



AMERICAN STANDARD SERIES

DELTA-12LFC

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.



SPECIFICATION

Nominal Basket Diameter	12.0", 305 mm
Nominal Impedance*	4 Ω
Power Rating**	
Watts	500 W
Music Program	1000 W
Resonance	52 Hz
Usable Frequency Range	45 Hz – 2.3 kHz
Sensitivity***	93.1 dB
Magnet Weight	56 oz.
Gap Height	.375", 9.5 mm
Voice Coil Diameter	2.5", 64 mm

THIELE & SMALL PARAMETERS*

Fs	52 Hz
Re	3.20 Ω
Le	0.94 mH
Qms	8.21
Qes	0.47
Qts	0.44
Vas	2.25 cu.ft., 63.70 liters
Vd	243.0 cc
Cms	0.17 mm/N
BL	10.90 T-M
Mms	53 grams
EBP	111
Xmax	4.80 mm
Sd	506.7 cm ²
Xlim	13.5 mm

MOUNTING INFORMATION

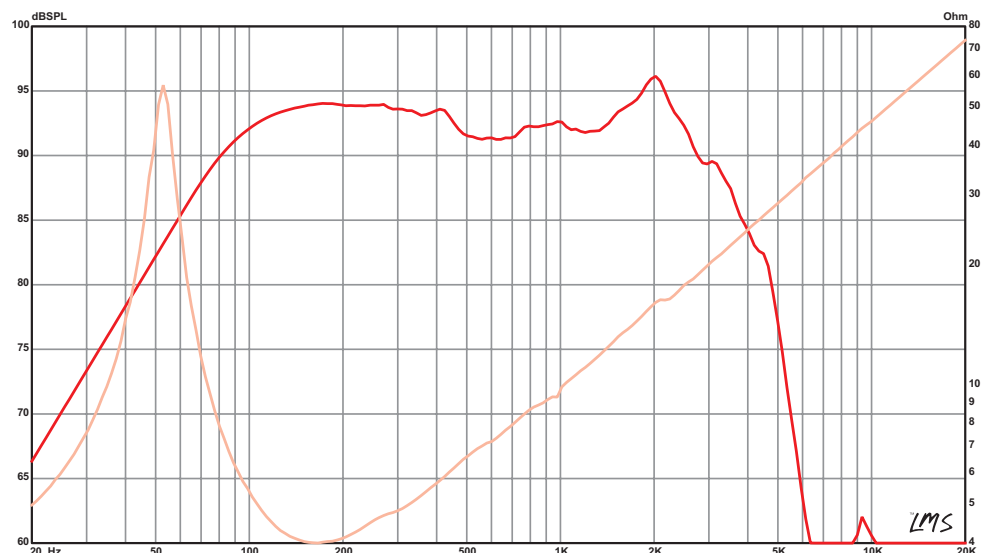
Recommended Enclosure Volume	
Sealed	21.00–74.00 liters, 0.70–2.60 cu.ft.
Vented	28.00–110.00 liters, 1.00–3.90 cu.ft.
Driver Volume Displaced	0.079 cu.ft., 2.25 liters
Overall Diameter	12.03", 305.6 mm
Baffle Hole Diameter	11.07", 281.2 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes 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
Kapton former
Ferrite magnet
Vented and extended core
Pressed steel basket
Treated 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



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Delta-12LFC Large Sealed Design

By Jerry McNutt, Eminence Speaker LLC

Limit to 200 Watts; F3 at 96. Vocal wedge or sealed Sat.

Crossover above 90 Hz.



Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 2.5 cu.ft

V(total) = 2.5 cu.ft

Qtc = 0.513

QL = 20

F3 = 96.33 Hz

Fill = heavy

Driver Properties

--Description--

Name: Delta-12LFC

Type: Standard one-way driver

Comment: New for 2010 NAMM

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 52.22 Hz

Qms = 8.21

Vas = 2.249 cu.ft

Xmax = 0.189 in

Sd = 80.52 sq.in

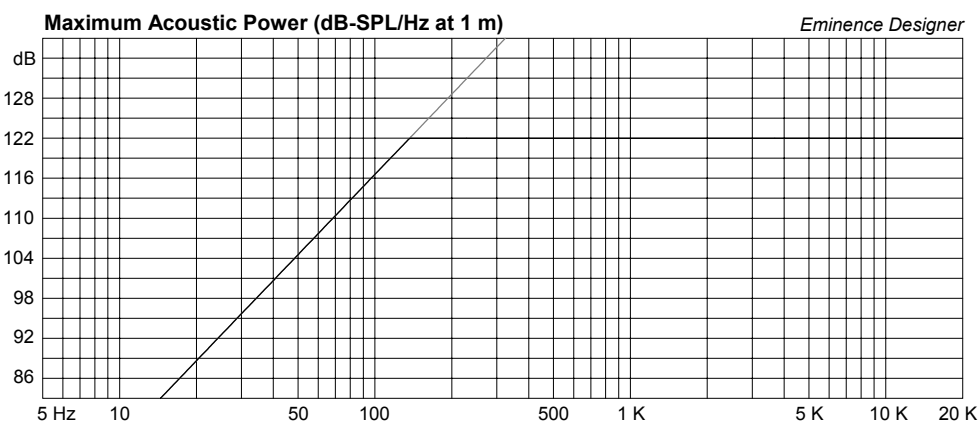
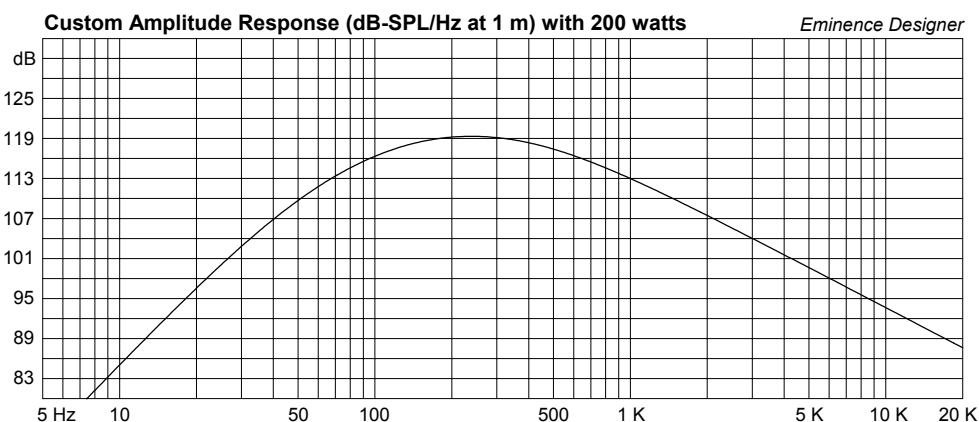
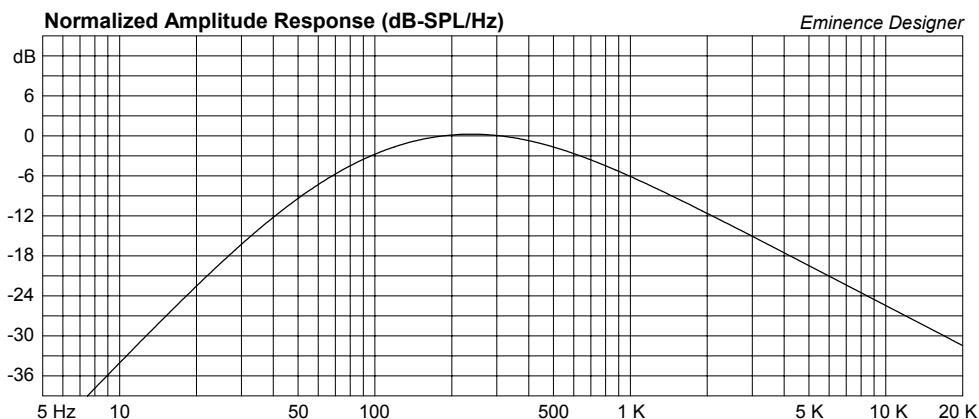
Qes = 0.47

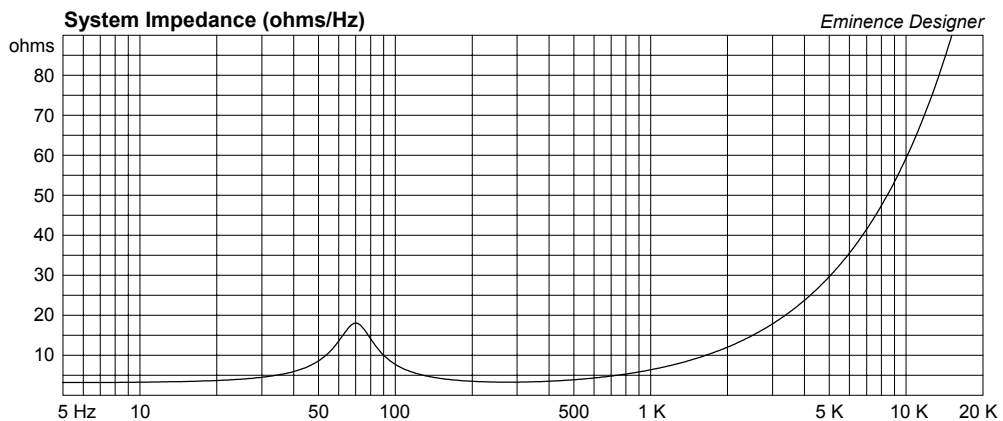
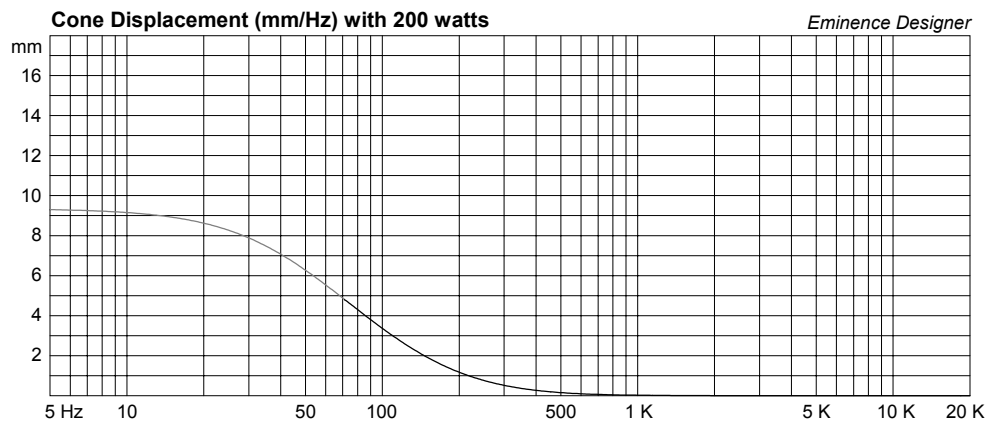
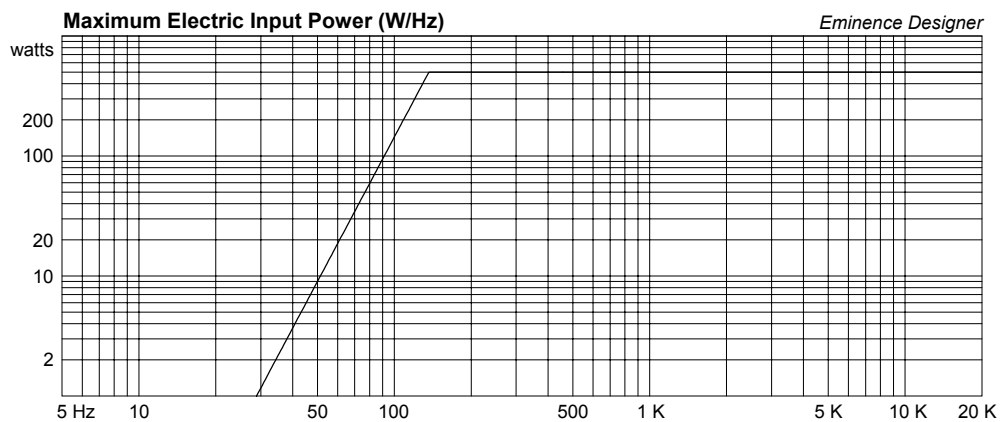
Re = 3.16 ohms

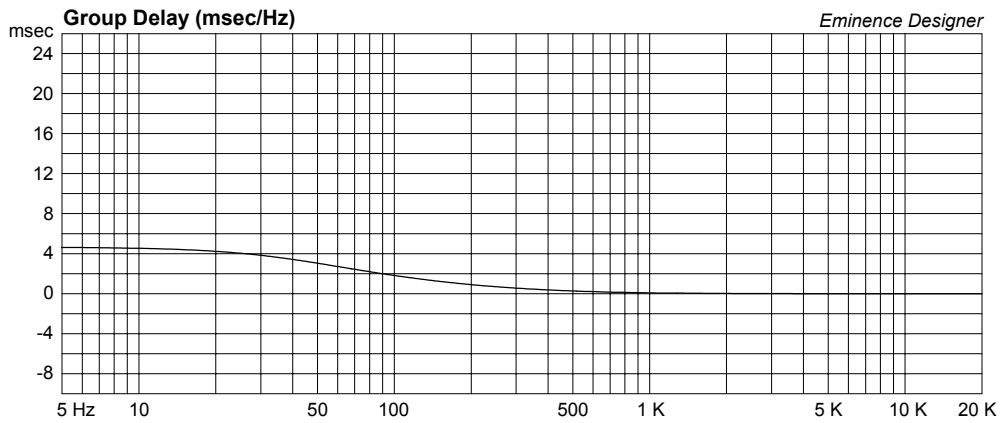
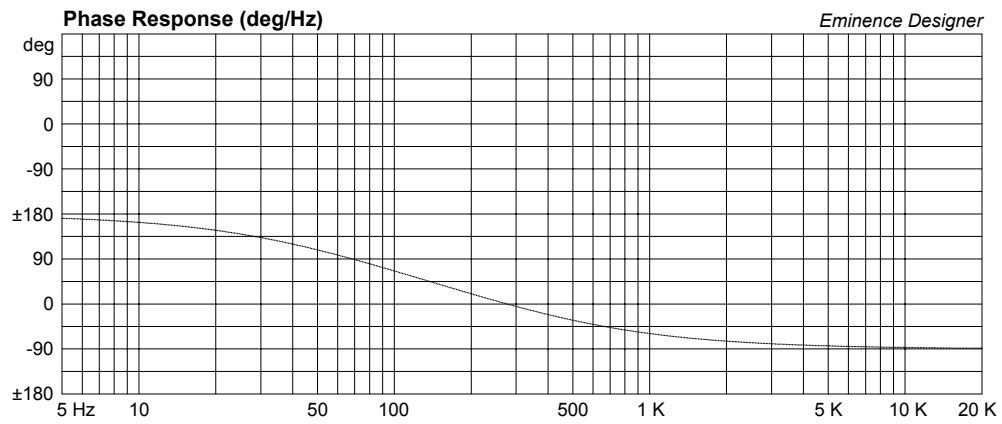
Le = 0.94 mH

Z = 4 ohms

Pe = 500 watts







Delta-12LFC Micro Sealed Vocal Wedge Monitor

By Jerry McNutt, Eminence Speaker LLC

Limit to 350 Watts; F3 at 100. Vocal wedge or sealed Sat.

Crossover above 100 Hz.



Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 0.75 cu.ft

V(total) = 0.75 cu.ft

Qtc = 0.688

QL = 20

F3 = 100.5 Hz

Fill = heavy

Driver Properties

--Description--

Name: Delta-12LFC

Type: Standard one-way driver

Comment: New for 2010 NAMM

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 52.22 Hz

Qms = 8.21

Vas = 2.249 cu.ft

Xmax = 0.189 in

Sd = 80.52 sq.in

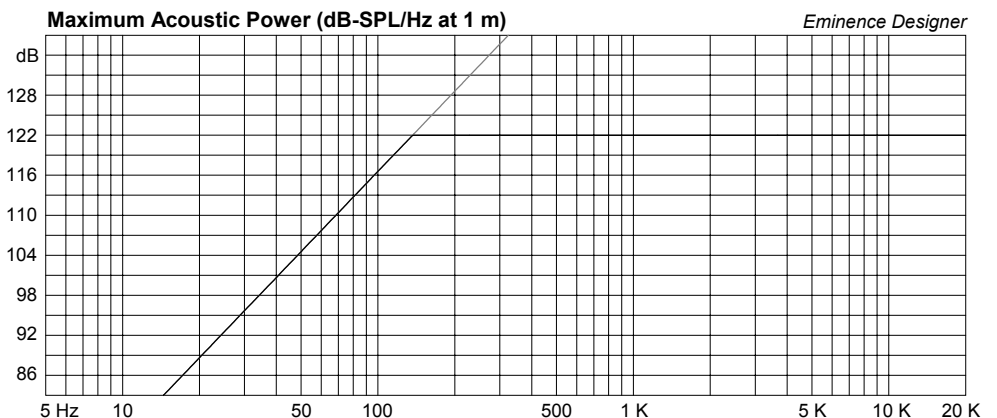
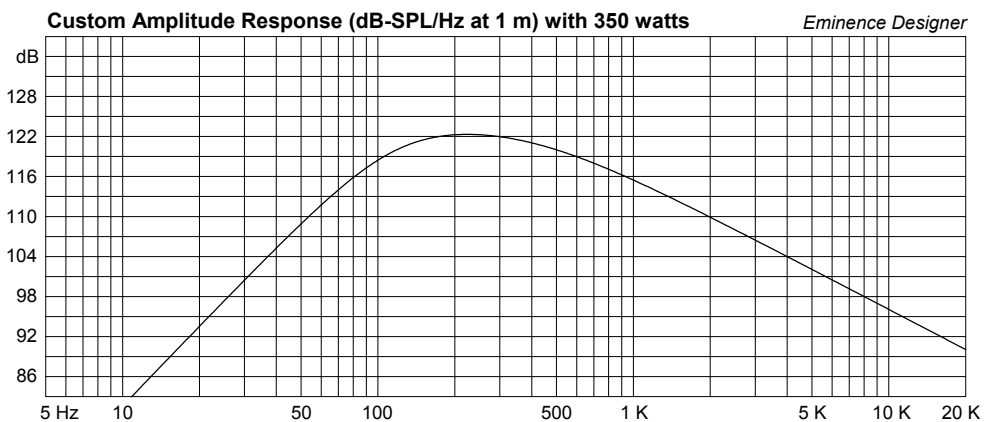
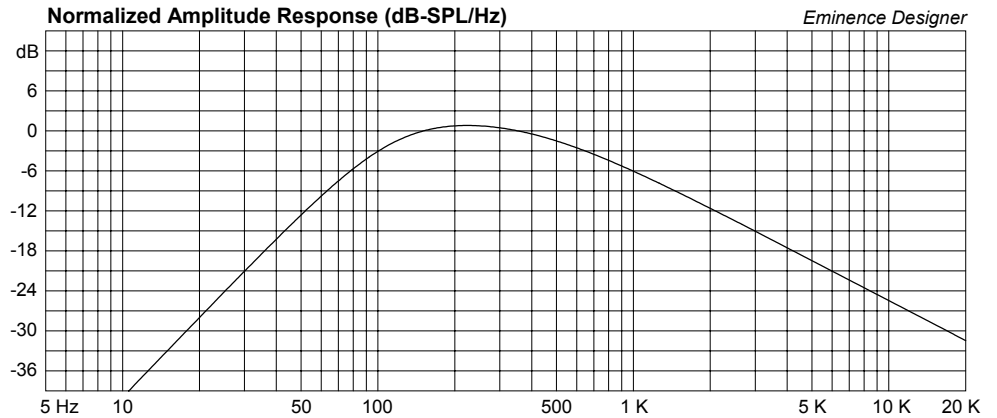
Qes = 0.47

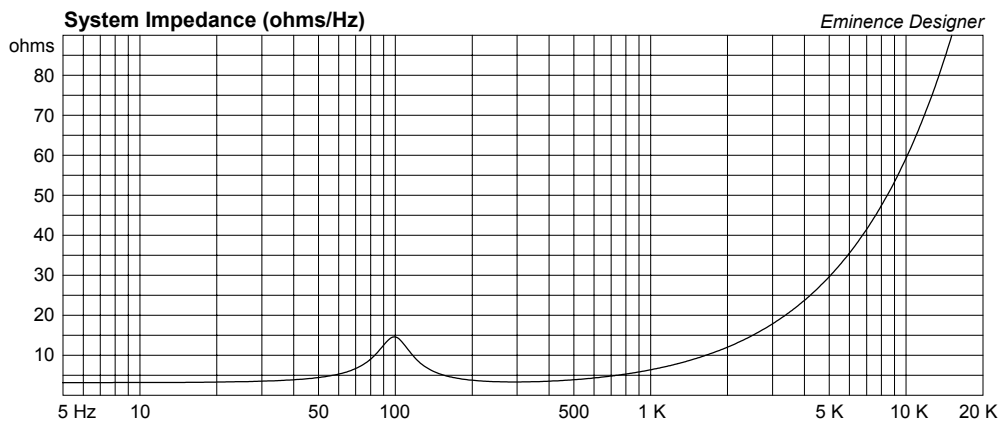
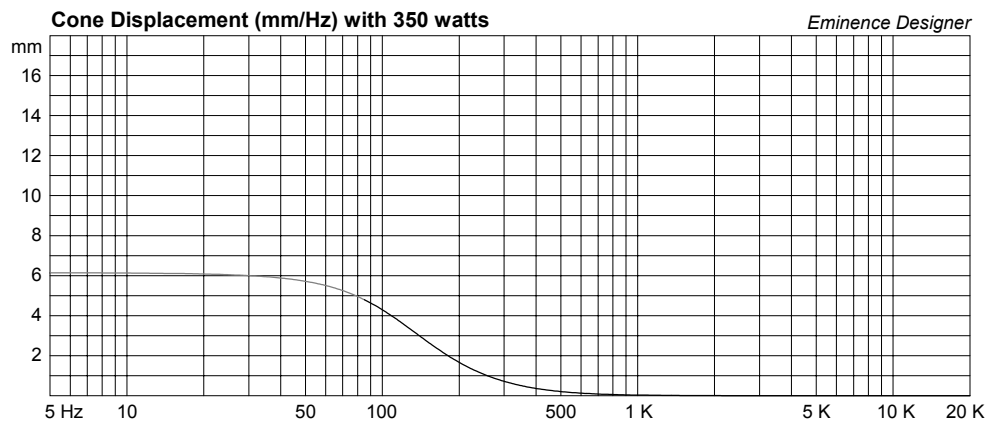
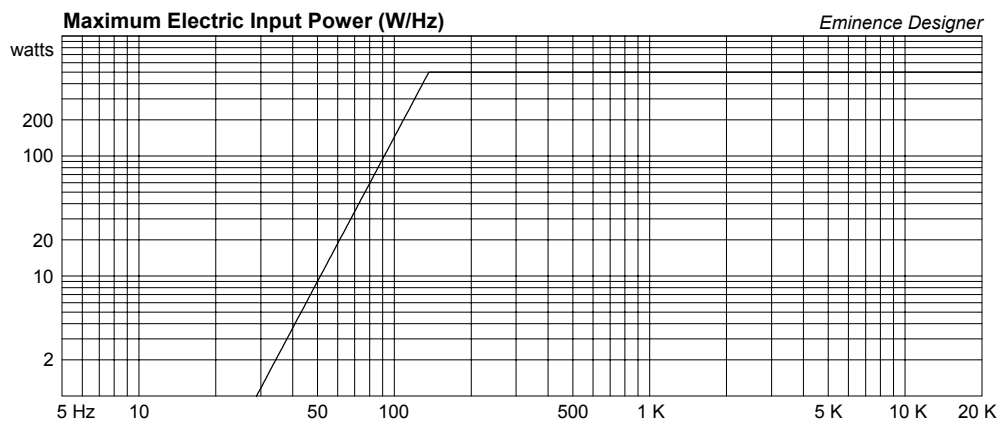
Re = 3.16 ohms

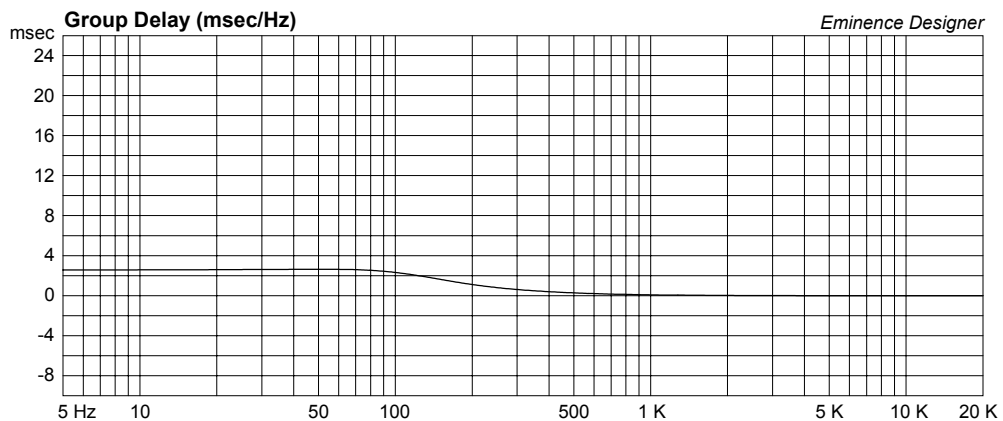
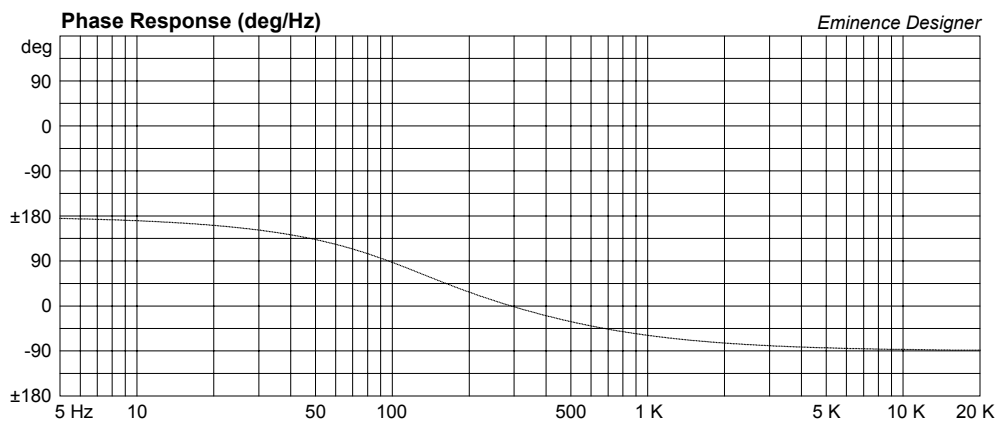
Le = 0.94 mH

Z = 4 ohms

Pe = 500 watts







Delta-12LFC Large Vented Design

By Jerry McNutt, Eminence Speaker LLC

Limit to 175Watts; F3 at 45 Hz.

Practice safe bass; high pass at 40Hz to protect your investment.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 3.3 cu.ft

V(total) = 3.495 cu.ft

Fb = 49 Hz

QL = 7

F3 = 44.71 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 4.134 in

Driver Properties

--Description--

Name: Delta-12LFC

Type: Standard one-way driver

Comment: New for 2010 NAMM

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 52.22 Hz

Qms = 8.21

Vas = 2.249 cu.ft

Xmax = 0.189 in

Sd = 80.52 sq.in

Qes = 0.47

Re = 3.16 ohms

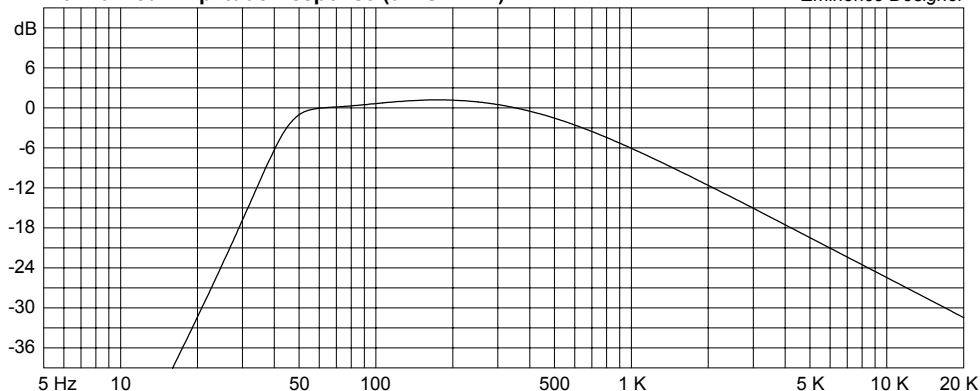
Le = 0.94 mH

Z = 4 ohms

Pe = 500 watts

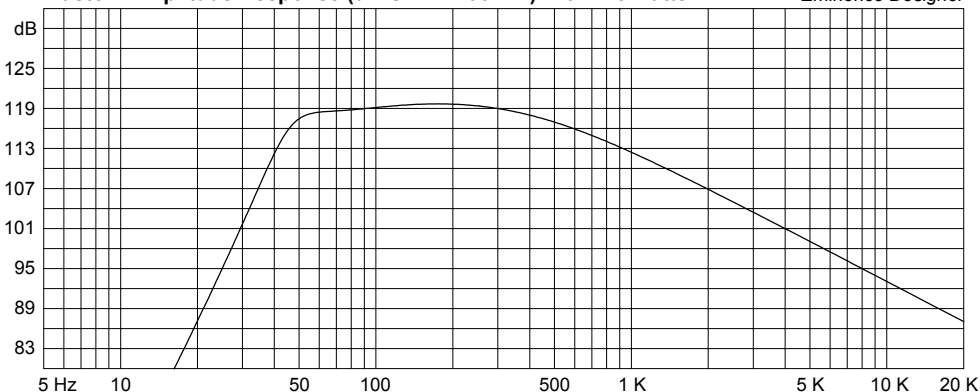
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



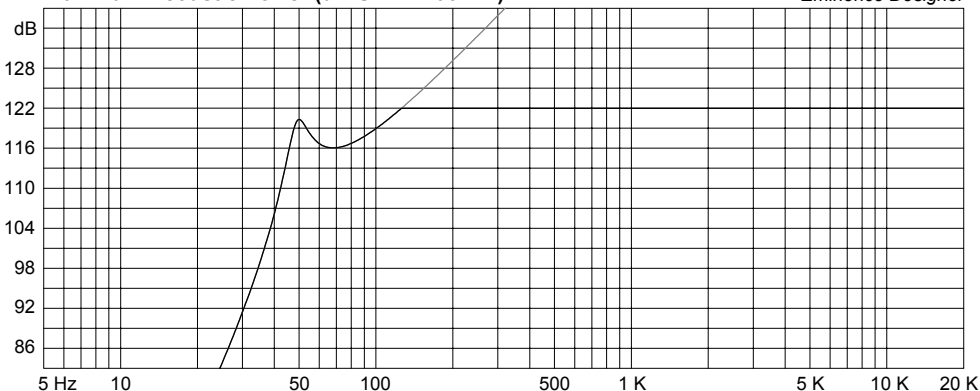
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 175 watts

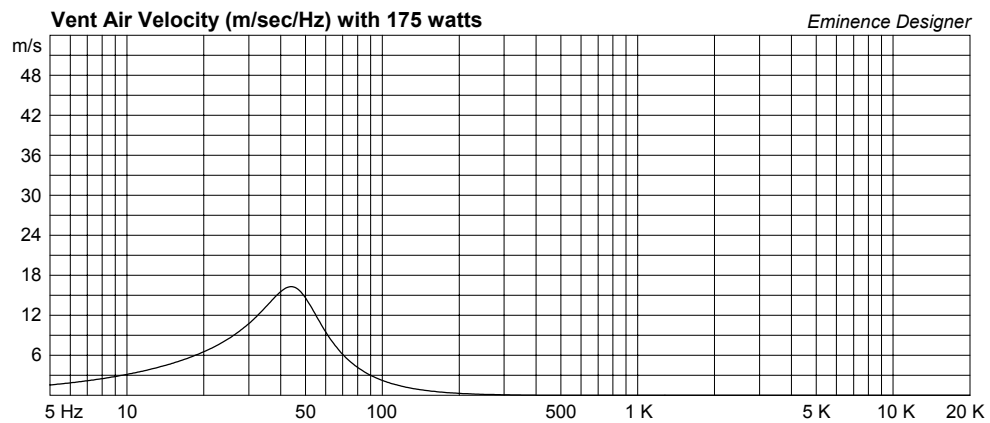
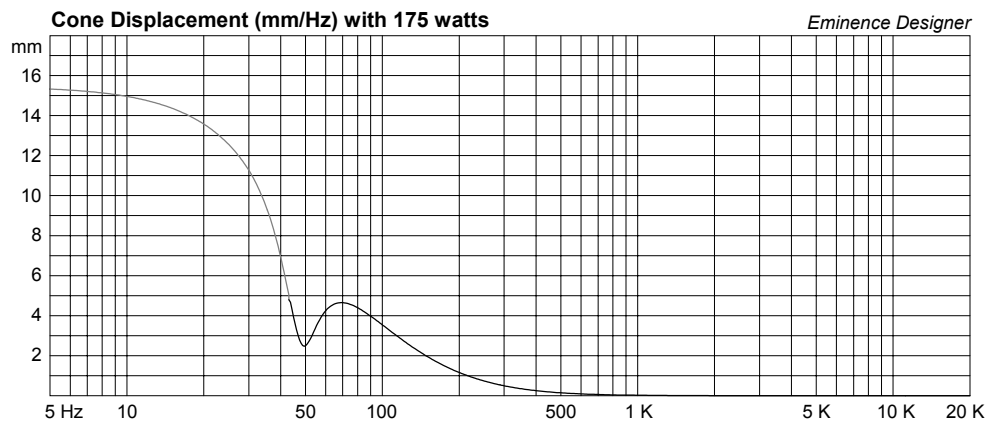
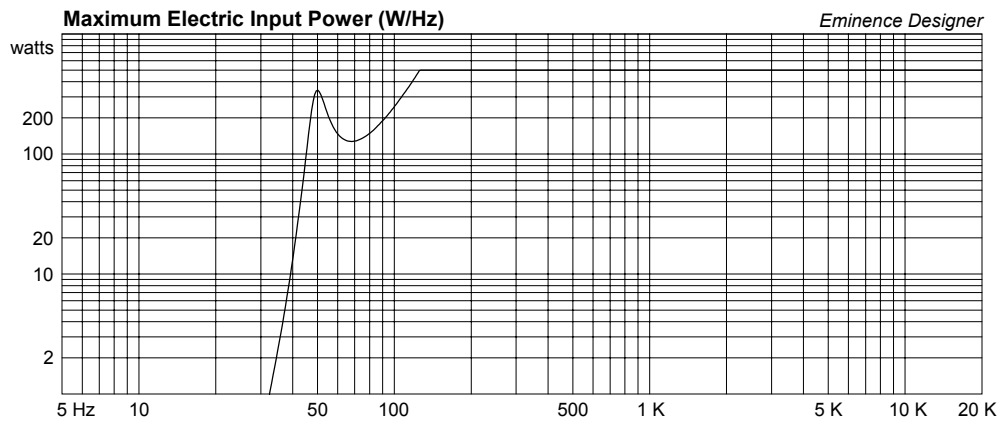
Eminence Designer

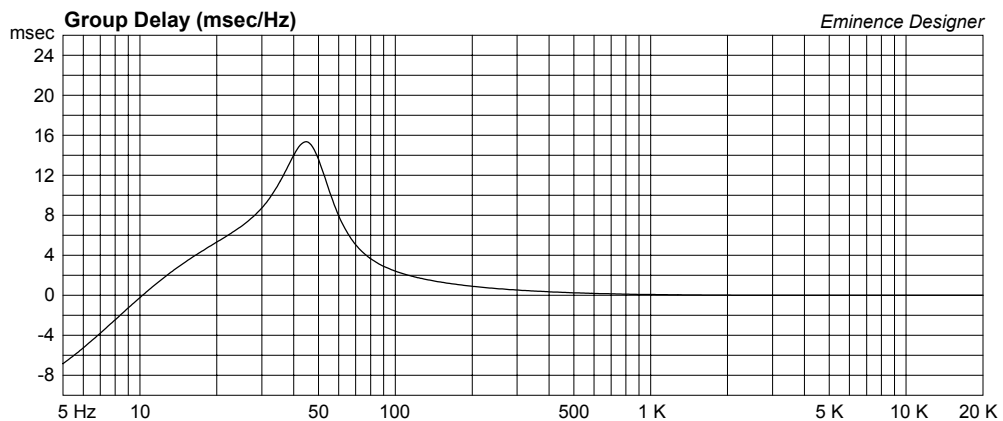
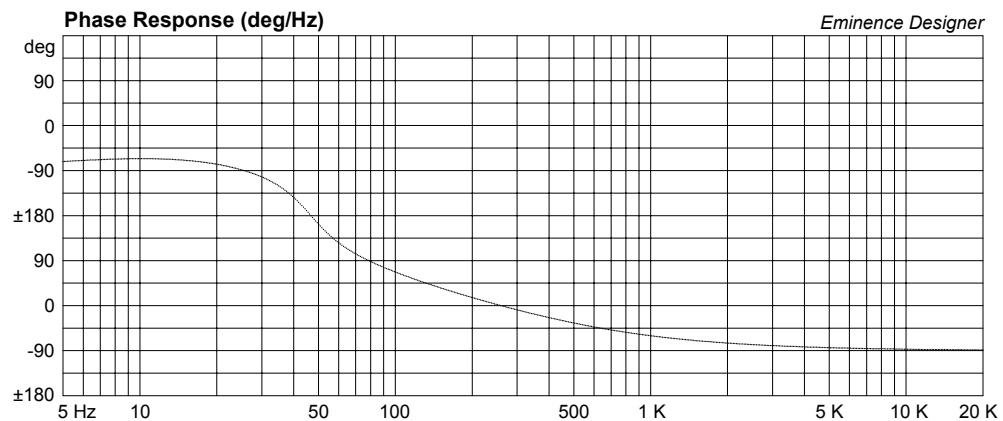
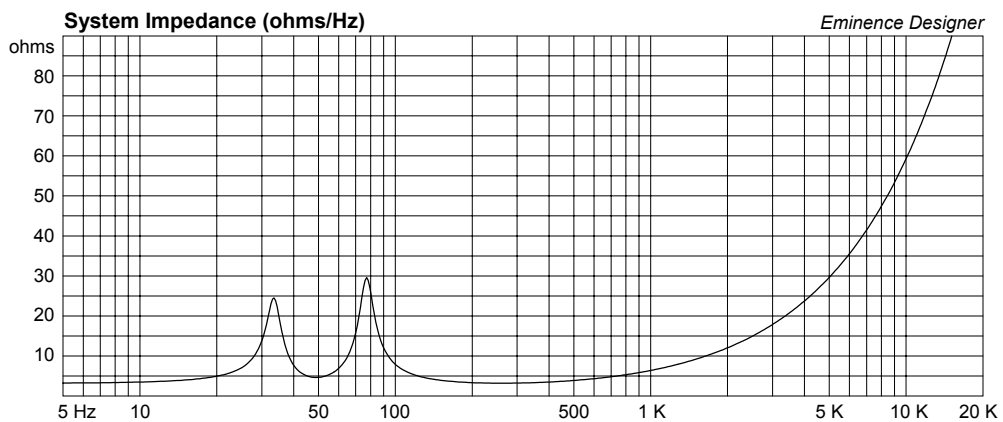


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







Delta-12LFC Small Vented Design

By Jerry McNutt, Eminence Speaker LLC

Limit to 450 Watts; F3 at 70 Hz.

Crossover above 70 Hz. Vocal wedge or high power Sat.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 1.1 cu.ft

V(total) = 1.268 cu.ft

Fb = 68 Hz

QL = 7

F3 = 69.6 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 4.223 in

Driver Properties

--Description--

Name: Delta-12LFC

Type: Standard one-way driver

Comment: New for 2010 NAMM

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 52.22 Hz

Qms = 8.21

Vas = 2.249 cu.ft

Xmax = 0.189 in

Sd = 80.52 sq.in

Qes = 0.47

Re = 3.16 ohms

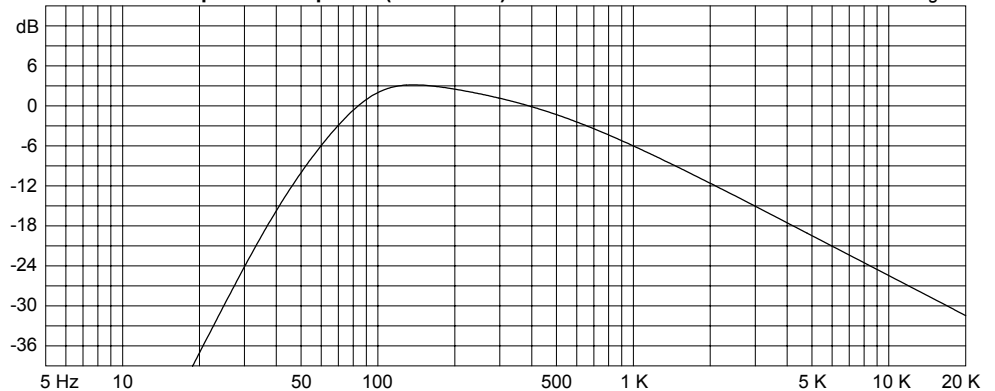
Le = 0.94 mH

Z = 4 ohms

Pe = 500 watts

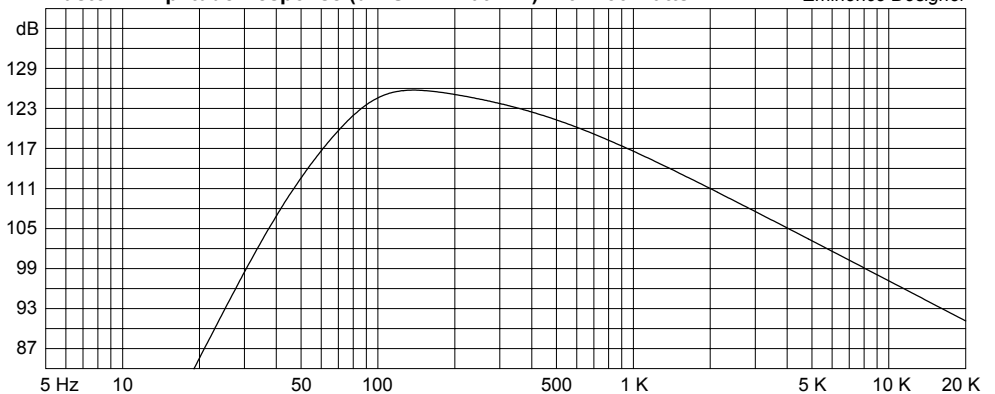
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 450 watts

Eminence Designer



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

Eminence Designer

