

Specification

Nominal Basket Diameter	15", 381mm
Nominal Impedance*	8 ohms
Power Rating**	
Watts	500W
Music Program	1000W
Resonance	39Hz
Usable Frequency Range***	42Hz-3.2kHz
Sensitivity	96
Magnet Weight	56 oz
Gap Height	0.375", 9.53mm
Voice Coil Diameter	2.5", 63.5mm

Thiele & Small Parameters

Resonant Frequency (fs)	39Hz
DC Resistance (Re)	6.11
Coil Inductance (Le)	1.37mH
Mechanical Q (Qms)	6.3
Electromagnetic Q (Qes)	0.52
Total Q (Qts)	0.48
Compliance Equivalent Volume (Vas)	241.0 ltr/8.51 cu. ft.
Peak Diaphragm Displacement Volume (Vd)	419cc
Mechanical Compliance of Suspension (Cms)	0.23mm/N
BL Product (BL)	14.6 T-M
Diaphragm Mass inc. Airlod (Mms)	75 grams
Efficiency Bandwidth Product (EBP)	75
Maximum Linear Excursion (Xmax)	4.8mm
Surface Area of Cone (Sd)	873.0cm ²
Maximum Mechanical Limit (Xlim)	16.5mm

Mounting Information

Recommended Enclosure Volume	
Sealed	36.8-42.5 ltr/1.3-1.5 cu. ft.
Vented	85-167 ltr/3-5.9 cu. ft.
Overall Diameter	15.15", 384.8mm
Baffle Hole Diameter	13.77", 349.6mm
Front Sealing Gasket	Fitted as Standard
Rear Sealing Gasket	Fitted as Standard
Mounting Holes Diameter	0.25", 6.4mm
Mounting Holes B.C.D.	14.56", 369.9mm
Depth	6.3", 160mm
Net Weight	12.8 lbs, 5.8 kg
Shipping Weight	14.8 lbs, 6.7 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



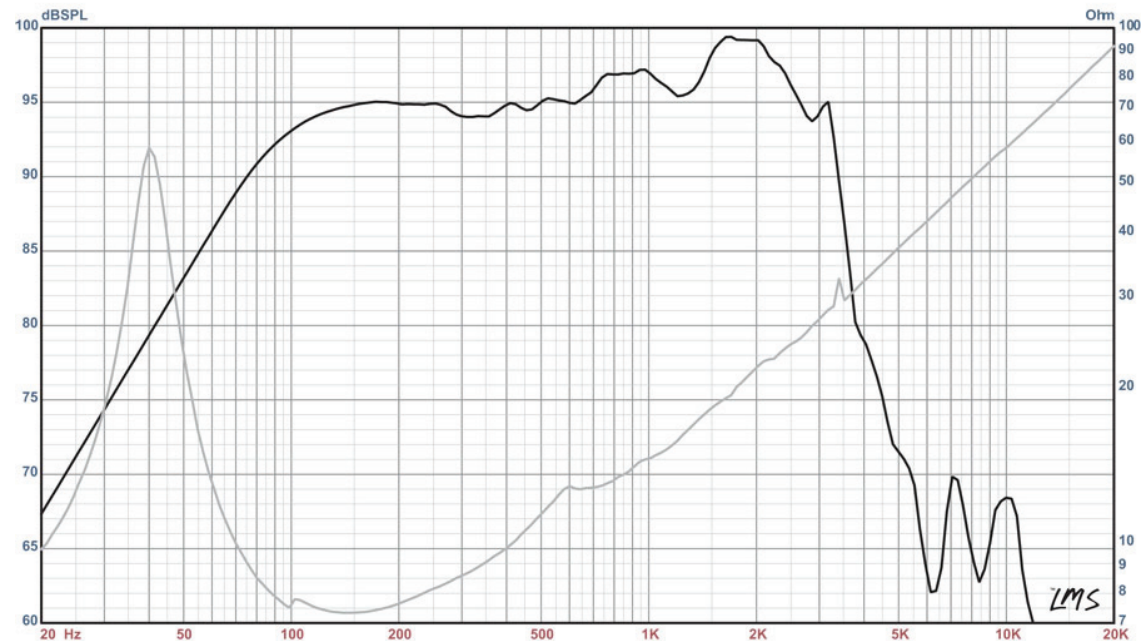


EMINENCE[®]

 The Art and Science of Sound

DELTA-15LFA American Standard Series

Recommended for professional audio as a mid-bass or floor monitor 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)

Delta15LFA Larger Vented Cabinet

By McJerry, Eminence Speaker LLC

Displacement Limited to 175 Watts; F3 of 42 Hz. Use a steep High Pass filter at 35 Hz to protect woofer from overexcursion.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 5.5 cu.ft

V(total) = 5.84 cu.ft

Fb = 45.97 Hz

QL = 7

F3 = 42.29 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 6.465 in

Driver Properties

--Description--

Name: Delta-15LF (8 ohm)

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised 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 = 41 Hz

Qms = 6.65

Vas = 186.1 liters

Xmax = 4.8 mm

Sd = 856.3 sq.cm

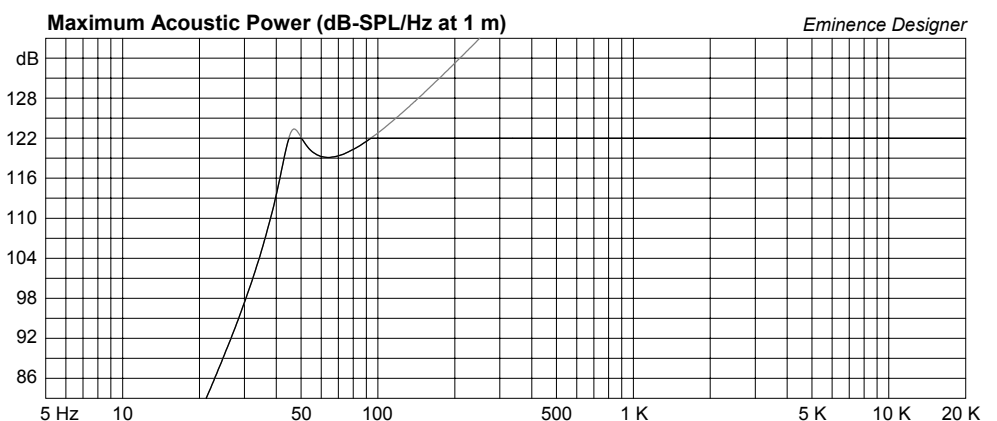
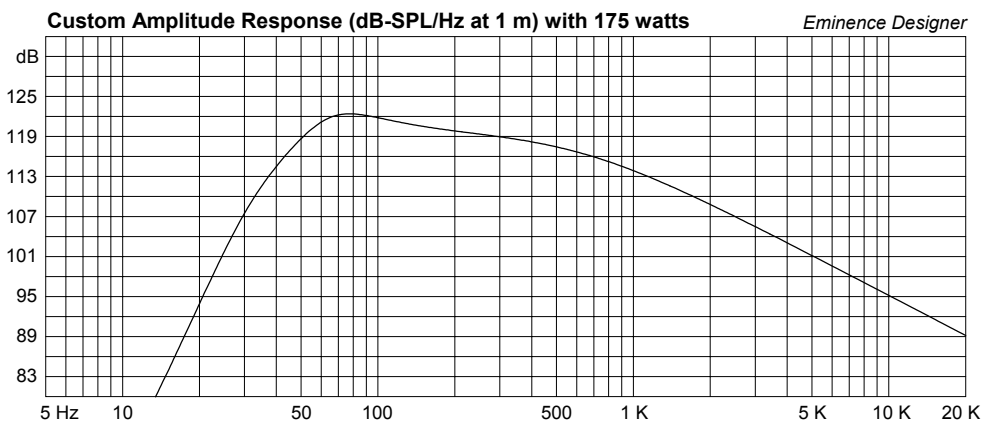
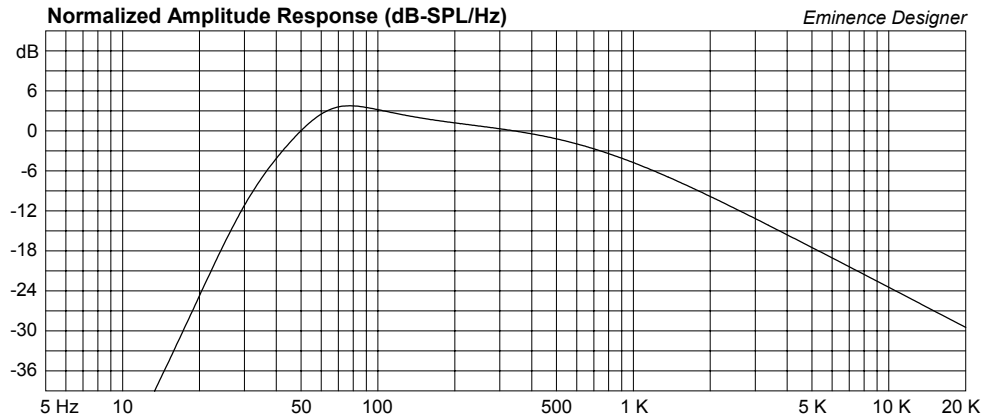
Qes = 0.64

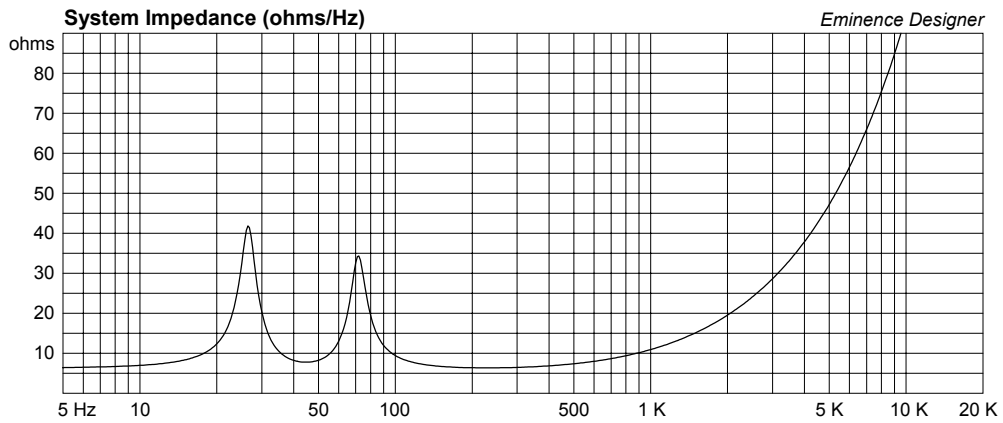
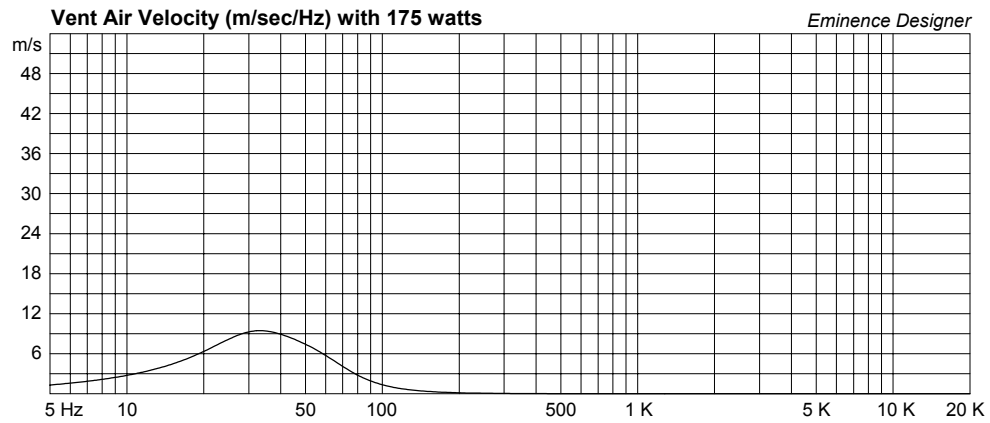
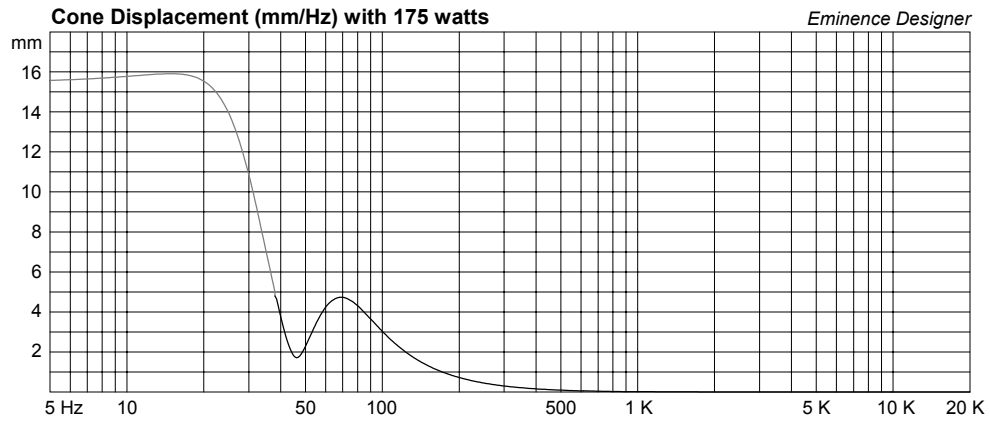
Re = 6.3 ohms

Le = 1.49 mH

Z = 8 ohms

Pe = 500 watts





Delta15LFA Med Vented Cabinet

By McJerry, Eminence Speaker LLC

Displacement Limited to 250 Watts; F3 of 49 Hz. Use a 40 Hz High Pass Filter.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 4.25 cu.ft

V(total) = 4.612 cu.ft

Fb = 50.89 Hz

QL = 5

F3 = 48.57 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 7.145 in

Driver Properties

--Description--

Name: Delta-15LF (8 ohm)

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised 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 = 41 Hz

Qms = 6.65

Vas = 186.1 liters

Xmax = 4.8 mm

Sd = 856.3 sq.cm

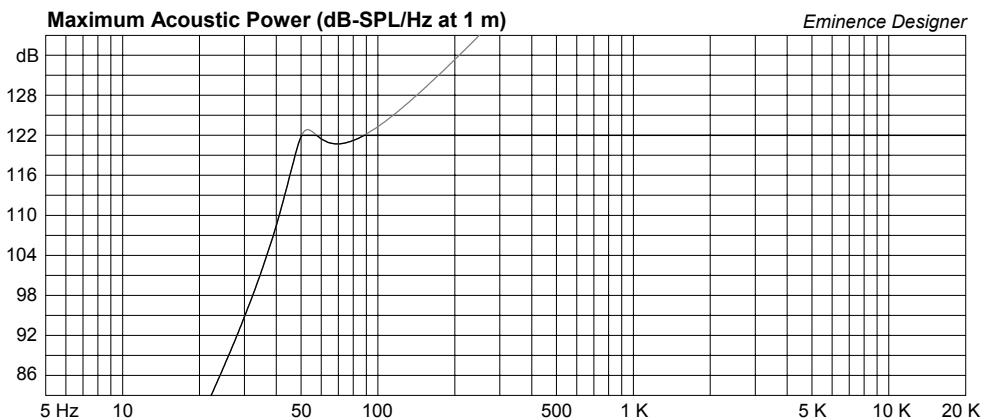
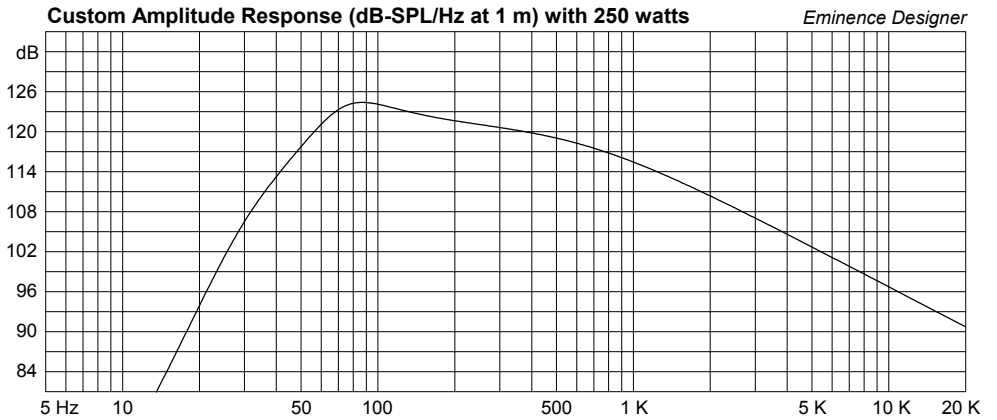
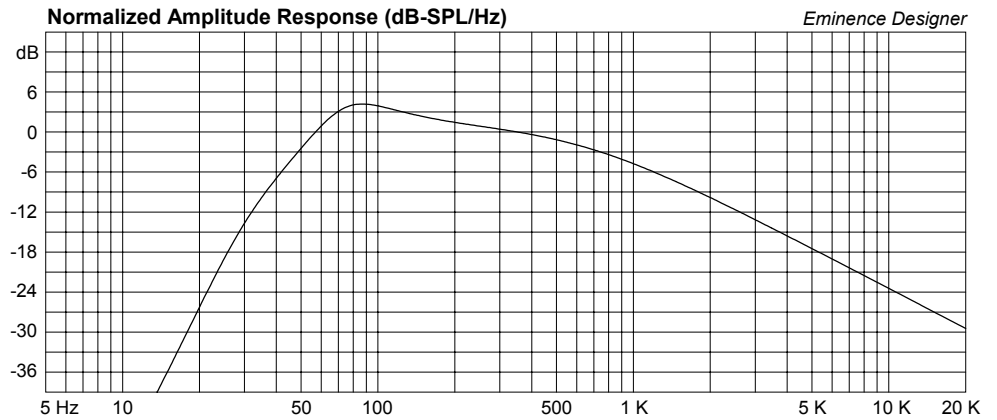
Qes = 0.64

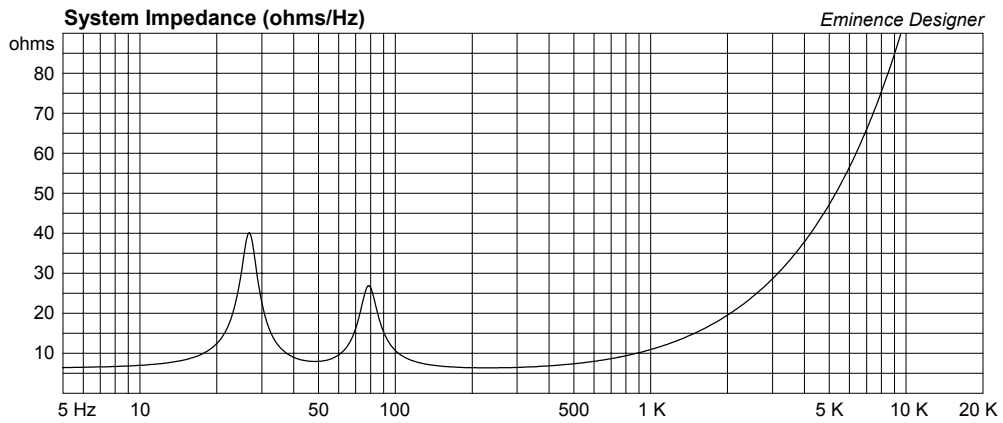
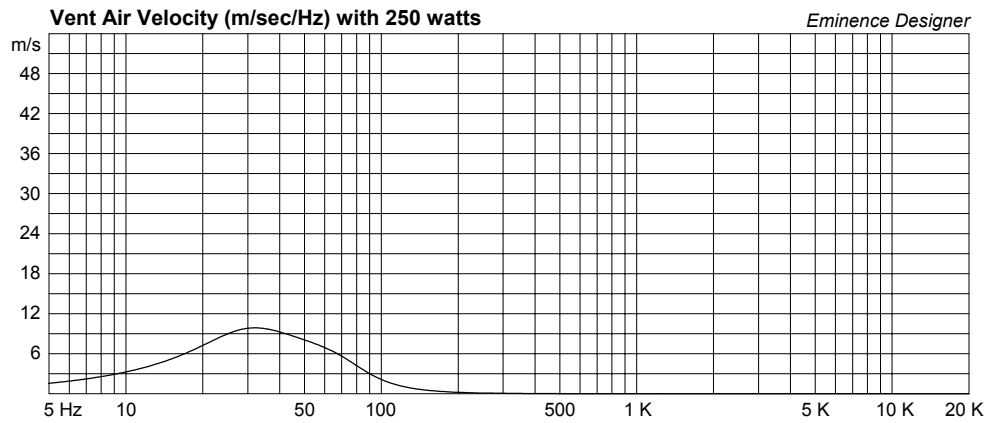
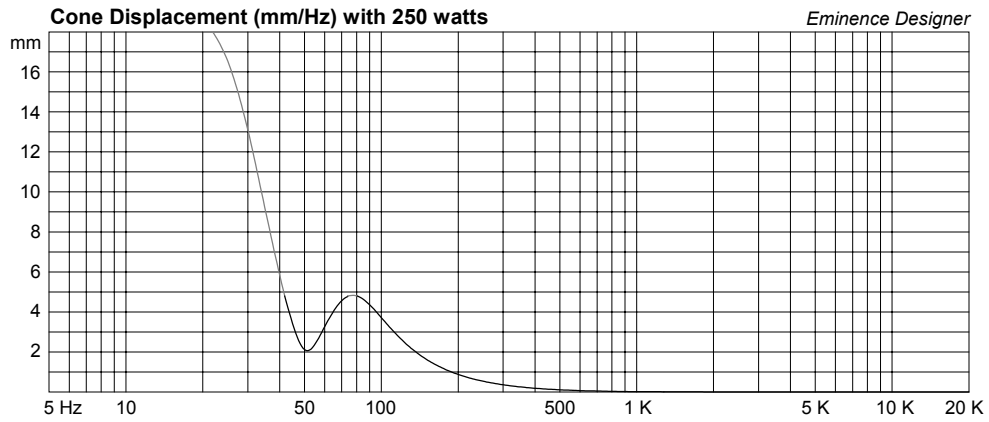
Re = 6.3 ohms

Le = 1.49 mH

Z = 8 ohms

Pe = 500 watts





Delta15LFA Small Sealed Mid/Hi Sat or Floor Monitor

By McJerry, Eminence Speaker LLC

Displacement Limited to 350 Watts. Use a steep High Pass filter set to 100 Hz or higher. Not for Full Range Use.

Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 1.25 cu.ft

V(total) = 1.378 cu.ft

Qtc = 1.007

QL = 19.9

F3 = 76.54 Hz

Fill = heavy

Driver Properties

--Description--

Name: Delta-15LF (8 ohm)

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised 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 = 41 Hz

Qms = 6.65

Vas = 186.1 liters

Xmax = 4.8 mm

Sd = 856.3 sq.cm

Qes = 0.64

Re = 6.3 ohms

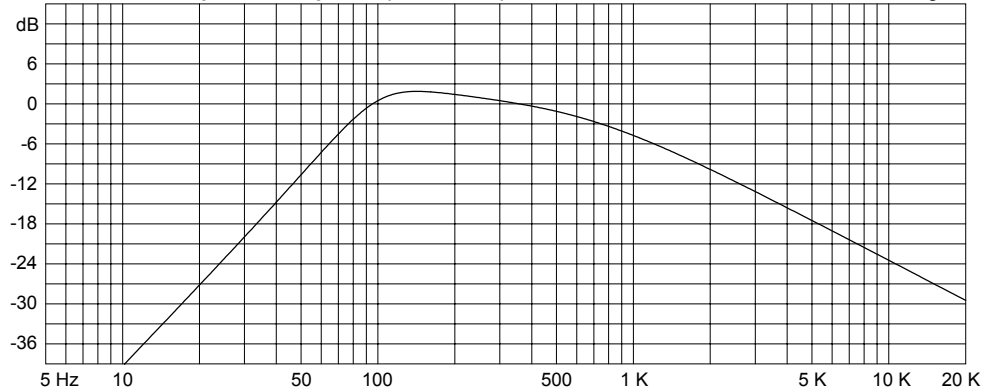
Le = 1.49 mH

Z = 8 ohms

Pe = 500 watts

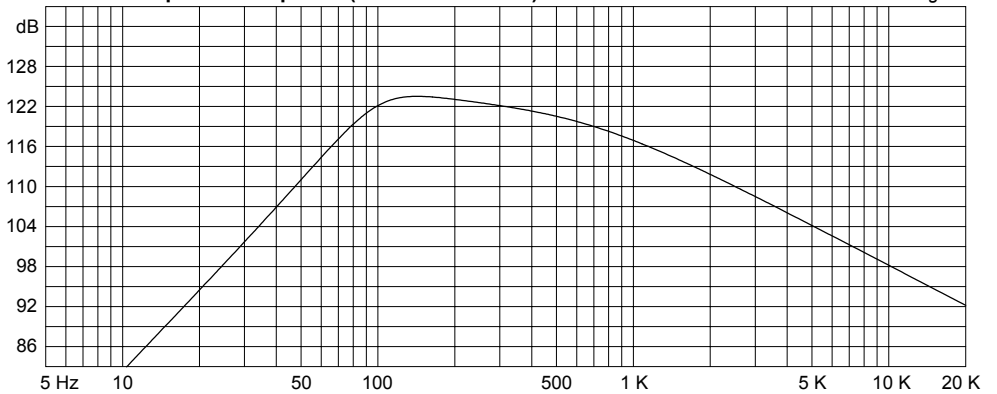
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



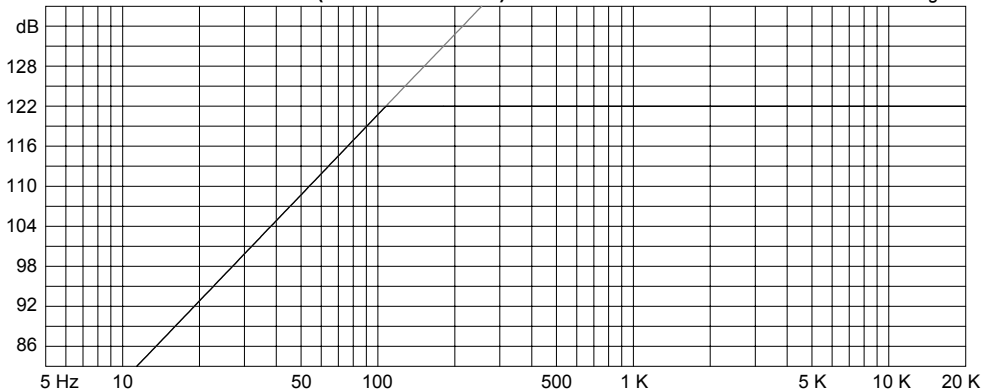
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 350 watts

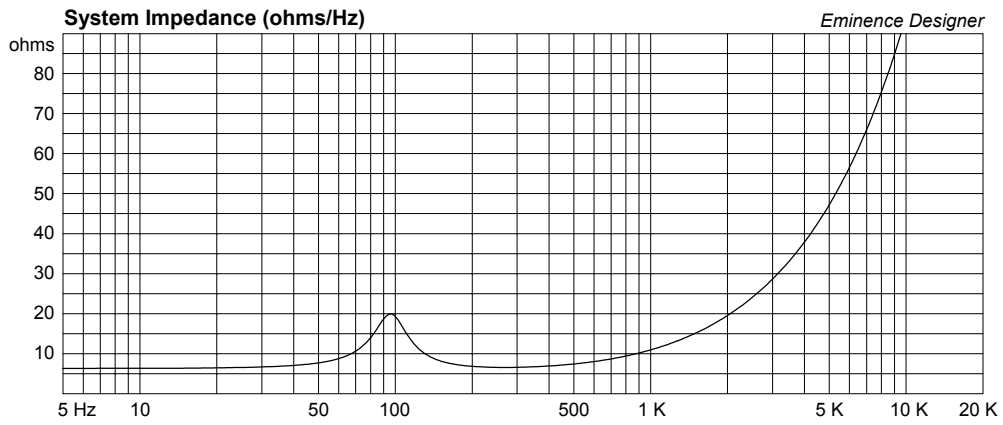
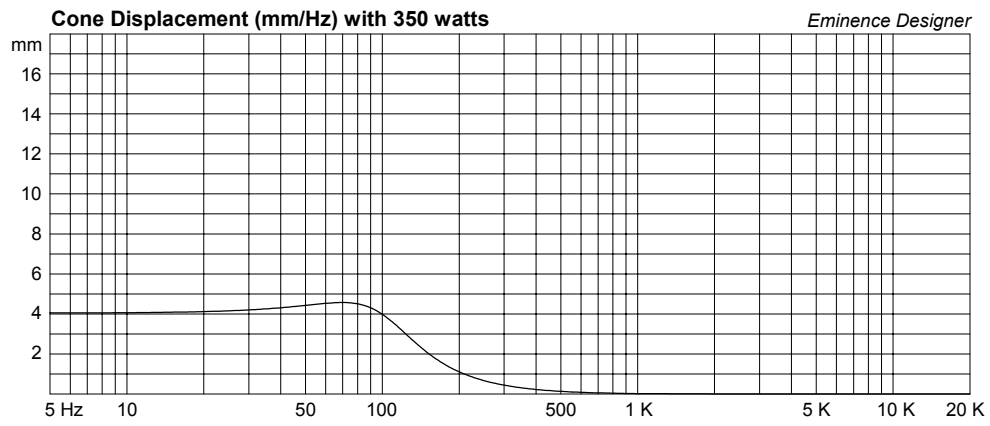
Eminence Designer



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

Eminence Designer





Delta15LFA Small Vented Cabinet

By McJerry, Eminence Speaker LLC

Displacement Limited to 325 Watts; F3 of 56 Hz. Use a steep High Pass filter set to 50 Hz.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 2.95 cu.ft

V(total) = 3.146 cu.ft

Fb = 58.77 Hz

QL = 7

F3 = 56.09 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 3.536 in

Driver Properties

--Description--

Name: Delta-15LF (8 ohm)

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised 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 = 41 Hz

Qms = 6.65

Vas = 186.1 liters

Xmax = 4.8 mm

Sd = 856.3 sq.cm

Qes = 0.64

Re = 6.3 ohms

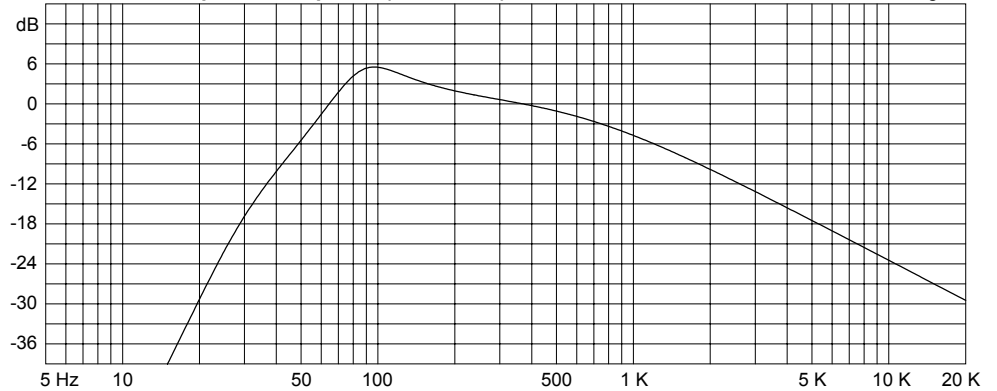
Le = 1.49 mH

Z = 8 ohms

Pe = 500 watts

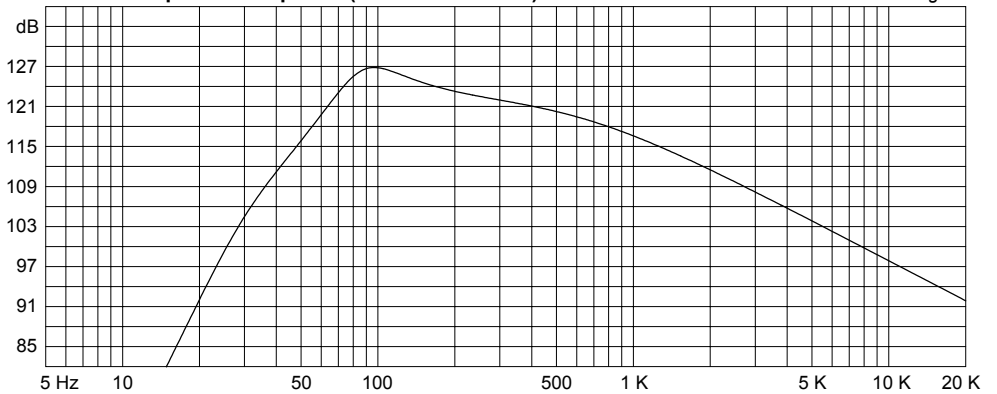
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 325 watts

Eminence Designer



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

Eminence Designer

