

## Specification

Nominal Basket Diameter	15", 381mm
Nominal Impedance*	8 or 4 ohms
Power Rating**	
Watts	450W
Music Program	900W
Resonance	33Hz
Usable Frequency Range***	52Hz-2.3kHz
Sensitivity	100.5
Magnet Weight	80 oz
Gap Height	0.375", 9.53mm
Voice Coil Diameter	3", 76.2mm

## Thiele & Small Parameters

Resonant Frequency (fs)	33Hz
DC Resistance (Re)	5.22
Coil Inductance (Le)	1.05mH
Mechanical Q (Qms)	8.90
Electromagnetic Q (Qes)	0.33
Total Q (Qts)	0.32
Compliance Equivalent Volume (Vas)	321.3 ltr/11.35 cu. ft.
Peak Diaphragm Displacement Volume (Vd)	343cc
Mechanical Compliance of Suspension (Cms)	0.31mm/N
BL Product (BL)	15.7 T-M
Diaphragm Mass inc. Airlod (Mms)	76 grams
Efficiency Bandwidth Product (EBP)	98
Maximum Linear Excursion (Xmax)	4.0mm
Surface Area of Cone (Sd)	856.3cm <sup>2</sup>
Maximum Mechanical Limit (Xlim)	11.6mm

## Mounting Information

Recommended Enclosure Volume	
Sealed	N/A
Vented	45-113 ltr/1.6-4 cu. ft.
Overall Diameter	15.16", 384.9mm
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	6.13", 156mm
Net Weight	17.6 lbs, 8 kg
Shipping Weight	19.8 lbs, 9 kg

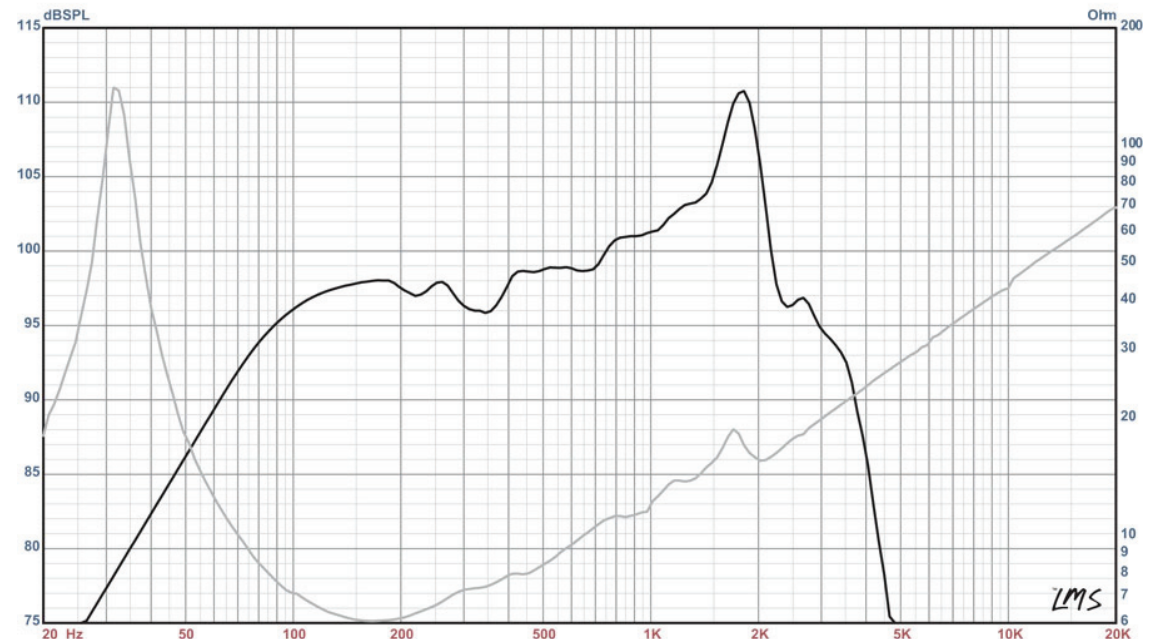
## Materials of Construction

Coil Construction	Copper
Coil	Polyimide
Magnet Composition	Ferrite
Core Details	Vented
Basket Materials	Pressed Steel
Cone Composition	Paper
Cone Edge Composition	Cloth
Dust Cap Composition	Solid Composition Paper



## KAPPA-15A American Standard Series

Recommended for professional audio in a vented mid-bass or bass enclosure. Also suitable for bass guitar.



\* 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. I.e: 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)

# 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

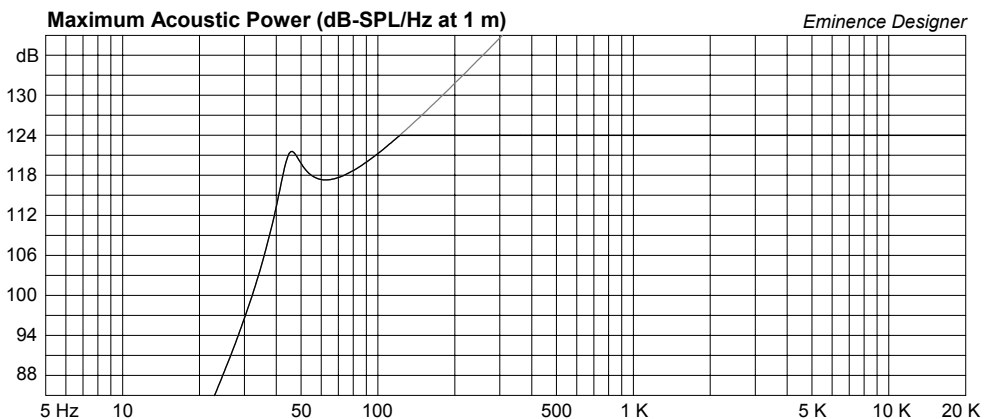
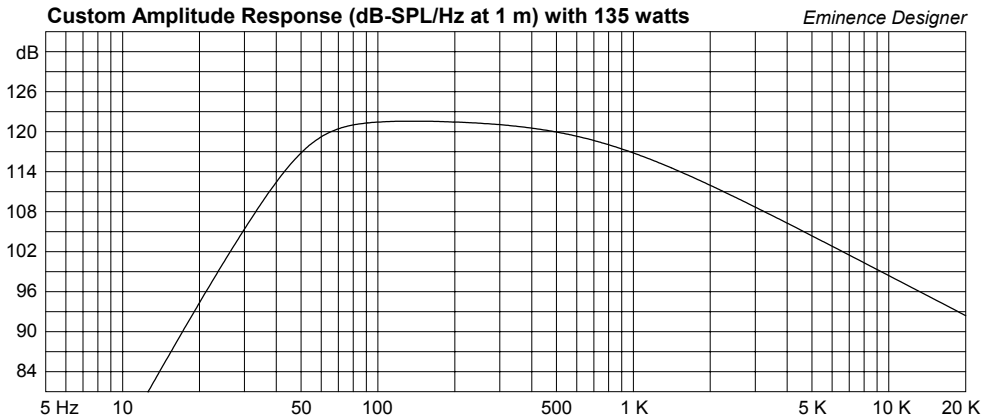
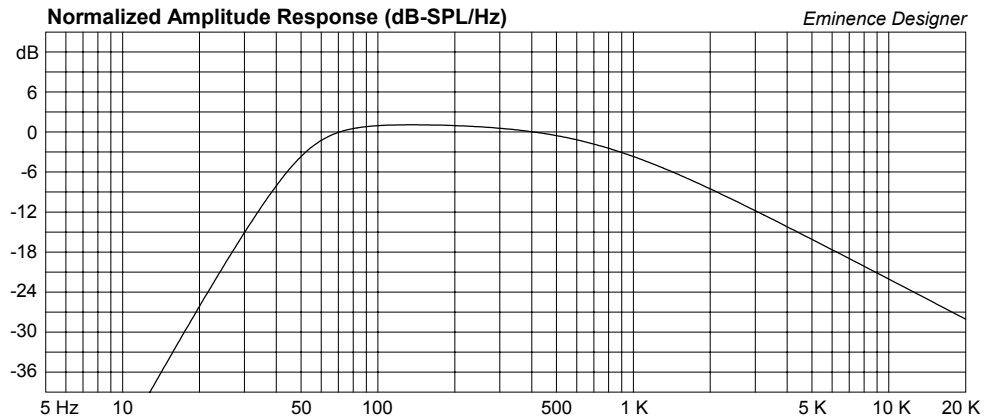
Qes = 0.333

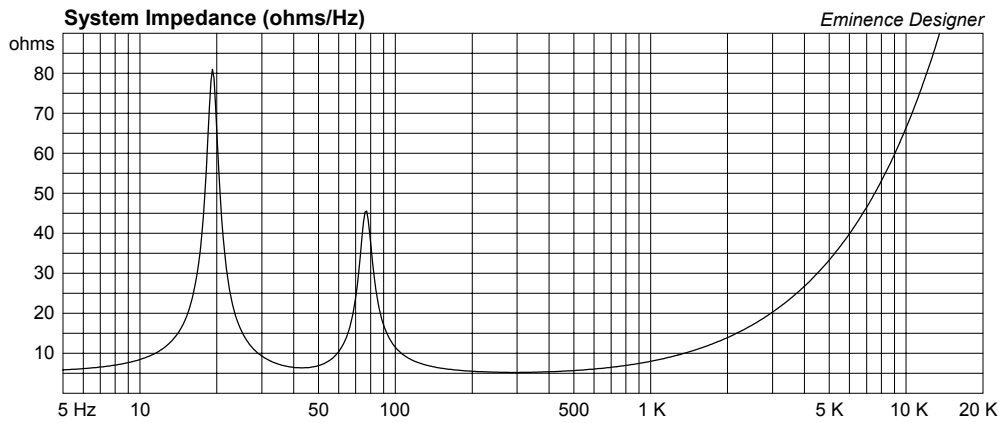
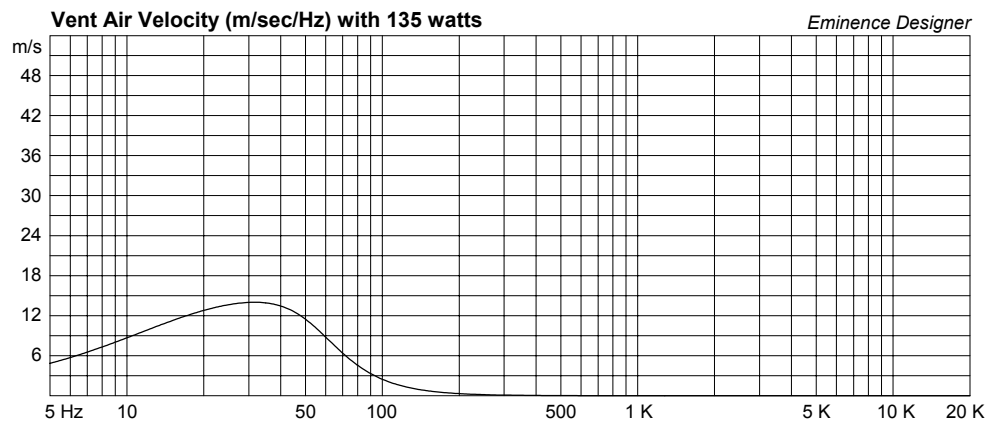
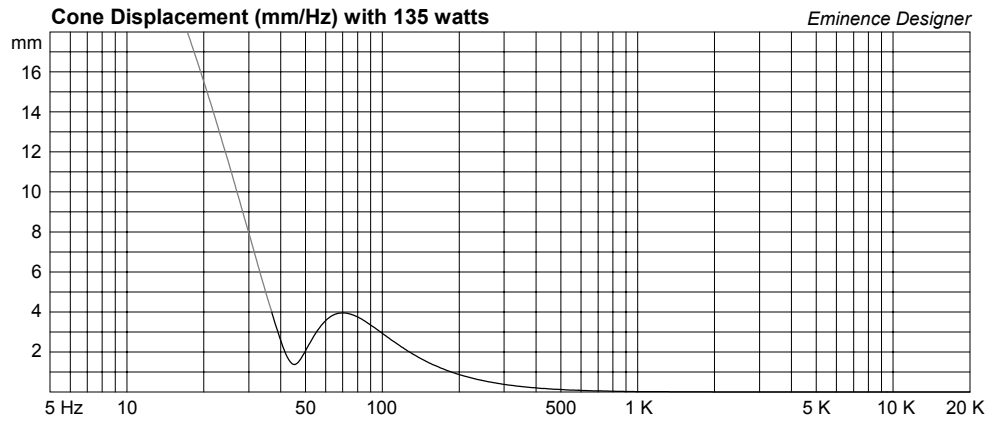
Re = 5.22 ohms

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

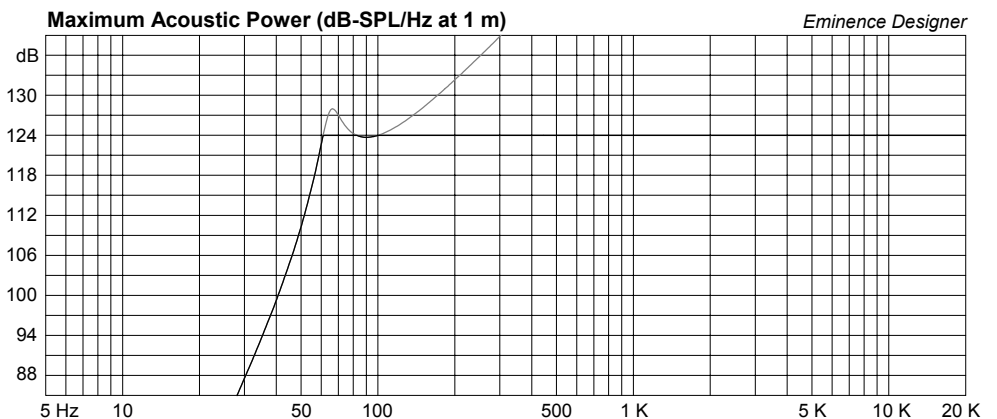
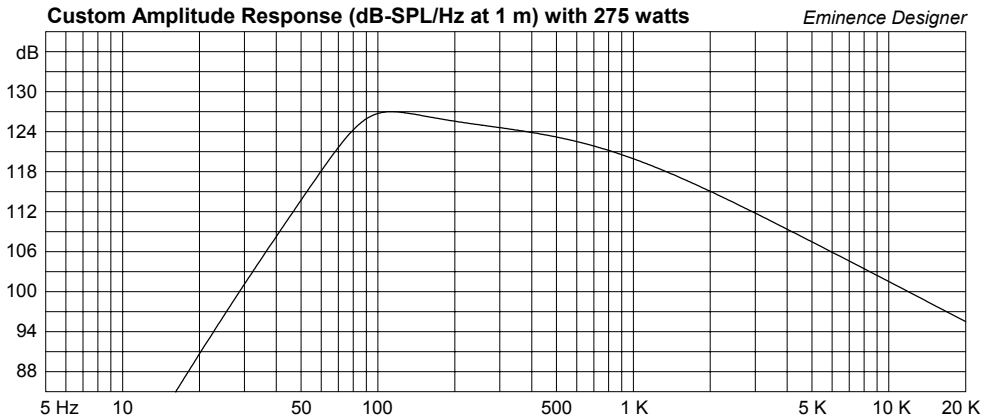
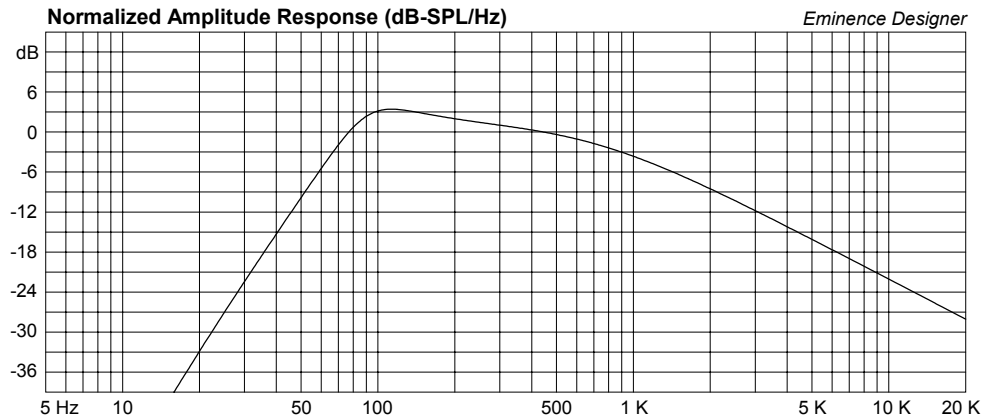
Qes = 0.333

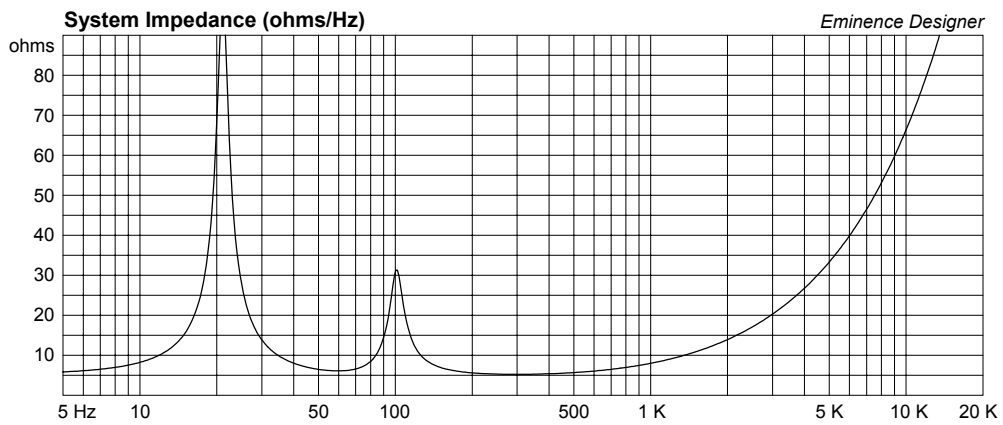
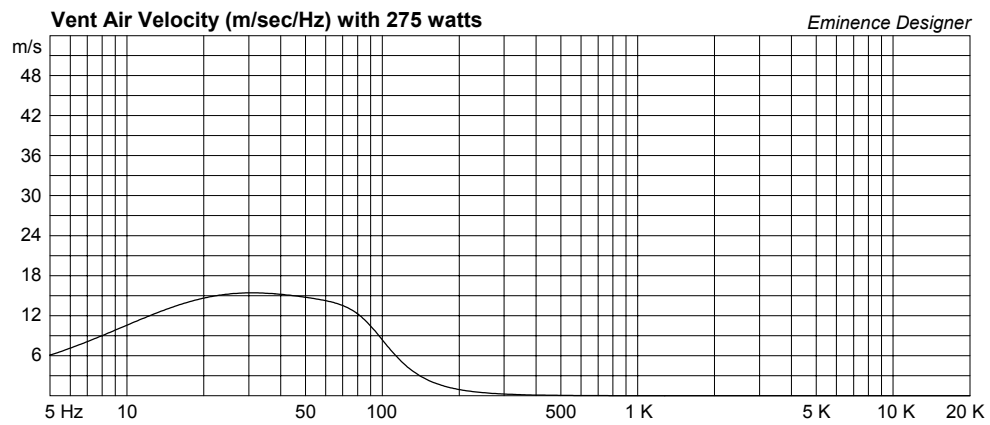
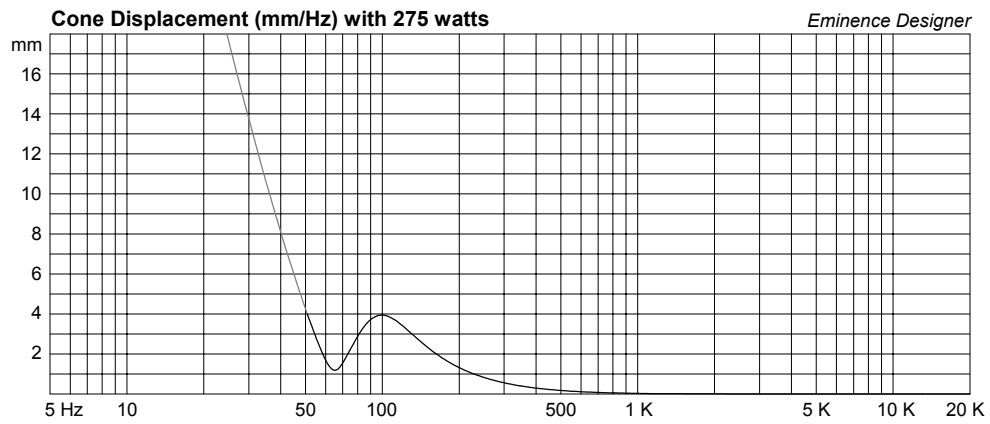
Re = 5.22 ohms

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

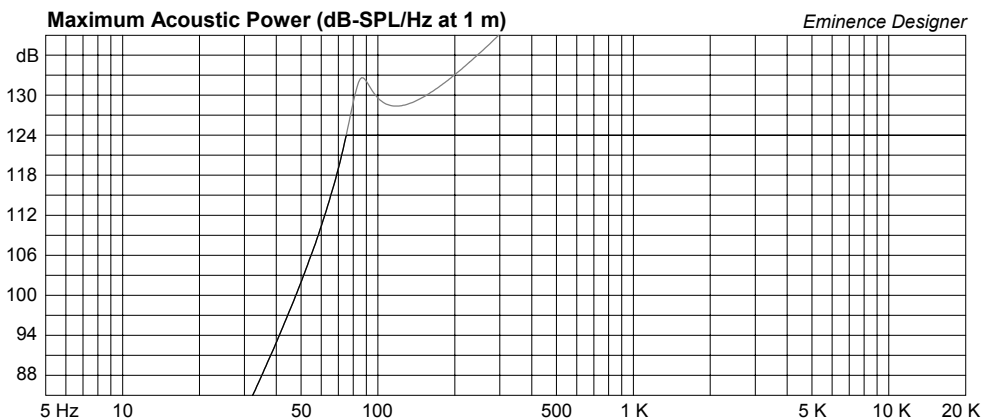
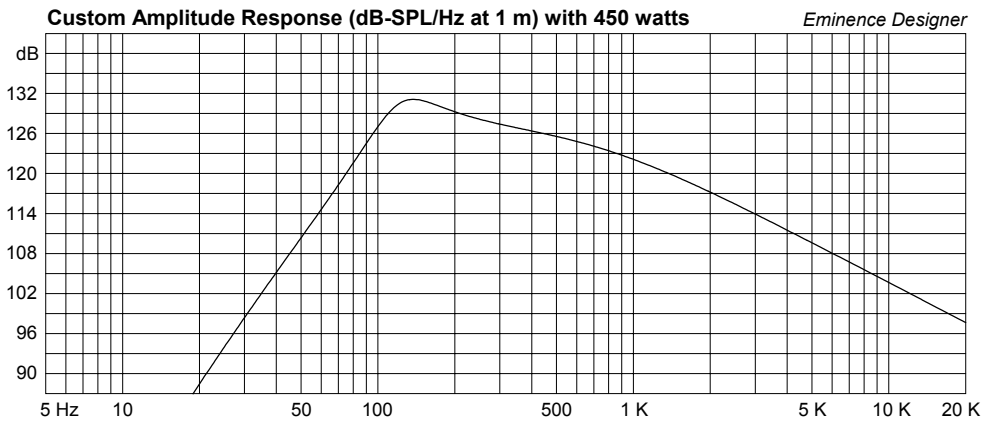
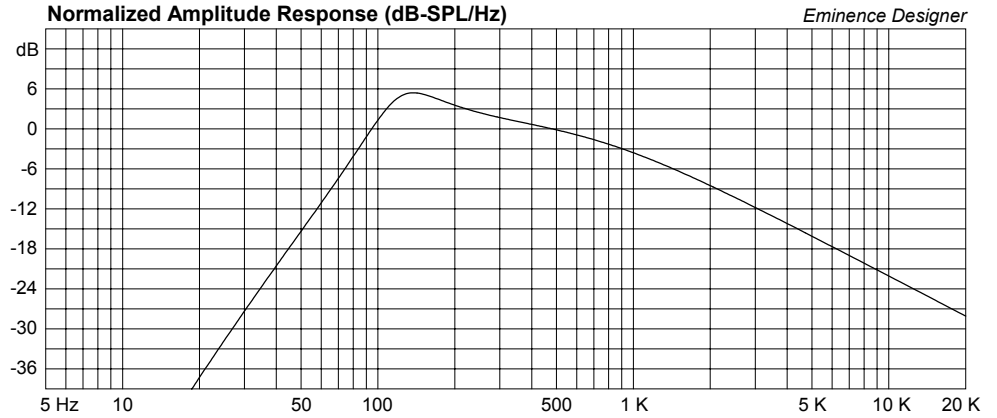
Qes = 0.333

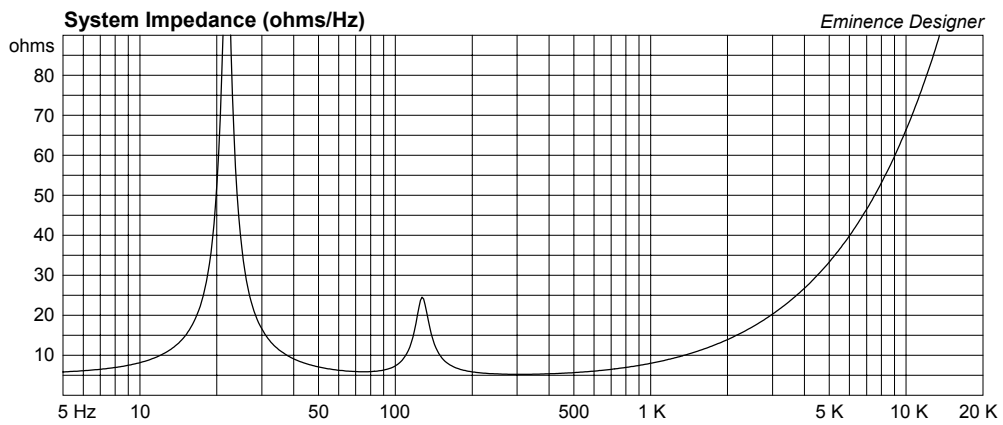
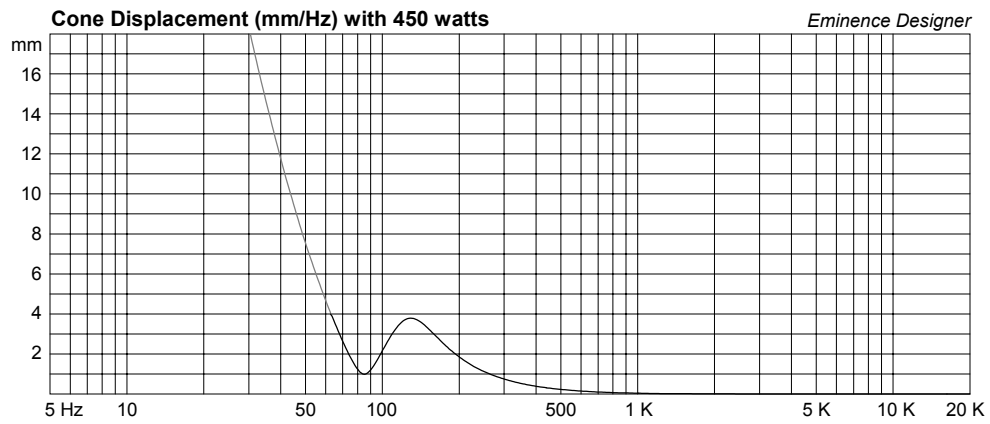
Re = 5.22 ohms

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]

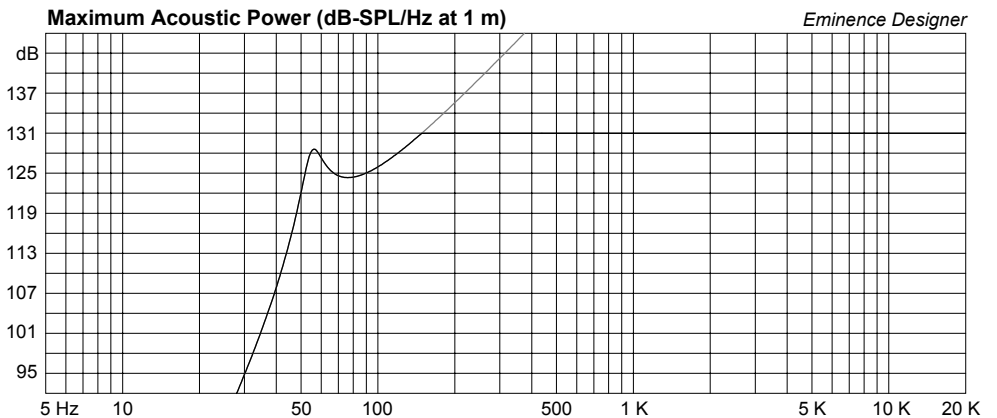
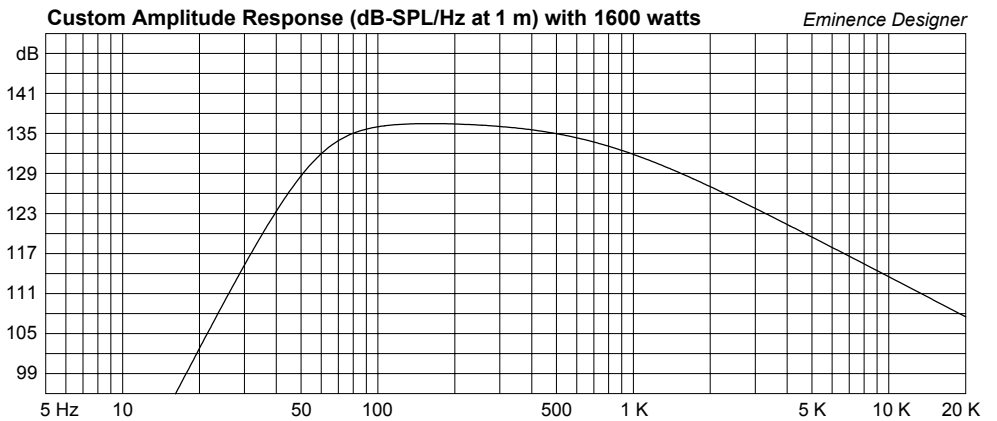
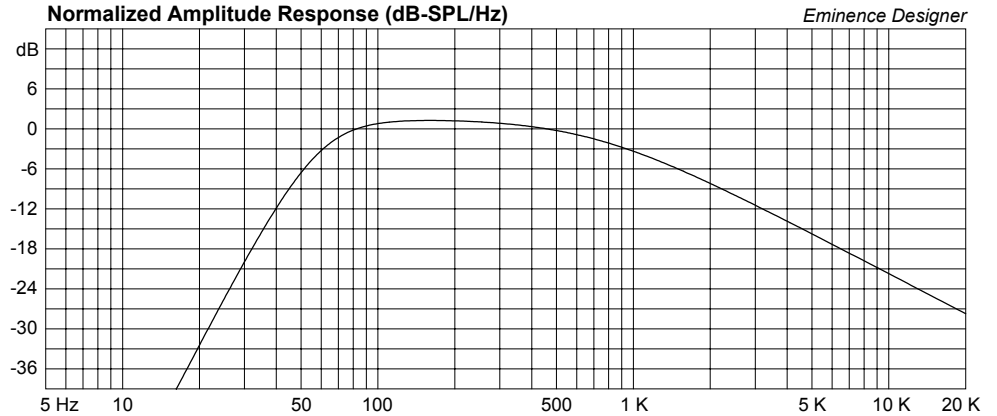
Qes = 0.4

Re = 5.23 ohms [2.615]

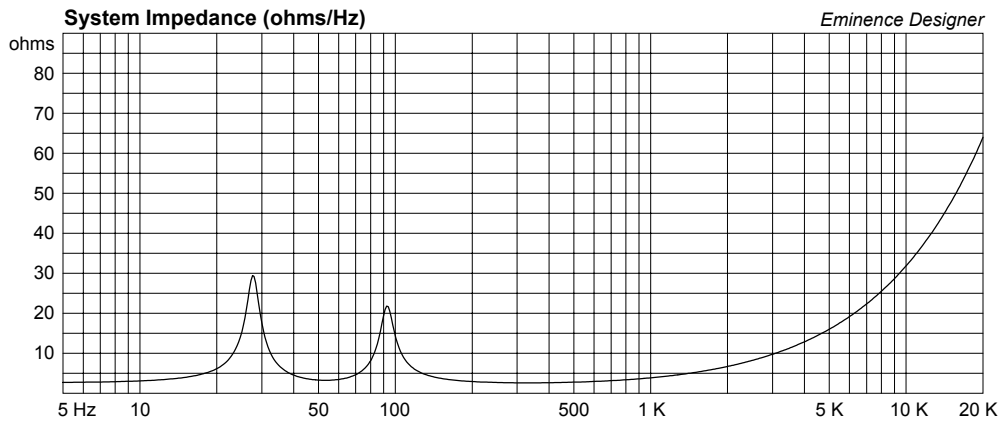
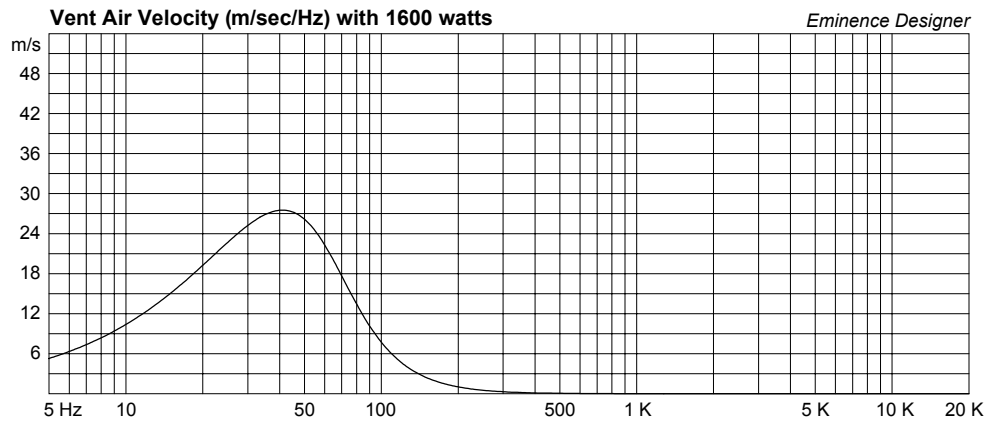
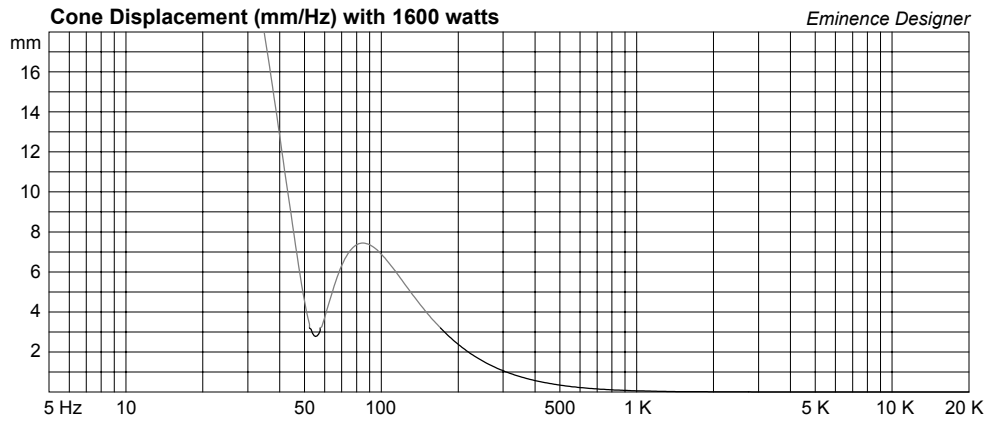
Le = 1.01 mH [0.505]

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]

