

Delta15A Small Vented Cab.; High Pwr Sat or Low Pwr Semi FR

By McJery, Eminence Speaker LLC

High Power Mid-High/Sat: 400 Watt Thermal limit; use only 150 Hz and up.

Low Power Semi-Full Range: 125 Displacement Limit; high pass at 55 Hz.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 2.85 cu.ft

V(total) = 2.996 cu.ft

Fb = 75 Hz

QL = 7

F3 = 70 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4.889 in

Lv = 0.75 in

Driver Properties

--Description--

Name: Delta-15 (8 ohm)

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: Pressed steel basket.

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

Magnet: 56 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 40 Hz

Qms = 8

Vas = 270.7 liters

Cms = 0.255 mm/N

Mms = 62.13 g

Rms = 1.95 kg/s

Xmax = 2.7 mm

Xmech = 11.1 mm

P-Dia = 331.8 mm

Sd = 864.6 sq.cm

P-Vd = 0.233 liters

--Electrical Parameters--

Qes = 0.57

Re = 6.3 ohms

Le = 0.64 mH

Z = 8 ohms

BL = 13.2 Tm

Pe = 400 watts

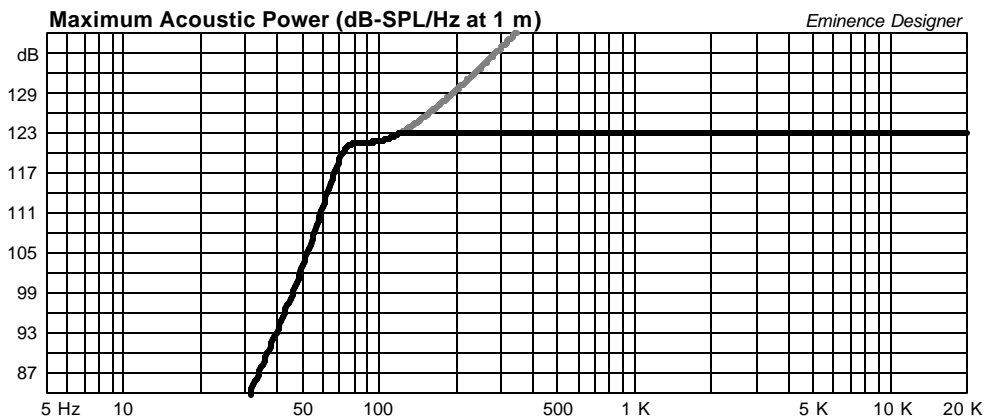
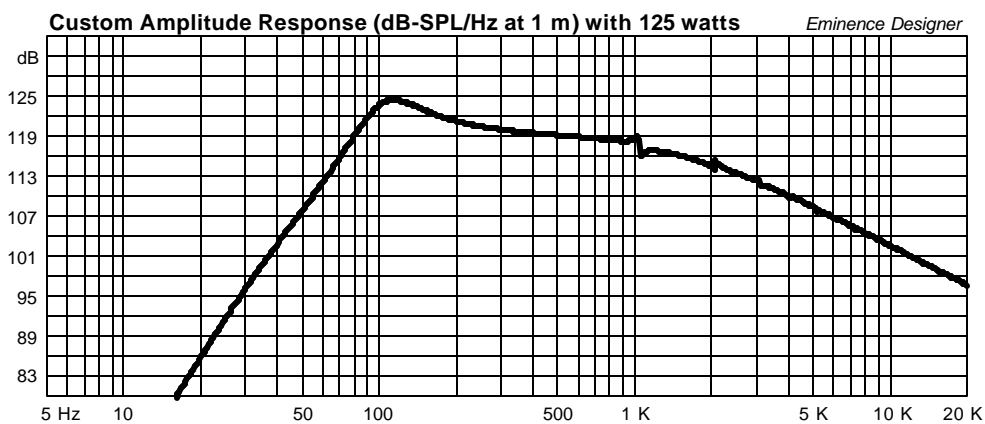
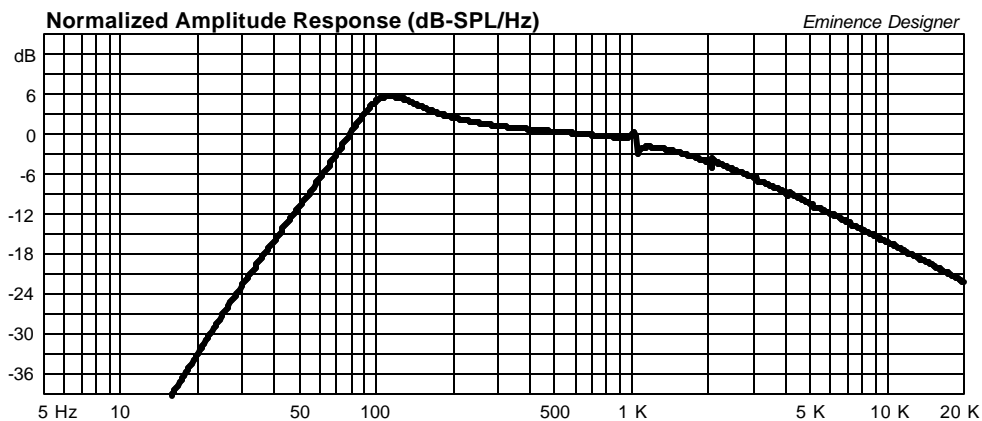
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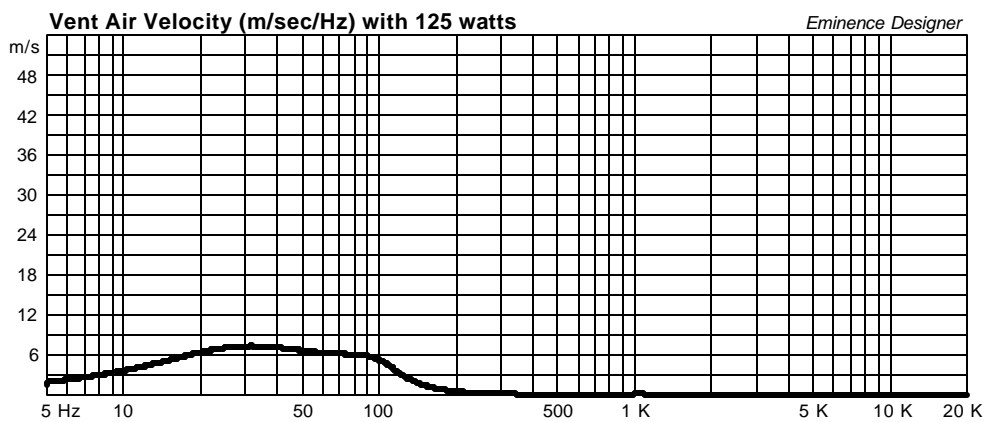
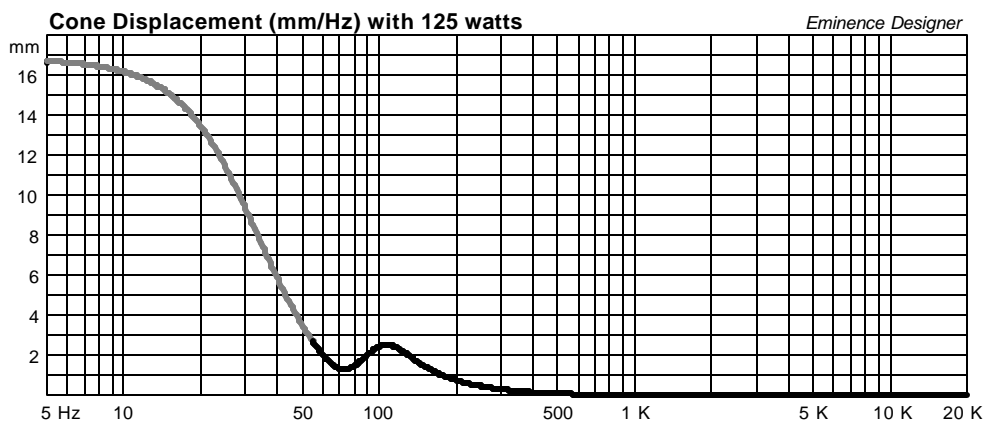
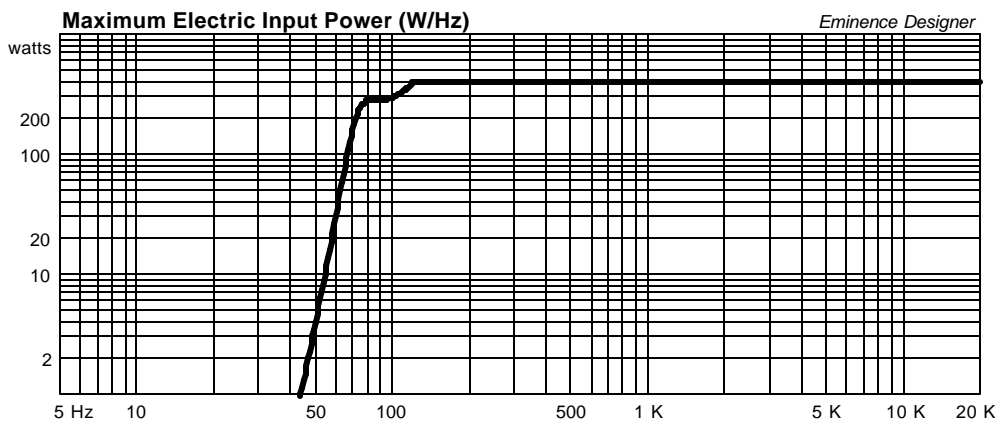
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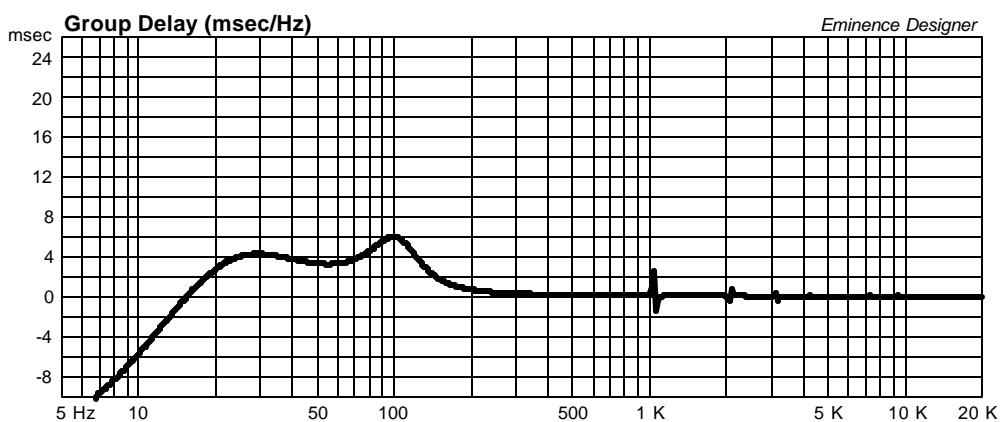
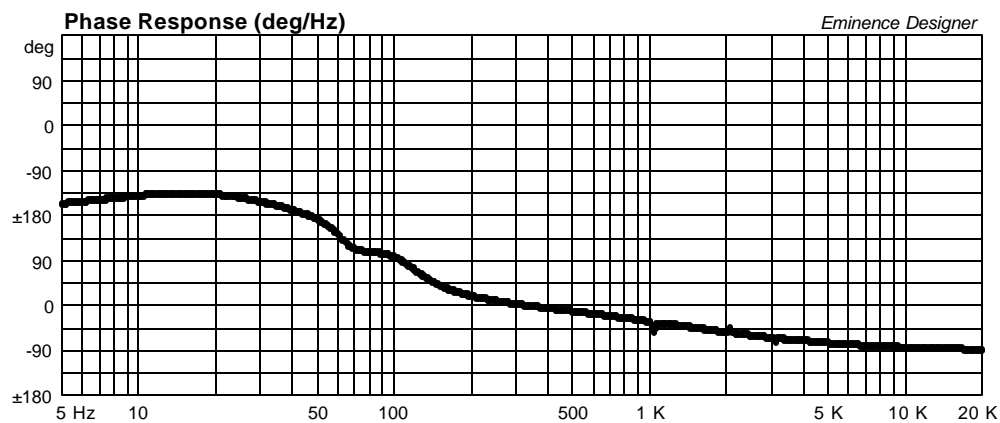
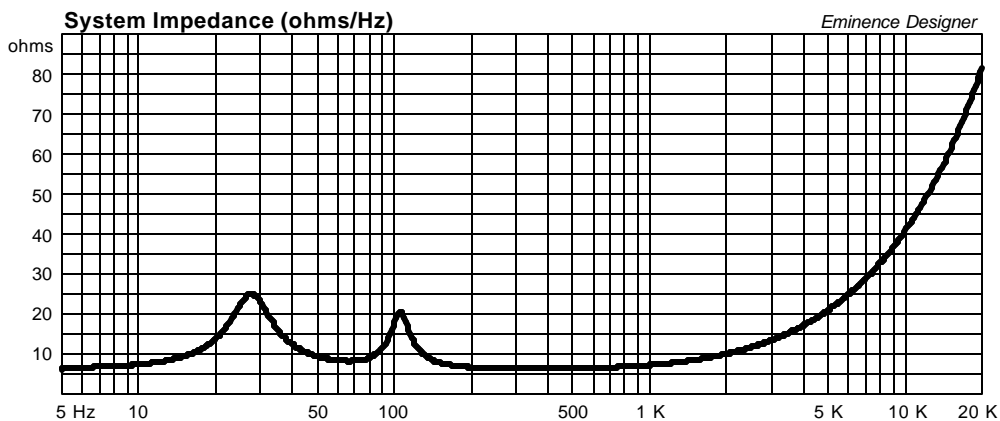
no = 2.931 %

1-W SPL = 96.82 dB

2.83-V SPL = 97.85 dB







Delta15A Med Vented Cab.; Low Power Full Range PA Cabinet

By McJerry, Eminence Speaker LLC

Displacement Limited to 100 Watts; use a steep high pass at 45 Hz to protect woofer from overexcursion.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 4 cu.ft

V(total) = 4.148 cu.ft

Fb = 65 Hz

QL = 7

F3 = 61.09 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 5.126 in

Lv = 0.75 in

Driver Properties

--Description--

Name: Delta-15 (8 ohm)

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: Pressed steel basket.

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

Magnet: 56 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 40 Hz

Qms = 8

Vas = 270.7 liters

Cms = 0.255 mm/N

Mms = 62.13 g

Rms = 1.95 kg/s

Xmax = 2.7 mm

Xmech = 11.1 mm

P-Dia = 331.8 mm

Sd = 864.6 sq.cm

P-Vd = 0.233 liters

--Electrical Parameters--

Qes = 0.57

Re = 6.3 ohms

Le = 0.64 mH

Z = 8 ohms

BL = 13.2 Tm

Pe = 400 watts

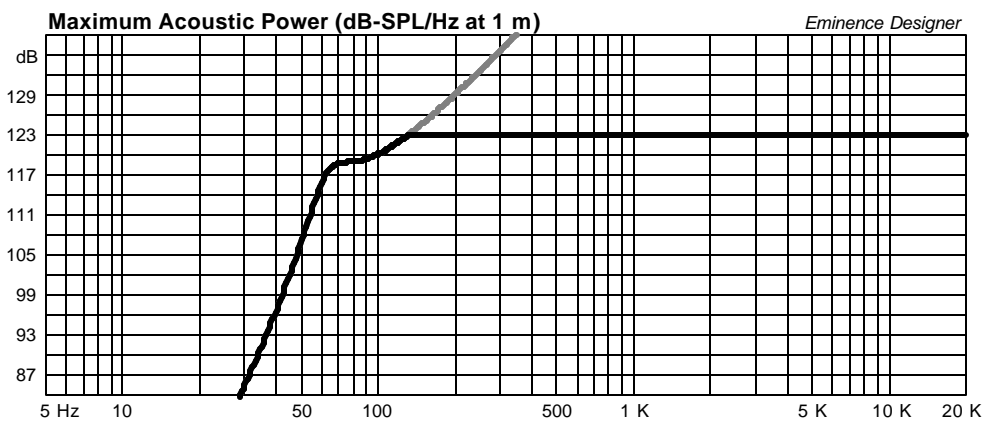
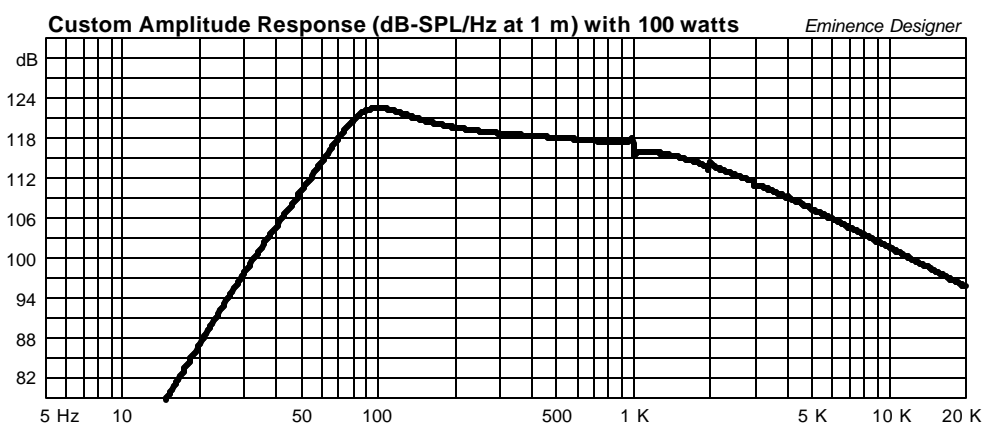
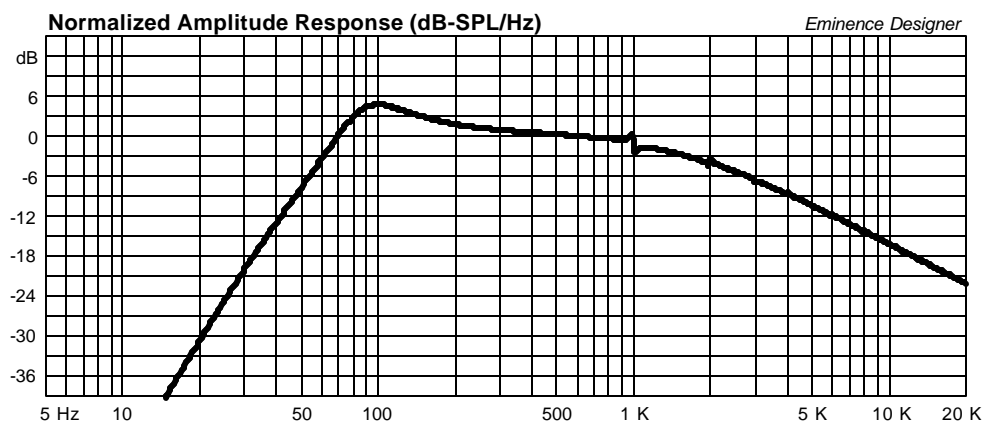
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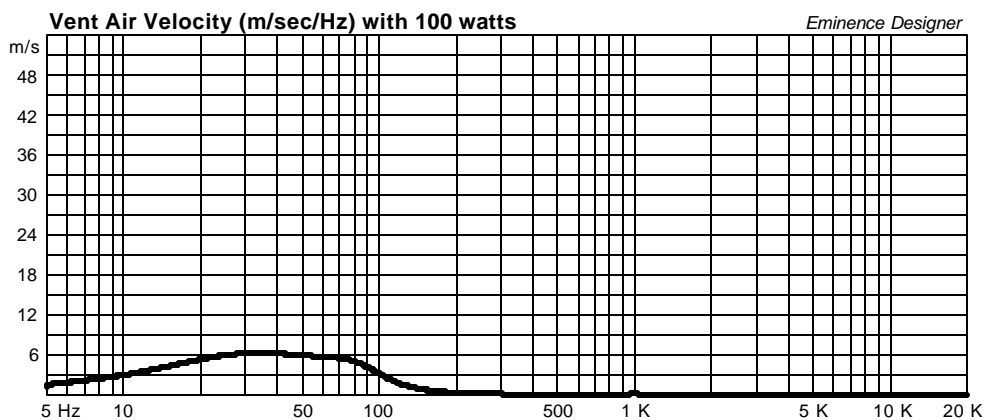
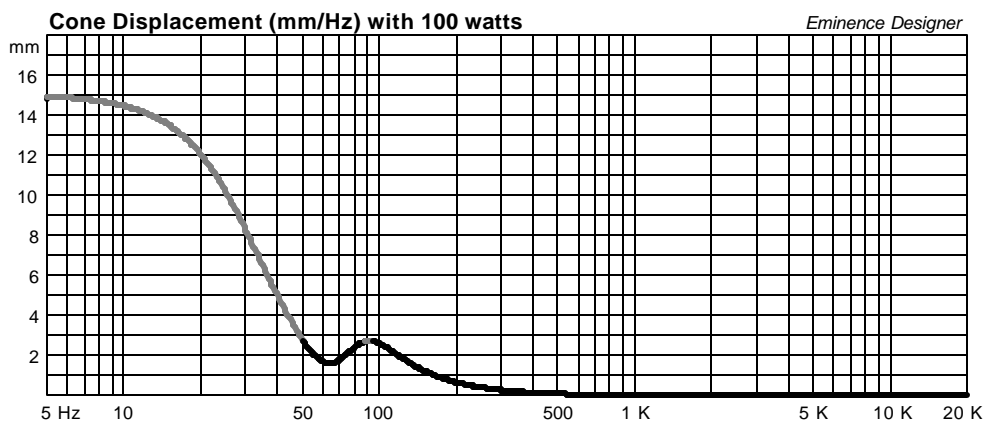
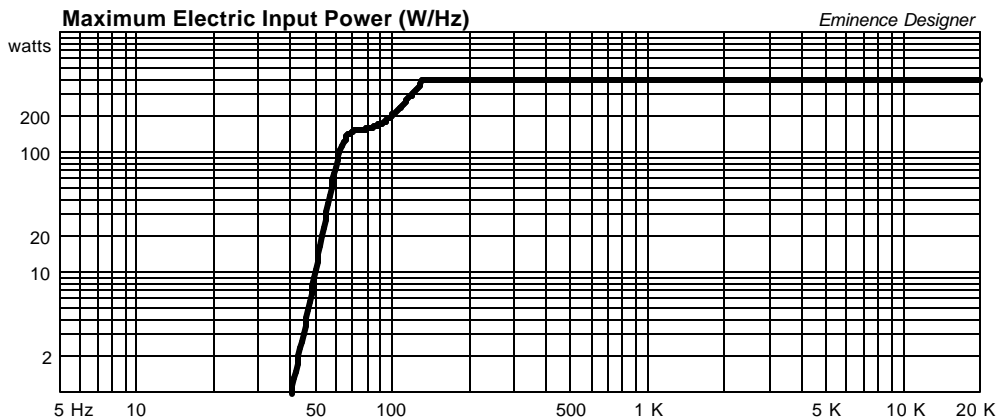
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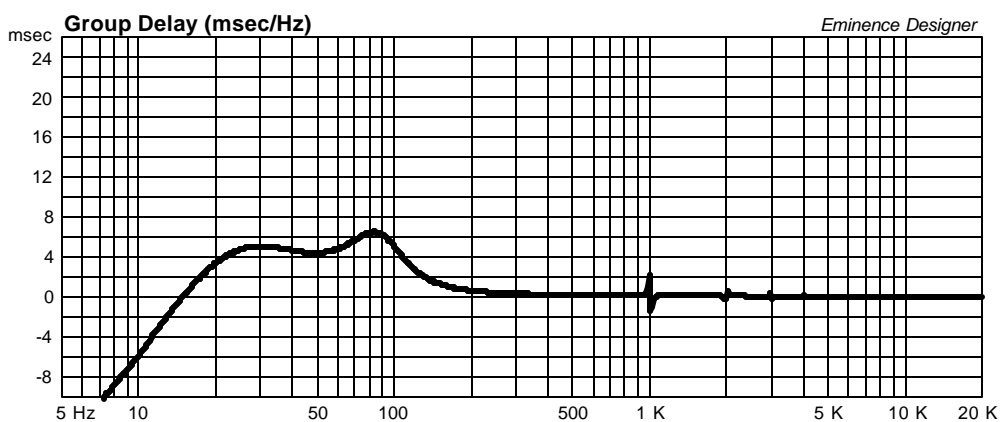
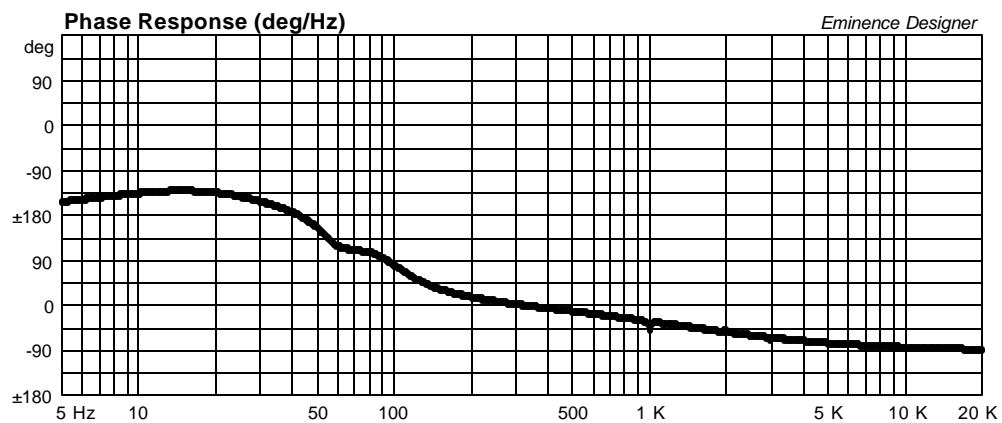
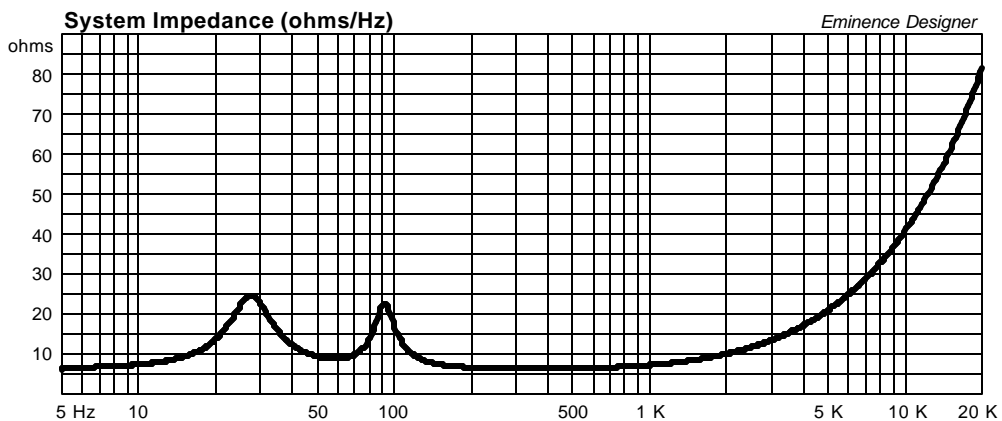
no = 2.931 %

1-W SPL = 96.82 dB

2.83-V SPL = 97.85 dB







Delta15A Larger Vented Cab.; Low Pwr Fuller Range PA

By McJerry, Eminence Speaker LLC

Displacement Limited to 50 Watts; use a steep high pass filter set to 35 Hz or higher 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) = 5.641 cu.ft

Fb = 49.22 Hz

QL = 7

F3 = 53.27 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4.146 in

Lv = 0.75 in

Driver Properties

--Description--

Name: Delta-15 (8 ohm)

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: Pressed steel basket.

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

Magnet: 56 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 40 Hz

Qms = 8

Vas = 270.7 liters

Cms = 0.255 mm/N

Mms = 62.13 g

Rms = 1.95 kg/s

Xmax = 2.7 mm

Xmech = 11.1 mm

P-Dia = 331.8 mm

Sd = 864.6 sq.cm

P-Vd = 0.233 liters

--Electrical Parameters--

Qes = 0.57

Re = 6.3 ohms

Le = 0.64 mH

Z = 8 ohms

BL = 13.2 Tm

Pe = 400 watts

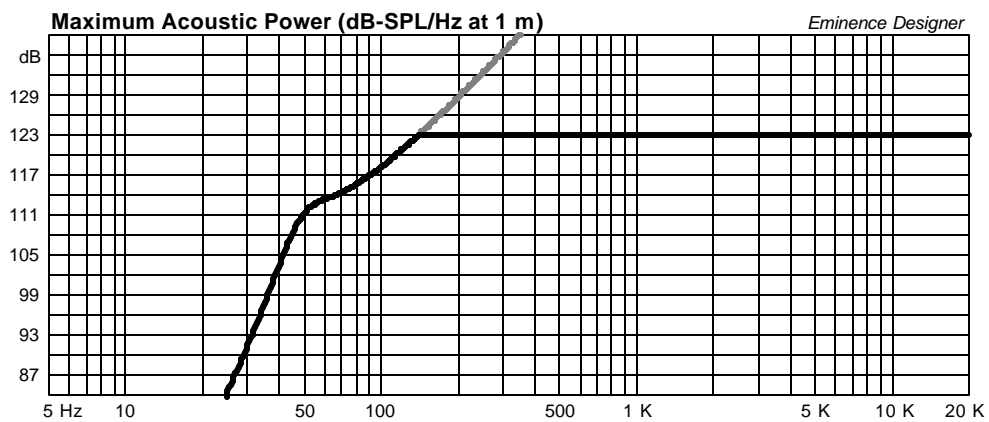
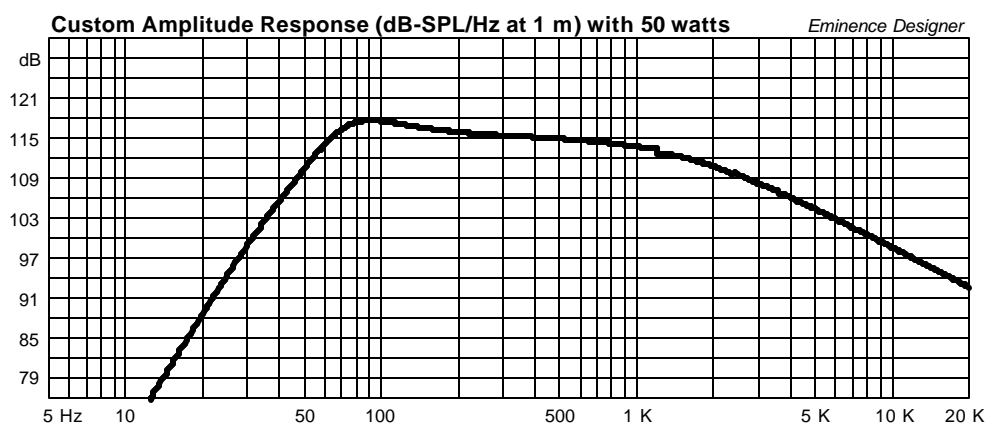
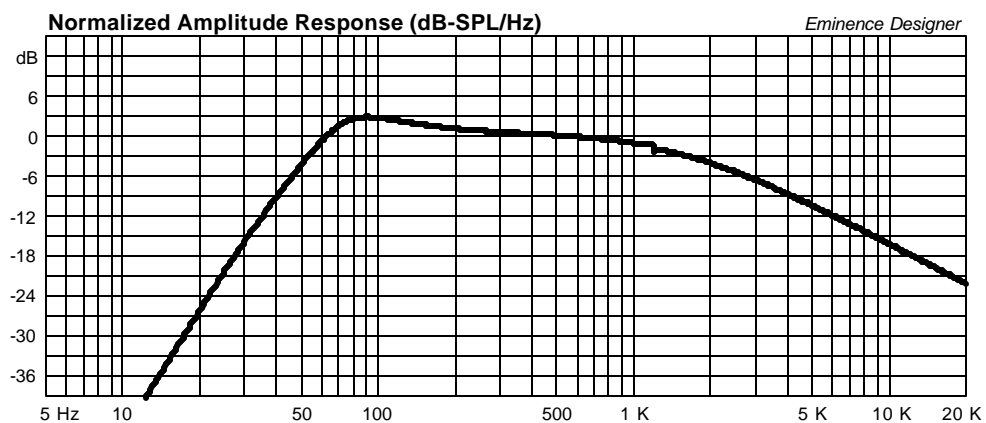
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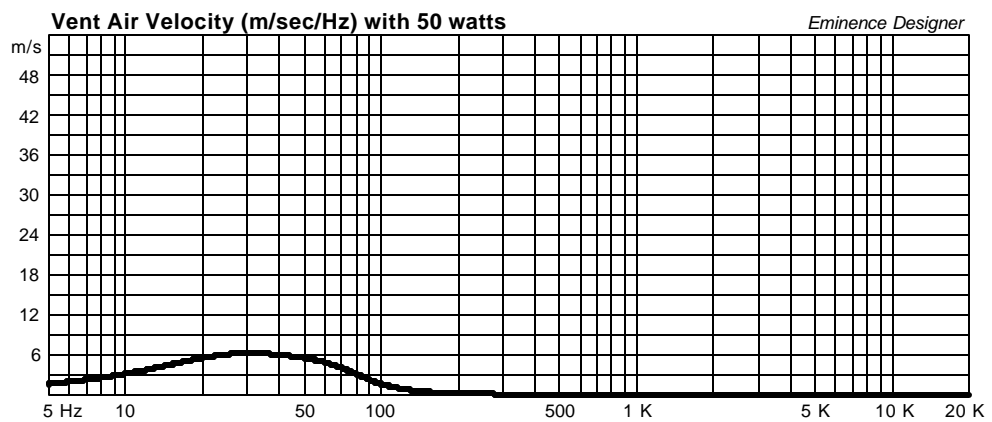
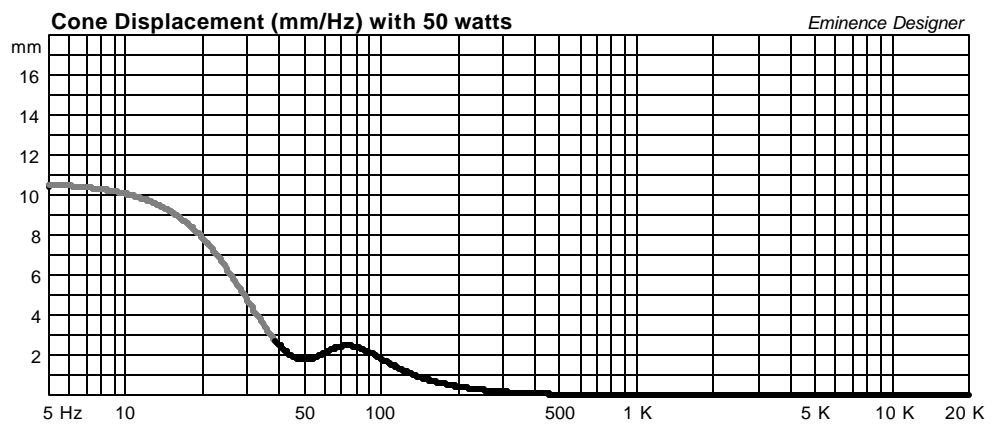
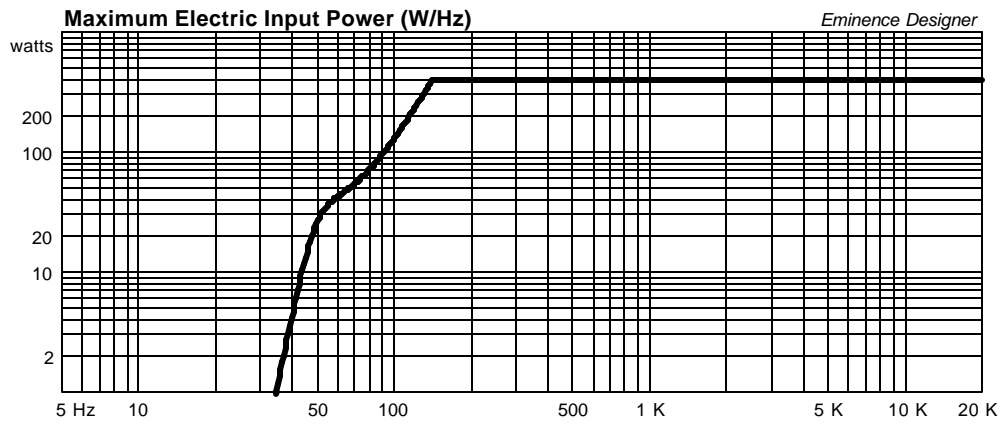
Qts = 0.53

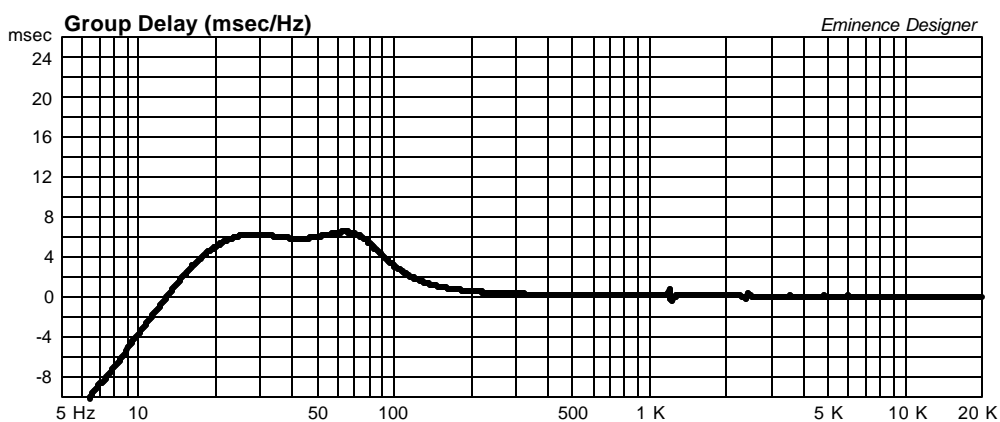
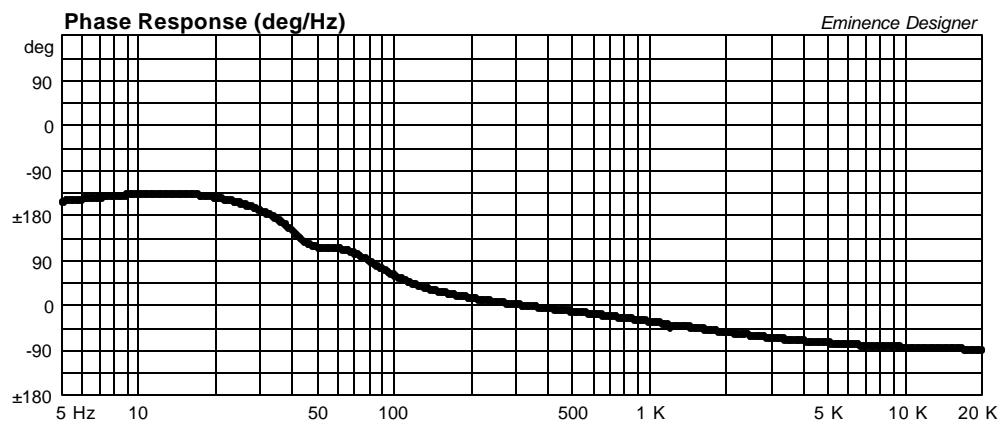
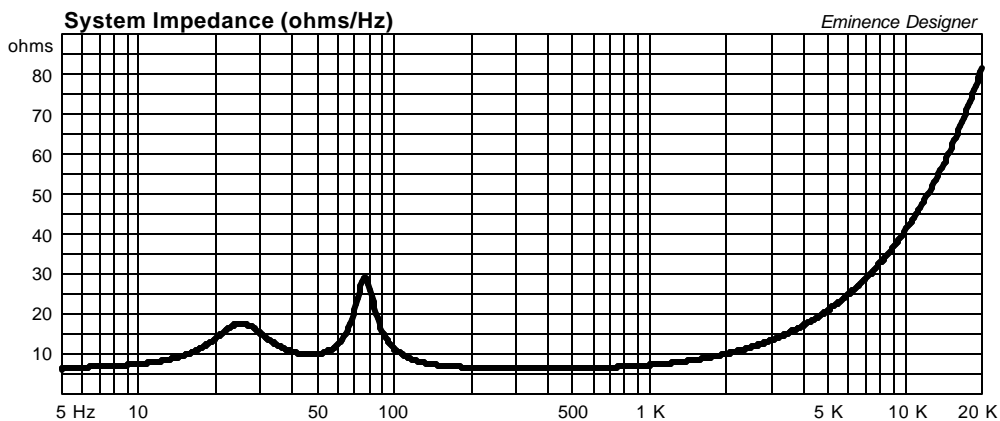
no = 2.931 %

1-W SPL = 96.82 dB

2.83-V SPL = 97.85 dB







Delta15A Small Sealed Cab.; Mid-High or Vocal Floor Wedge

By McJerry, Eminence Speaker LLC

Limited to 300 Watts; use a steep high pass filter set to 150 Hz or higher.

Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 1.2 cu.ft

V(total) = 1.328 cu.ft

Qtc = 1.072

QL = 19.9

F3 = 85.31 Hz

Fill = heavy

Driver Properties

--Description--

Name: Delta-15 (8 ohm)

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: Pressed steel basket.

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

Magnet: 56 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 40 Hz

Qms = 8

Vas = 270.7 liters

Cms = 0.255 mm/N

Mms = 62.13 g

Rms = 1.95 kg/s

Xmax = 2.7 mm

Xmech = 11.1 mm

P-Dia = 331.8 mm

Sd = 864.6 sq.cm

P-Vd = 0.233 liters

--Electrical Parameters--

Qes = 0.57

Re = 6.3 ohms

Le = 0.64 mH

Z = 8 ohms

BL = 13.2 Tm

Pe = 400 watts

--Electromech. Parameters--

Qts = 0.53

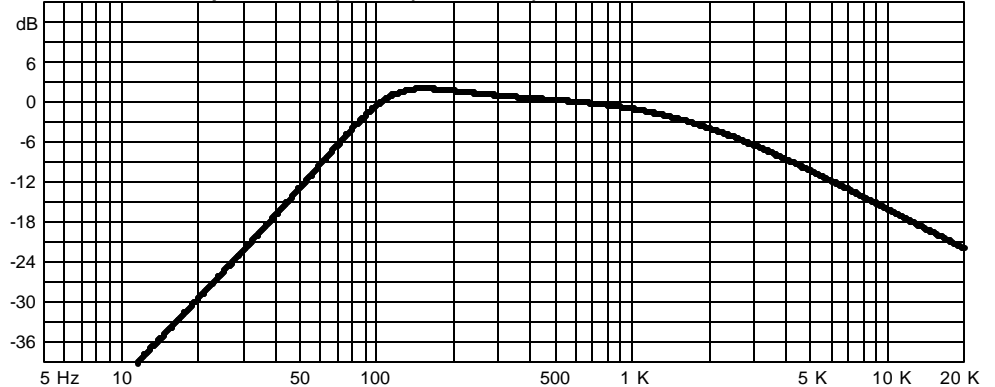
no = 2.931 %

1-W SPL = 96.82 dB

2.83-V SPL = 97.85 dB

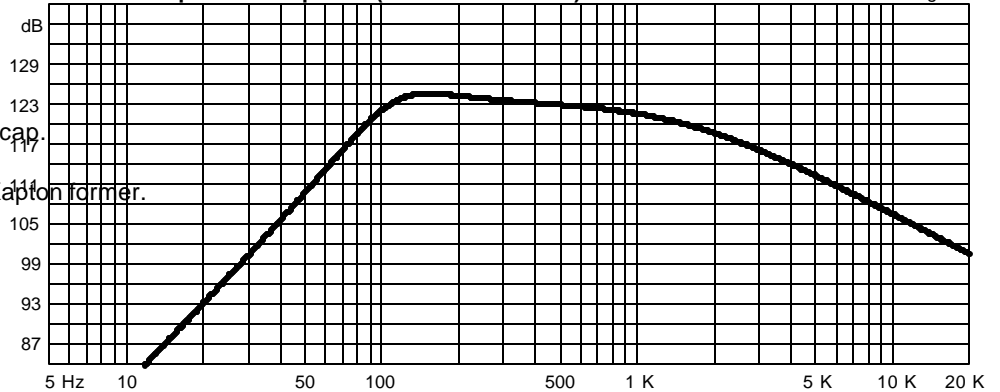
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 300 watts

Eminence Designer



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

Eminence Designer

