

Kappa15A Larger Vented Cab, Full Range PA or Bass Guitar

By McJerry, Eminence Speaker LLC

Displacement Limited to 135 Watts; use a steep high pass filter set to 40 Hz.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 3.75 cu.ft

V(total) = 3.963 cu.ft

Fb = 45 Hz

QL = 7

F3 = 52.15 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 4.52 in

Driver Properties

--Description--

Name: Kappa-15 (8 ohm)

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Solid paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 3 inch (76.2 mm) copper.

Magnet: 80 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 32.8 Hz

Qms = 8.9

Vas = 321.3 liters

Xmax = 4 mm

Sd = 856.3 sq.cm

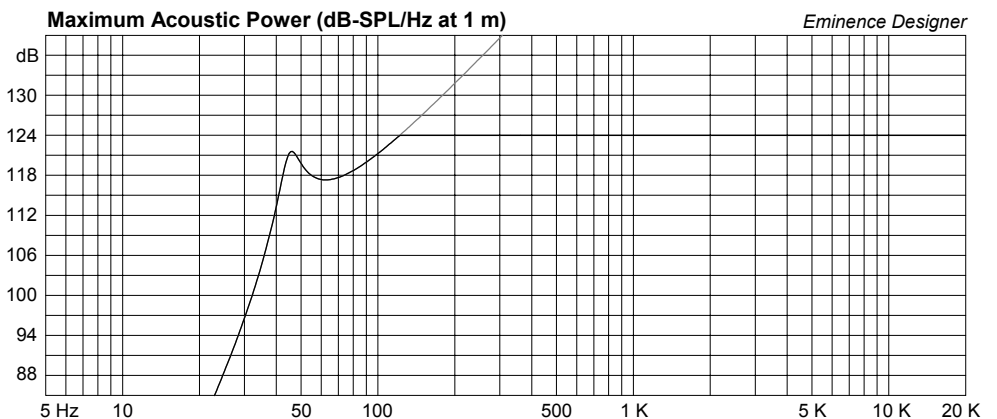
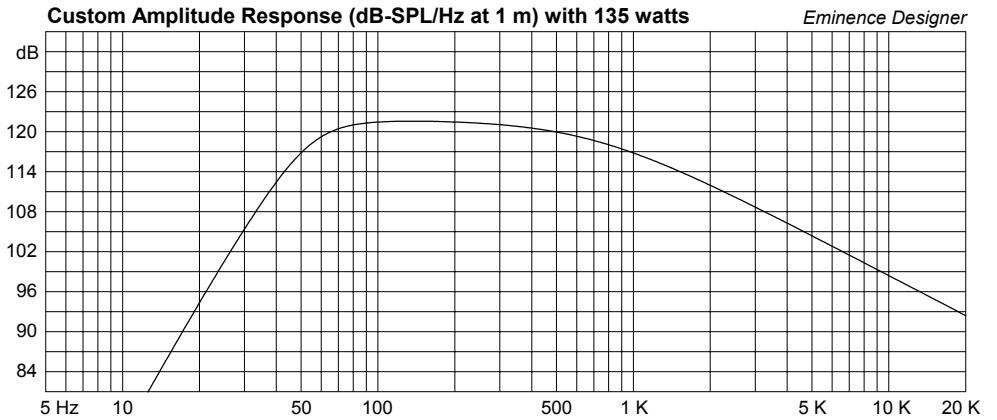
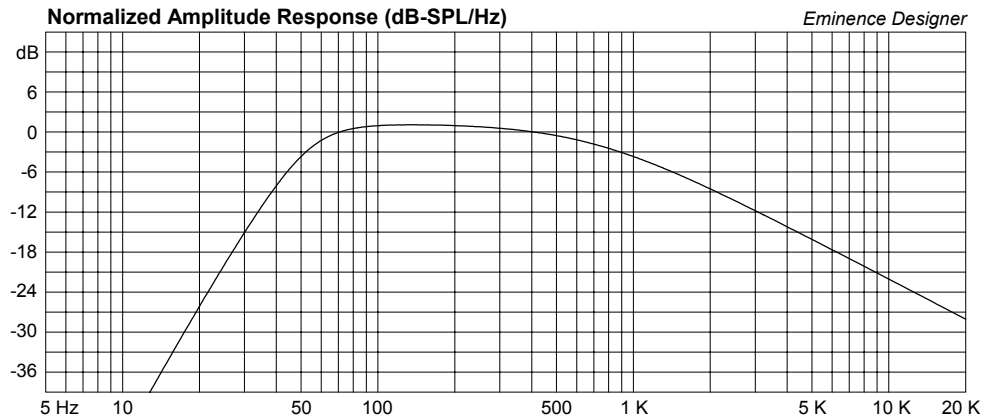
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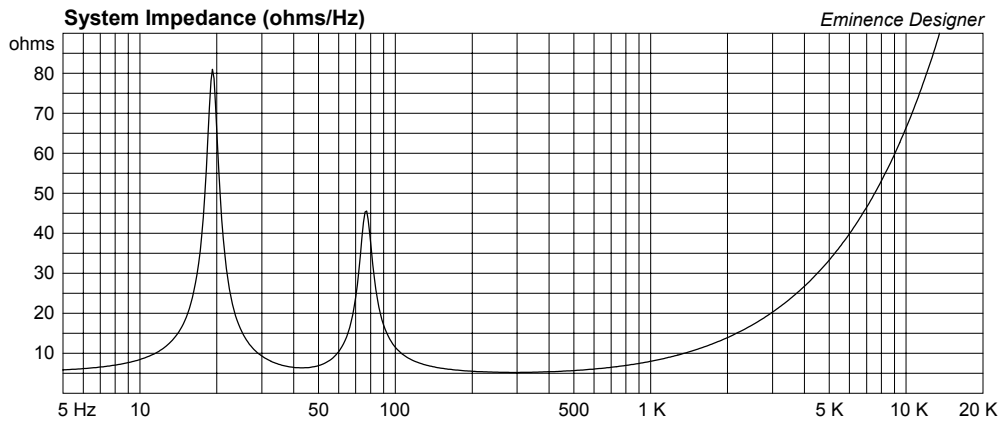
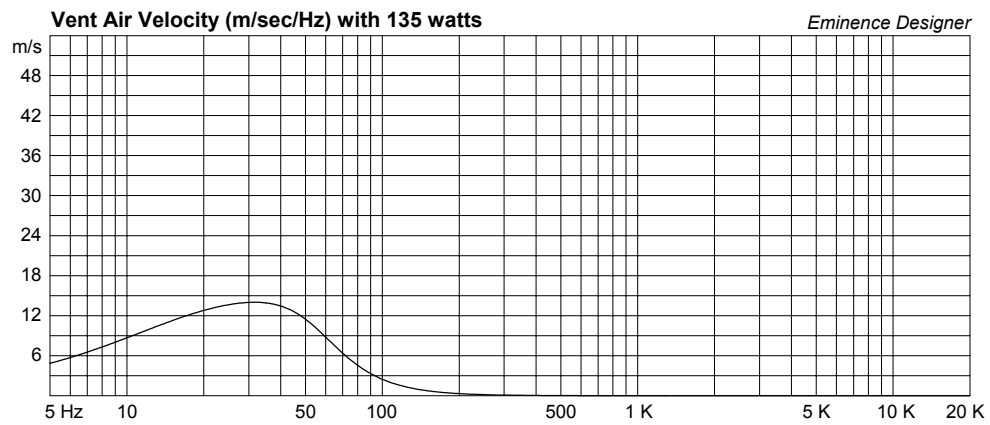
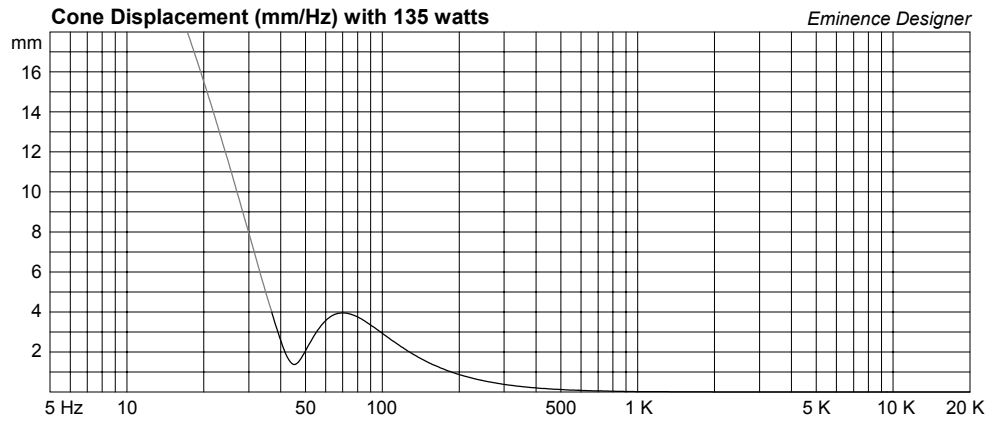
Re = 5.22 ohms

Le = 1.05 mH

Z = 8 ohms

Pe = 450 watts





Kappa15A Med Vented Cab, Semi-FR PA, or Mid/Hi Cabinet

By McJerry, Eminence Speaker LLC

Displacement Limited to 275 Watts; use a steep high pass filter set to 80 Hz or higher.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 2.2 cu.ft

V(total) = 2.421 cu.ft

Fb = 65 Hz

QL = 7

F3 = 66.66 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 4.284 in

Driver Properties

--Description--

Name: Kappa-15 (8 ohm)

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Solid paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 3 inch (76.2 mm) copper.

Magnet: 80 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 32.8 Hz

Qms = 8.9

Vas = 321.3 liters

Xmax = 4 mm

Sd = 856.3 sq.cm

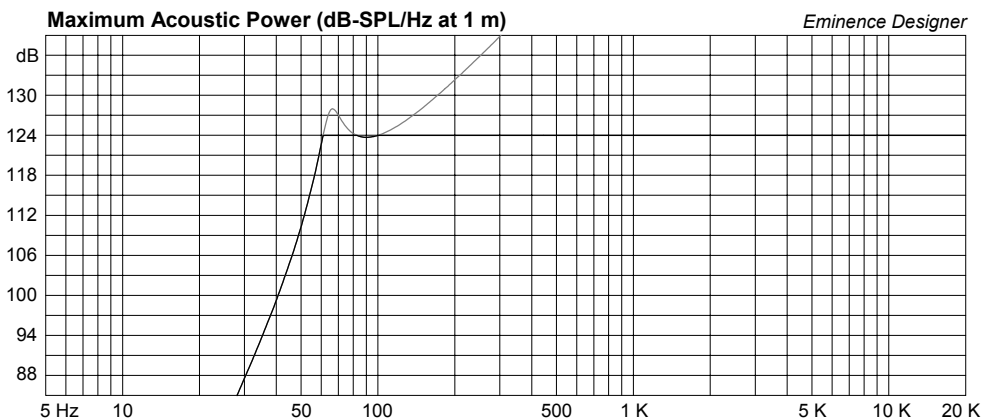
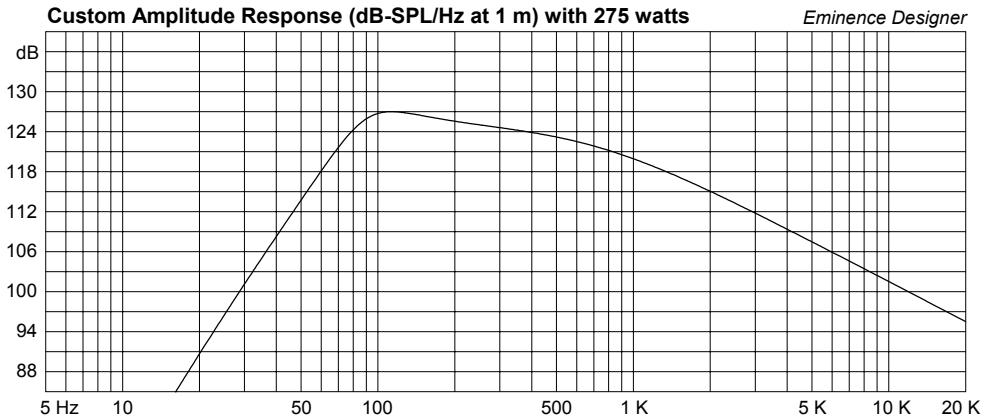
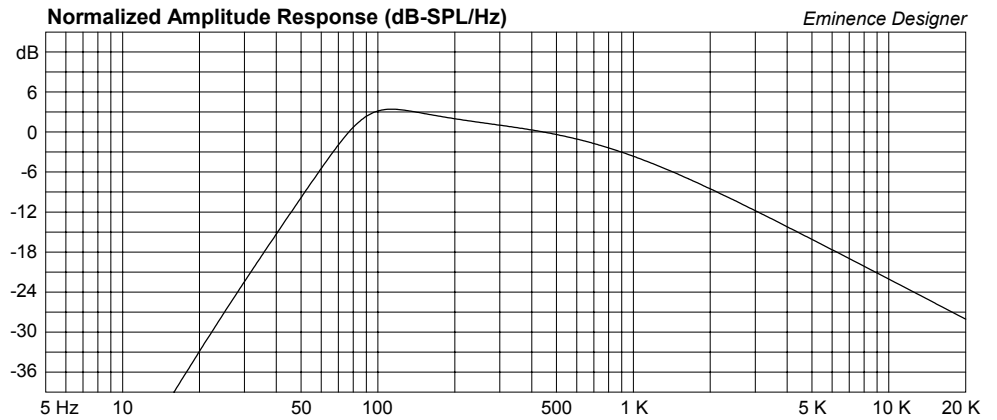
Qes = 0.333

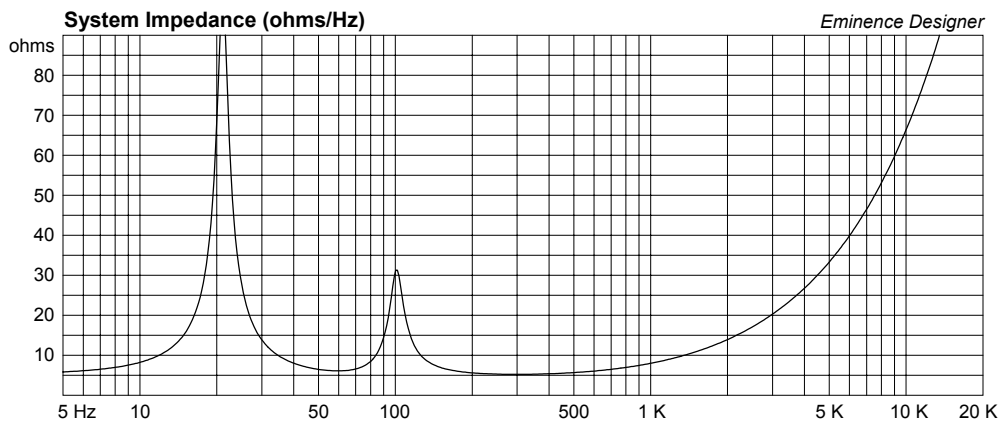
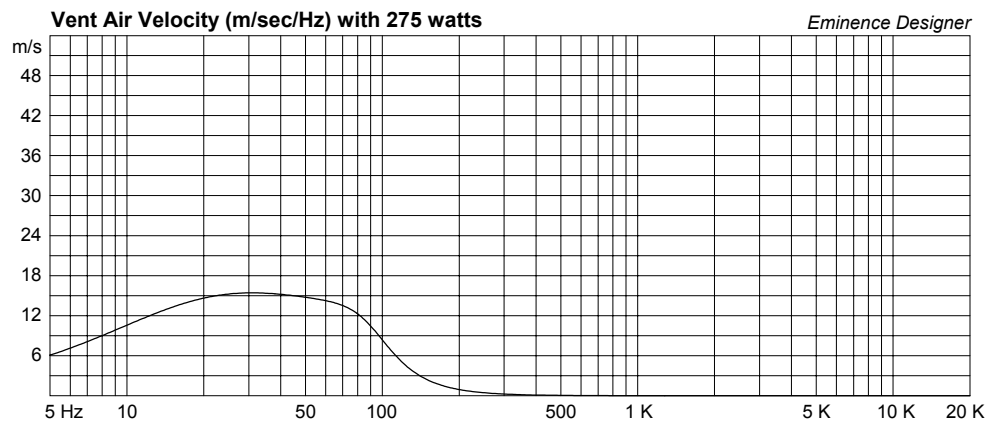
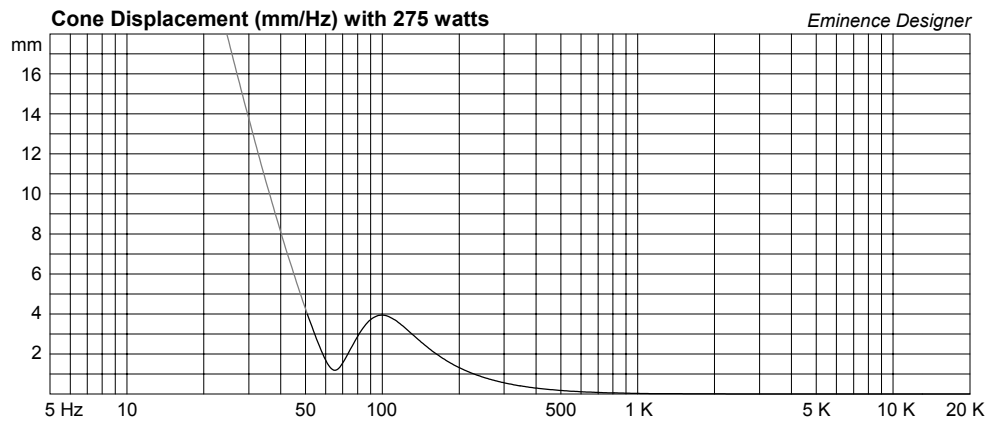
Re = 5.22 ohms

Le = 1.05 mH

Z = 8 ohms

Pe = 450 watts





Kappa15A Small Vented Cab, Hi Pwr Sat, or Floor Wedge

By McJerry, Eminence Speaker LLC

Thermally Limited to 450 Watts; use a steep high pass filter set to 100 Hz or higher.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 1.4 cu.ft

V(total) = 1.607 cu.ft

Fb = 85 Hz

QL = 7

F3 = 83.71 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 3.593 in

Driver Properties

--Description--

Name: Kappa-15 (8 ohm)

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Solid paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 3 inch (76.2 mm) copper.

Magnet: 80 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 32.8 Hz

Qms = 8.9

Vas = 321.3 liters

Xmax = 4 mm

Sd = 856.3 sq.cm

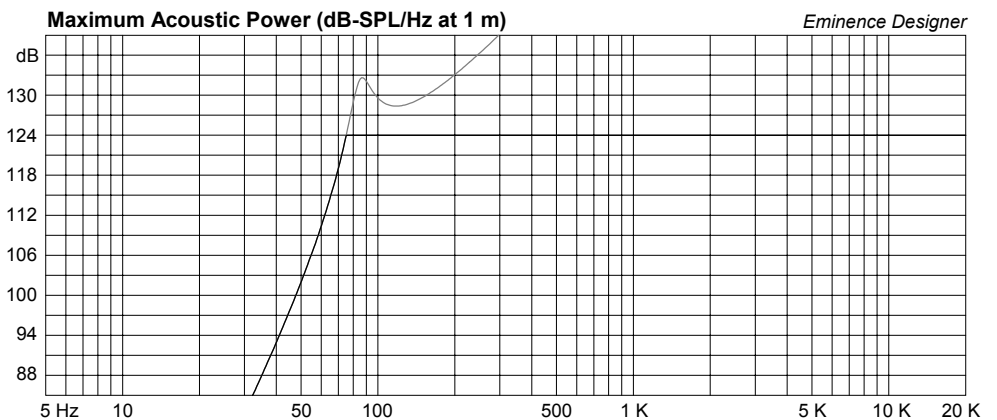
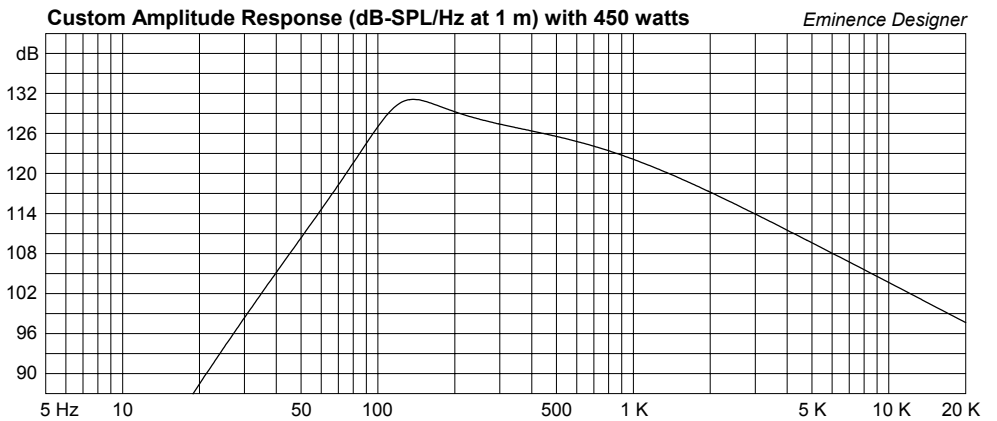
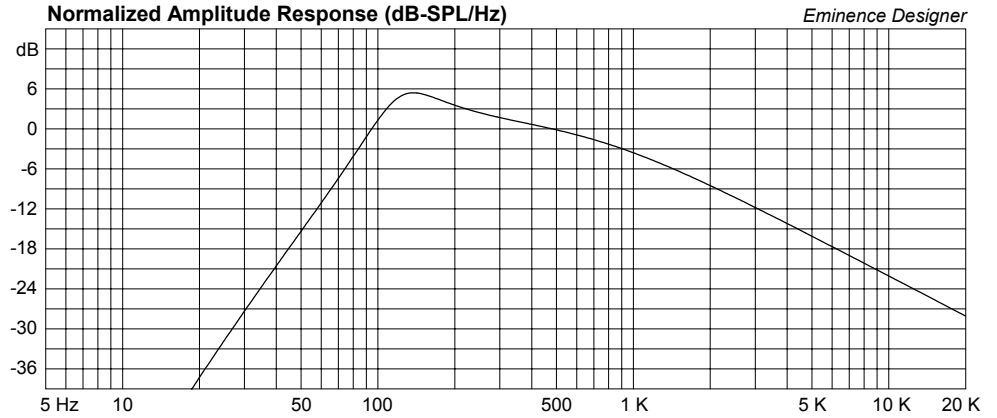
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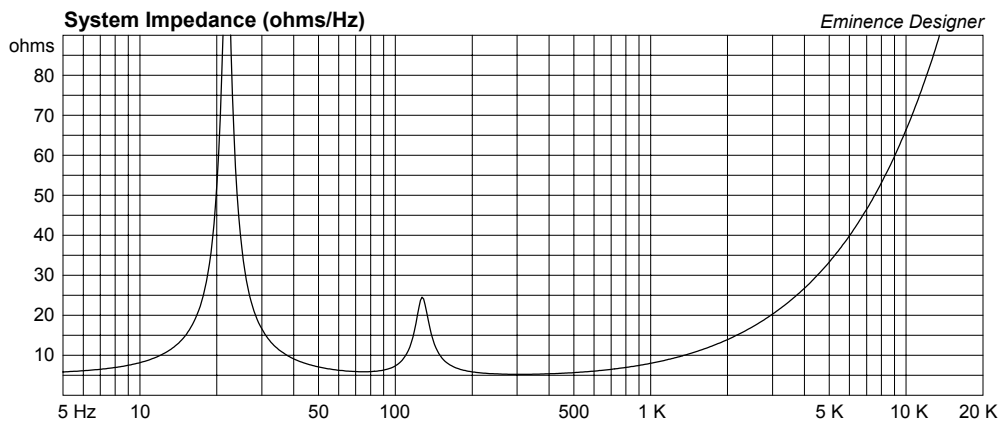
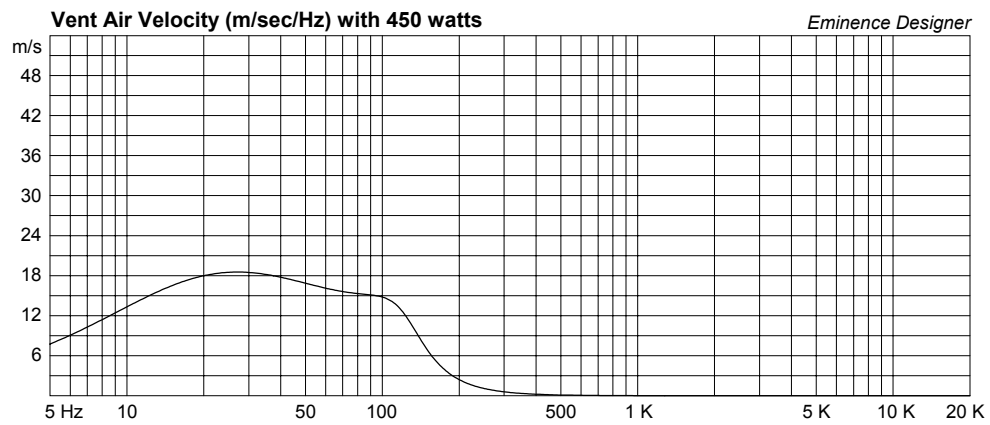
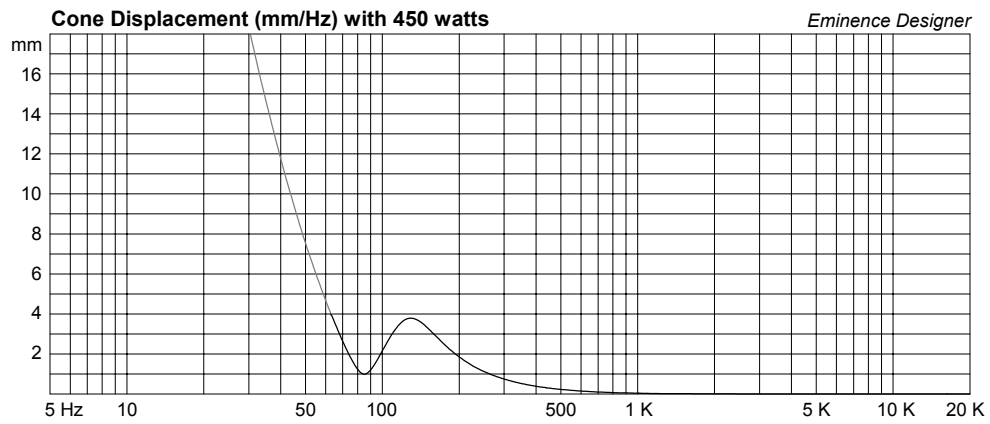
Re = 5.22 ohms

Le = 1.05 mH

Z = 8 ohms

Pe = 450 watts





Dual KappaPro15A Med Vented Box

By McJerry, Eminence Speaker LLC

Displacement Limited to 300 Watts; F3 of 61 Hz. Use a steep high pass filter set to 45 Hz to protect woofer from over excursion.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 6 cu.ft

V(total) = 6.504 cu.ft

Fb = 55 Hz

QL = 7

F3 = 60.95 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = rectangle

Vent ends = one flush

Hv = 16 in

Wv = 2 in

Lv = 5.364 in

Driver Properties

--Description--

Name: Kappa 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 paper dust cap.

Frame: Diecast aluminum basket.

Voice Coil: 3 inch (76.2 mm) copper.

Magnet: 80 oz ferrite magnet.

--Configuration--

No. of Drivers = 2

Mounting = Standard

Wiring = Parallel

Drivers sum coherently = Yes

--Driver Parameters--

Fs = 47 Hz

Qms = 8.01

Vas = 167.7 liters [335.4]

Xmax = 3.2 mm

Sd = 856.3 sq.cm [1713]

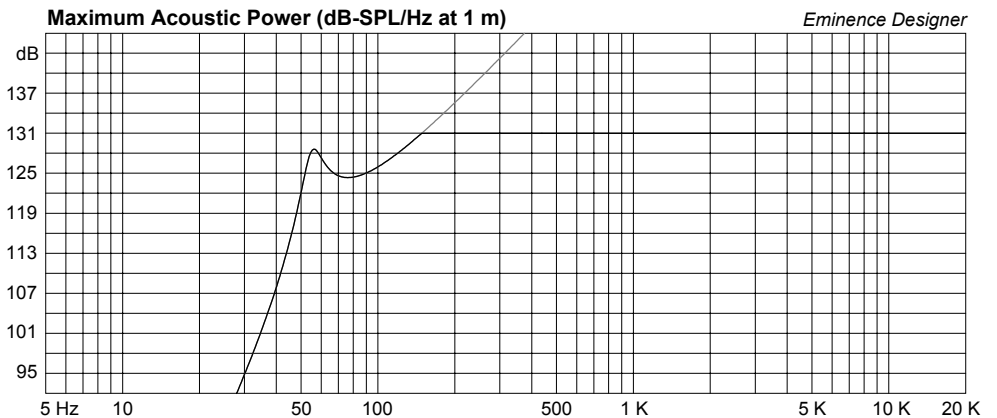
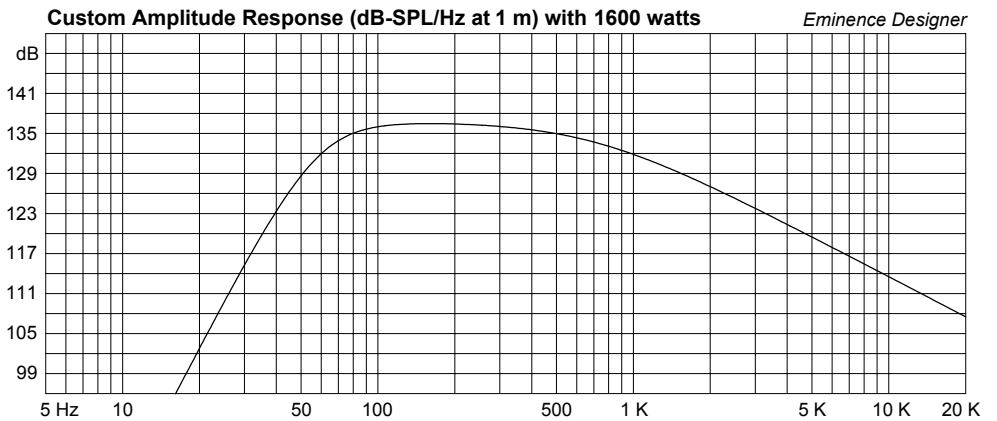
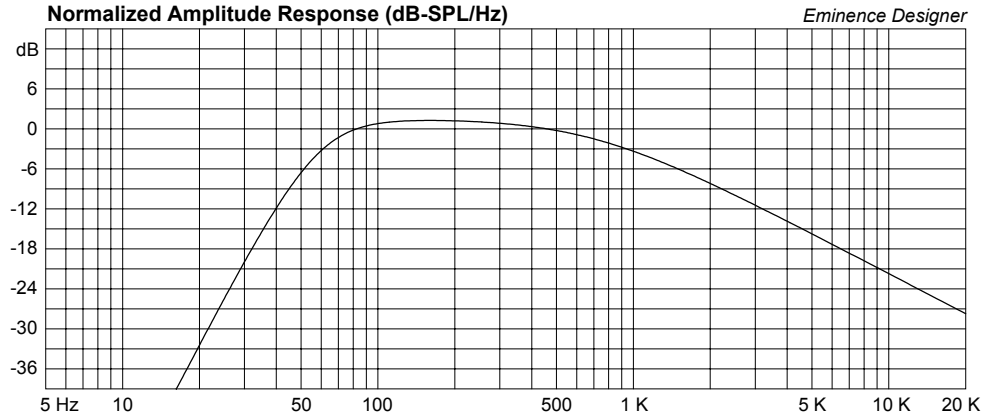
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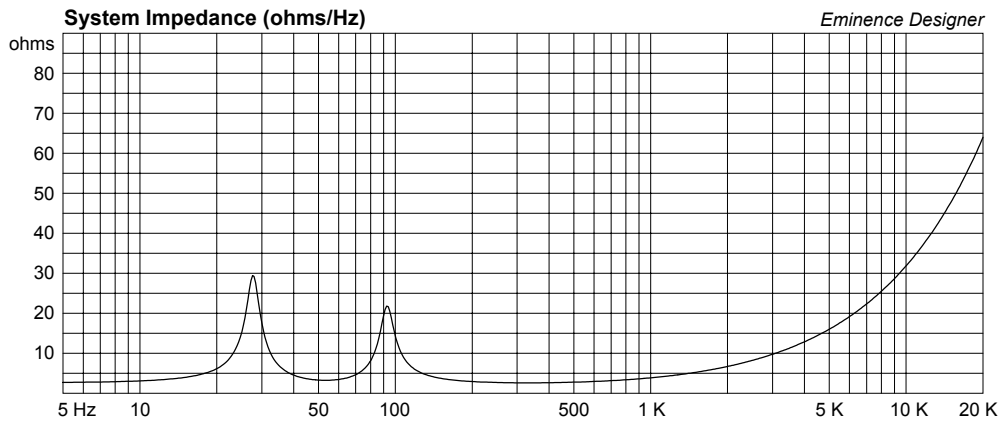
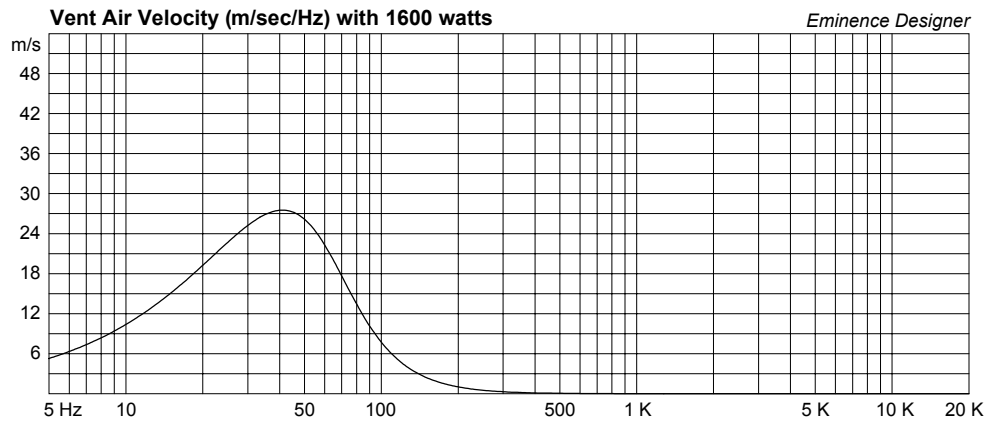
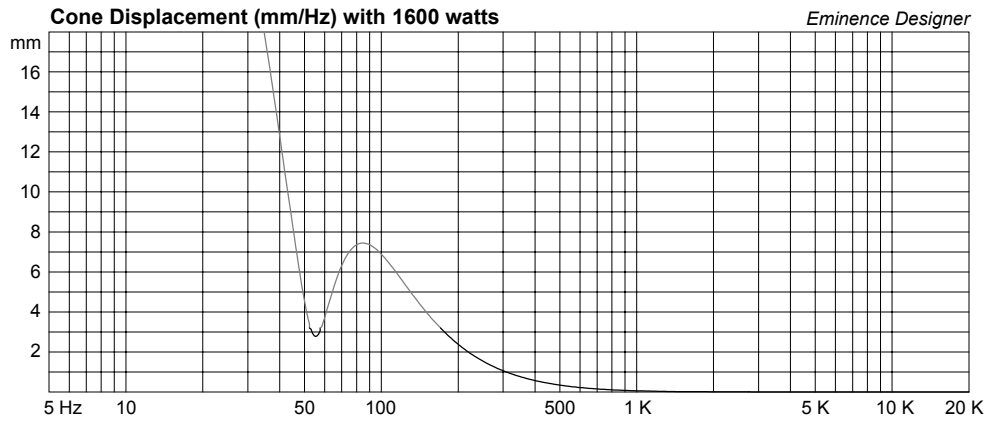
Re = 5.23 ohms [2.615]

Le = 1.01 mH [0.505]

Z = 8 ohms [4]

Pe = 500 watts [1000]





Dual KappaPro15A Mid/High Vented Box, High Power Sat.

By McJerry, Eminence Speaker LLC

Displacement Limited to 700 Watts; F3 of 82 Hz. Not for full range use. Use only above 100 Hz as a high power sat or as a high power midrange section.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 3.5 cu.ft

V(total) = 3.91 cu.ft

Fb = 90 Hz

QL = 7

F3 = 82.38 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = rectangle

Vent ends = one flush

Hv = 16 in

Wv = 2.5 in

Lv = 2.566 in

Driver Properties

--Description--

Name: Kappa 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 paper dust cap.

Frame: Diecast aluminum basket.

Voice Coil: 3 inch (76.2 mm) copper.

Magnet: 80 oz ferrite magnet.

--Configuration--

No. of Drivers = 2

Mounting = Standard

Wiring = Parallel

Drivers sum coherently = Yes

--Driver Parameters--

Fs = 47 Hz

Qms = 8.01

Vas = 167.7 liters [335.4]

Xmax = 3.2 mm

Sd = 856.3 sq.cm [1713]

Qes = 0.4

Re = 5.23 ohms [2.615]

Le = 1.01 mH [0.505]

Z = 8 ohms [4]

Pe = 500 watts [1000]

