

## Specification

Nominal Basket Diameter	12", 304.8mm
Nominal Impedance*	8 ohms
Power Rating**	
Watts	500W
Music Program	1000W
Resonance	51Hz
Usable Frequency Range***	44Hz-3kHz
Sensitivity	94.6
Magnet Weight	56 oz
Gap Height	0.375", 9.53mm
Voice Coil Diameter	2.5", 63.5mm

## Thiele & Small Parameters

Resonant Frequency (fs)	51Hz
DC Resistance (Re)	6.06
Coil Inductance (Le)	1.45mH
Mechanical Q (Qms)	7.28
Electromagnetic Q (Qes)	0.51
Total Q (Qts)	0.47
Compliance Equivalent Volume (Vas)	67.9 ltr/2.4 cu. ft.
Peak Diaphragm Displacement Volume (Vd)	243cc
Mechanical Compliance of Suspension (Cms)	0.19mm/N
BL Product (BL)	14.1 T-M
Diaphragm Mass inc. Airlod (Mms)	51 grams
Efficiency Bandwidth Product (EBP)	100
Maximum Linear Excursion (Xmax)	4.8mm
Surface Area of Cone (Sd)	506.7cm <sup>2</sup>
Maximum Mechanical Limit (Xlim)	13.5mm

## Mounting Information

Recommended Enclosure Volume	
Sealed	19.8-28 ltr/0.7-1.0 cu. ft.
Vented	25.5-102 ltr/0.9-3.6 cu. ft.
Overall Diameter	12.03", 305.5mm
Baffle Hole Diameter	10.95", 278.1mm
Front Sealing Gasket	Fitted as Standard
Rear Sealing Gasket	Fitted as Standard
Mounting Holes Diameter	0.25", 6.4mm
Mounting Holes B.C.D.	11.59", 294.3mm
Depth	5.35", 136mm
Net Weight	11.8 lbs, 5.4 kg
Shipping Weight	14 lbs, 6.4 kg

## Materials of Construction

Coil Construction	Copper
Coil	Polyimide
Magnet Composition	Ferrite
Core Details	Vented And Extended
Basket Materials	Pressed Steel
Cone Composition	Paper
Cone Edge Composition	Cloth
Dust Cap Composition	Solid Composition Paper



## DELTA-12LFA American Standard Series

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



\* Please inquire about alternative impedances.

\*\* Multiple units exceed published rating evaluated under EIA 426A noise source and test standard while in a free-air, nontemperature-controlled environment.

\*\*\* The average output across the usable frequency range when applying 1W/1m into the nominal impedance. I.e: 2.83 V/8 ohms, 4 V/16 ohms.

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 | Hafler P1500 Trans-Nova amplifier | 2700 cu.ft. chamber with fiberglass on all six surfaces (three with custom-made wedges)

# 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

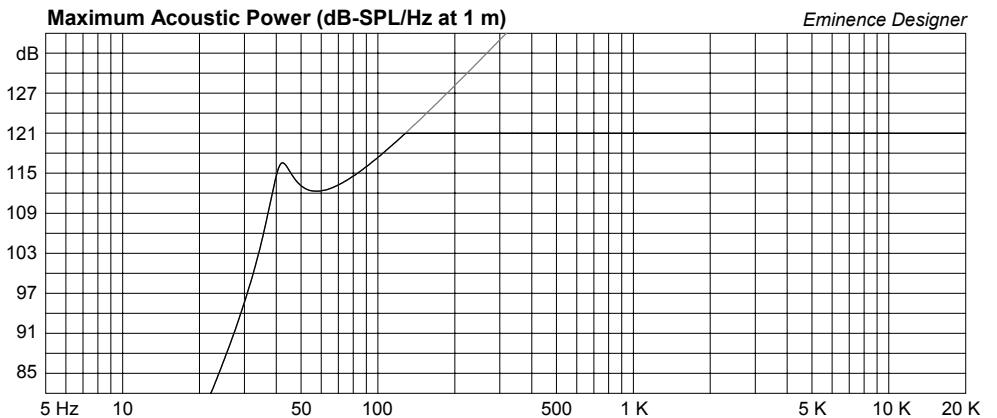
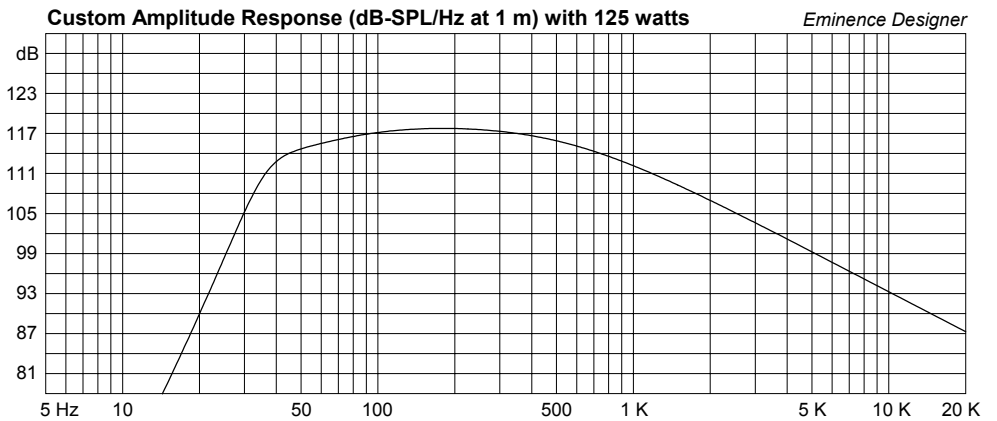
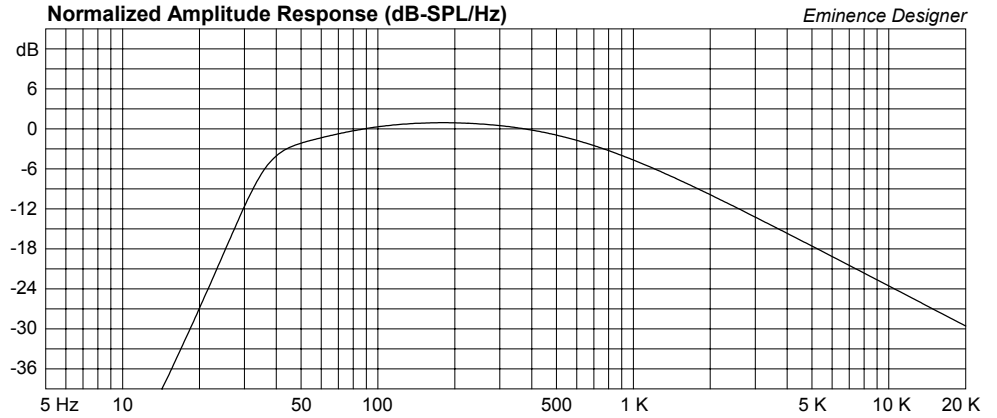
Qes = 0.51

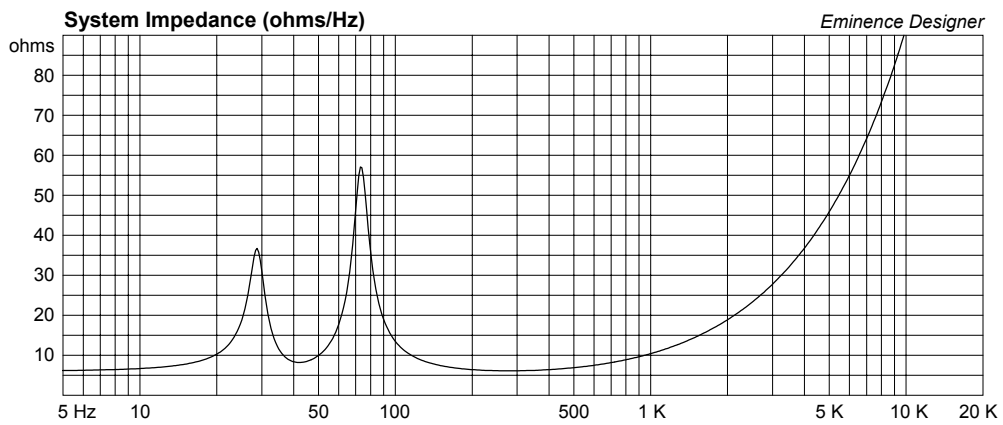
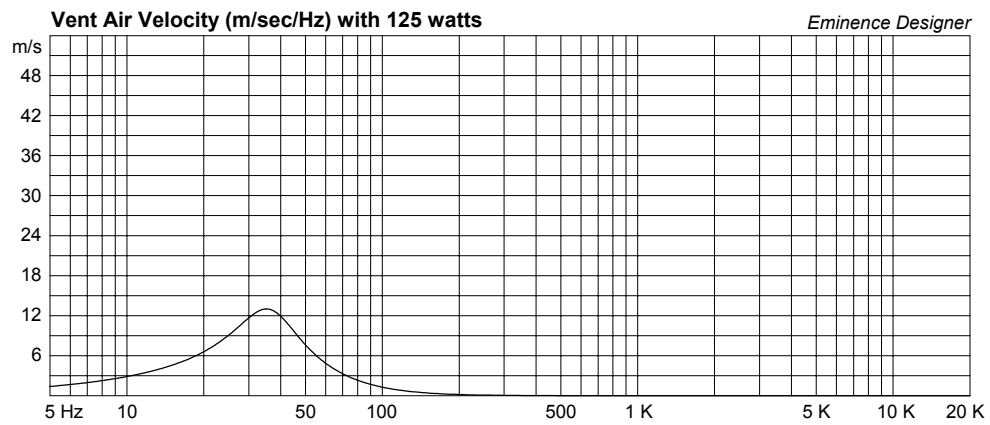
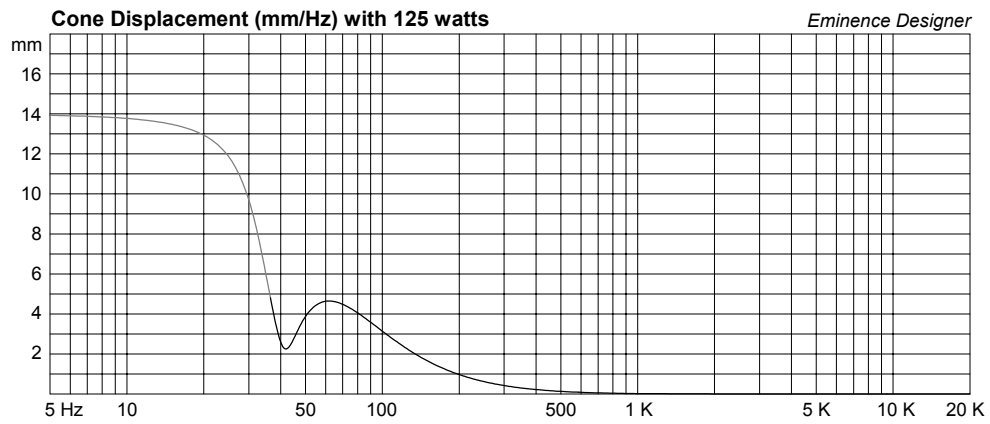
Re = 6.06 ohms

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

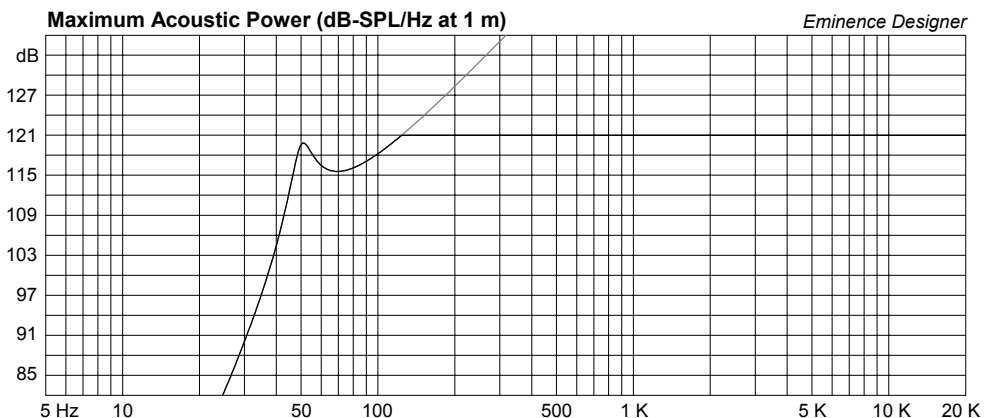
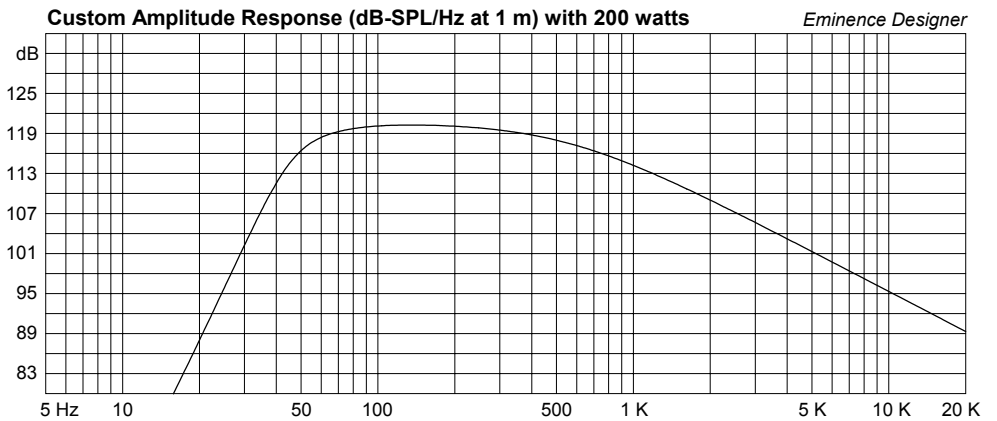
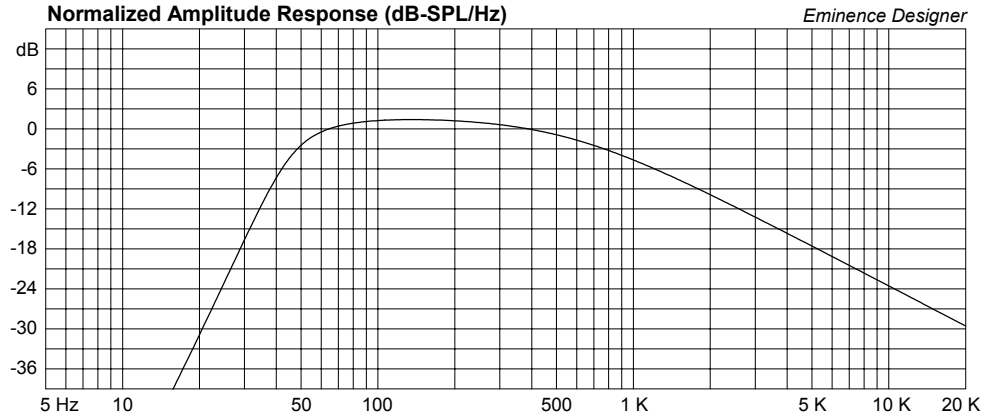
Qes = 0.51

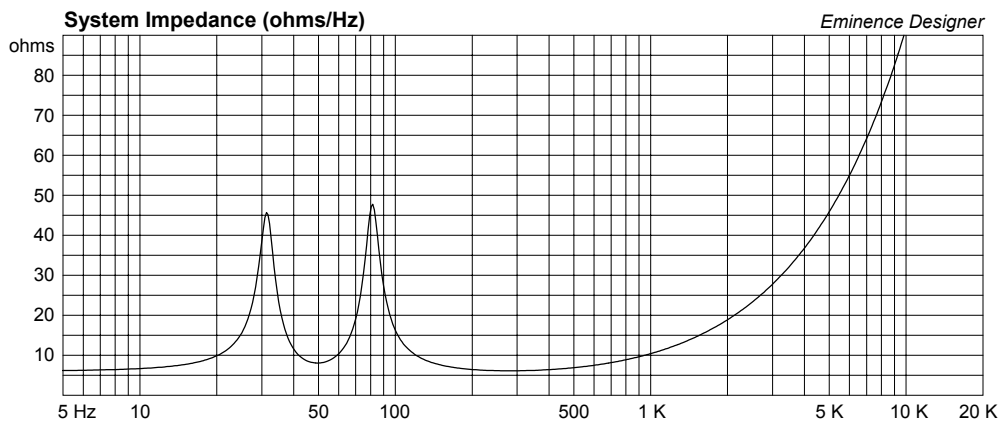
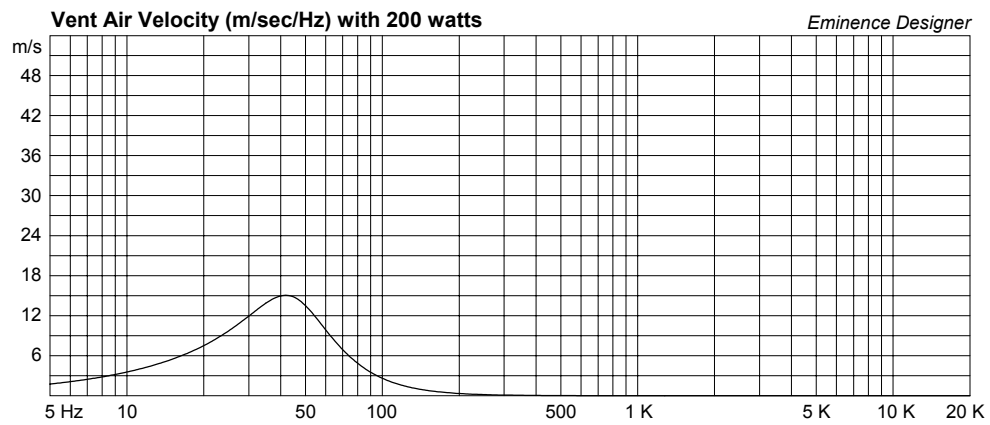
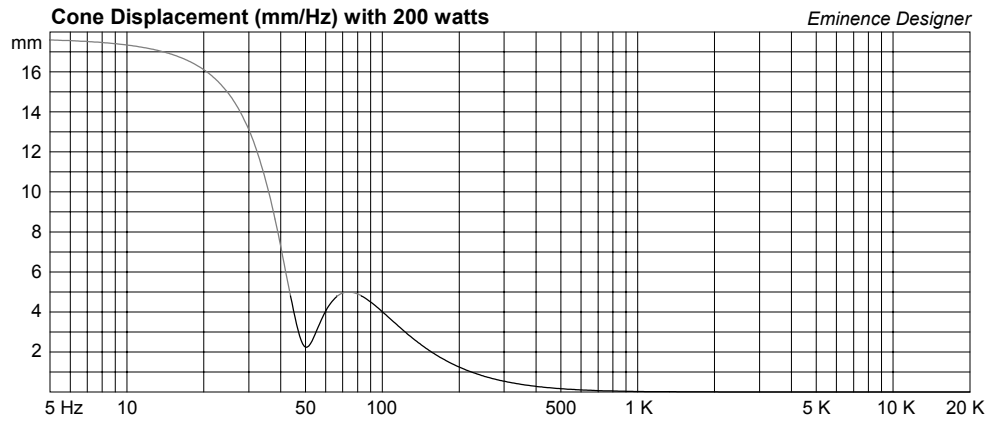
Re = 6.06 ohms

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

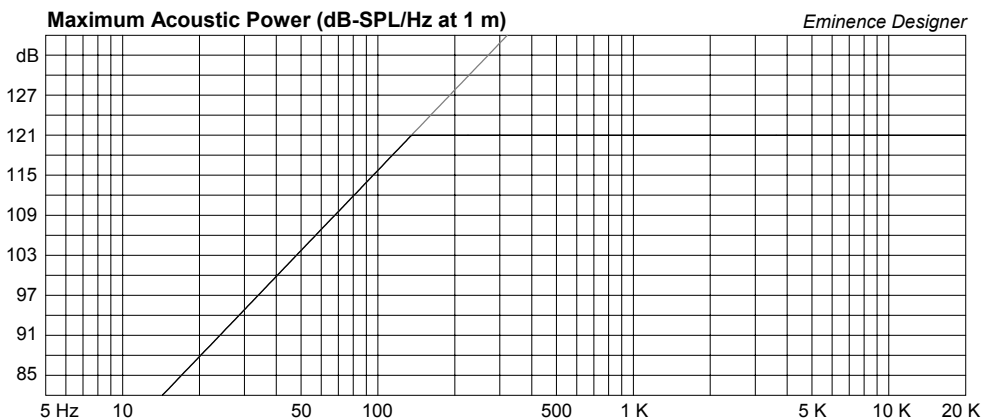
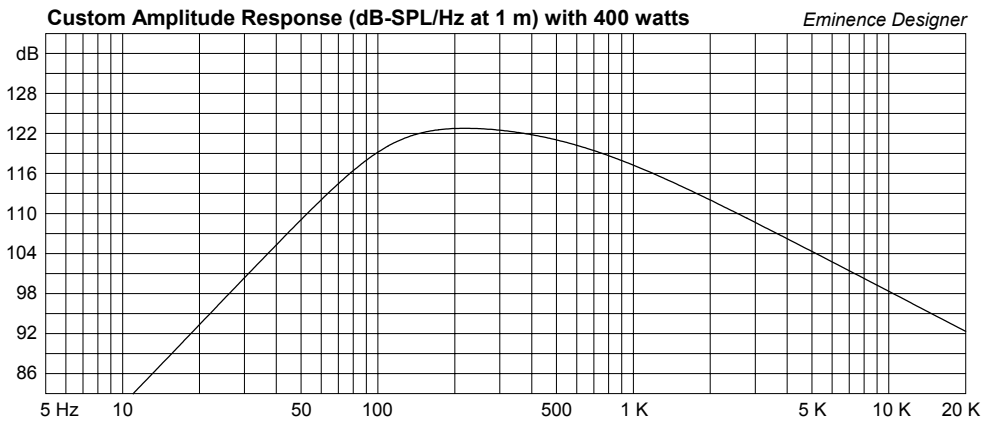
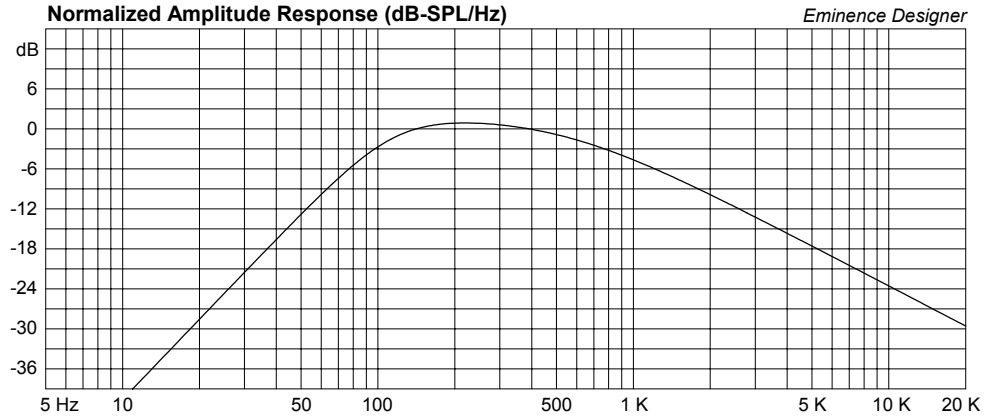
Qes = 0.51

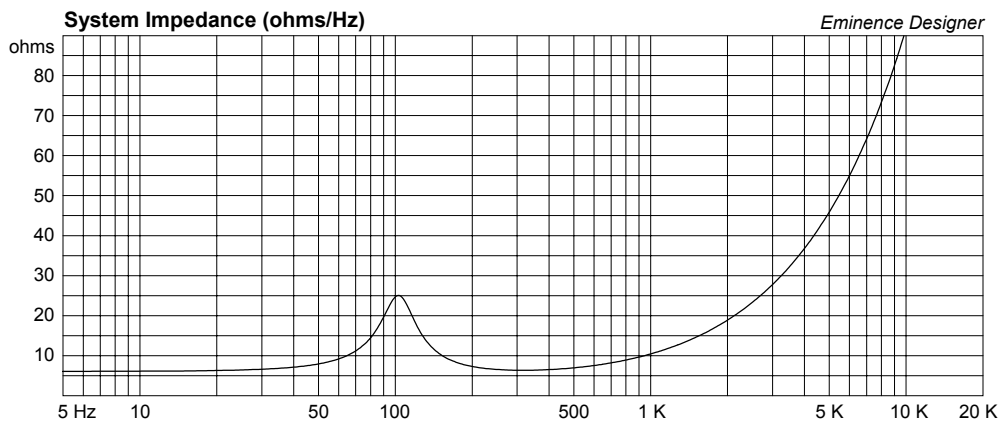
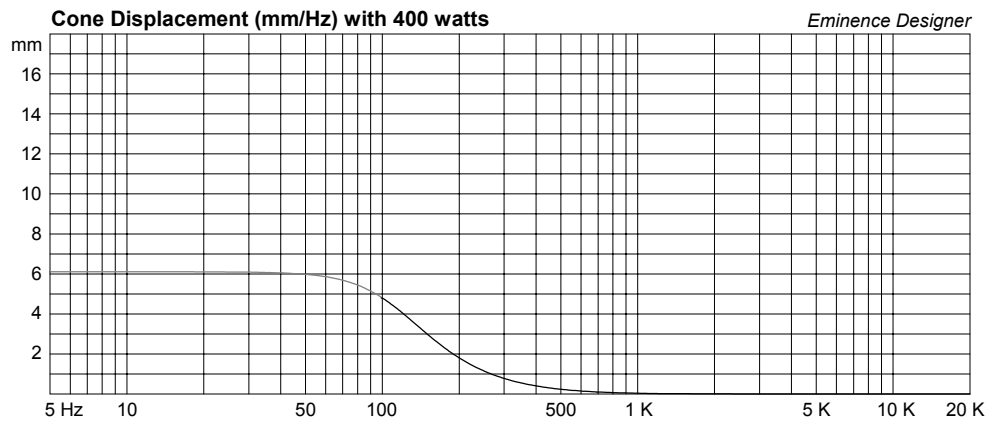
Re = 6.06 ohms

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

