



AMERICAN STANDARD SERIES

DELTA-12LFA

Low frequency woofer for pro audio mid-bass or floor monitor applications in a sealed enclosure. Also suitable as a woofer in vented, bass guitar or PA enclosures in vented, bass guitar or PA enclosures.



SPECIFICATION

Nominal Basket Diameter	12.0", 305 mm
Nominal Impedance*	8 Ω
Power Rating**	
Watts	500 W
Music Program	1000 W
Resonance	51 Hz
Usable Frequency Range	44 Hz – 3.0 kHz
Sensitivity***	94.6 dB
Magnet Weight	56 oz.
Gap Height	.375", 9.5 mm
Voice Coil Diameter	2.5", 64 mm

THIELE & SMALL PARAMETERS*

Fs	51 Hz
Re	6.06 Ω
Le	1.45 mH
Qms	7.28
Qes	0.51
Qts	0.47
Vas	2.40 cu.ft., 67.90 liters
Vd	243.0 cc
Cms	0.19 mm/N
BL	14.10 T-M
Mms	51 grams
EBP	100
Xmax	4.80 mm
Sd	506.7 cm ²
Xlim	13.5 mm

MOUNTING INFORMATION

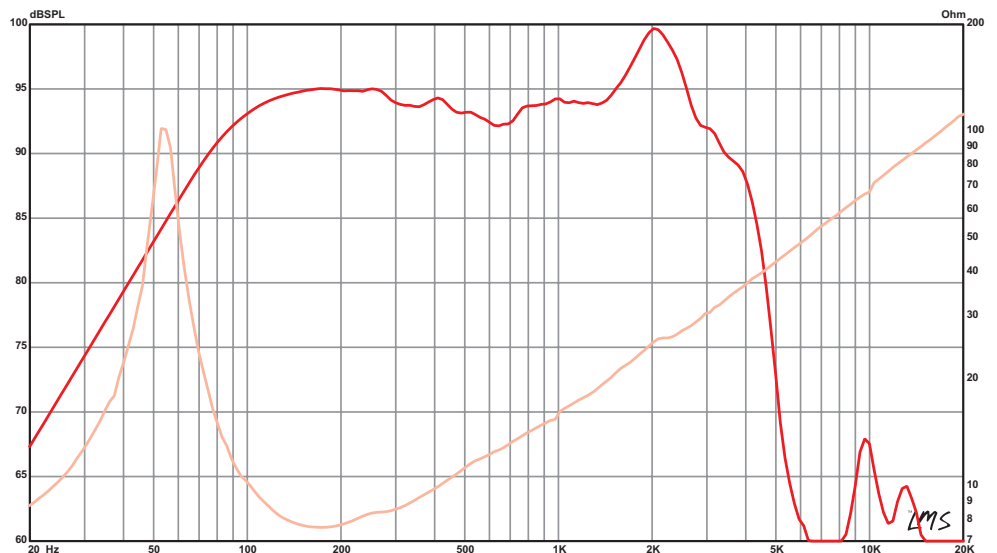
Recommended Enclosure Volume	
Sealed	19.80–28.00 liters, 0.70–1.00 cu.ft.
Vented	25.50–102.00 liters, 0.90–3.60 cu.ft.
Driver Volume Displaced	0.079 cu.ft., 2.25 liters
Overall Diameter	12.03", 305.6 mm
Baffle Hole Diameter	11.07", 281.2 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.25", 6.4 mm
Mounting Holes B.C.D.	11.59", 294.4 mm
Depth	5.35", 135.9 mm
Net Weight	11.80 lbs, 5.35 kg
Shipping Weight	14.00 lbs, 6.35 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

838 Mulberry Pike, Eminence, KY 40019



Delta12LF Large Vented Cab, Low Fs, Deep Bass, Low Power

By McJerry, Eminence Speaker LLC

Displacement Limited to 125 Watts; F3 of 44 Hz. Use a steep high pass filter set to 35 Hz to protect driver from overexcursion.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 3.275 cu.ft

V(total) = 3.529 cu.ft

Fb = 41.42 Hz

QL = 7

F3 = 43.87 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 7.778 in

Driver Properties

--Description--

Name: Delta-12LF

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Updated NOV 2005

Piston: Paper cone.

Suspension: M-roll cloth surround.

Dust Cap: Solid paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 2.5 inch (63.5 mm) copper.

Magnet: 56 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 51 Hz

Qms = 7.28

Vas = 67.88 liters

Xmax = 4.8 mm

Sd = 506.7 sq.cm

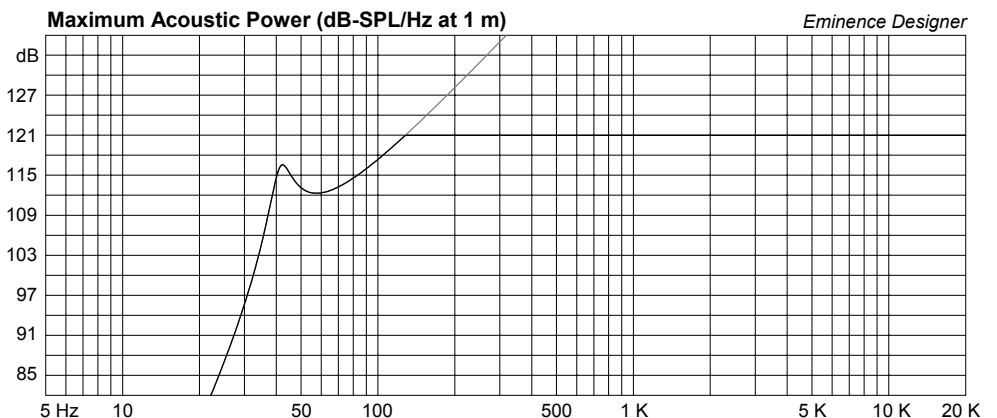
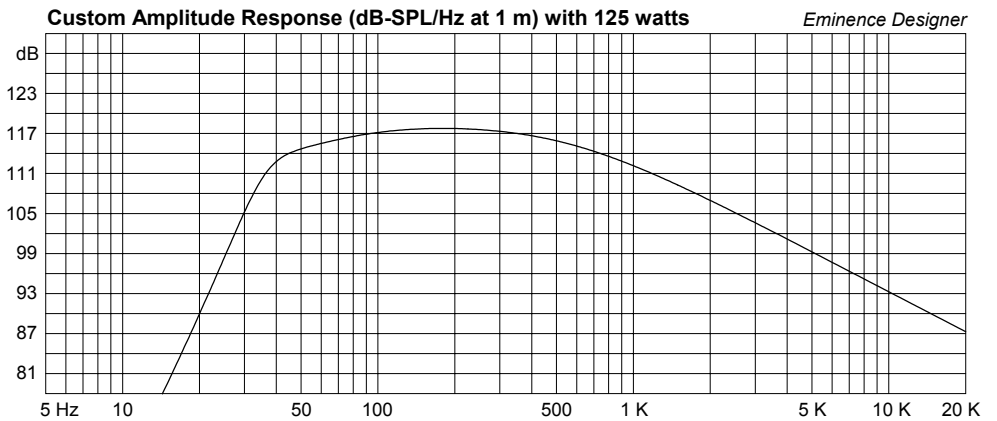
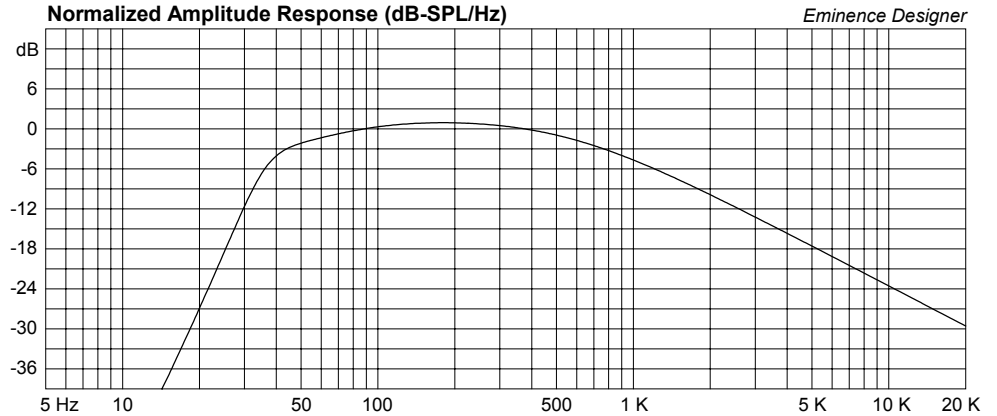
Qes = 0.51

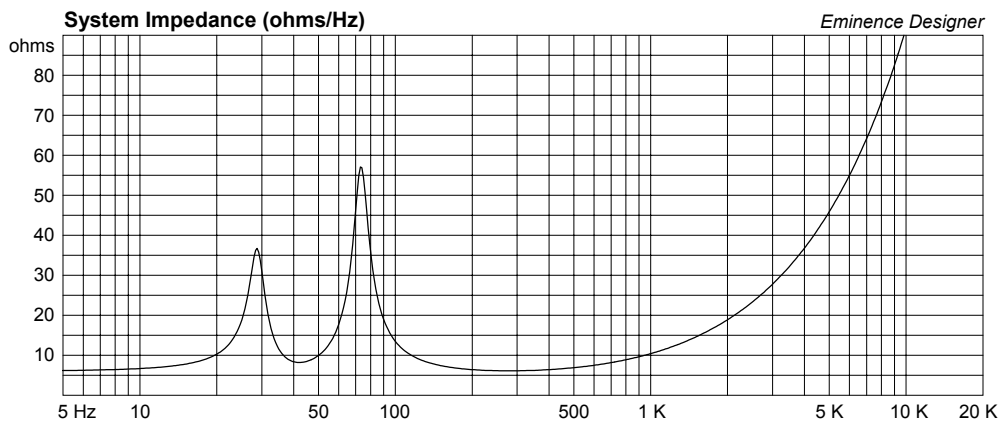
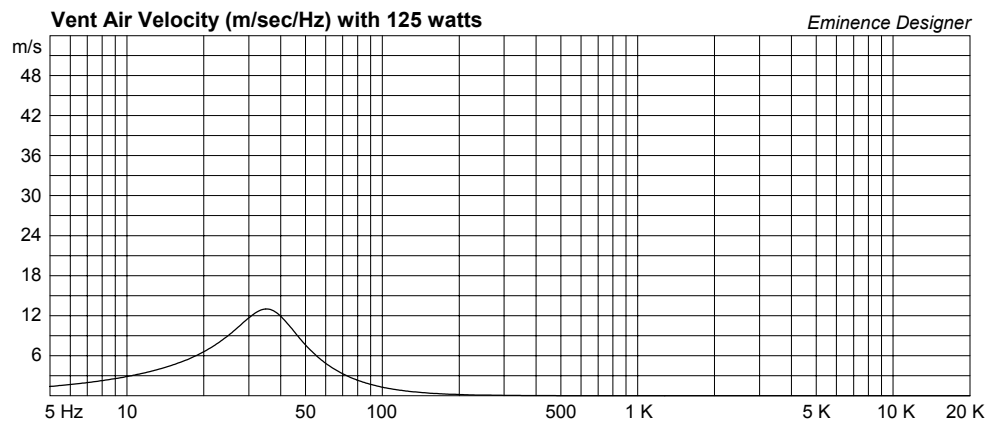
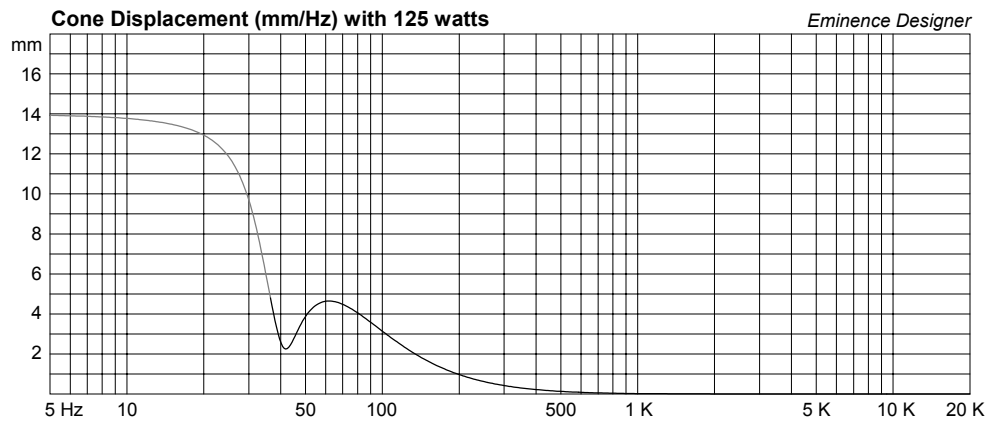
Re = 6.06 ohms

Le = 1.45 mH

Z = 8 ohms

Pe = 500 watts





Delta12LF Medium Vented Cab, Bass Guitar, or Med. Pwr Two-Way

By McJerry, Eminence Speaker LLC

Displacement Limited to 200 Watts; F3 of 48 Hz. Use a steep high pass set to 40 Hz to protect driver from overexcursion. For Bass Guitar or Great two-way box.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 2.5 cu.ft

V(total) = 2.733 cu.ft

Fb = 50 Hz

QL = 7

F3 = 48.33 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 6.515 in

Driver Properties

--Description--

Name: Delta-12LF

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Updated NOV 2005

Piston: Paper cone.

Suspension: M-roll cloth surround.

Dust Cap: Solid paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 2.5 inch (63.5 mm) copper.

Magnet: 56 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 51 Hz

Qms = 7.28

Vas = 67.88 liters

Xmax = 4.8 mm

Sd = 506.7 sq.cm

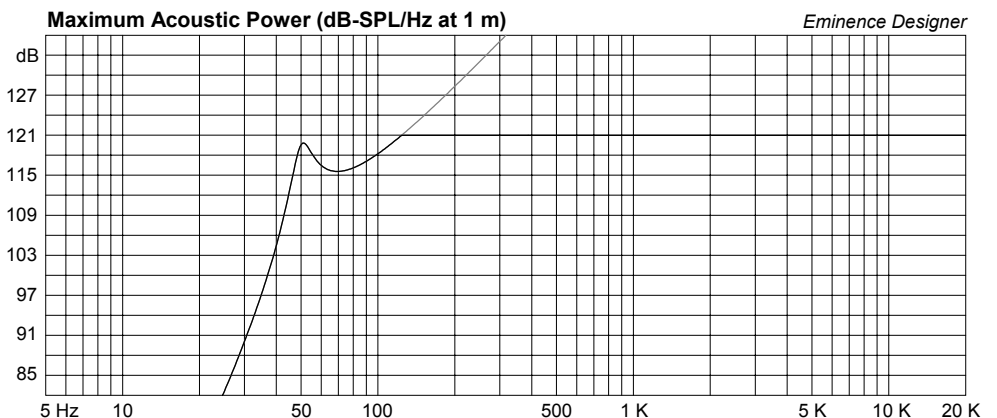
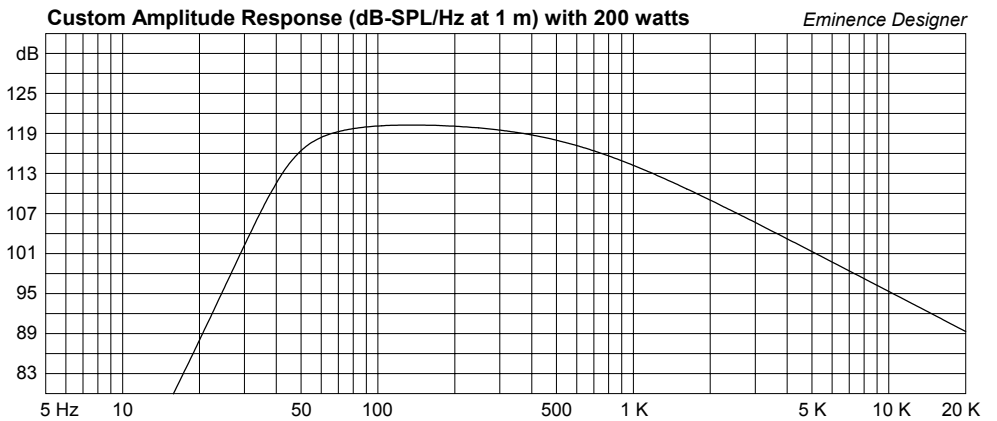
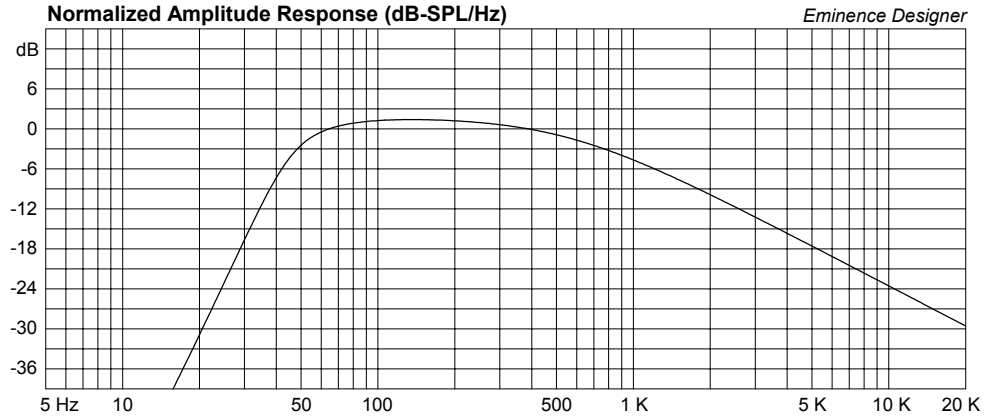
Qes = 0.51

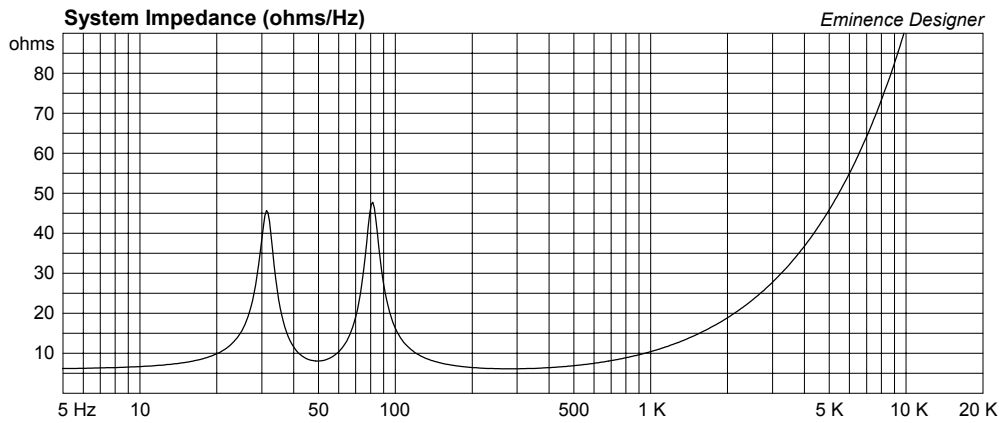
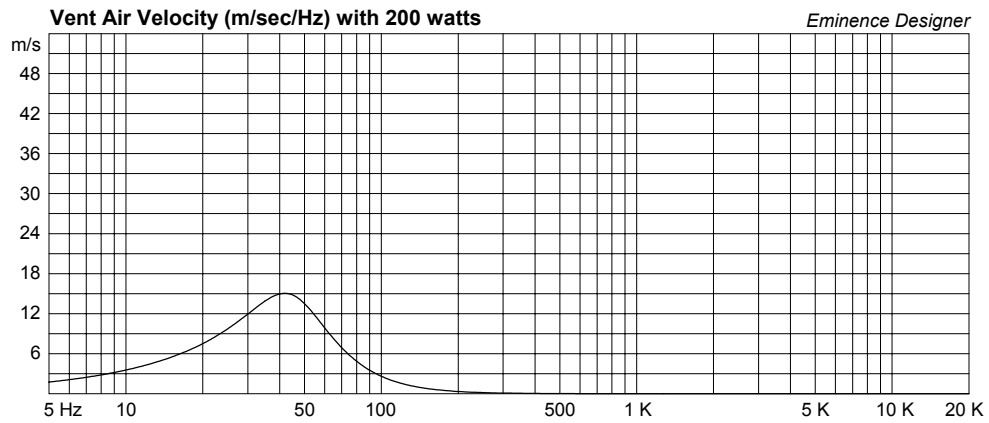
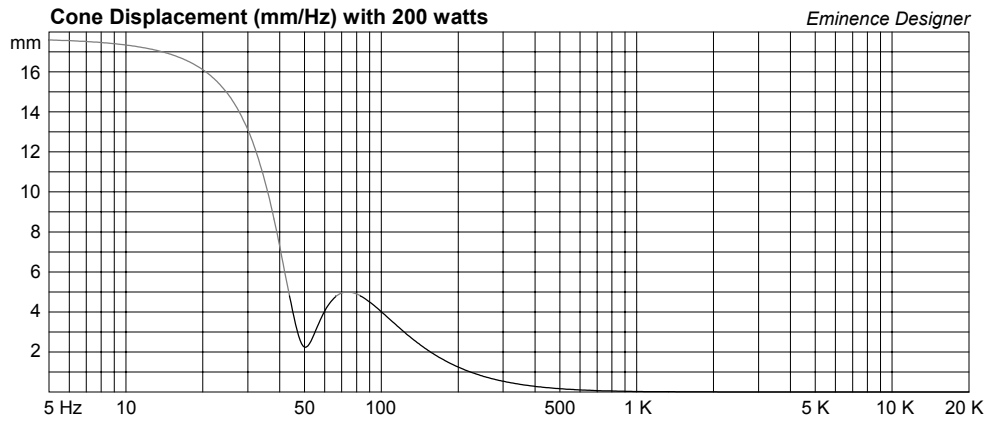
Re = 6.06 ohms

Le = 1.45 mH

Z = 8 ohms

Pe = 500 watts





Delta12LF Small Sealed Cabinet, High Power Sat, or Floor Mon.

By McJerry, Eminence Speaker LLC

Limited to 400 Watts; use a steep high pass filter set to 150 Hz or higher.

Great for a mid/high sat or a floor wedge.

Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 0.66 cu.ft

V(total) = 0.786 cu.ft

Qtc = 0.763

QL = 20

F3 = 97.12 Hz

Fill = heavy

Driver Properties

--Description--

Name: Delta-12LF

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Updated NOV 2005

Piston: Paper cone.

Suspension: M-roll cloth surround.

Dust Cap: Solid paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 2.5 inch (63.5 mm) copper.

Magnet: 56 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 51 Hz

Qms = 7.28

Vas = 67.88 liters

Xmax = 4.8 mm

Sd = 506.7 sq.cm

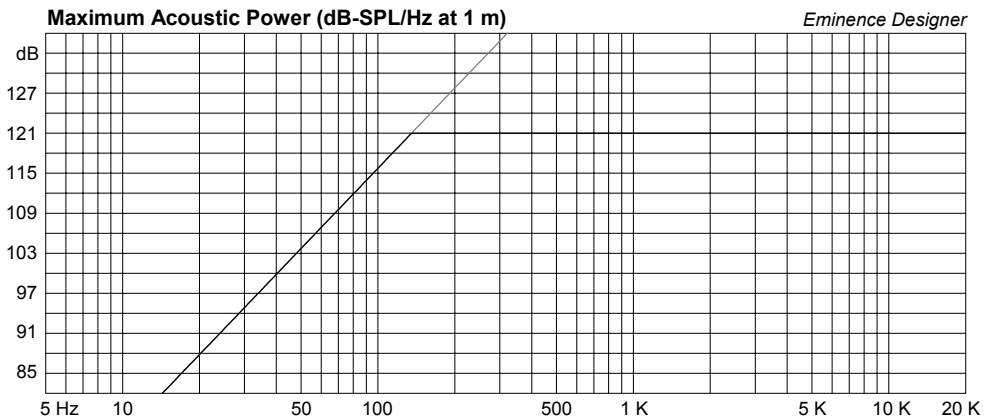
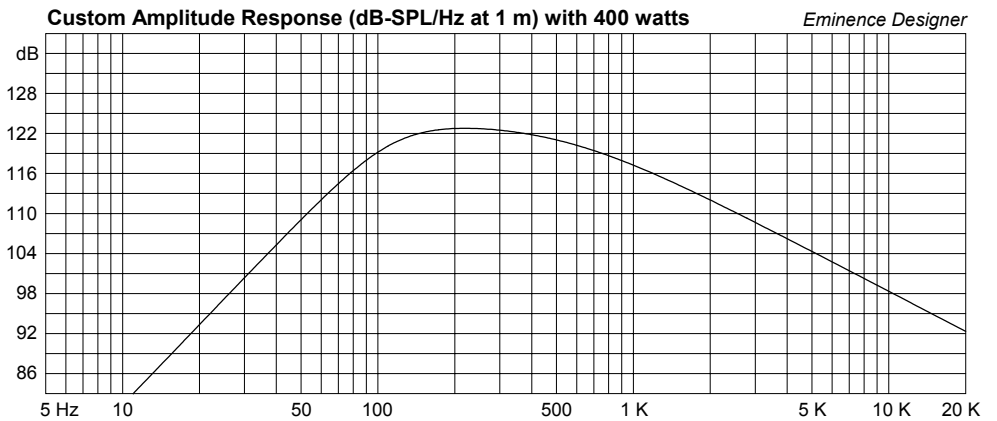
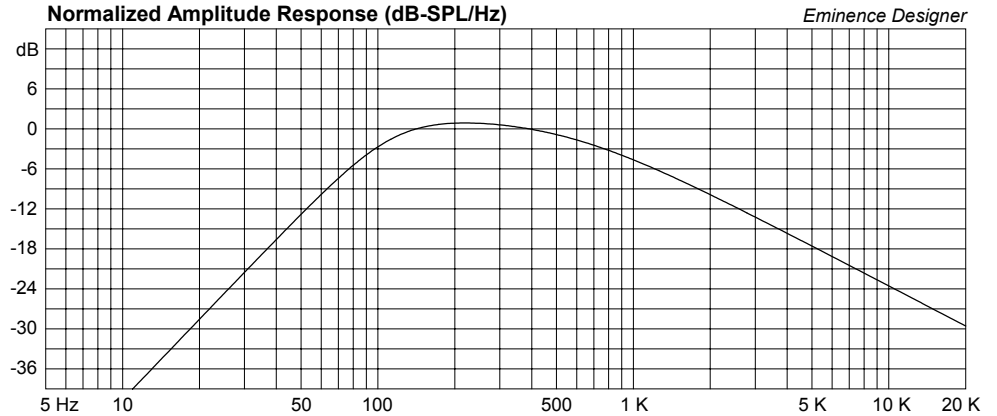
Qes = 0.51

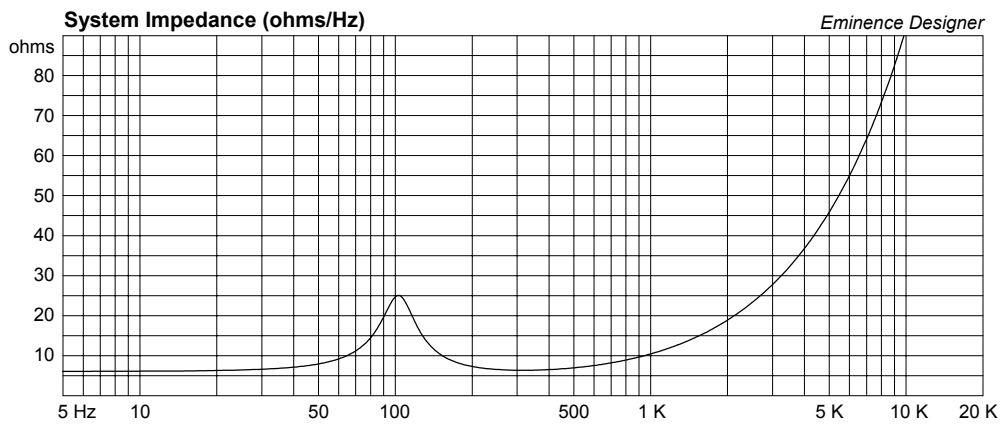
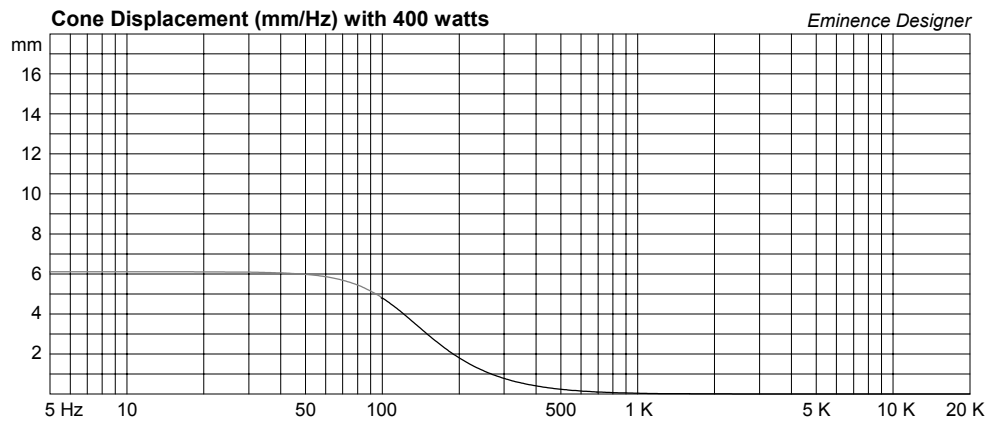
Re = 6.06 ohms

Le = 1.45 mH

Z = 8 ohms

Pe = 500 watts





Delta12LF Small Vented Cab, High Power Sat, or Floor Wedge

By McJerry, Eminence Speaker LLC

500 Watt Thermal limit; use a steep high pass filter set to 100 Hz or higher.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 0.814 cu.ft

V(total) = 0.989 cu.ft

Fb = 75 Hz

QL = 7

F3 = 78.39 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 5.083 in

Driver Properties

--Description--

Name: Delta-12LF

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Updated NOV 2005

Piston: Paper cone.

Suspension: M-roll cloth surround.

Dust Cap: Solid paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 2.5 inch (63.5 mm) copper.

Magnet: 56 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 51 Hz

Qms = 7.28

Vas = 67.88 liters

Xmax = 4.8 mm

Sd = 506.7 sq.cm

Qes = 0.51

Re = 6.06 ohms

Le = 1.45 mH

Z = 8 ohms

Pe = 500 watts

