

Specification

Nominal Basket Diameter	15", 381mm
Nominal Impedance*	16 ohms
Power Rating**	400W
Resonance	45Hz
Usable Frequency Range	64Hz-4kHz
Sensitivity***	100
Magnet Weight	56 oz.
Gap Height	0.375", 9.53mm
Voice Coil Diameter	2.5", 63.5mm

Thiele & Small Parameters

Resonant Frequency (fs)	45Hz
DC Resistance (Re)	11.3
Coil Inductance (Le)	1.35mH
Mechanical Q (Qms)	6.54
Electromagnetic Q (Qes)	0.67
Total Q (Qts)	0.61
Compliance Equivalent Volume (Vas)	204 liters / 7.2 cu. ft.
Peak Diaphragm Displacement Volume (Vd)	137cc
Mechanical Compliance of Suspension (Cms)	0.19mm/N
BL Product (BL)	17.6 T-M
Diaphragm Mass inc. Airload (Mms)	64 grams
Efficiency Bandwidth Product (EBP)	68
Maximum Linear Excursion (Xmax)	1.6mm
Surface Area of Cone (Sd)	856.3 cm ²
Maximum Mechanical Limit (Xlim)	11.0mm

Mounting Information

Recommended Enclosure Volume	
Sealed	31-42.5 liters/1.09-1.5 cu.ft.
Vented	81.8-87.8 liters/2.89-3.1 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	6.05", 154mm
Net Weight	12.3 lbs., 5.6 kg
Shipping Weight	14.3 lbs., 6.5 kg

Materials of Construction

Copper voice coil
 Polyimide former
 Ferrite magnet
 Vented core
 Pressed steel basket
 Paper Cone
 Cloth cone edge
 Solid composition paper dust cap



DELTA-15B American Standard Series

Recommended for professional audio as a mid-bass or vocal wedge in a sealed enclosure. Also suitable as a mid-bass or woofer in vented 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. ie: 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)

Delta15B Med Vented Cabinet

By McJerry, Eminence Speaker LLC
Displacement Limited to 50 Watts; F3 of 64.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 2.85 cu.ft

V(total) = 2.99 cu.ft

Fb = 67.38 Hz

QL = 7

F3 = 64.18 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4.041 in

Lv = 0.75 in

Driver Properties

--Description--

Name: Delta-15 (16 ohm)

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Ribbed paper cone.

Suspension: 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 = 45.48 Hz

Qms = 6.54

Vas = 203.7 liters

Xmax = 1.6 mm

Sd = 856.3 sq.cm

Qes = 0.67

Re = 11.3 ohms

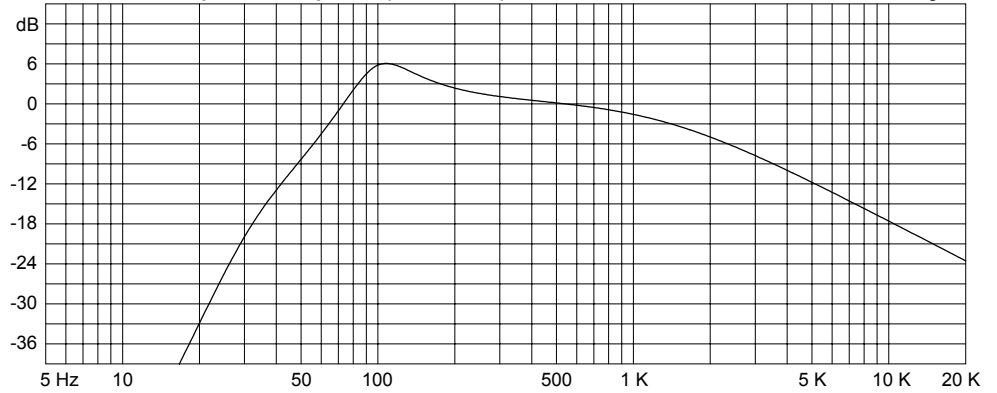
Le = 1.35 mH

Z = 16 ohms

Pe = 400 watts

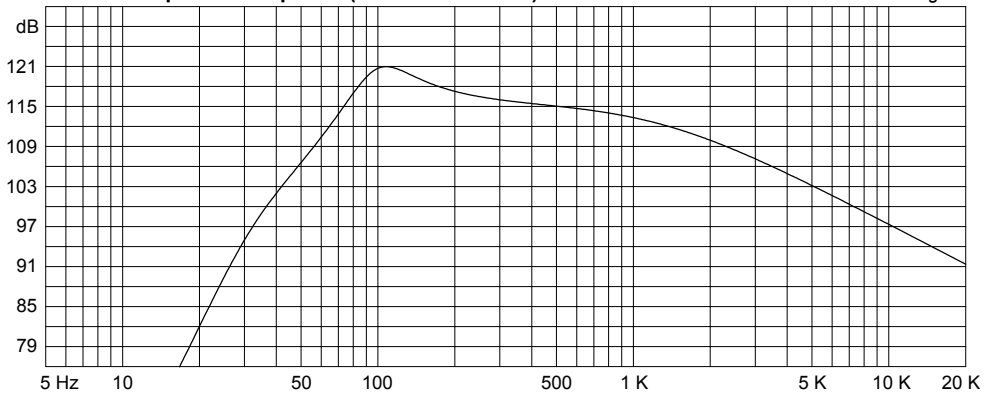
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



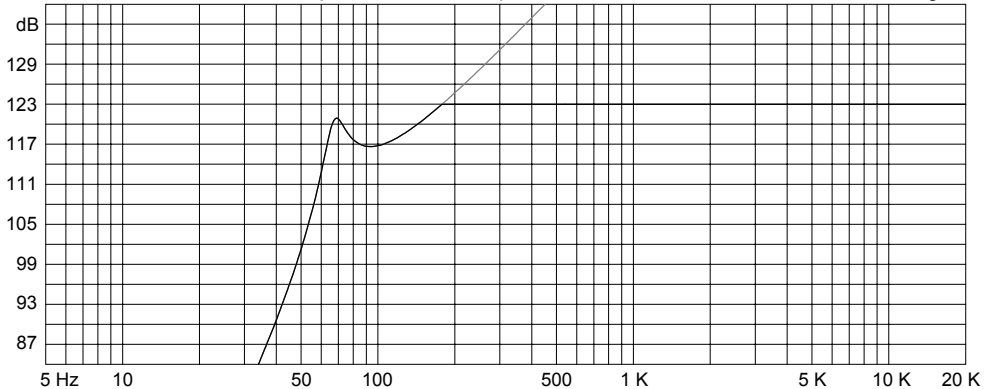
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 50 watts

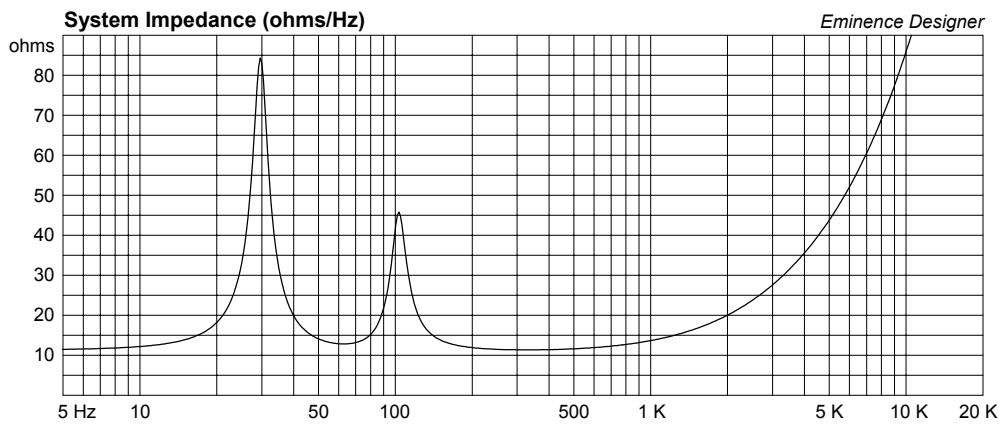
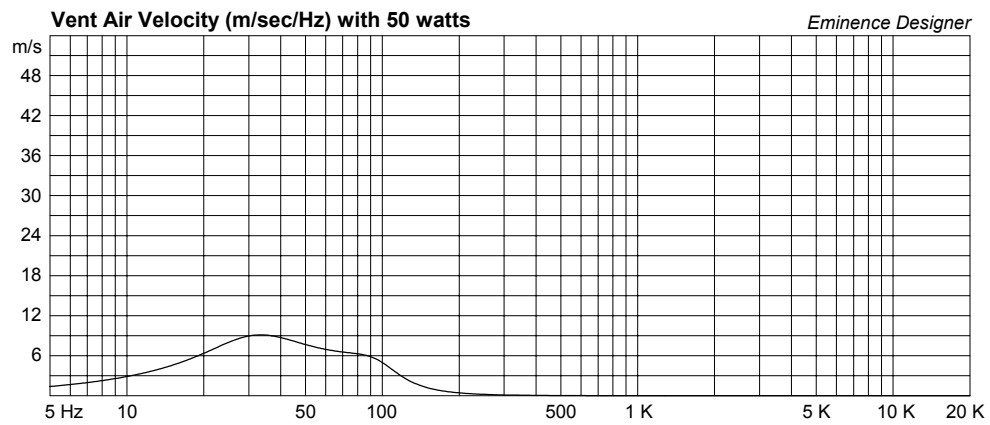
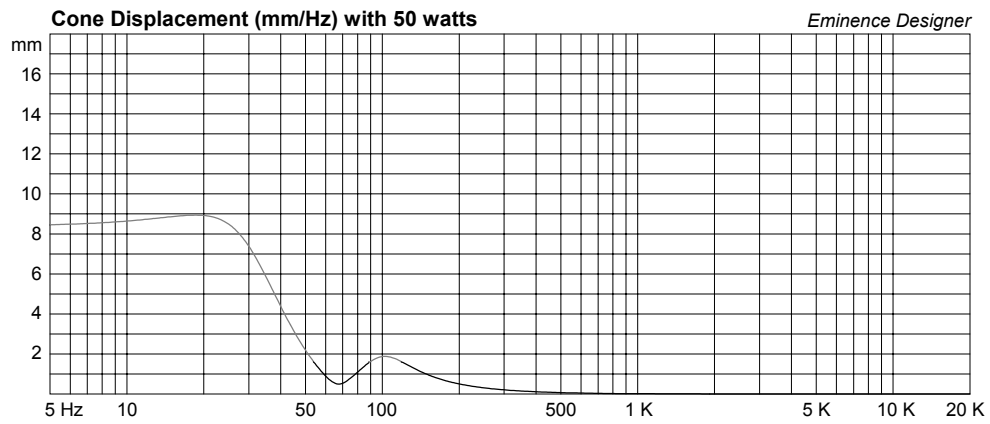
Eminence Designer



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

Eminence Designer





Delta15B Sealed Midrange or Vocal Monitor Cabinet

By McJerry, Eminence Speaker LLC

Displacement Limited to 200 Watts. NOT for Full Range Use. Use only with a steep high pass filter at 200 Hz.

Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 0.964 cu.ft

V(total) = 1.092 cu.ft

Qtc = 1.162

QL = 19.85

F3 = 90.99 Hz

Fill = heavy

Driver Properties

--Description--

Name: Delta-15 (16 ohm)

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Ribbed paper cone.

Suspension: 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 = 45.48 Hz

Qms = 6.54

Vas = 203.7 liters

Xmax = 1.6 mm

Sd = 856.3 sq.cm

Qes = 0.67

Re = 11.3 ohms

Le = 1.35 mH

Z = 16 ohms

Pe = 400 watts

