

## Specification

Nominal Basket Diameter	15", 381mm
Nominal Impedance*	8 ohms
Power Rating**	
Watts	400W
Music Program	800W
Resonance	42Hz
Usable Frequency Range***	54Hz-4.2kHz
Sensitivity	101.6
Magnet Weight	80 oz
Gap Height	0.375", 9.53mm
Voice Coil Diameter	2.5", 63.5mm

## Thiele & Small Parameters

Resonant Frequency (fs)	42Hz
DC Resistance (Re)	5.71
Coil Inductance (Le)	0.83mH
Mechanical Q (Qms)	4.73
Electromagnetic Q (Qes)	0.44
Total Q (Qts)	0.40
Compliance Equivalent Volume (Vas)	243.5 ltr/8.6 cu. ft.
Peak Diaphragm Displacement Volume (Vd)	368cc
Mechanical Compliance of Suspension (Cms)	0.24mm/N
BL Product (BL)	14.5 T-M
Diaphragm Mass inc. Airload (Mms)	61 grams
Efficiency Bandwidth Product (EBP)	95
Maximum Linear Excursion (Xmax)	4.3mm
Surface Area of Cone (Sd)	856.3cm <sup>2</sup>
Maximum Mechanical Limit (Xlim)	13.7mm

## Mounting Information

Recommended Enclosure Volume	
Sealed	28-42.5 ltr/1-1.5 cu. ft.
Vented	57-133 ltr/2-4.7 cu. ft.
Overall Diameter	15.32", 389mm
Baffle Hole Diameter	14.0", 356mm
Front Sealing Gasket	Fitted as Standard
Rear Sealing Gasket	Fitted as Standard
Mounting Holes Diameter	0.28", 7.1mm
Mounting Holes B.C.D.	14.56", 369.9mm
Depth	6.06", 154mm
Net Weight	16.6 lbs, 7.5 kg
Shipping Weight	19.1 lbs, 8.7 kg

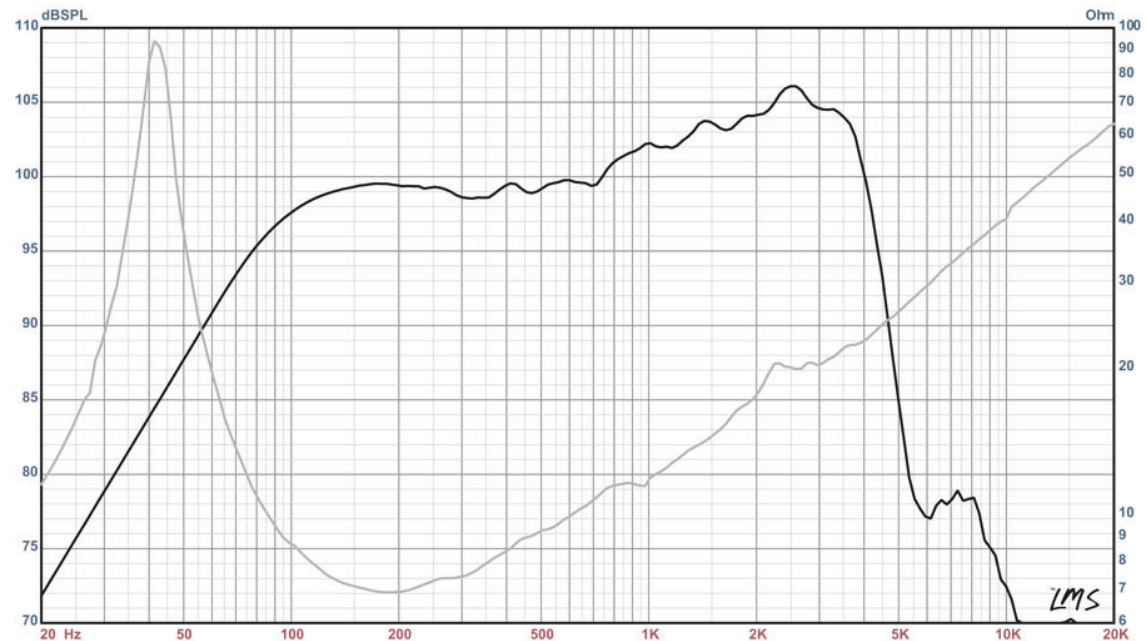
## Materials of Construction

Coil Construction	Aluminum
Coil	Polyimide
Magnet Composition	Ferrite
Core Details	Vented And Extended
Basket Materials	Die-Cast Aluminum
Cone Composition	Paper
Cone Edge Composition	Cloth
Dust Cap Composition	Solid Composition Paper



## DELTA PRO-15A Professional Series

Recommended for professional audio in both sealed and vented enclosures. Ideal for full-range, mid/hi, and monitor wedges.



\* 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. ie: 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)

# DeltaPro15 Large Vented Box, Med Power, Med F3. Ok Full Range

By McJerry, Eminence Speaker LLC

Displacement limited to 200 watts. Must use a 24 dB per octave high pass filter set to 45 Hz or higher to protect driver from overexcursion.

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## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 4.5 cu.ft

V(total) = 4.651 cu.ft

Fb = 53 Hz

QL = 7

F3 = 61.26 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 3.958 in

Lv = 0.75 in

## Driver Properties

--Description--

Name: Delta Pro-15

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Ribbed paper cone.

Suspension: Cloth surround.

Dust Cap: Solid composition paper dust cap.

Frame: Diecast aluminum basket.

Voice Coil: 2.5 inch (63.5 mm) AL Wire. Kapton former.

Magnet: 80 oz ferrite magnet.

--Configuration--

**No. of Drivers = 1**

--Mechanical Parameters--

Fs = 42 Hz

Qms = 4.73

Vas = 243.5 liters

Cms = 0.24 mm/N

Mms = 61 g

Rms = 3.41 kg/s

Xmax = 4.3 mm

Xmech = 13.65 mm

P-Dia = 328 mm

Sd = 856.3 sq.cm

P-Vd = 0.363 liters

--Electrical Parameters--

Qes = 0.44

Re = 5.71 ohms

Le = 0.83 mH

Z = 8 ohms

BL = 14.5 Tm

Pe = 400 watts

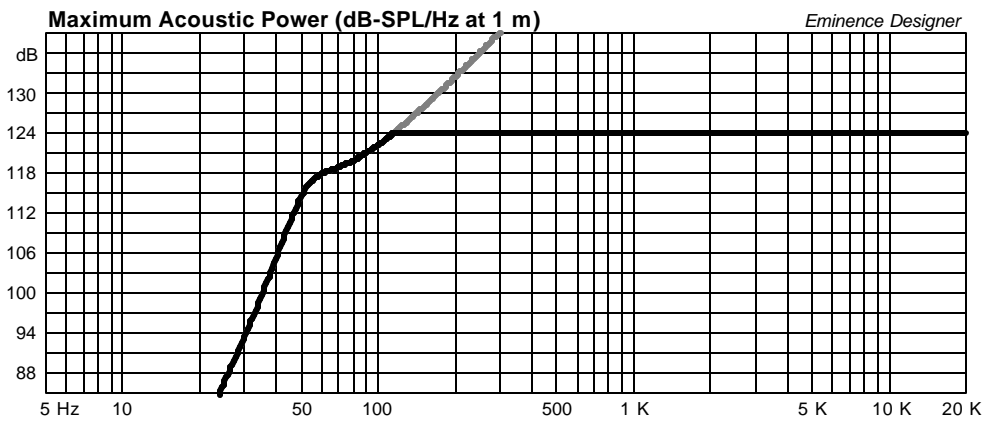
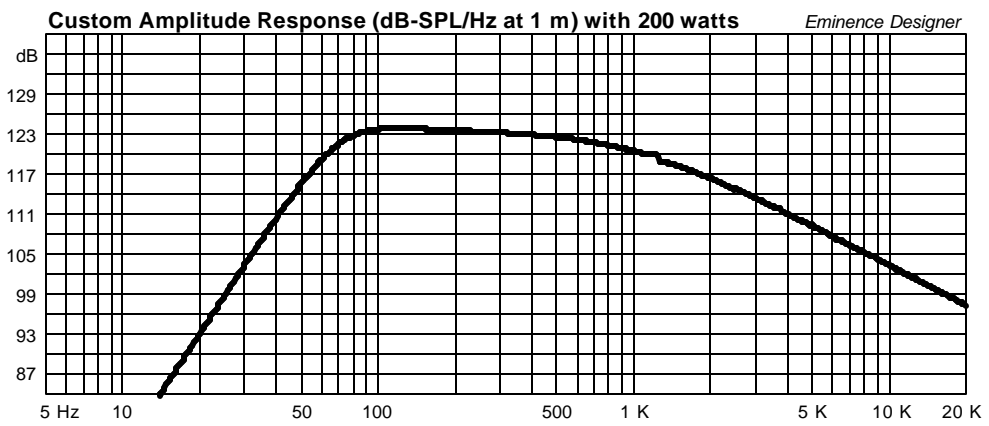
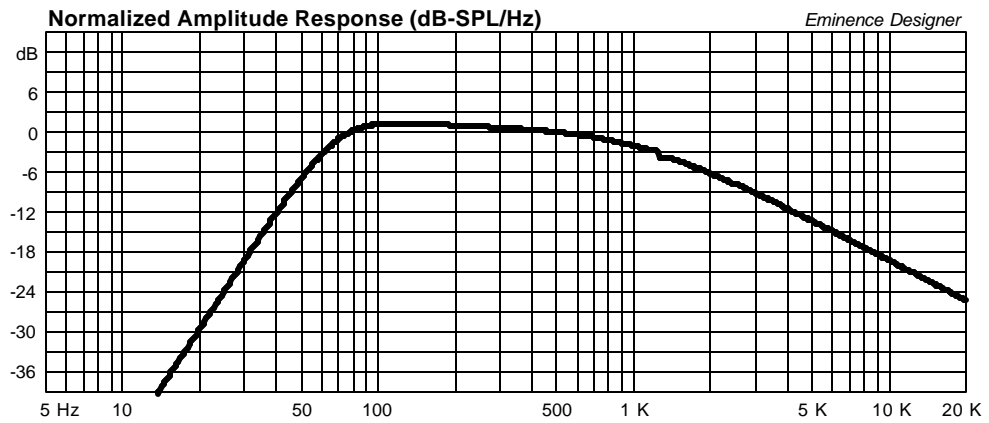
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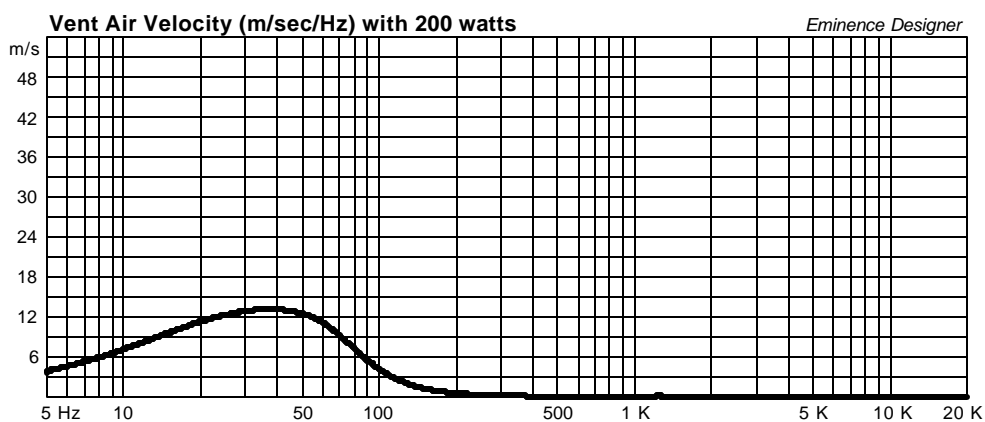
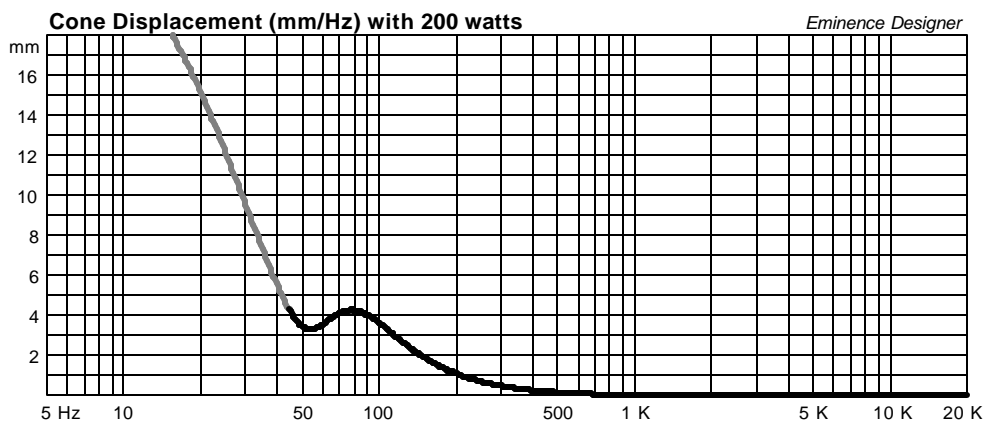
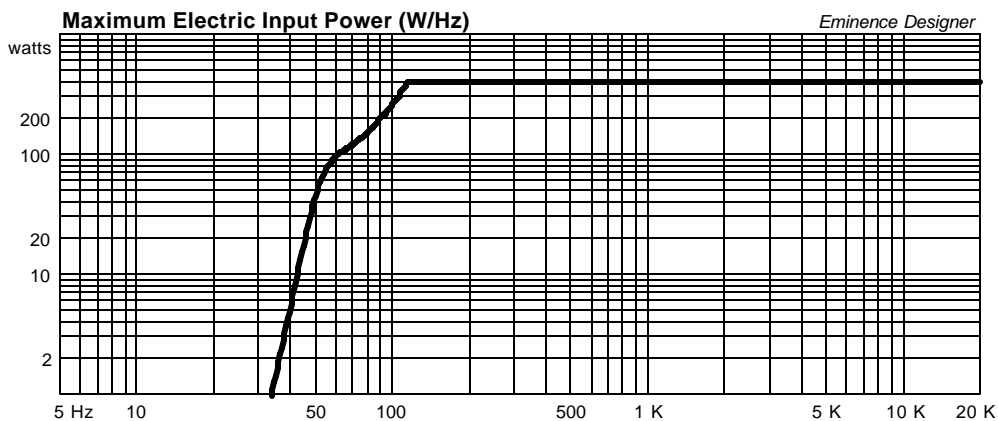
Qts = 0.4

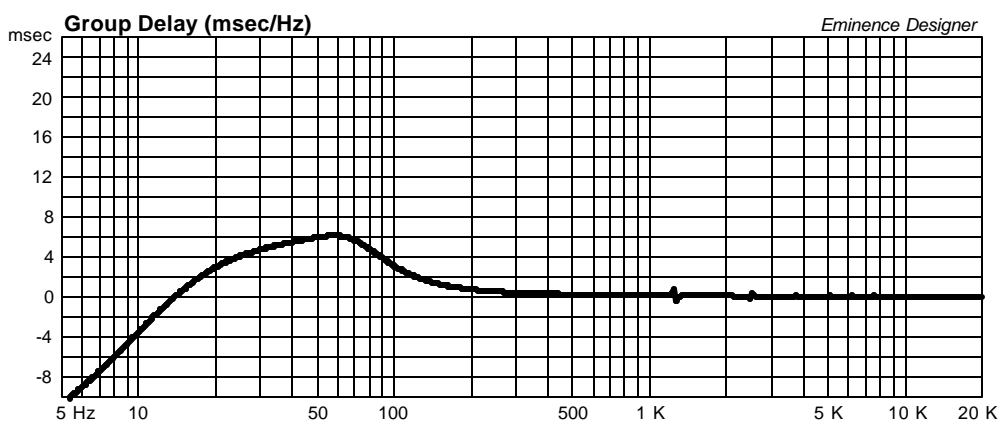
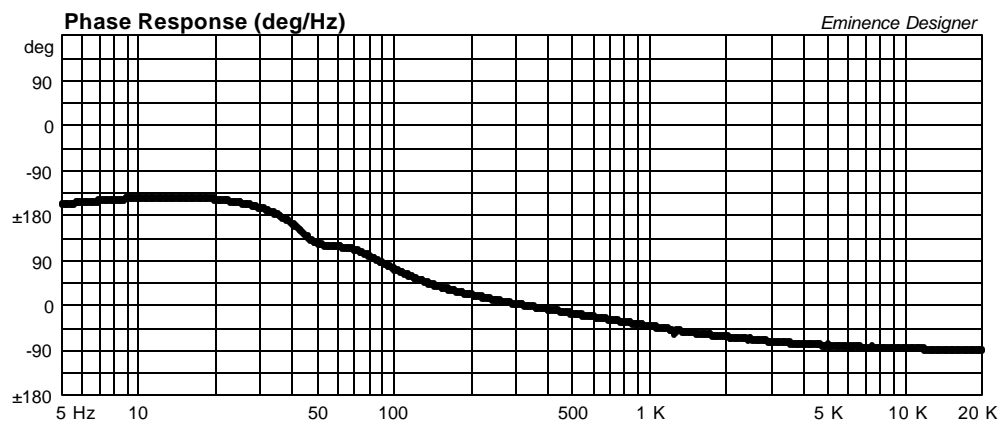
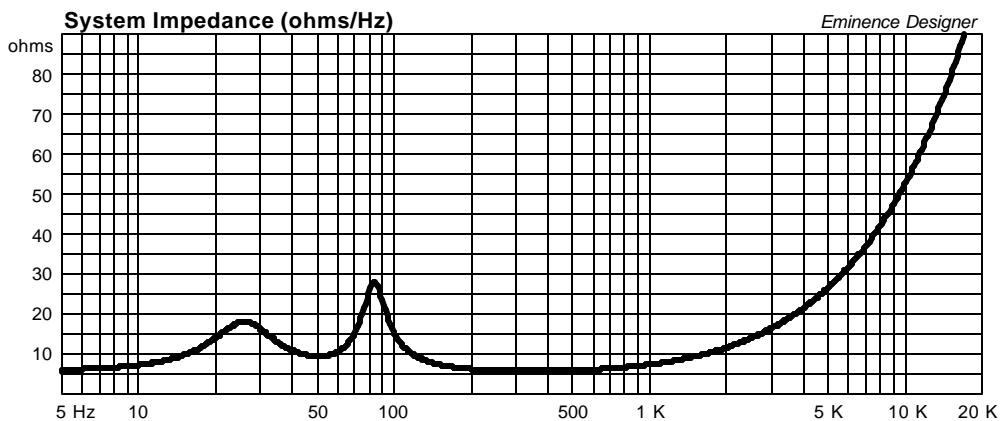
no = 3.953 %

1-W SPL = 98.12 dB

2.83-V SPL = 99.58 dB







# DeltaPro15A Med Vented Box, High Power Sat or Monitor Cab.

By McJerry, Eminence Speaker LLC

Displacement limited to 350 watts. Must use a 24 dB per octave high pass filter set to 100 Hz or higher.

Use with a Sub-woofer system. Good for a 15" Two-way to go with a sub.

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## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 3 cu.ft

V(total) = 3.158 cu.ft

Fb = 75 Hz

QL = 7

F3 = 71.3 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 5.119 in

Lv = 0.75 in

## Driver Properties

--Description--

Name: Delta Pro-15

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Ribbed paper cone.

Suspension: Cloth surround.

Dust Cap: Solid composition paper dust cap.

Frame: Diecast aluminum basket.

Voice Coil: 2.5 inch (63.5 mm) AL Wire. Kapton former.

Magnet: 80 oz ferrite magnet.

--Configuration--

**No. of Drivers = 1**

--Mechanical Parameters--

Fs = 42 Hz

Qms = 4.73

Vas = 243.5 liters

Cms = 0.24 mm/N

Mms = 61 g

Rms = 3.41 kg/s

Xmax = 4.3 mm

Xmech = 13.65 mm

P-Dia = 328 mm

Sd = 856.3 sq.cm

P-Vd = 0.363 liters

--Electrical Parameters--

Qes = 0.44

Re = 5.71 ohms

Le = 0.83 mH

Z = 8 ohms

BL = 14.5 Tm

Pe = 400 watts

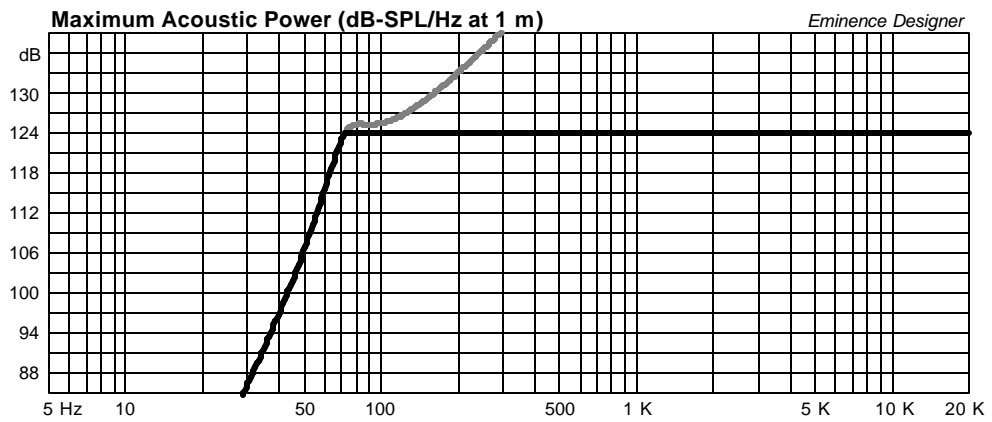
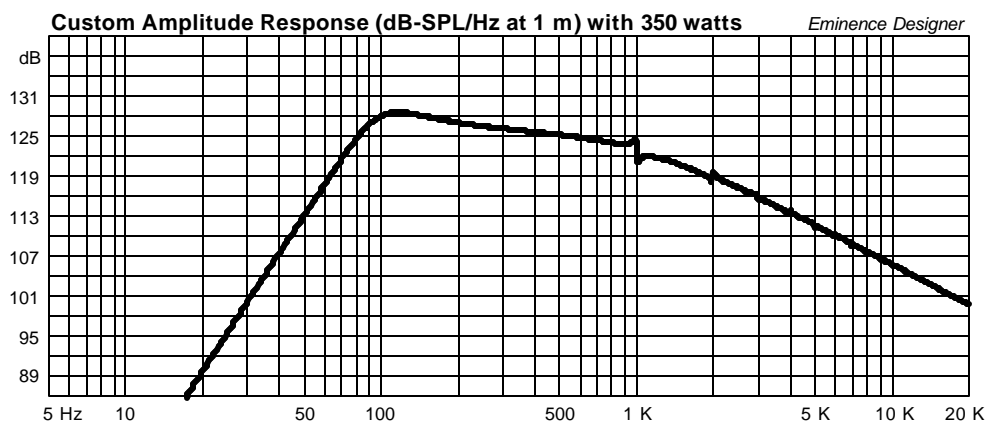
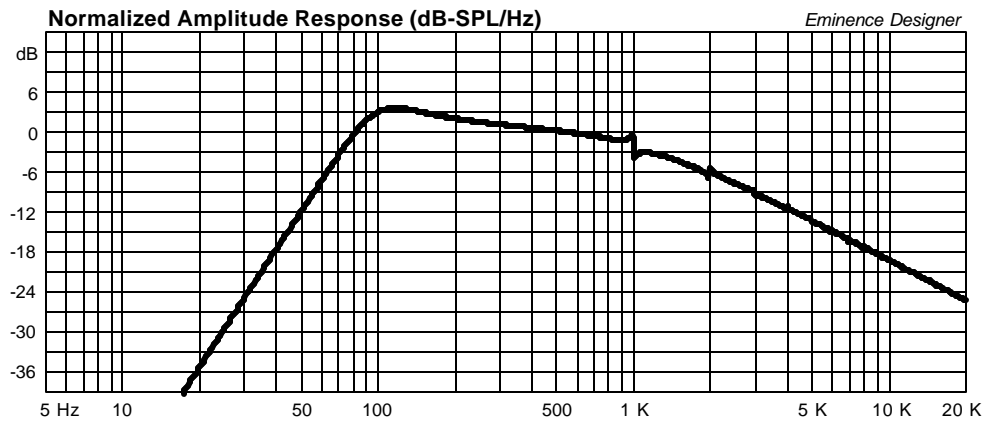
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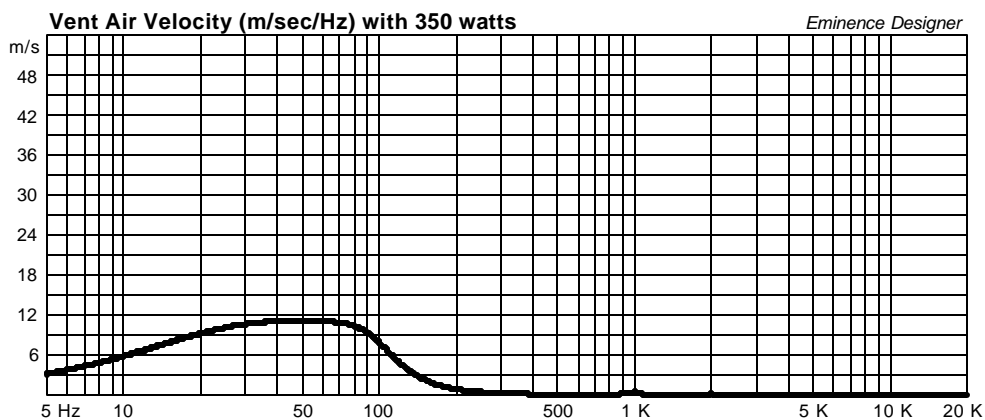
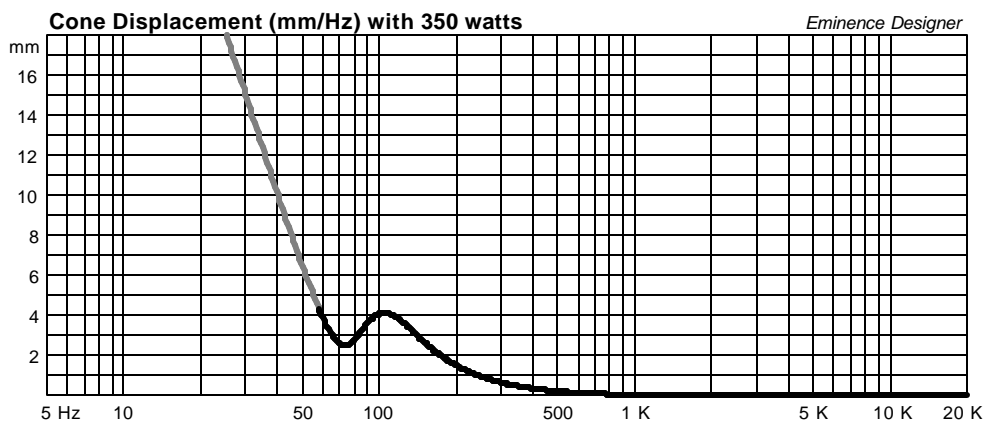
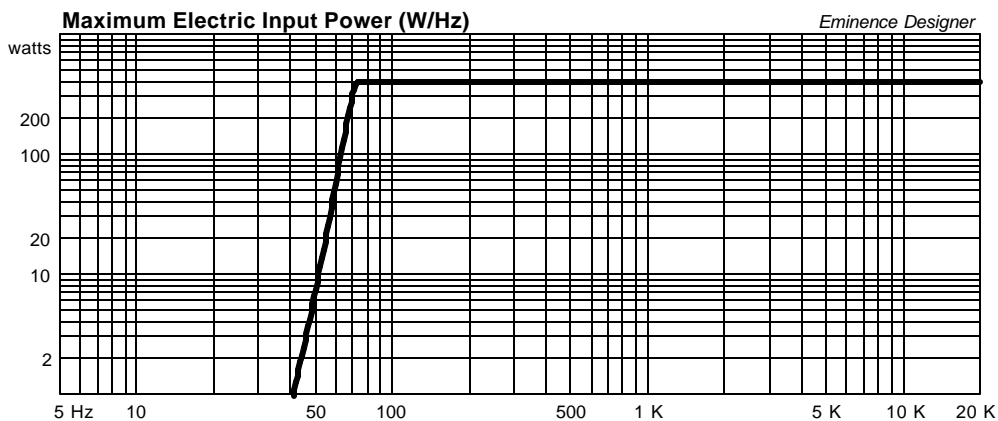
Qts = 0.4

no = 3.953 %

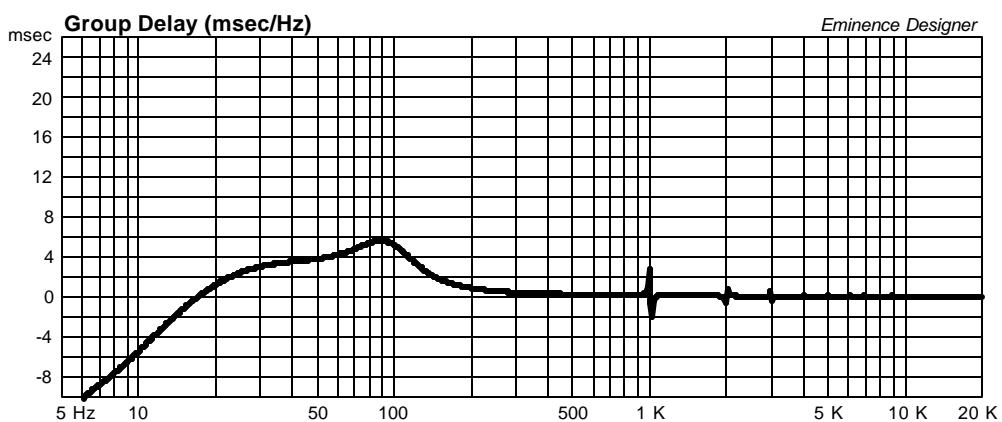
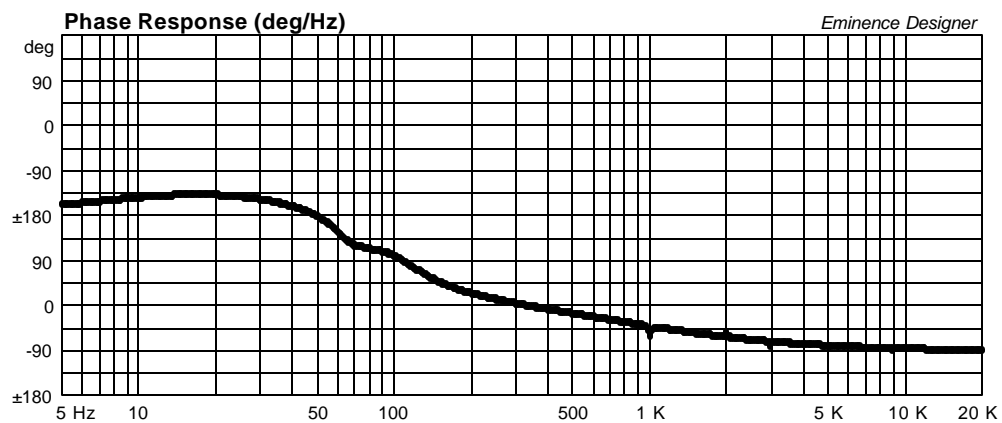
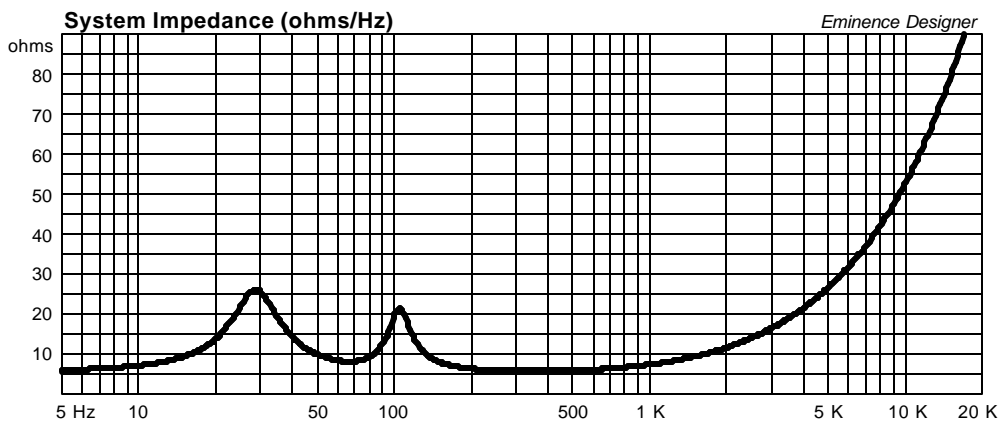
1-W SPL = 98.12 dB

2.83-V SPL = 99.58 dB









# DeltaPro15A High Power Sealed Box, Great Vocal Monitor

By McJerry, Eminence Speaker LLC

Thermally Limited to 400 Watts; use a steep high pass filter at 125 Hz.

## Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 0.959 cu.ft

V(total) = 1.097 cu.ft

Qtc = 0.902

QL = 19.86

F3 = 102.7 Hz

Fill = heavy

## Driver Properties

--Description--

Name: Delta Pro-15

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Ribbed paper cone.

Suspension: Cloth surround.

Dust Cap: Solid composition paper dust cap.

Frame: Diecast aluminum basket.

Voice Coil: 2.5 inch (63.5 mm) AL Wire. Kapton former.

Magnet: 80 oz ferrite magnet.

--Configuration--

**No. of Drivers = 1**

--Mechanical Parameters--

Fs = 42 Hz

Qms = 4.73

Vas = 243.5 liters

Cms = 0.24 mm/N

Mms = 61 g

Rms = 3.41 kg/s

Xmax = 4.3 mm

Xmech = 13.7 mm

P-Dia = 328 mm

Sd = 856.3 sq.cm

P-Vd = 0.363 liters

--Electrical Parameters--

Qes = 0.44

Re = 5.71 ohms

Le = 0.83 mH

Z = 8 ohms

BL = 14.5 Tm

Pe = 400 watts

--Electromech. Parameters--

Qts = 0.4

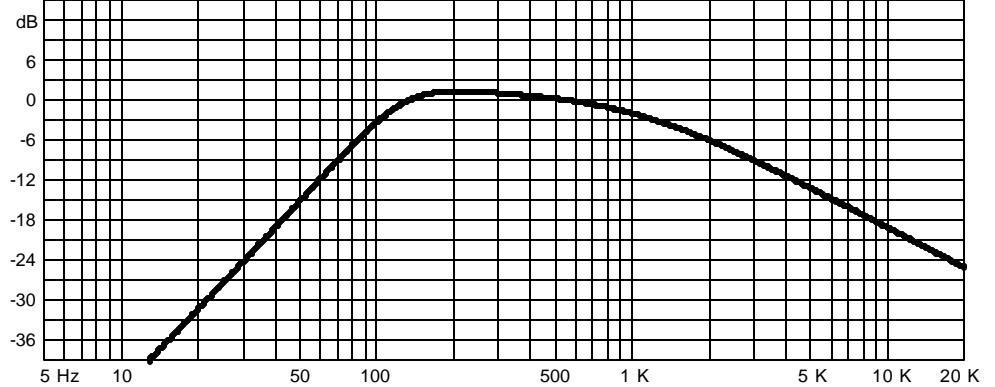
no = 3.953 %

1-W SPL = 98.12 dB

2.83-V SPL = 99.58 dB

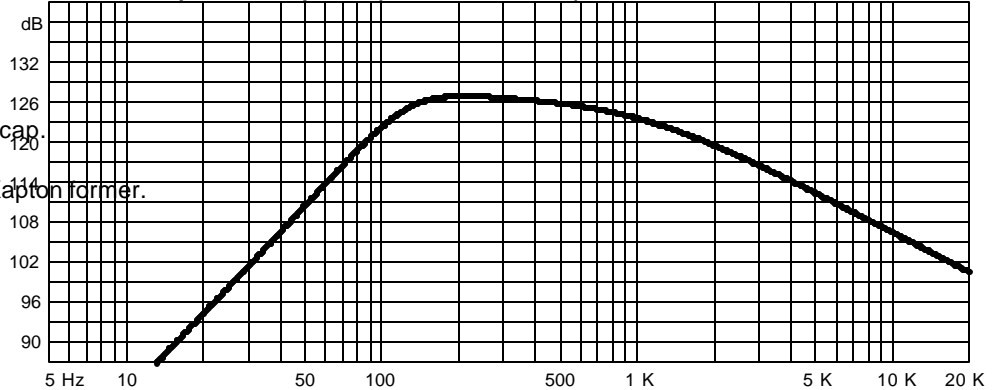
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



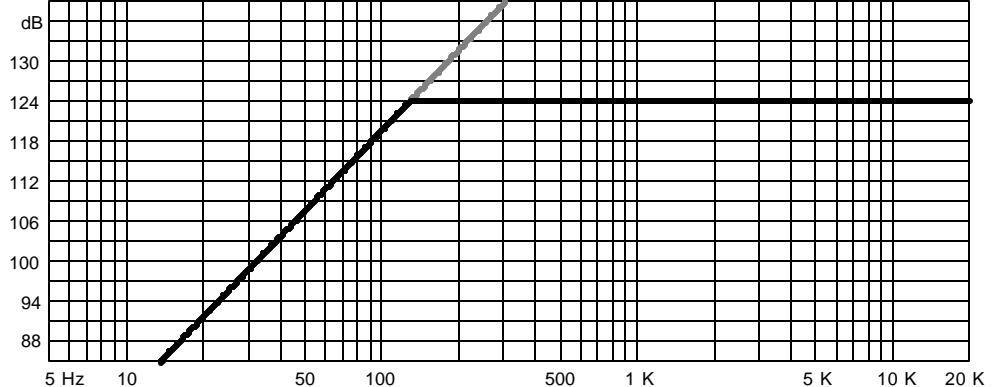
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 400 watts

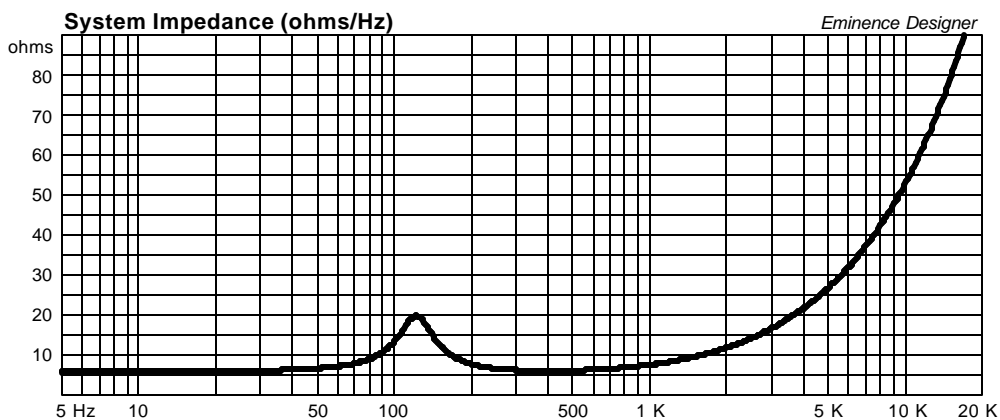
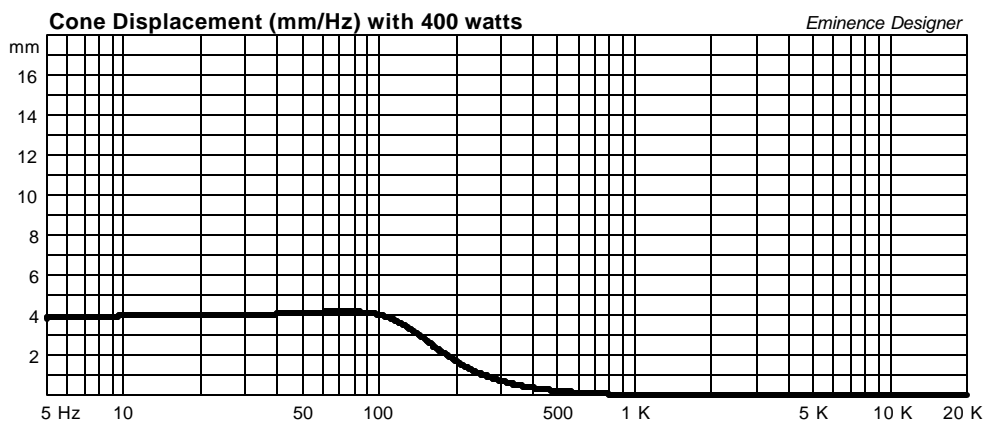
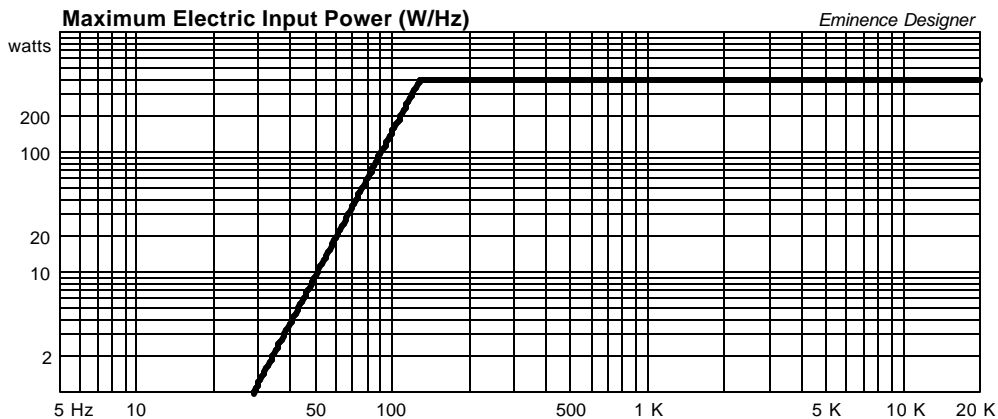
Eminence Designer

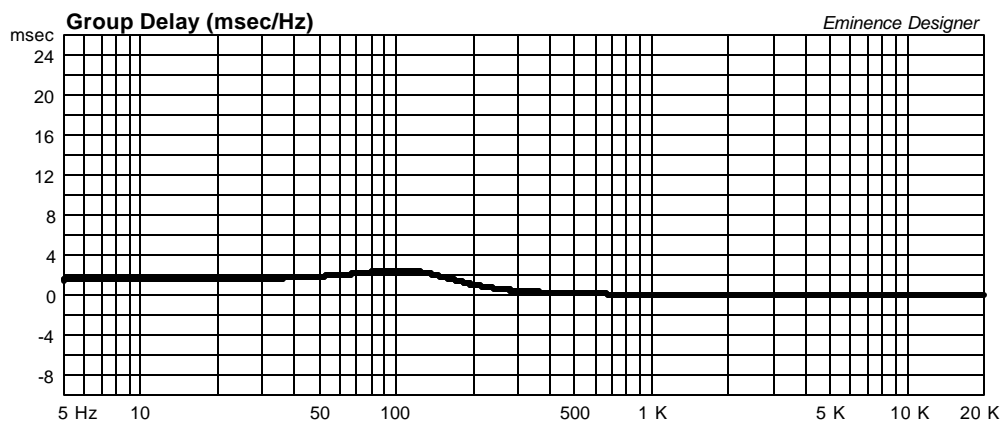
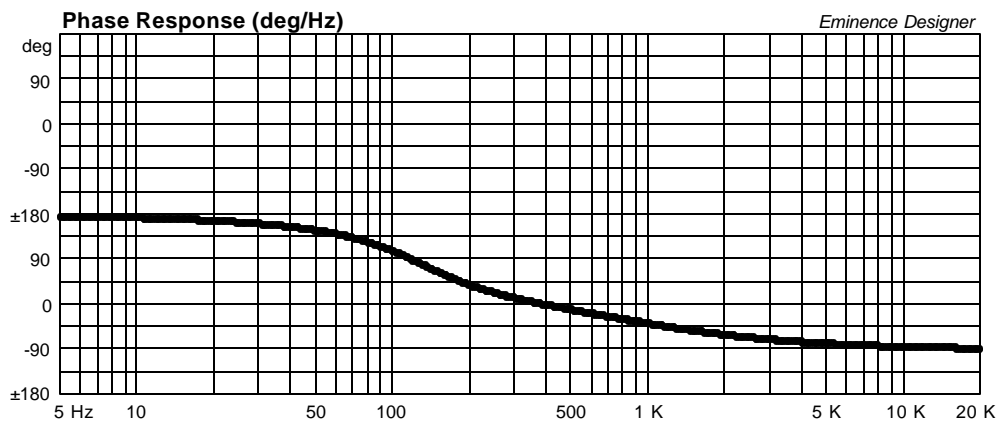


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







# DeltaPro15 Small Mid/High Box, Hi Power. Use with a Sub Woofer

By McJerry, Eminence Speaker LLC

Displacement and thermally limited to 400 watts. Must use a 24 dB per octave high pass filter set to 100 Hz or higher. Will need some EQ to flatten out. Great Hi-Power Mid/High box; must use with a sub-woofer system.

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## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 1.91 cu.ft

V(total) = 2.063 cu.ft

Fb = 85 Hz

QL = 7

F3 = 84.02 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4.278 in

Lv = 0.75 in

## Driver Properties

--Description--

Name: Delta Pro-15

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Ribbed paper cone.

Suspension: Cloth surround.

Dust Cap: Solid composition paper dust cap.

Frame: Diecast aluminum basket.

Voice Coil: 2.5 inch (63.5 mm) AL Wire. Kapton former.

Magnet: 80 oz ferrite magnet.

--Configuration--

**No. of Drivers = 1**

--Mechanical Parameters--

Fs = 42 Hz

Qms = 4.73

Vas = 243.5 liters

Cms = 0.24 mm/N

Mms = 61 g

Rms = 3.41 kg/s

Xmax = 4.3 mm

Xmech = 13.7 mm

P-Dia = 328 mm

Sd = 856.3 sq.cm

P-Vd = 0.363 liters

--Electrical Parameters--

Qes = 0.44

Re = 5.71 ohms

Le = 0.83 mH

Z = 8 ohms

BL = 14.5 Tm

Pe = 400 watts

--Electromech. Parameters--

Qts = 0.4

no = 3.953 %

1-W SPL = 98.12 dB

2.83-V SPL = 99.58 dB

