ohms	9,200 Gauss
HV	8" (203mm)	25 Watts	45 Hz - 19 kHz	97dB	10 Oz. (283g.)	1" (25 mm)	8 Ohms	10,000 Gauss

\* Minimum Mounting Requirements for SV and HV Series: 8<sup>1</sup>/<sub>4</sub>" Dia. x 2<sup>1</sup>/<sub>8</sub>" Deep

### TRANSFORMER SPECIFICATIONS

PRIMARY VOLTS	FREQUENCY RESPONSE +1.5dB	PRIMARY TAPS	SECONDARY IMPEDANCE	INSERTION LOSS	TERMINATIONS	CORE SIZE	POWER RATING
25	100 Hz - 10 kHz	½, 1, 2, 5	8 Ohms	1.5dB	6" Color Coded	½" x ¾" (13 x 16mm)	5 Watts
70.7		½, 1, 2, 5					5 Watts
25 / 70.7		½, 1, 2, 4					4 Watts

### ARCHITECT AND ENGINEER SPECIFICATIONS

The loudspeaker, transformer, baffle assembly shall be Atlas Sound SV, EZSV Series or HV, EZHV Series Model \_\_\_\_\_ or approved equal. The loudspeaker shall be an 8" (203mm) cone type with frequency response of \_\_\_\_\_ and a power rating of \_\_\_\_\_ watts. It shall be equipped with factory wired \_\_\_\_\_ (25, 70.7 or 25 / 70.7) volt transformer, 50 ohm potentiometer (rated at 5 watts) and recessed grille. The 12<sup>3</sup>/<sub>4</sub>" diameter baffle shall be \_\_\_\_\_ (CRS,

aluminum, or plastic) construction. SV and HV Series assemblies shall mount to optional Model \_\_\_\_\_ enclosure or mounting ring and optional tile bridge model \_\_\_\_\_. EZ Series assemblies shall be used for applications where enclosures are not required. EZ Series shall mount using factory-installed brackets, wing nuts and adjustable rails which transfer assembly weight to the grid system of a 2 X 4 lay-in ceiling.

*Specifications subject to change without notice*



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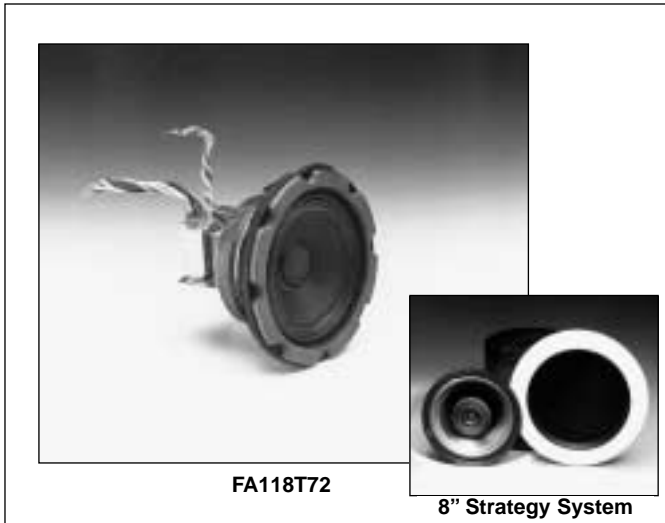
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# STRATEGY SERIES™ 8" SYSTEM LOUSPEAKERS

FA118  
Series

ONE



FA118T72

8" Strategy System

### SPECIFICATIONS

- Size:** 8" (203mm)
  - \*Power Handling:** 25 Watts Peak, 15 Watts RMS
  - \*Sensitivity:** 98.5dB Peak, 95dB Average
  - Impedance:** 8 Ohms Nominal, 8 Ohms Minimum
  - \*Frequency Response:** 80 Hz-18 kHz Nominal, 150 Hz-18 kHz  $\pm$ 5dB
  - \*Dispersion:** 100° (2 kHz Octave Band, -6dB Points)
  - Diameter & Depth:** 8.125" (206mm) 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. (264g)
  - 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)
- (\*Measured in FA97-8 Enclosure)

### THIELE-SMALL PARAMETERS

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

### FEATURES

- 25-Watt, 8" Loudspeaker System Delivers Efficient Frequency Response
- Performance Sensitivity Offers Enhanced Audio Clarity
- Patented System Design Provides Easy Installation
- Loudspeaker Conveniently Front Loads into Acoustically-Matched Enclosure, Plaster or Trim Ring
- System Components Include: Transformers, Acoustic Enclosures, Tile Bridge, Plaster Ring, Trim Ring and Hardware-Free Grilles

### APPLICATIONS

Model FA118 is part of the patented (U.S. #5206464) Strategy Series loudspeaker system. It is a 25-watt, 8" driver that mounts within Strategy Series hardware to deliver quality sound reproduction in an economical, attractive and easy-to-install package. The FA118 loudspeaker is ideal for paging, background music and signal reproduction in all types of commercial, industrial and institutional applications. It is ideally suited for installation in moderately-high ceiling situations where enhanced sound pressure level is required.

### GENERAL DESCRIPTION

Model FA118 is the Strategy Series® general purpose, 8" loudspeaker. It provides 25 watts with smooth, extended low-end response.

For optimum performance and application versatility, Model FA118 has been engineered as a system with matched enclosures, choice of transformer and selection of attractive grilles. System enclosures include the FA97-8 Series high performance (.25 ft.<sup>3</sup>) enclosures with acoustic batting as well as the economy, FA95-8 Series (.20 ft.<sup>3</sup>). Both install quickly and easily into the ceiling using only a screwdriver to adjust the rotating clamps, or to tighten conventional screws.

System response is 80 Hz to 18 kHz with a sensitivity of 98.5dB.

Loudspeakers front-load into the enclosure and include a sealing gasket on the back return of the speaker basket to seal the fit and extend the loudspeaker's low frequency performance.

Loudspeakers may also be wall or ceiling mounted into areas with minimum depth by using plaster ring Model FAPR-8 instead of an enclosure.

Baffle selection includes a choice of four attractive grilles which are equipped with three serrated studs for hardware-free, push-on installation. For detailed information on enclosures, grilles, hardware and other system accessories, please refer to SL1-1513.

MODEL	INCLUDES XFMR			MOUNTS ENCLOSURE	MOUNTS GRILLE	OPTIONAL ACCESSORIES
	MODEL	VOLTS	PRIMARY TAPS			
★ FA118	—	—	—	FA97-8(NK)* FA95-8(NK)*	FA51-8 (11 1/8" Dia. Round) FA170-8 (11 1/4" Square) FA720-8 (11 1/8" Dia. Round) FA730-8 (11 1/8" Dia. Round)	FA81-8 (Tile Bridge) FAPR-8 (Plaster Ring) FA-TR8 (Trim Ring)
★ FA118T72	LT-72	25/70.7	.5, 1, 2 & 4	(*Without Knockouts)		

★ General signaling (1480 non-fire) includes all speaker/transformer combinations (except HT-82) when used with an Atlas Sound UL listed enclosure and baffle.

Specifications subject to change without notice



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# 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



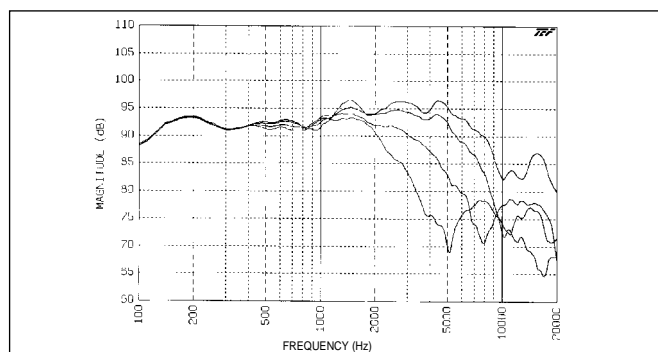
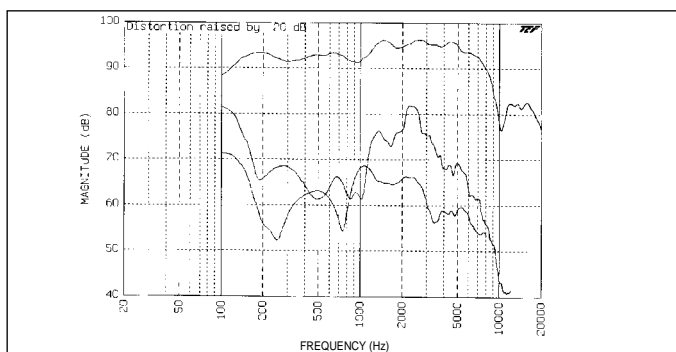
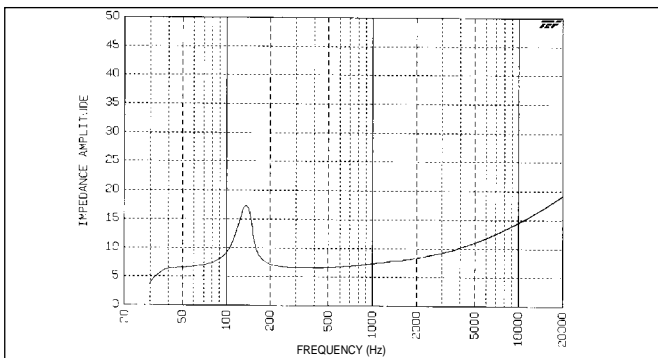
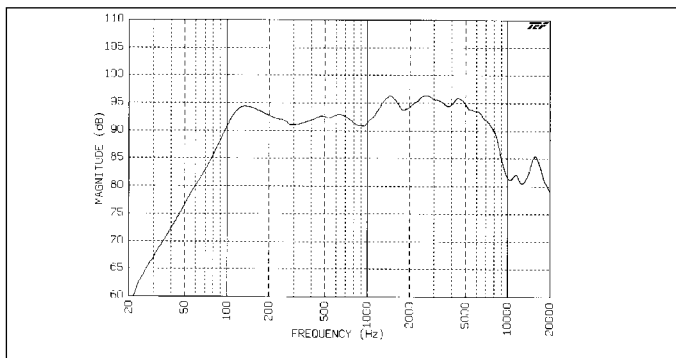
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## ARCHITECT & ENGINEER SPECIFICATIONS

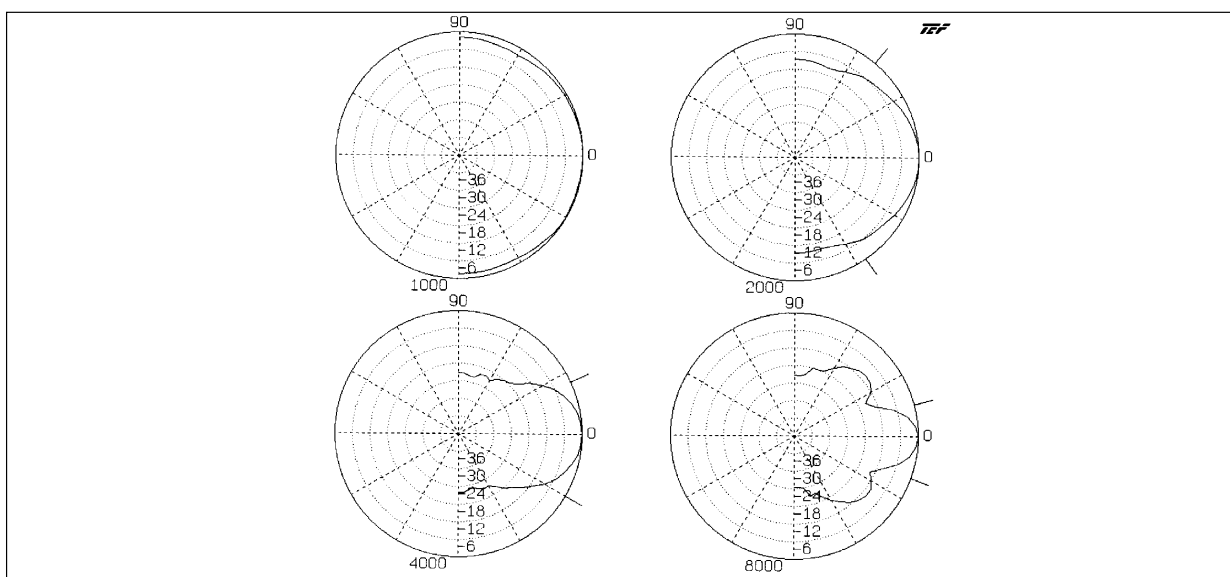
Unit shall be Atlas Sound 8" loudspeaker Model \_\_\_\_\_ or loudspeaker/transformer combination Model \_\_\_\_\_ (utilizing line-matching transformer Model \_\_\_\_\_). It shall have a (5 oz.) ceramic magnet and a seamless cone. Frequency response range shall be \_\_\_\_\_. Sensitivity shall be \_\_\_\_\_.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

*Specifications subject to change without notice*



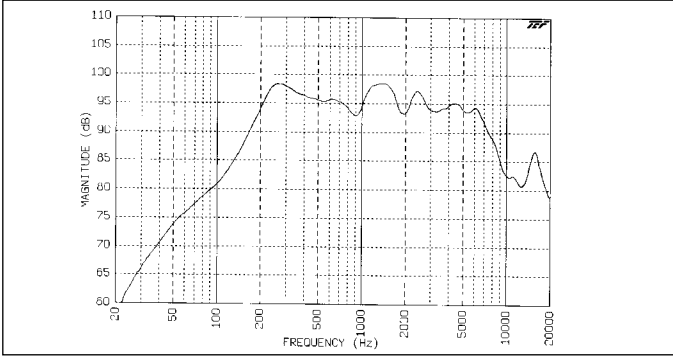
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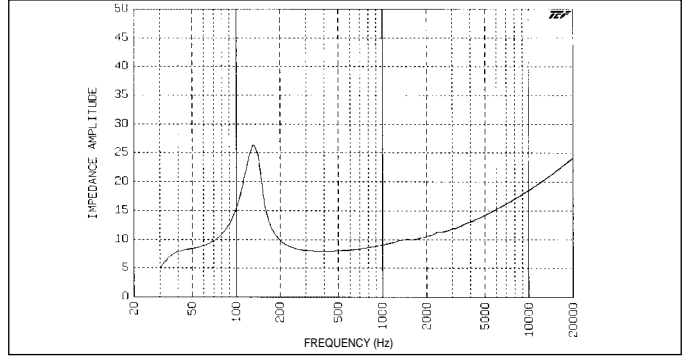
## ARCHITECT AND ENGINEER SPECIFICATIONS

Loudspeaker system shall be Atlas Sound Strategy Series™. It shall include a high-compliance, 8" loudspeaker Model FA118, matched enclosure Model \_\_\_\_ (FA97-8, FA97-8NK, FA95-8, FA95-8NK) and flush grille Model \_\_\_\_ (FA51-8, FA170-8, FA720-8, FA730-8). Frequency response of the system shall be 80 Hz to 18 kHz with a sensitivity of 98.5dB measured at 1W / 1M across the full bandwidth. Power rating shall be 25 watts. Unit shall be comprised of an 8" dia. low frequency driver, 10 oz. magnet and 1" diameter voice coil. Dispersion shall be

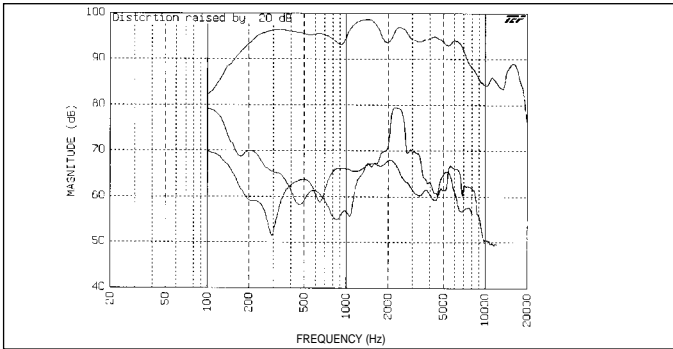
100° (at -6dB, 2kHz Octave Band). Transformer equipped models shall include factory wired \_\_\_\_ (25 or 70.7) volt transformer with primary taps of \_\_\_\_ (.5, 1, 2 & 4, or .5, 1, 2 & 5). Loudspeaker shall front-load to specified enclosure model FA97-8(NK) or FA95-8(NK), or Model FAPR-8 plaster ring. Strategy Series enclosures shall install using clamping dogs and shall include stud receivers for grille mounting. The FA97 enclosure shall be lined with high density acoustic batting..



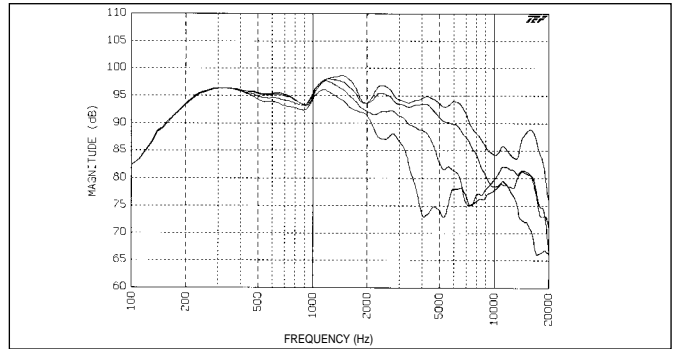
**FA118 : Frequency Response (Measured in FA97-8 Enclosure)**



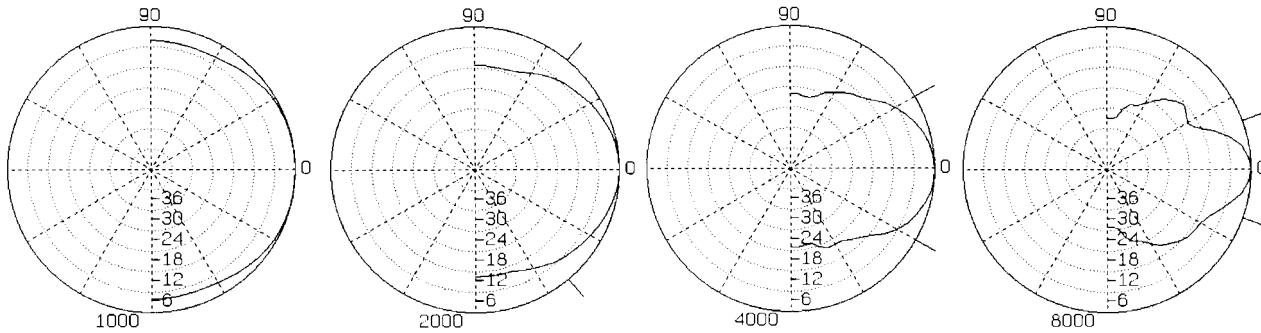
**FA118: Impedance**



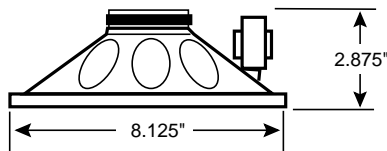
**FA118 : Fundamental vs 2nd & 3rd Harmonics (Raised 20dB) @ 1 watt (Measured in FA97-8 Enclosure)**



**FA118: Frequency Response Overlay at 0, 15, 30 & 45 degrees (Measured in FA97-8 Enclosure)**



**Octave Bands Normalized to Zero On Axis (Measured in FA97-8 Enclosure)**



*Specifications subject to change without notice*



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