



AMERICAN STANDARD SERIES

ALPHA-15A

Recommended for professional audio and bass guitar applications as a woofer in a vented or sealed enclosure.



SPECIFICATION

Nominal Basket Diameter	15.0", 381 mm
Nominal Impedance*	8 Ω
Power Rating**	
Watts	200 W
Music Program	400 W
Resonance	41 Hz
Usable Frequency Range	46 Hz – 3.5 kHz
Sensitivity***	97.0 dB
Magnet Weight	20 oz.
Gap Height	.250", 6.4 mm
Voice Coil Diameter	1.5", 38 mm

THIELE & SMALL PARAMETERS*

Fs	41 Hz
Re	5.88 Ω
Le	0.84 mH
Qms	7.23
Qes	1.53
Qts	1.26
Vas	9.18 cu.ft., 260.00 liters
Vd	325.0 cc
Cms	0.25 mm/N
BL	7.70 T-M
Mms	59 grams
EBP	27
Xmax	3.80 mm
Sd	856.3 cm ²
Xlim	8.4 mm

MOUNTING INFORMATION

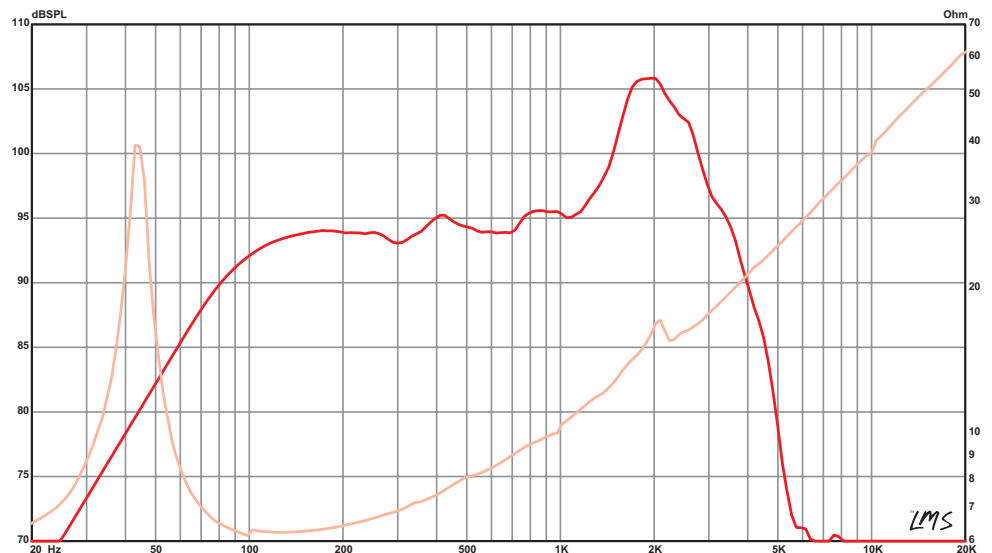
Recommended Enclosure Volume	
Sealed	71.00–85.00 liters, 2.50–3.00 cu.ft.
Vented	106.00–177.00 liters, 3.75–6.25 cu.ft.
Driver Volume Displaced	0.113 cu.ft., 3.21 liters
Overall Diameter	15.15", 384.8 mm
Baffle Hole Diameter	13.87", 352.3 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25", 6.4 mm
Mounting Holes B.C.D.	14.56", 369.8 mm
Depth	5.83", 148.1 mm
Net Weight	6.70 lbs , 3.04 kg
Shipping Weight	8.80 lbs , 3.99 kg

MATERIALS OF CONSTRUCTION

- _____ Copper voice coil
- _____ Polyimide former
- _____ Ferrite magnet
- _____ Vented and extended core
- _____ Pressed steel basket
- _____ Paper cone
- _____ Cloth cone edge
- _____ Solid composition paper dust cap



FREQUENCY RESPONSE & IMPEDANCE CURVE*



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From design and manufacturing to the stage or studio. Once you've experienced the performance of Eminence, you'll never accept anything else.

MISSION STATEMENT

Eminence is dedicated to providing the best Quality, Value and Service to meet our customers' needs.

FOOTNOTES

- * Please consult www.eminence.com for specifications of models with alternative impedances.
- ** Multiple units exceed published ratings evaluated under EIA 426A specification while tested in a free-air, non-temperature-controlled environment.
- *** The average output across the usable frequency range when applying 1W/1m into the nominal impedance. i.e: 2.83V/8Ω, 4V/16Ω. Eminence response curves are measured under the following conditions: All speakers are tested at 1W/1m using a variety of test set-ups for the appropriate impedance | LMS using 0.25" supplied microphone (software calibrated) mounted 1m from wall/baffle | 2 ft. x 2 ft. baffle is built into the wall with the speaker mounted flush against a steel ring for minimum diffraction | Carver PM-120 amplifier | 2700 cu. ft. chamber with fiberglass on all six surfaces (three with custom-made wedges).
- **** BETA 8CX, 10CX, and 12CX are coaxial speakers with tweeter sold separately. Published usable frequency response contingent upon use of ASD:1001 HF Driver.
- ***** Multiple units exceeded published ratings evaluated under EIA-426A or AES specification while mounted on Eminence's H290, H290S, or H2EA horn in a non-temperature-controlled environment.
- *****The average on axis output across the entire usable frequency range when applying 1W/1m into the nominal impedance, i.e. 2.83V/8Ω, 4V/16Ω. Eminence response curves are measured under the following conditions: All speakers are tested at 1W/1m using a variety of test set-ups for the appropriate impedance | LMS using 0.25" supplied microphone (software calibrated) mounted 1m from wall/baffle | 2ft x 2ft baffle is built into the wall with horn front mounted | Carver PM-120 amplifier | 2700 cu.ft. chamber with fiberglass on all six surfaces (three with custom-made wedges).

Prices, specifications and product cosmetics are subject to change without notice.

EMINENCE SPEAKER LLC

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Alpha15A Large Vented Enclosure

By Jerry McNutt, Eminence Speaker LLC
100 Watt Displacement Limited; F3 46 Hz
Will Require EQ to Flatten out.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 6 cu.ft

V(total) = 6.136 cu.ft

Fb = 55 Hz

QL = 7

F3 = 45.9 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 5.468 in

Lv = 0.75 in

Driver Properties

--Description--

Name: Alpha-15

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised OCT 2005

Piston: Ribbed paper cone.

Suspension: Cloth surround.

Dust Cap: Solid paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 1.5 inch (38.1 mm) copper.

Magnet: 25 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 41 Hz

Qms = 7.23

Vas = 260 liters

Xmax = 3.8 mm

Sd = 856.3 sq.cm

Qes = 1.53

Re = 5.88 ohms

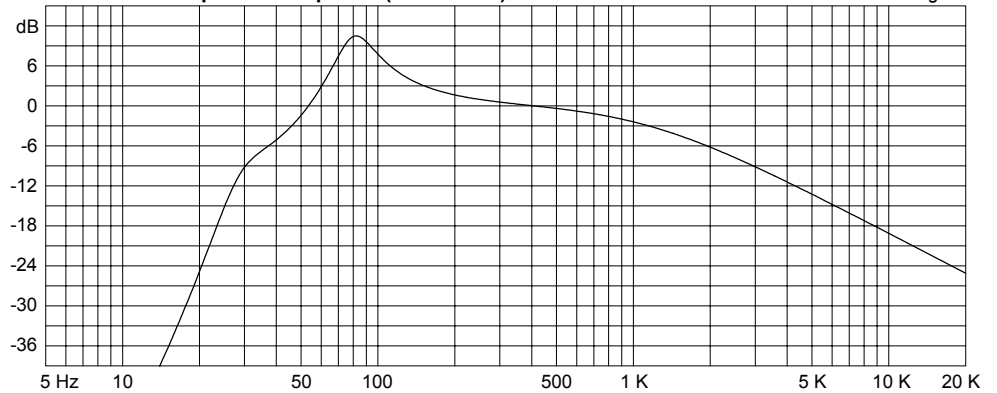
Le = 0.84 mH

Z = 8 ohms

Pe = 200 watts

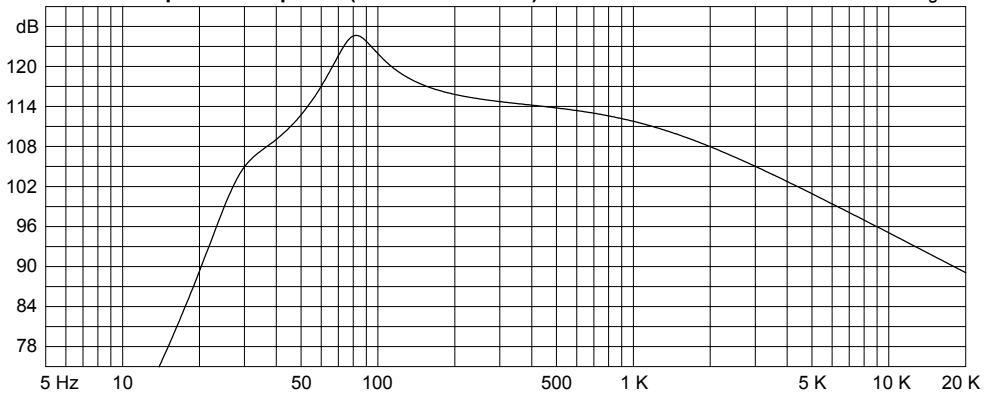
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



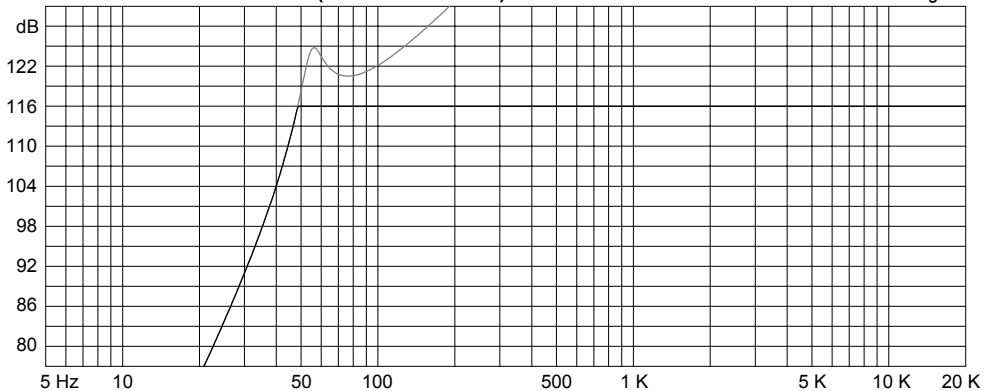
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 100 watts

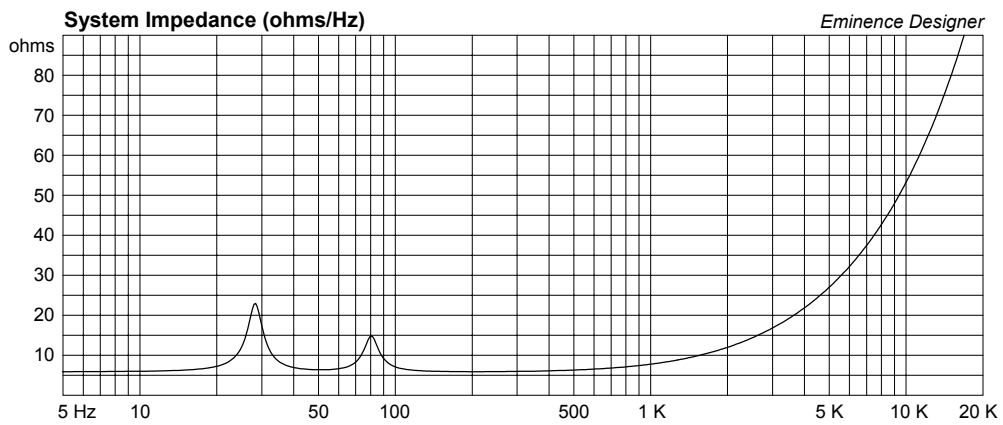
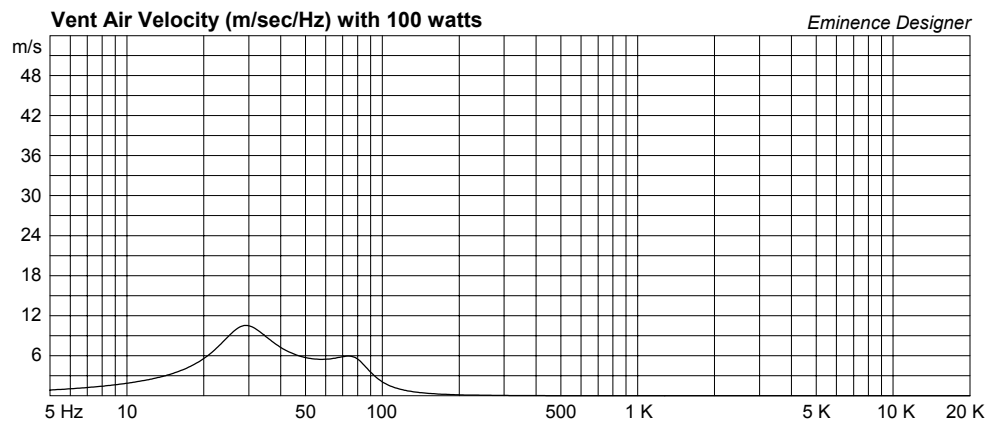
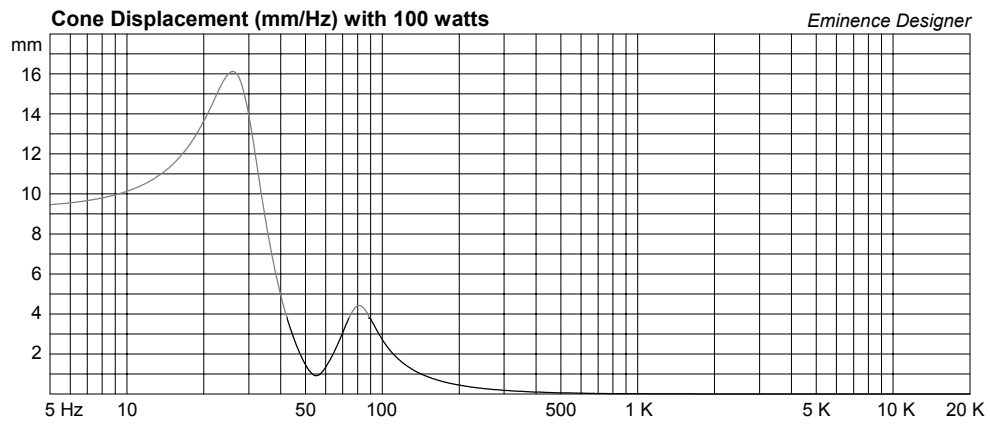
Eminence Designer



Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer





Alpha15A Med Vented Enclosure

By Jerry McNutt, Eminence Speaker LLC

100 Watt Displacement Limit; F3 55 Hz. Will Require EQ to Flatten Out.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 3.75 cu.ft

V(total) = 3.876 cu.ft

Fb = 55 Hz

QL = 7

F3 = 55.12 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 5.817 in

Lv = 0.75 in

Driver Properties

--Description--

Name: Alpha-15

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised OCT 2005

Piston: Ribbed paper cone.

Suspension: Cloth surround.

Dust Cap: Solid paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 1.5 inch (38.1 mm) copper.

Magnet: 25 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 41 Hz

Qms = 7.23

Vas = 260 liters

Xmax = 3.8 mm

Sd = 856.3 sq.cm

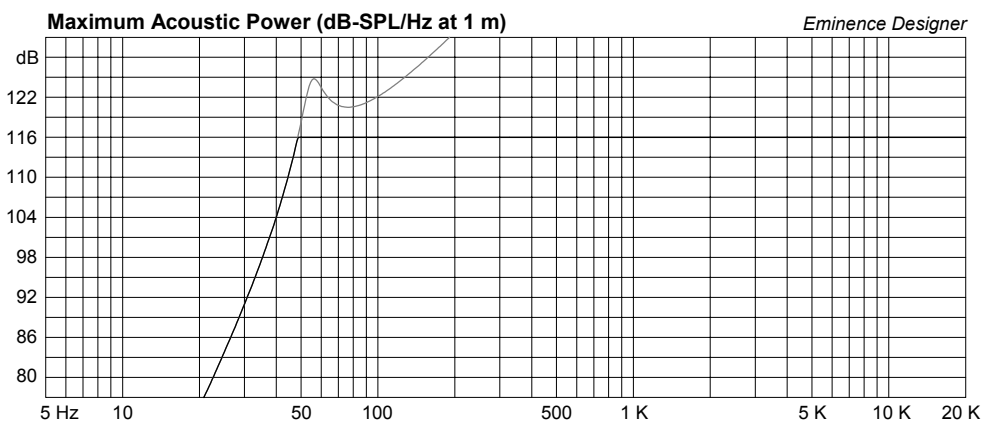
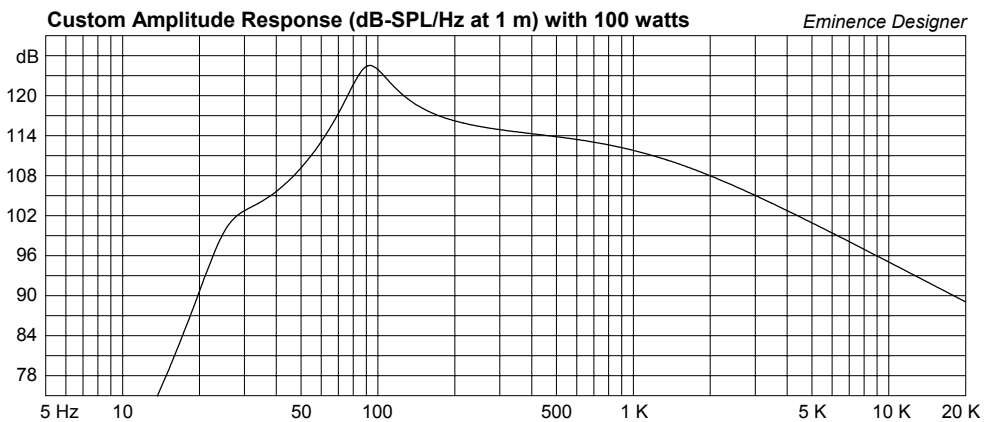
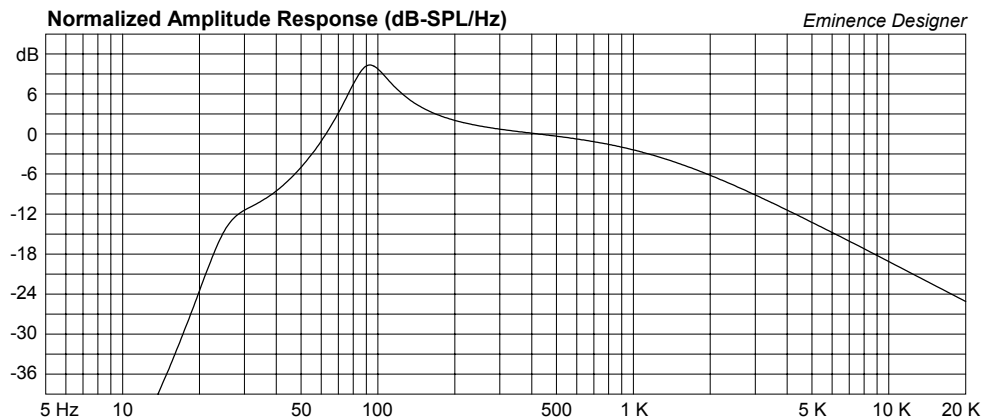
Qes = 1.53

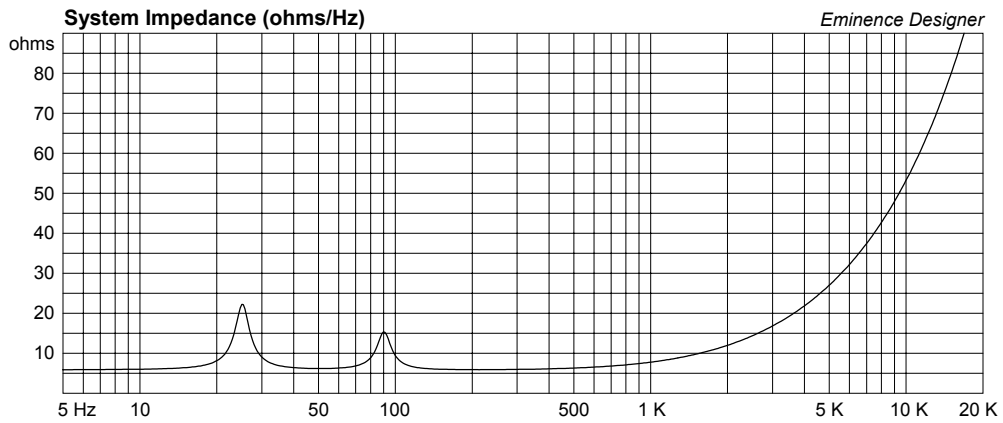
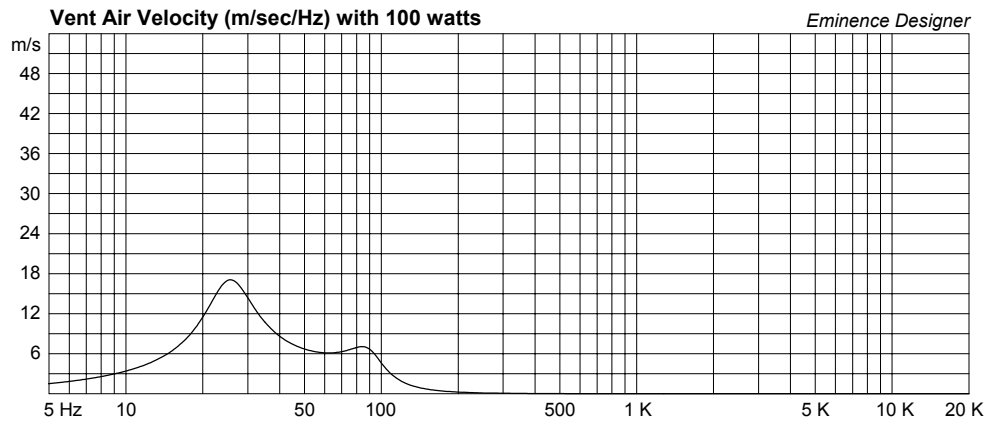
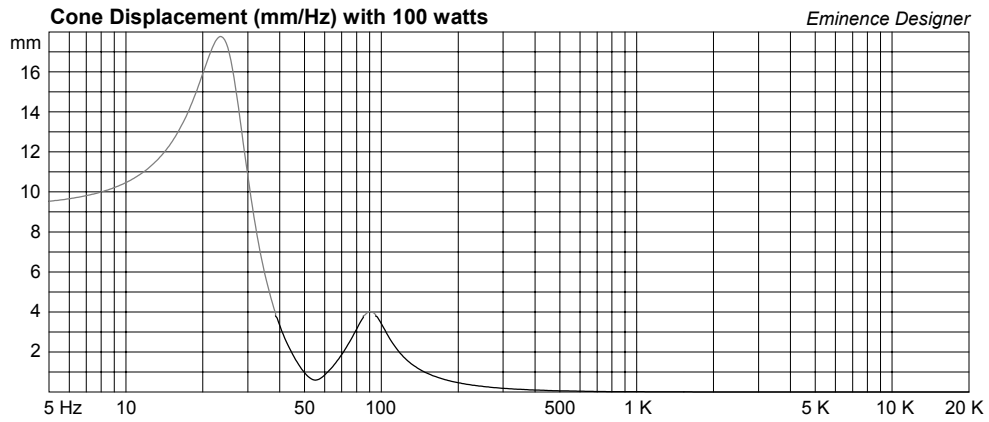
Re = 5.88 ohms

Le = 0.84 mH

Z = 8 ohms

Pe = 200 watts





Alpha15A Sealed Bass Guitar/ FR Enclosure

By Jerry McNutt, Eminence Speaker LLC

100 Watt Displacement Limit; F3 57 Hz. Will Require EQ to Flatten out.

Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 2.716 cu.ft

V(total) = 2.829 cu.ft

Qtc = 1.5

QL = 16.54

F3 = 56.93 Hz

Fill = heavy

Driver Properties

--Description--

Name: Alpha-15

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised OCT 2005

Piston: Ribbed paper cone.

Suspension: Cloth surround.

Dust Cap: Solid paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 1.5 inch (38.1 mm) copper.

Magnet: 25 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 41 Hz

Qms = 7.23

Vas = 260 liters

Xmax = 3.8 mm

Sd = 856.3 sq.cm

Qes = 1.53

Re = 5.88 ohms

Le = 0.84 mH

Z = 8 ohms

Pe = 200 watts

