

Specification

Nominal Basket Diameter	12", 304.8mm
Nominal Impedance*	4 ohms
Power Rating**	
Watts	500W
Music Program	1000W
Resonance	52Hz
Usable Frequency Range***	45Hz-2.3kHz
Sensitivity	93.1
Magnet Weight	56 oz.
Gap Height	0.375", 9.53mm
Voice Coil Diameter	2.5", 63.5mm

Thiele & Small Parameters

Resonant Frequency (fs)	52Hz
DC Resistance (Re)	3.2
Coil Inductance (Le)	.94mH
Mechanical Q (Qms)	8.21
Electromagnetic Q (Qes)	.47
Total Q (Qts)	.44
Compliance Equivalent Volume (Vas)	63.7 liters / 2.3 cu.ft.
Peak Diaphragm Displacement Volume (Vd)	249cc
Mechanical Compliance of Suspension (Cms)	0.17mm/N
BL Product (BL)	10.9 T-M
Diaphragm Mass inc. Airload (Mms)	53 grams
Efficiency Bandwidth Product (EBP)	111.4
Maximum Linear Excursion (Xmax)	4.8mm
Surface Area of Cone (Sd)	519.5 cm ²
Maximum Mechanical Limit (Xlim)	13.5mm

Mounting Information

Recommended Enclosure Volume	
Sealed	21-74 liters/0.7-2.6 cu.ft.
Vented	28-110 liters/1.0-3.9 cu.ft.
Driver Volume Displaced	137.3 cu.in. / 2.25 liters
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", 294.4mm
Depth	5.88", 149.35mm
Net Weight	11.8 lbs., 5.4 kg
Shipping Weight	14 lbs., 6.4 kg

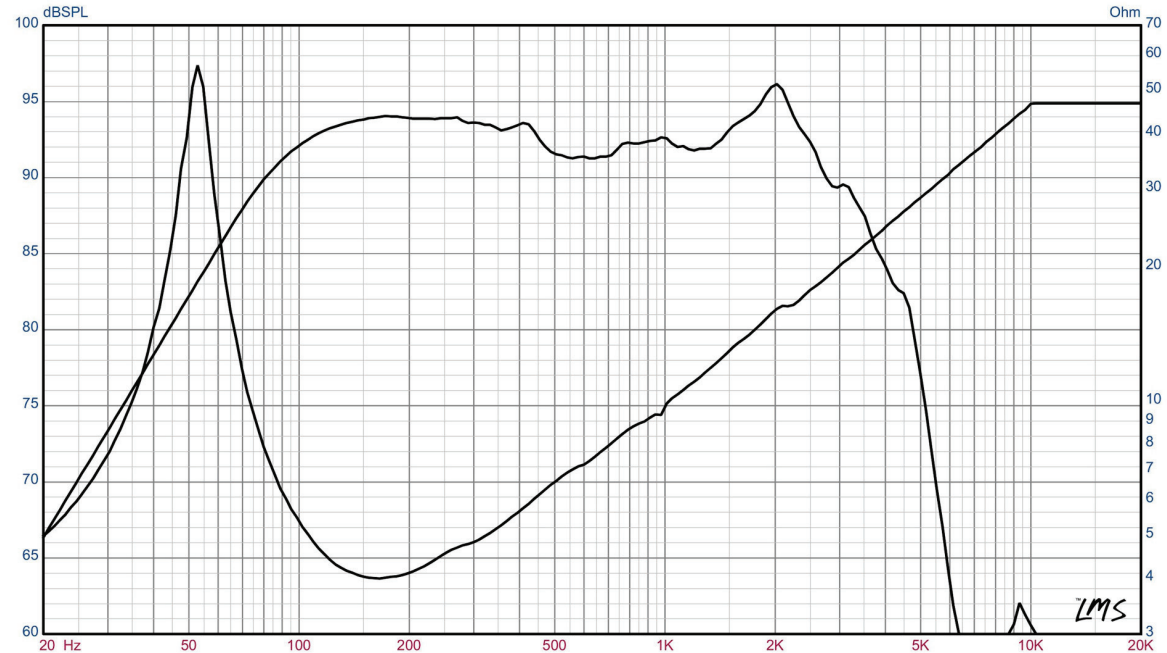
Materials of Construction

Copper voice coil
 Kapton
 Ferrite magnet
 Vented and extended core
 Pressed steel basket
 Treated Paper Cone
 Cloth cone edge
 Solid composition paper dust cap



DELTA-12LFC Neodymium 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, non-temperature controlled environment.

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

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 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)

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

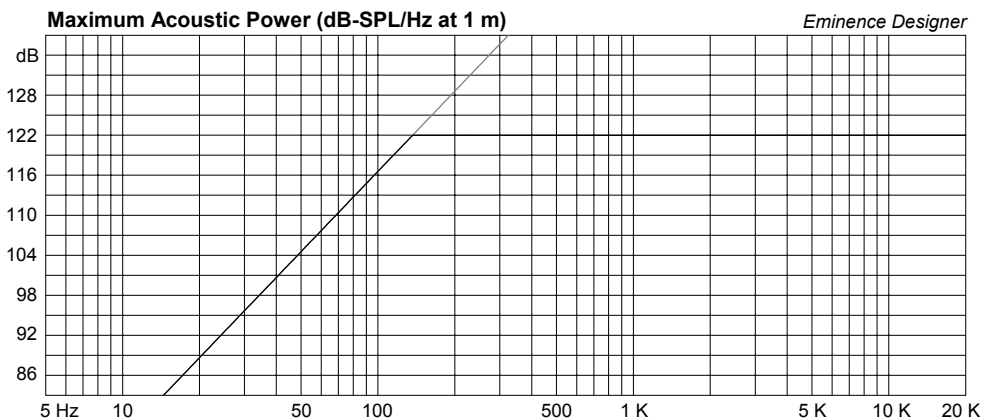
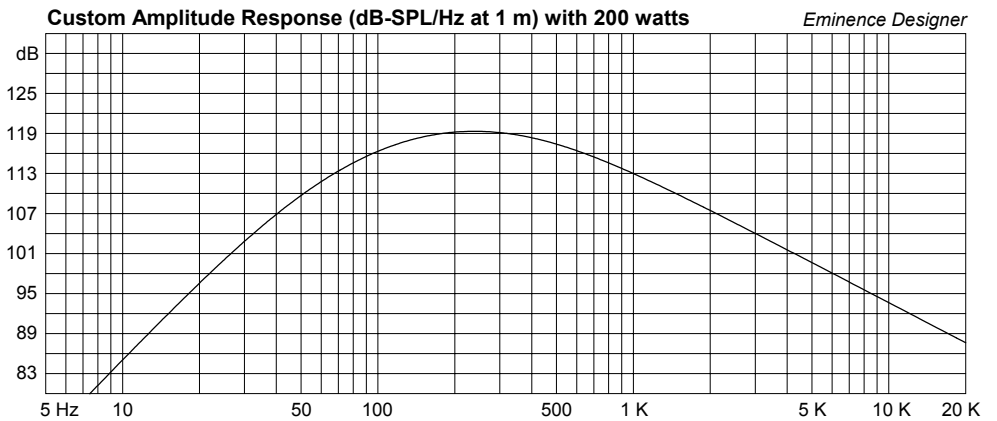
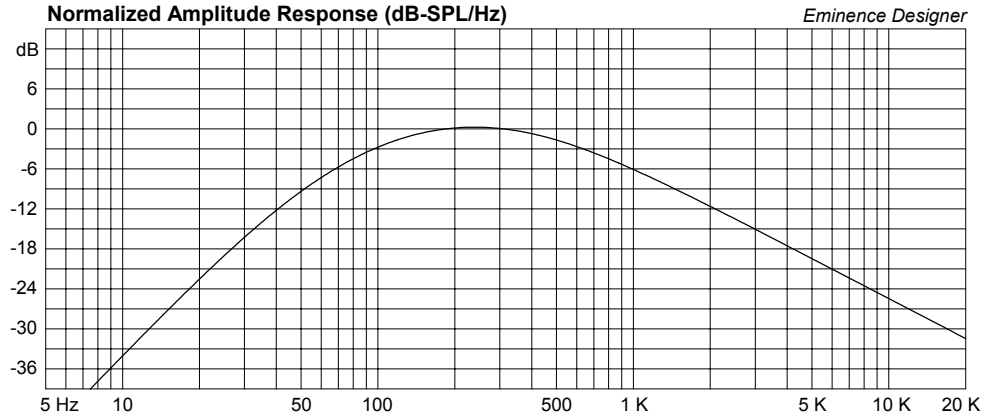
Qes = 0.47

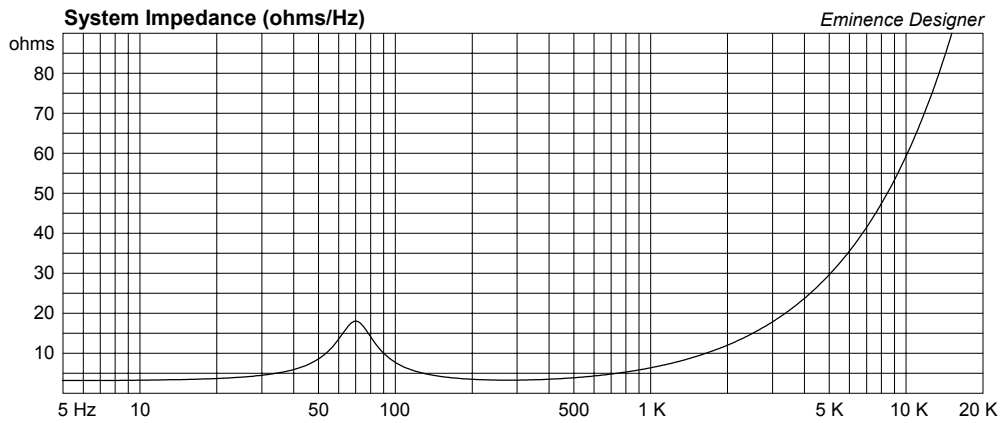
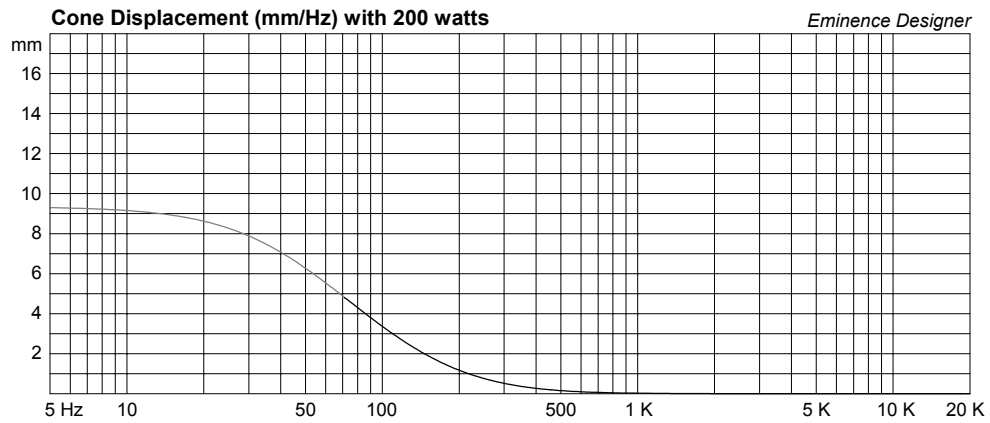
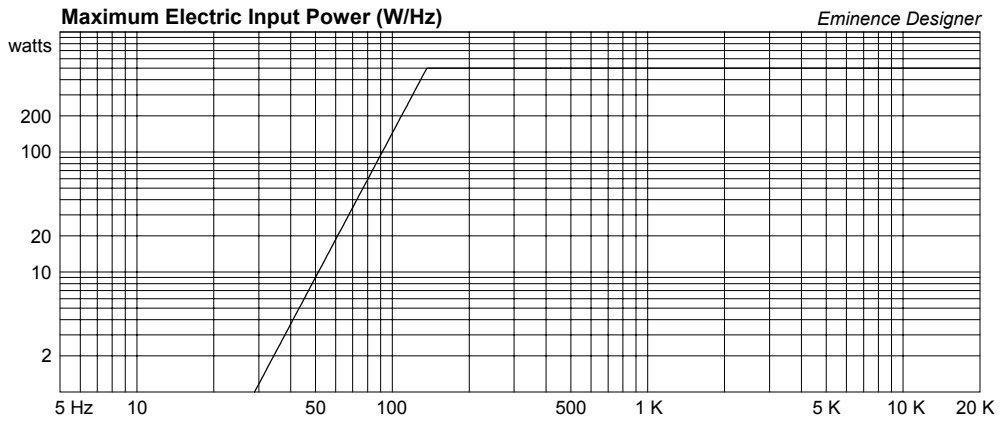
Re = 3.16 ohms

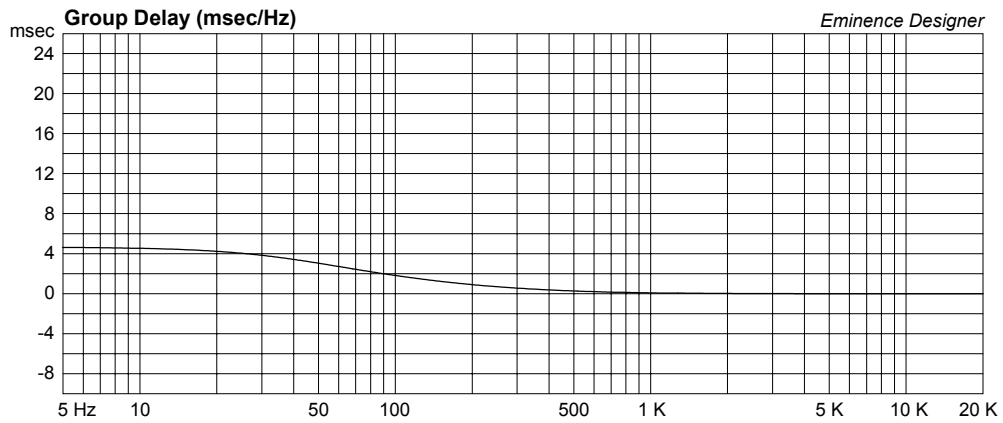
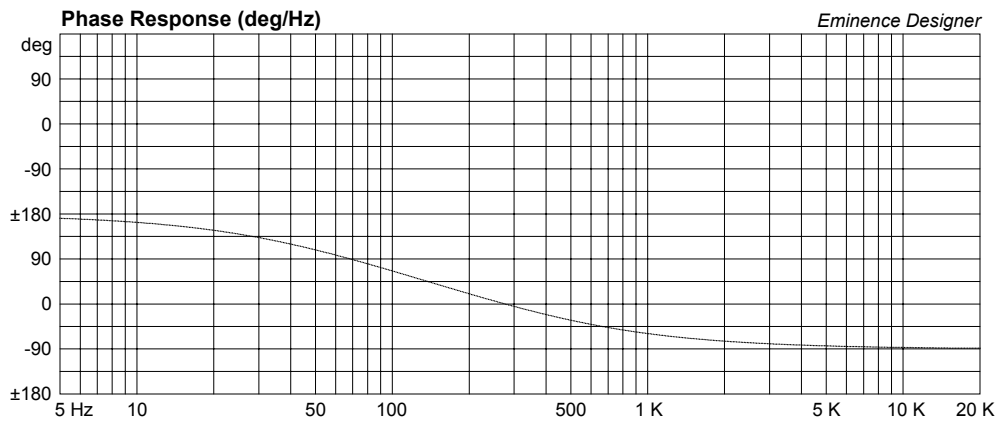
Le = 0.94 mH

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

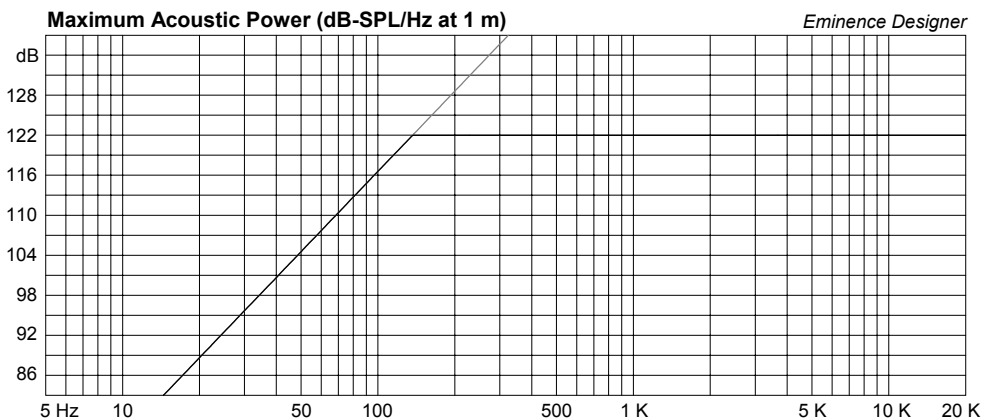
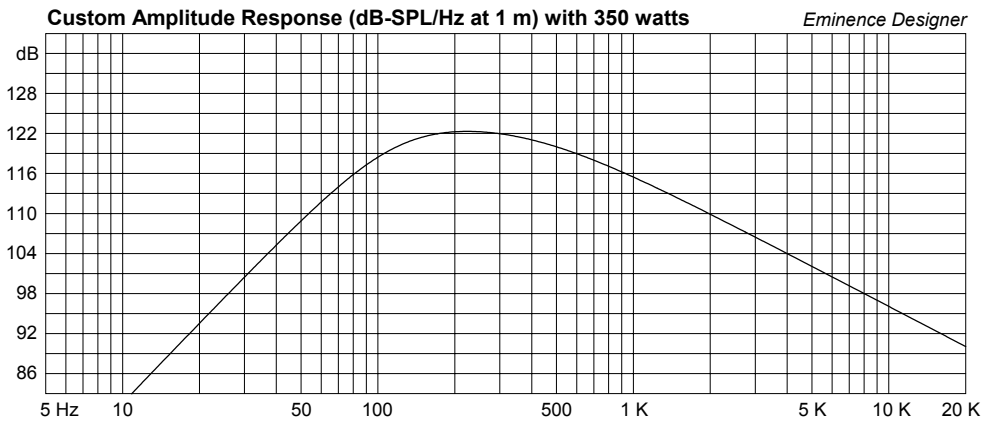
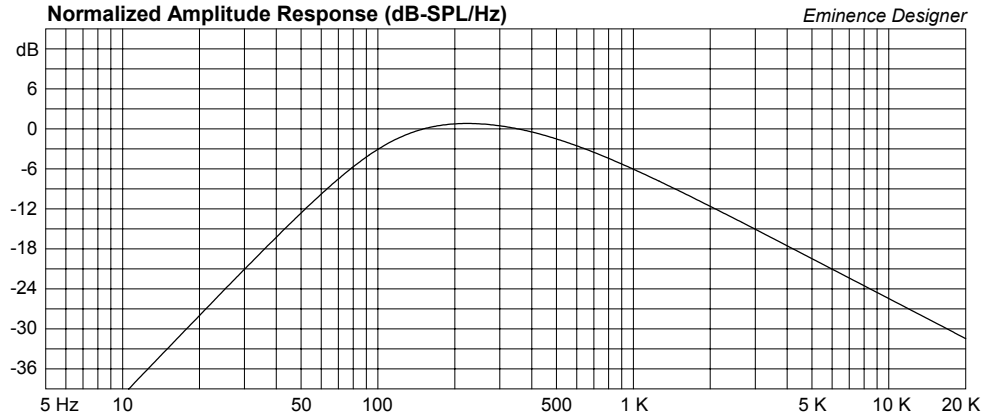
Qes = 0.47

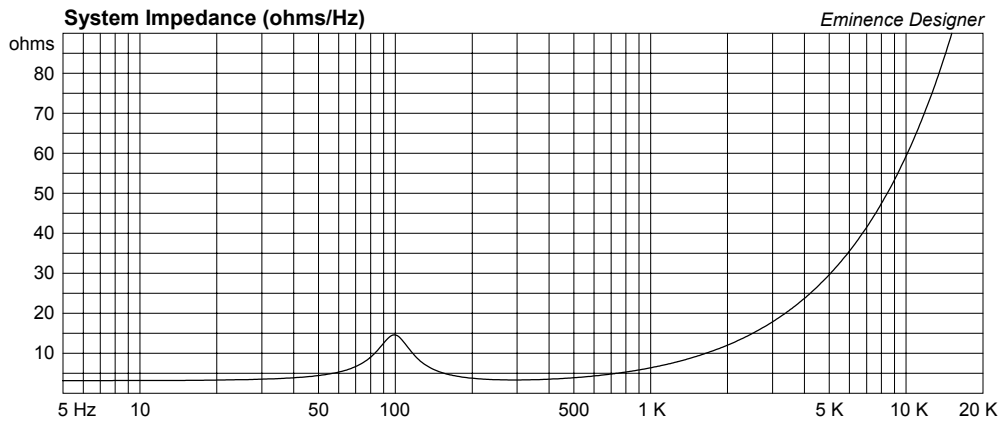
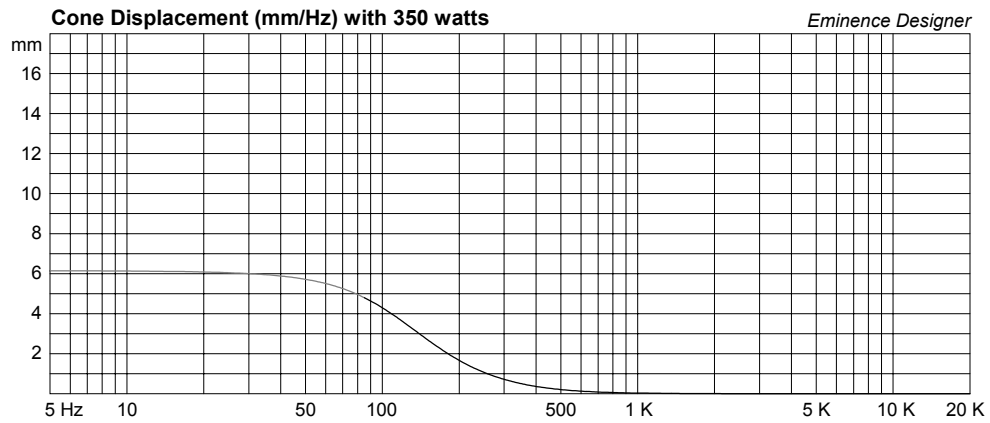
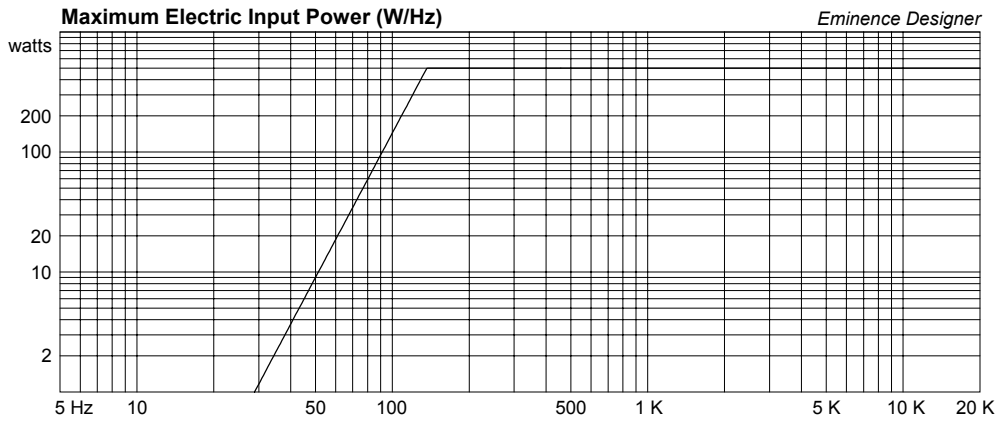
Re = 3.16 ohms

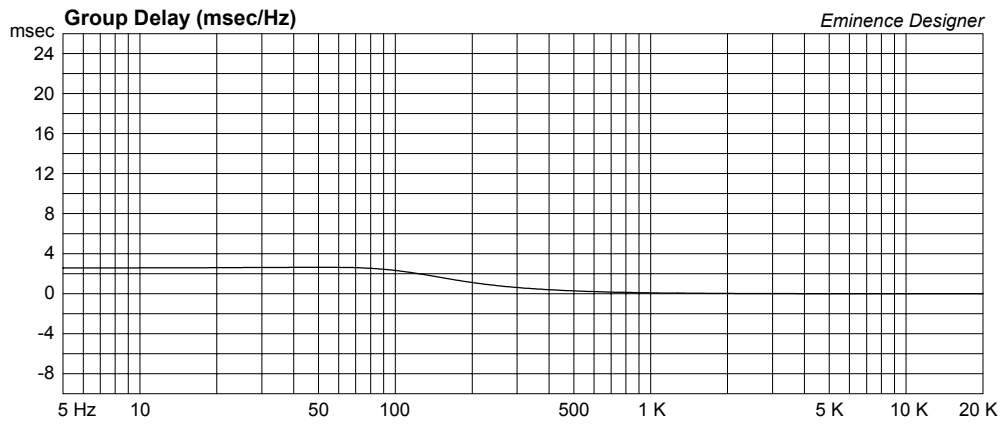
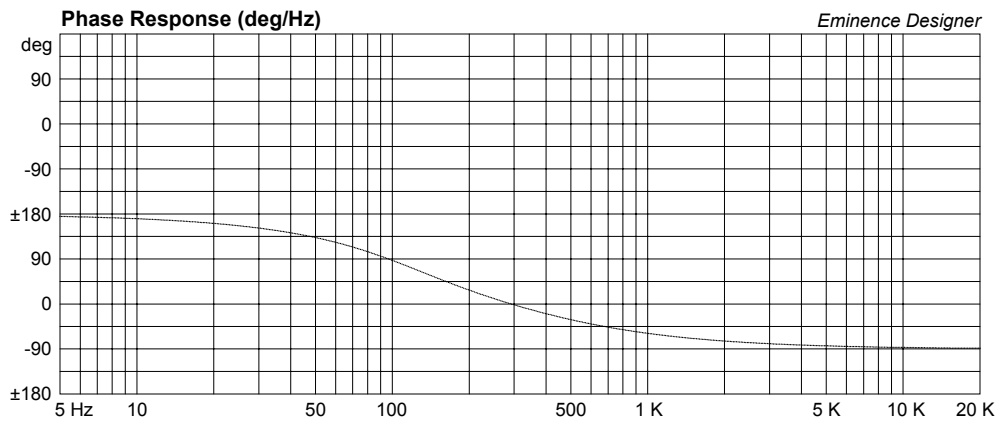
Le = 0.94 mH

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

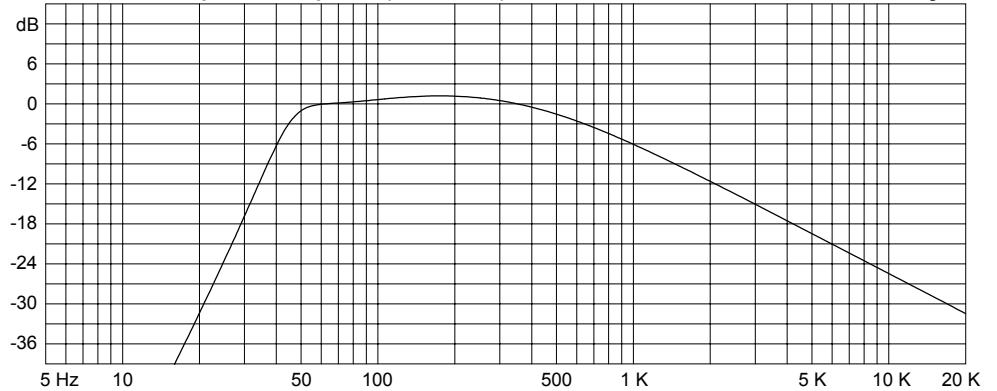
Le = 0.94 mH

Z = 4 ohms

Pe = 500 watts

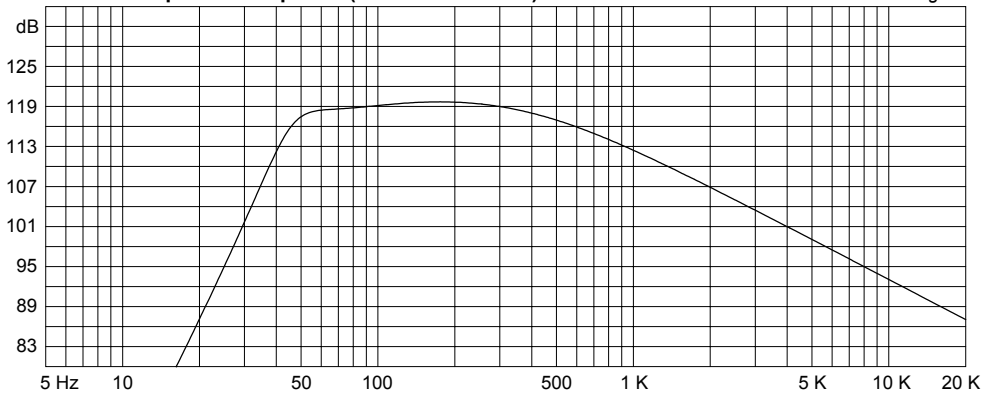
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



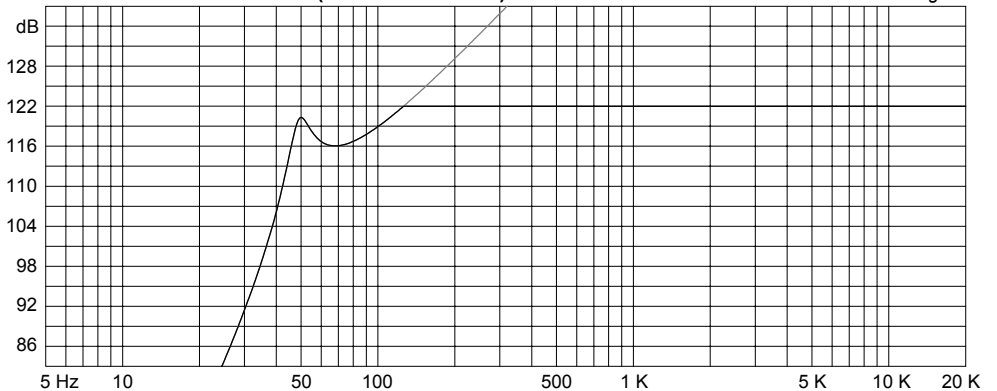
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 175 watts

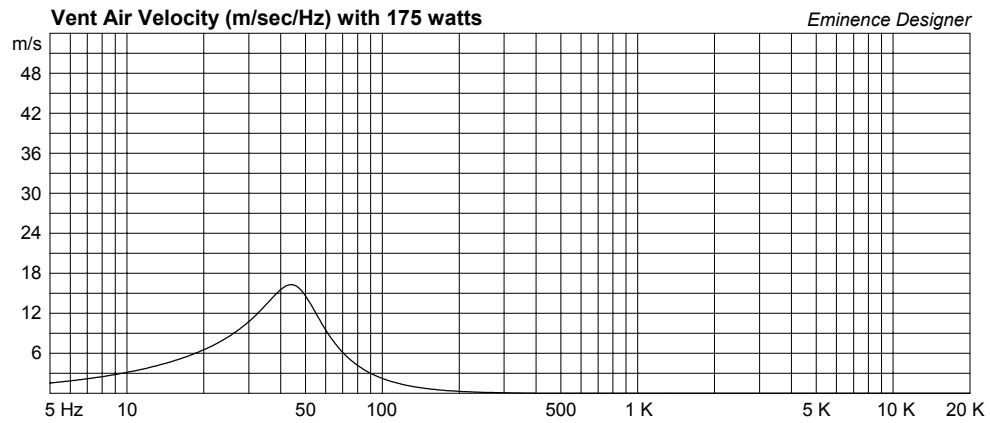
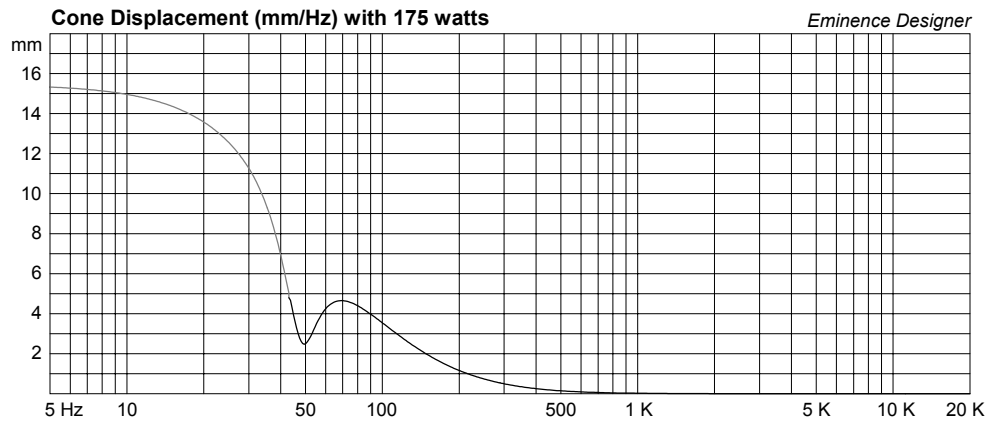
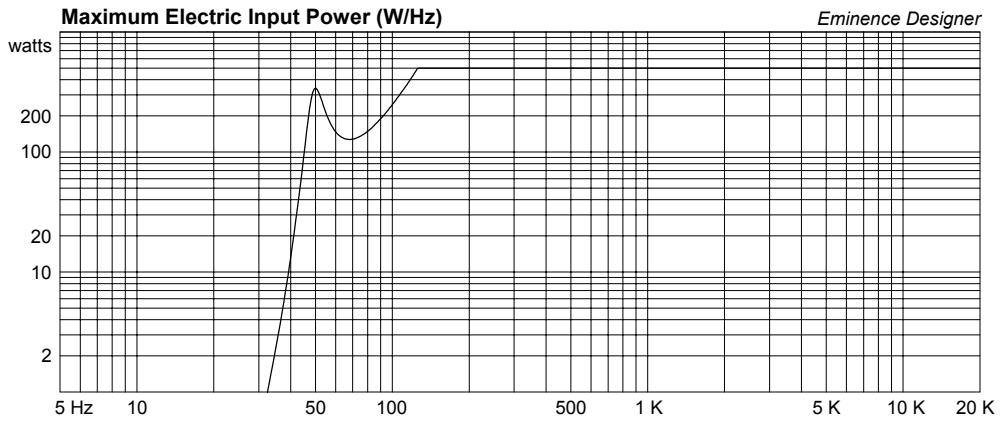
Eminence Designer

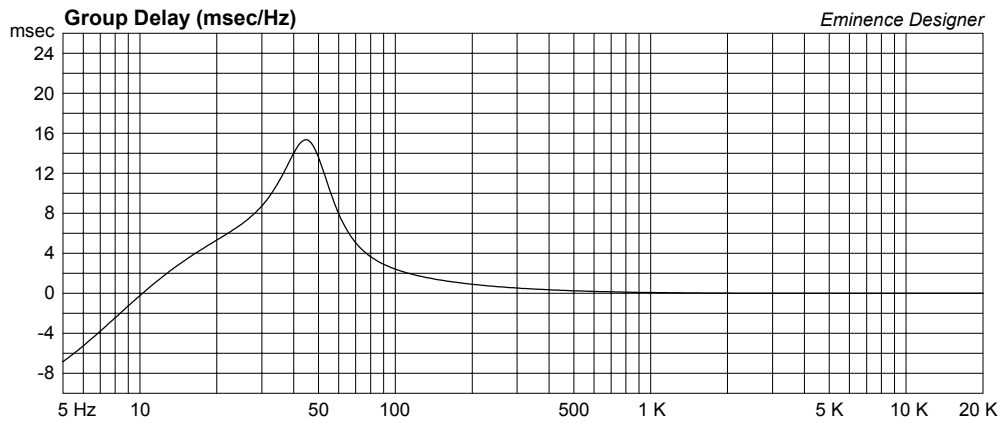
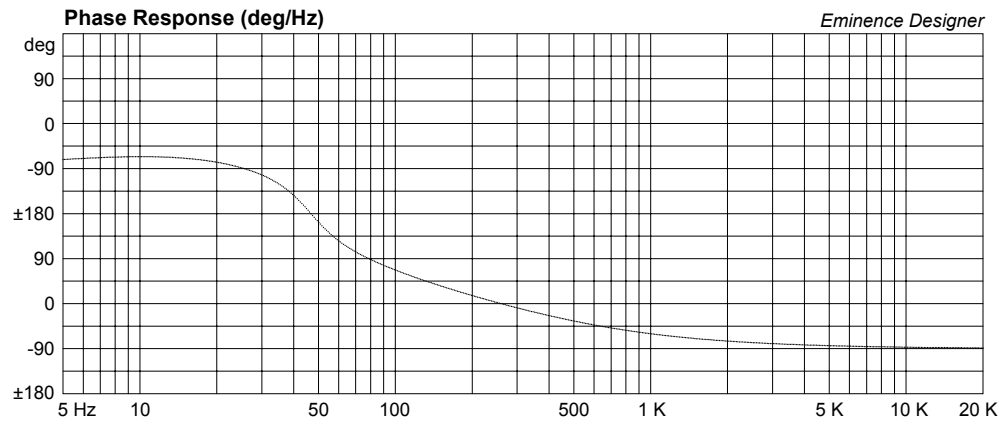
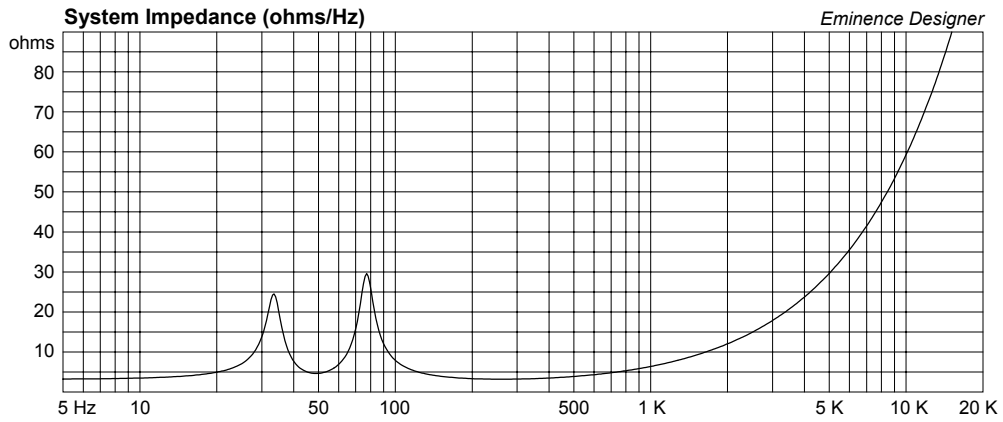


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

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

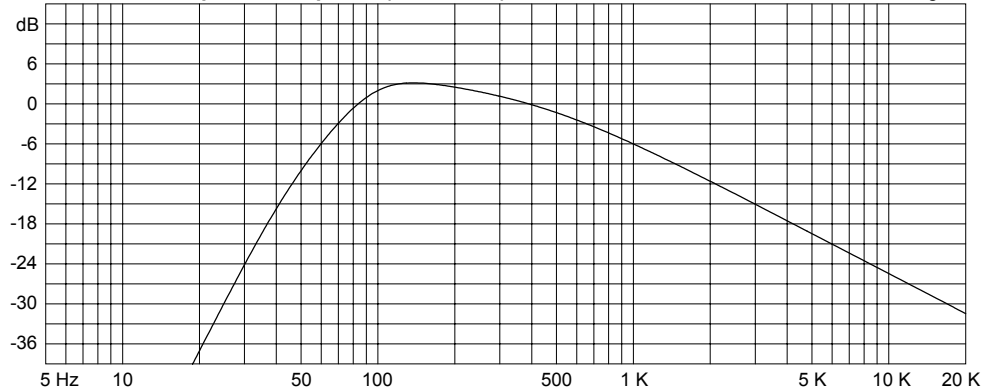
Le = 0.94 mH

Z = 4 ohms

Pe = 500 watts

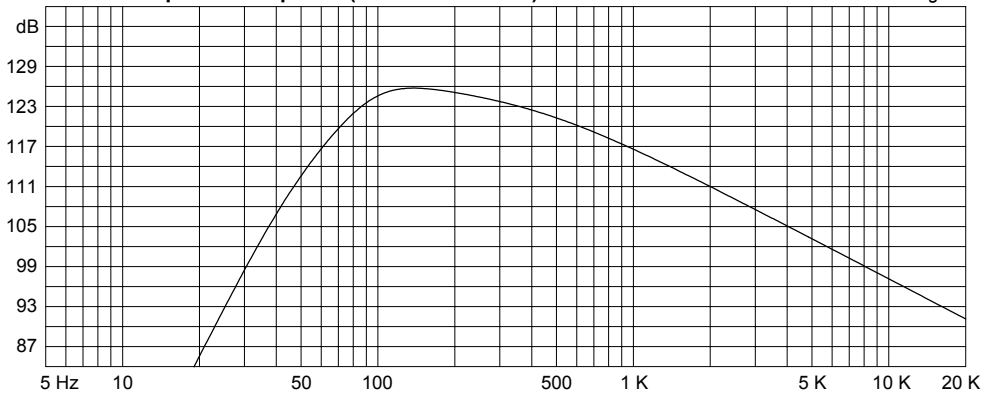
Normalized Amplitude Response (dB-SPL/Hz)

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

