

Specification

Nominal Basket Diameter	10", 254mm
Nominal Impedance*	8 ohms
Power Rating**	
Watts	500W
Music Program	1000W
Resonance	46Hz
Usable Frequency Range***	102Hz-2kHz
Sensitivity	97
Magnet Weight	80 oz
Gap Height	0.375", 9.53mm
Voice Coil Diameter	3", 76.2mm

Thiele & Small Parameters

Resonant Frequency (fs)	46Hz
DC Resistance (Re)	6.50
Coil Inductance (Le)	1.15mH
Mechanical Q (Qms)	10.10
Electromagnetic Q (Qes)	0.20
Total Q (Qts)	0.20
Compliance Equivalent Volume (Vas)	52.2 ltr/1.8 cu. ft.
Peak Diaphragm Displacement Volume (Vd)	110cc
Mechanical Compliance of Suspension (Cms)	0.31mm/N
BL Product (BL)	18.8 T-M
Diaphragm Mass inc. Airload (Mms)	38 grams
Efficiency Bandwidth Product (EBP)	230
Maximum Linear Excursion (Xmax)	3.2mm
Surface Area of Cone (Sd)	344.9cm ²
Maximum Mechanical Limit (Xlim)	10.9mm

Mounting Information

Recommended Enclosure Volume	
Sealed	7-9.9 ltr/0.25-0.35 cu. ft.
Vented	12-28 ltr/0.43-1 cu. ft.
Overall Diameter	10.25", 260.4mm
Baffle Hole Diameter	9.13", 231.8mm
Front Sealing Gasket	Fitted as Standard
Rear Sealing Gasket	Fitted as Standard
Mounting Holes Diameter	0.28", 7.1mm
Mounting Holes B.C.D.	9.63", 244.5mm
Depth	4.33", 110mm
Net Weight	15.3 lbs, 6.9 kg
Shipping Weight	16.4 lbs, 7.4 kg

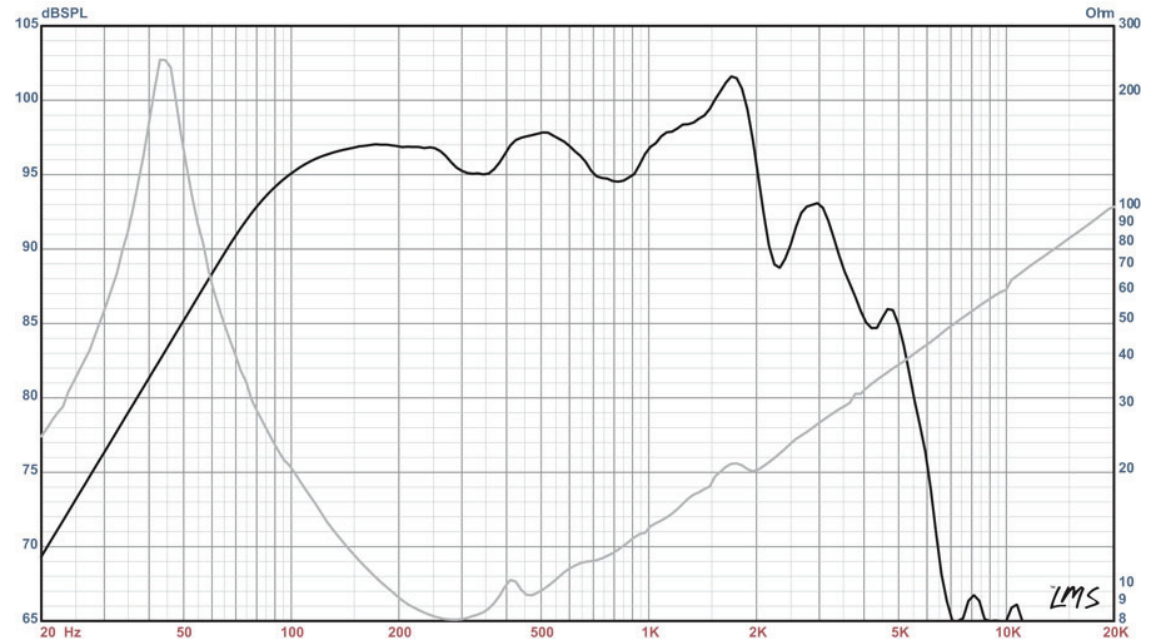
Materials of Construction

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



KAPPA PRO-10A Professional Series

Recommended for professional audio in a sealed mid-range, vented mid-bass, and 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. l_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)

KappaPro10A Mid High Box, Hi Power, Hi F3, Use with a Sub

By McJerry, Eminence Speaker LLC

Displacement and thermally limited to 500 watts. Use a 24 dB per octave high pass filter set to 120 Hz or higher. Great, super high power floor monitor, or as a medium sized mid/high box.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 0.4 cu.ft

V(total) = 0.461 cu.ft

Fb = 110 Hz

QL = 7

F3 = 102.1 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 3.091 in

Lv = 5.014 in

Driver Properties

--Description--

Name: Kappa Pro-10

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised Sep-2002

Piston: 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 = 1

--Driver Parameters--

Fs = 46 Hz

Qms = 10.1

Vas = 52.2 liters

Xmax = 3.2 mm

Sd = 344.9 sq.cm

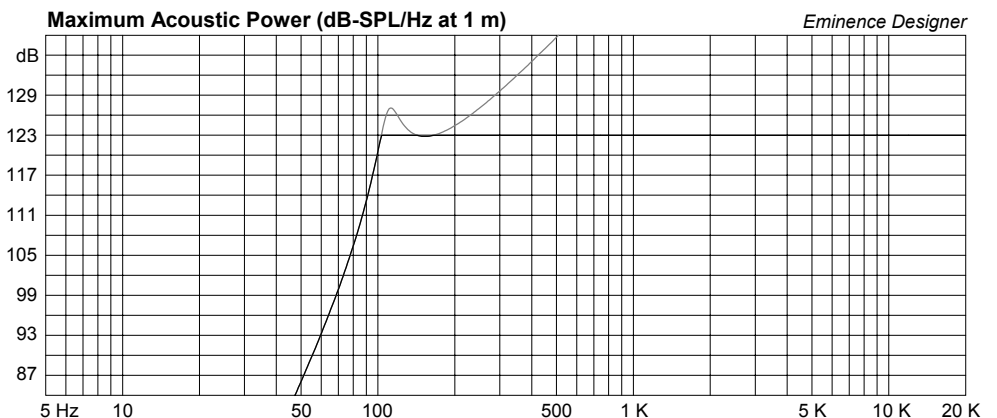
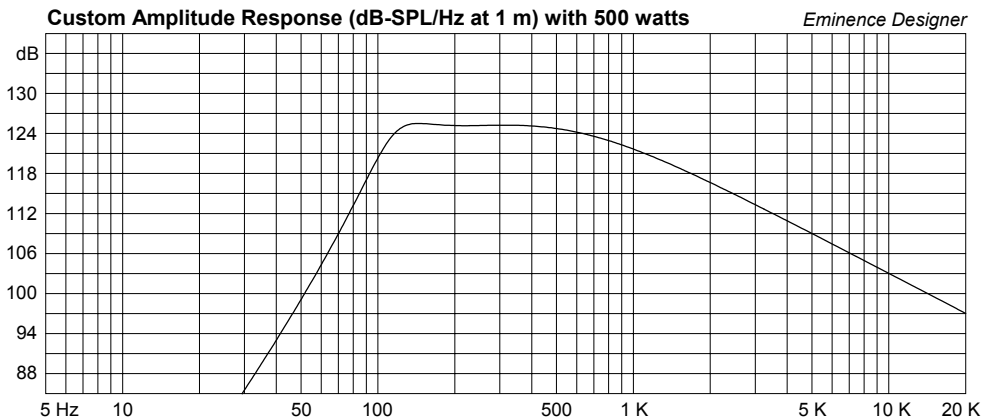
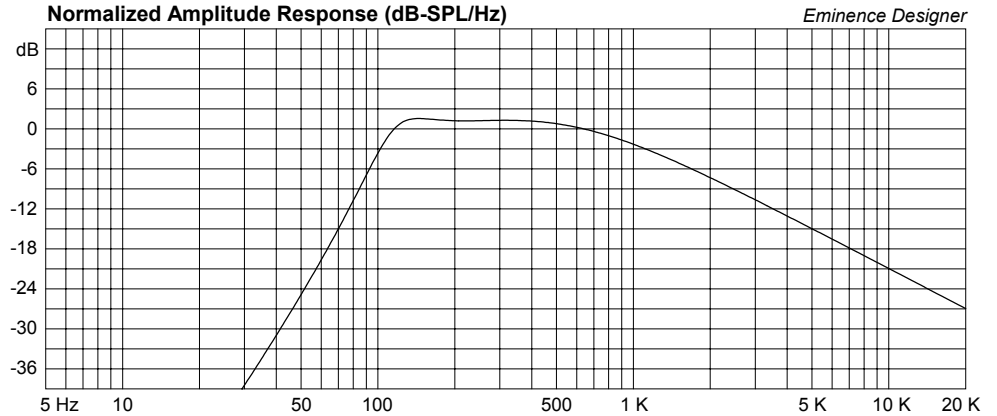
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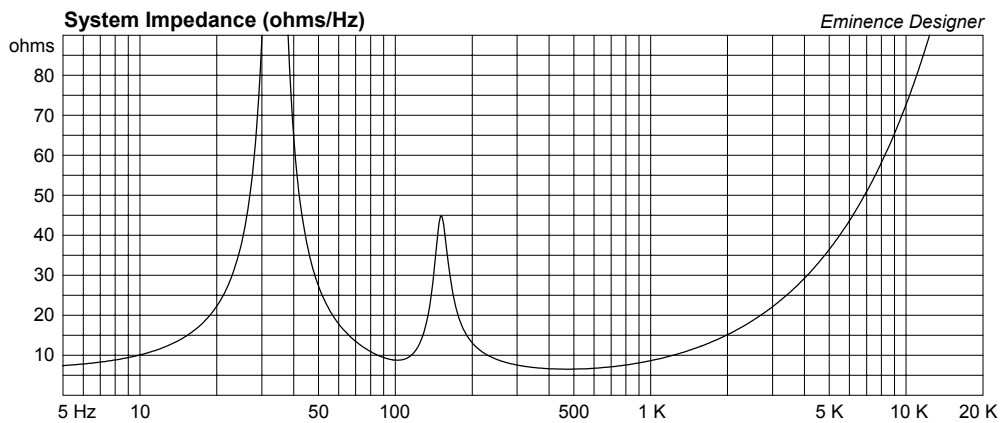
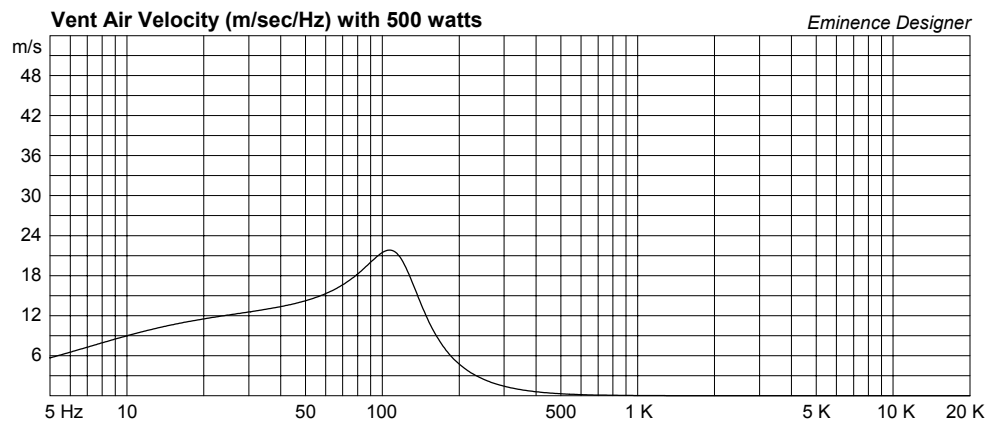
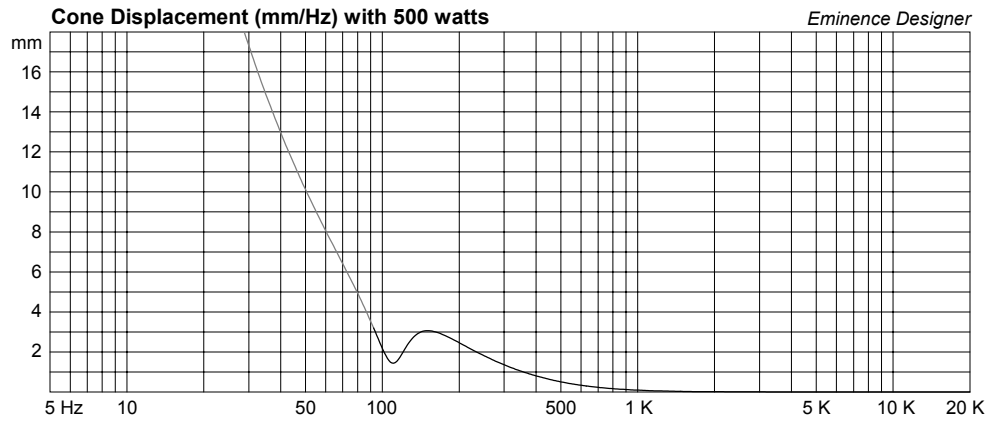
Re = 6.5 ohms

Le = 1.15 mH

Z = 8 ohms

Pe = 500 watts





KappaPro10A Vented Cabinet

By McJerry, Eminence Speaker LLC

Displacement and thermally limited to 500 watts. Use a 24 dB per octave high pass filter set to 120 Hz or higher. Great super high power floor monitor or as a medium sized mid/high box.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 0.4 cu.ft

V(total) = 0.505 cu.ft

Fb = 110 Hz

QL = 7

F3 = 102.1 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 4.62 in

Driver Properties

--Description--

Name: Kappa Pro-10

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: Diecast aluminum basket.

Voice Coil: 3 inch (76.2 mm) copper.

Magnet: 80 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 46 Hz

Qms = 10.1

Vas = 52.2 liters

Xmax = 3.2 mm

Sd = 344.9 sq.cm

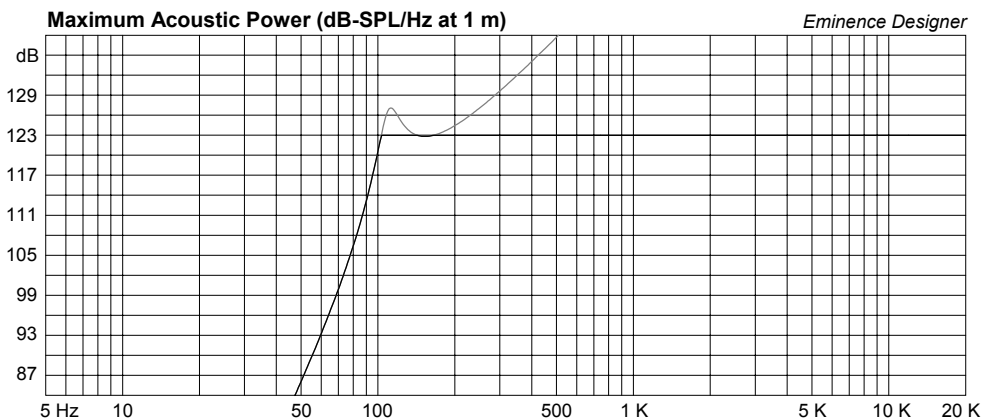
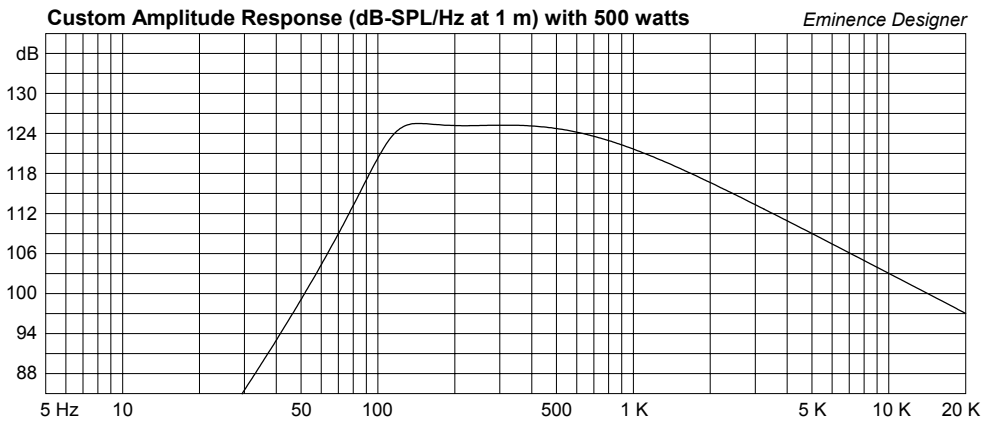
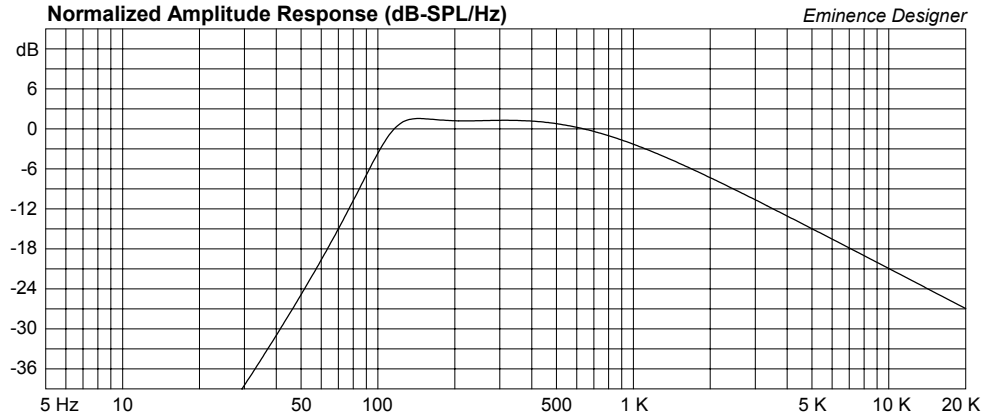
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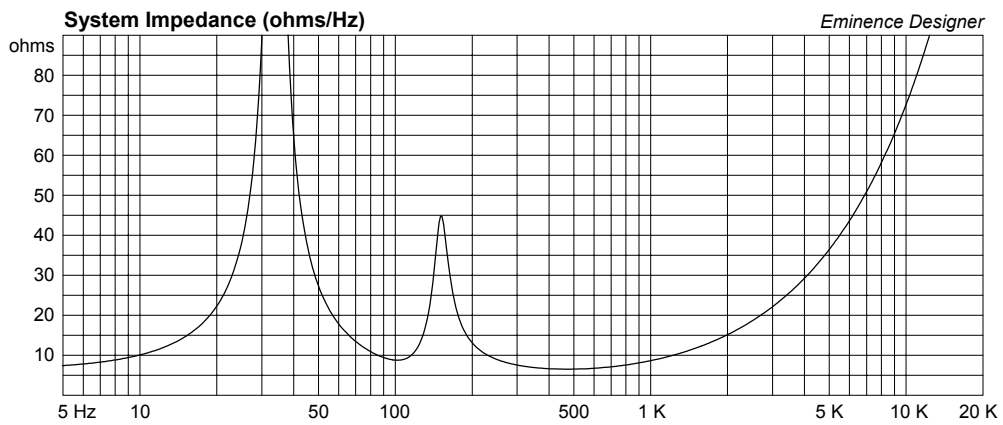
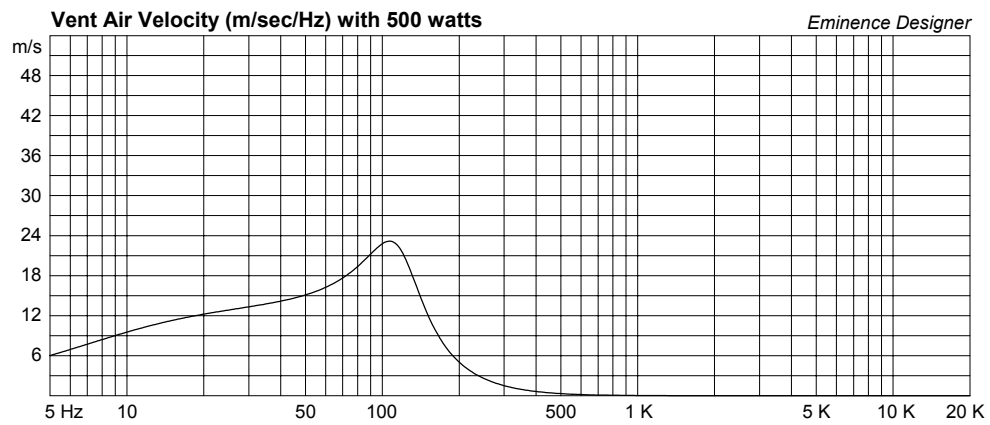
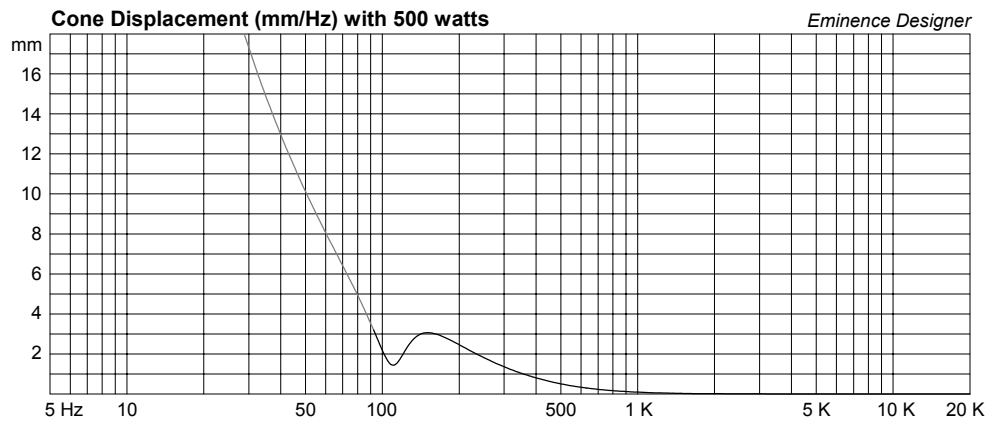
Re = 6.5 ohms

Le = 1.15 mH

Z = 8 ohms

Pe = 500 watts





KappaPro10A Sealed Midrange Enclosure, for 3-Way Systems

By McJerry, Eminence Speaker LLC

Limited to 300 Watts when used in a sealed box. Use a 12 dB per octave or steeper high pass at 300 Hz. Use stuffing in the sealed chamber.

Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 0.2 cu.ft

V(total) = 0.261 cu.ft

Qtc = 0.514

QL = 20

F3 = 188.3 Hz

Fill = heavy

Driver Properties

--Description--

Name: Kappa Pro-10

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: Diecast aluminum basket.

Voice Coil: 3 inch (76.2 mm) copper.

Magnet: 80 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 46 Hz

Qms = 10.1

Vas = 52.2 liters

Xmax = 3.2 mm

Sd = 344.9 sq.cm

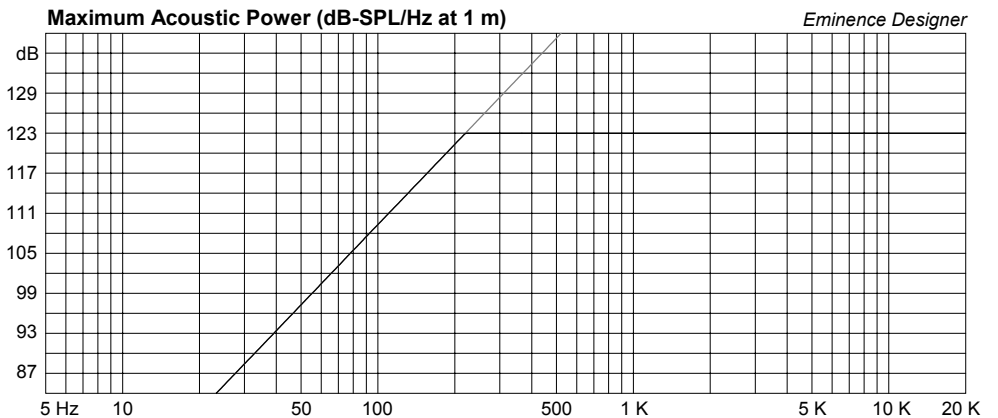
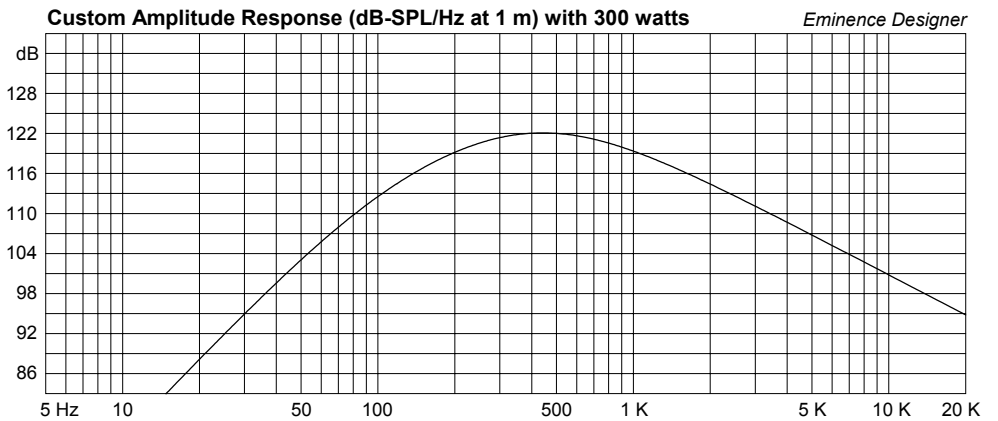
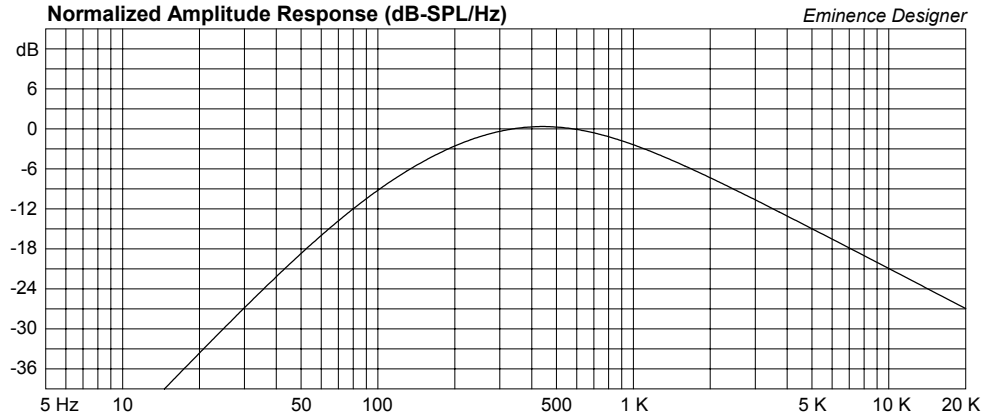
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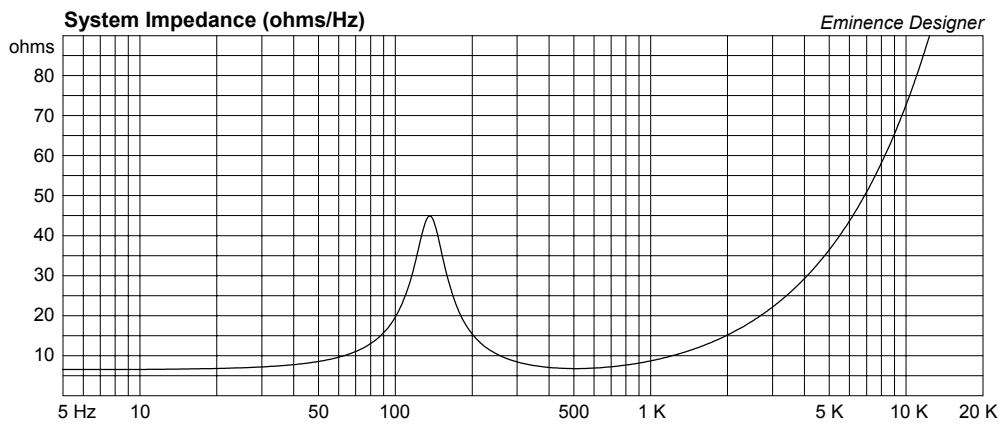
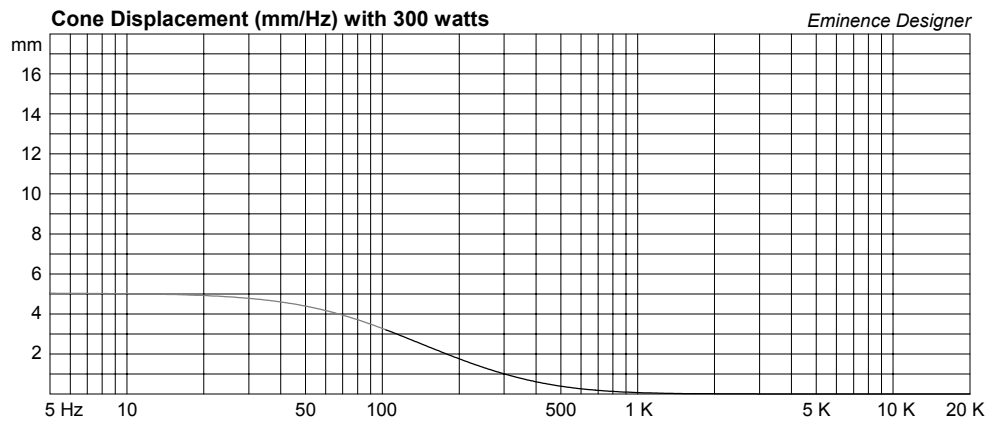
Re = 6.5 ohms

Le = 1.15 mH

Z = 8 ohms

Pe = 500 watts





KappaPro10A Small Vented Cabinet

By McJerry, Eminence Speaker LLC

Displacement and thermally limited to 500 watts. Use a 24 dB per octave high pass filter set to 150 Hz or higher. Great high power floor monitor, mid range in a three way system, or as a mid/high box.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 0.3 cu.ft

V(total) = 0.431 cu.ft

Fb = 110 Hz

QL = 7

F3 = 109.3 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 7.349 in

Driver Properties

--Description--

Name: Kappa Pro-10

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: Diecast aluminum basket.

Voice Coil: 3 inch (76.2 mm) copper.

Magnet: 80 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 46 Hz

Qms = 10.1

Vas = 52.2 liters

Xmax = 3.2 mm

Sd = 344.9 sq.cm

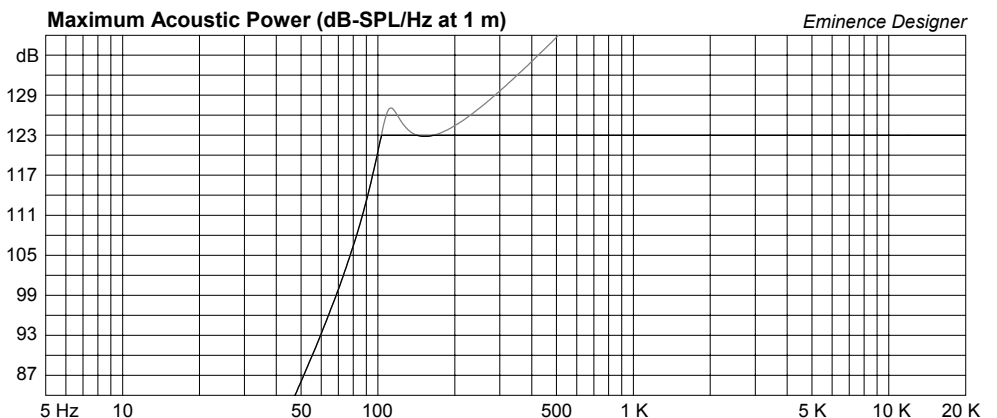
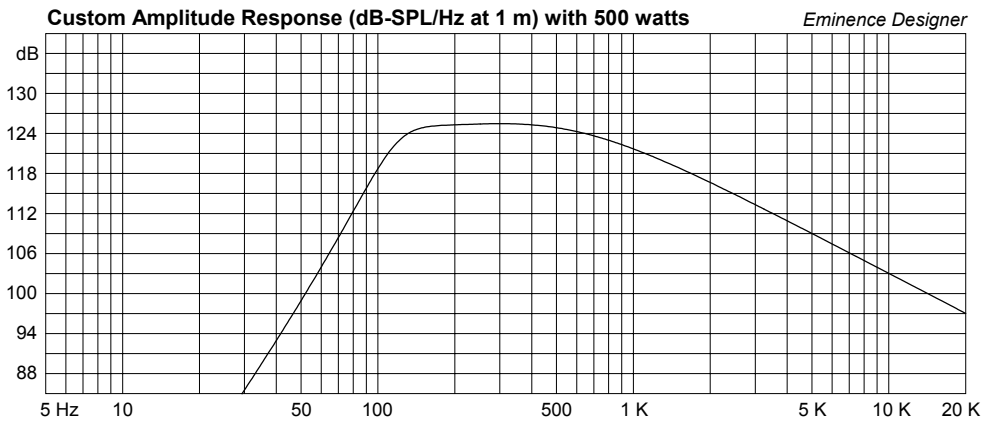
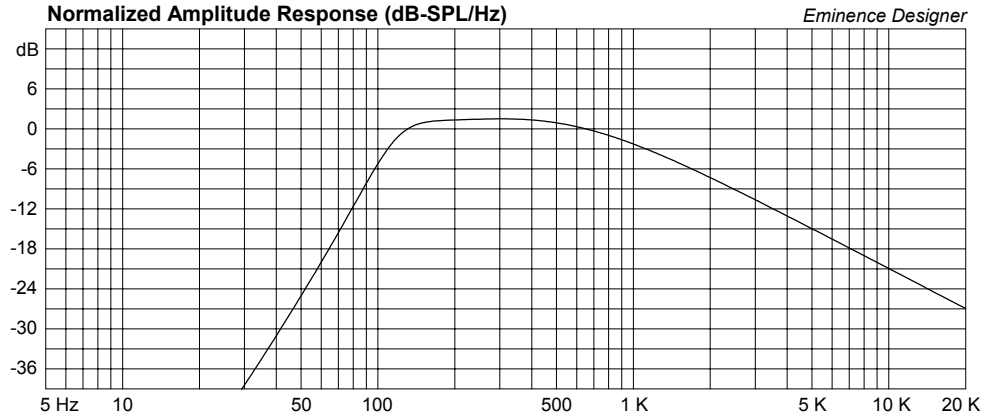
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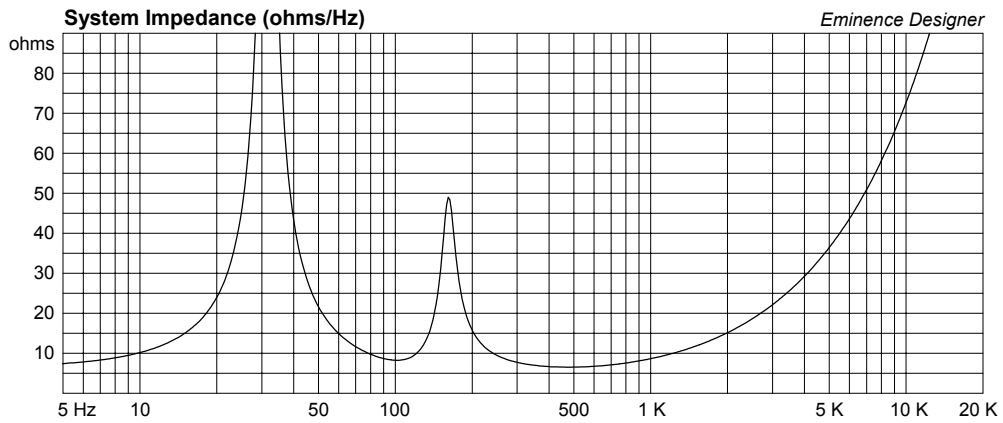
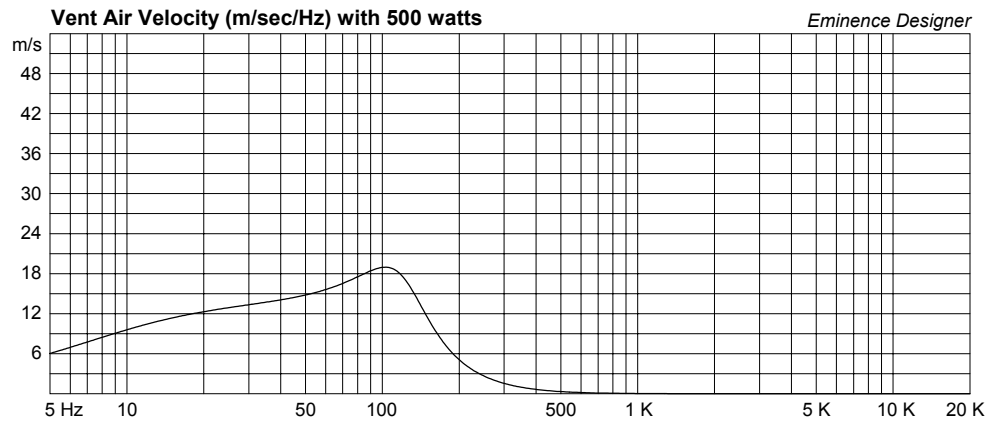
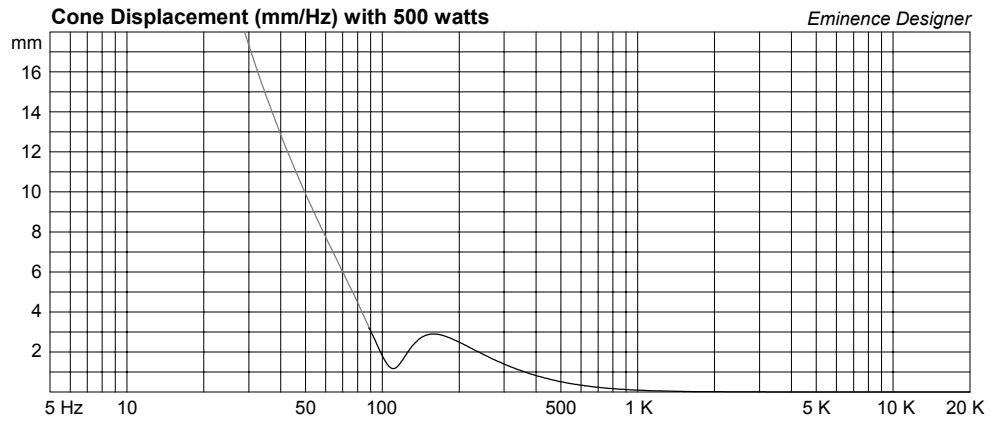
Re = 6.5 ohms

Le = 1.15 mH

Z = 8 ohms

Pe = 500 watts





KappaPro10A Vented Bass Guitar Cabinet

By McJerry, Eminence Speaker LLC

Displacement Limited to 175 Watts. F3 of 144.6 Hz, but has extremely slow roll-off for really tight, and punchy low bass.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 0.75 cu.ft

V(total) = 0.944 cu.ft

Fb = 55 Hz

QL = 7

F3 = 144.6 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 13.9 in

Driver Properties

--Description--

Name: Kappa Pro-10

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: Diecast aluminum basket.

Voice Coil: 3 inch (76.2 mm) copper.

Magnet: 80 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 46 Hz

Qms = 10.1

Vas = 52.2 liters

Xmax = 3.2 mm

Sd = 344.9 sq.cm

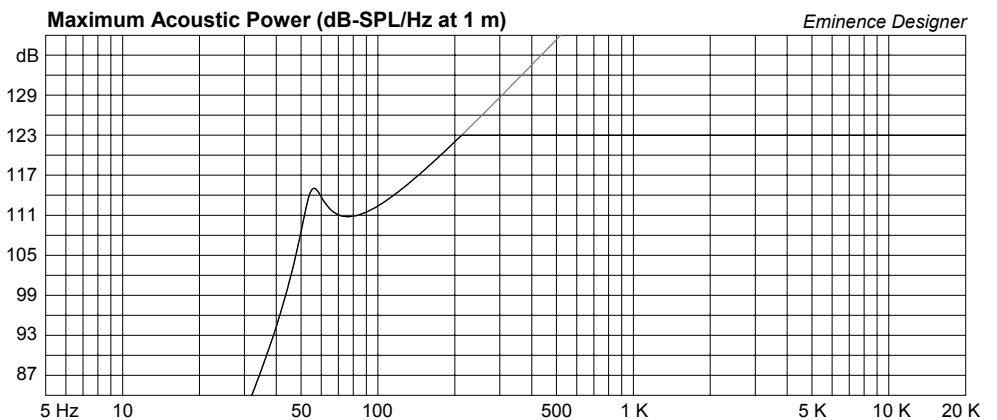
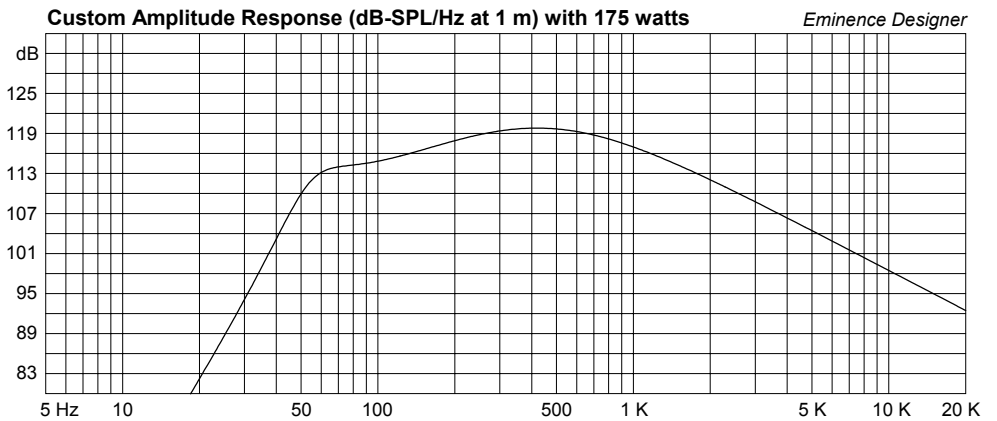
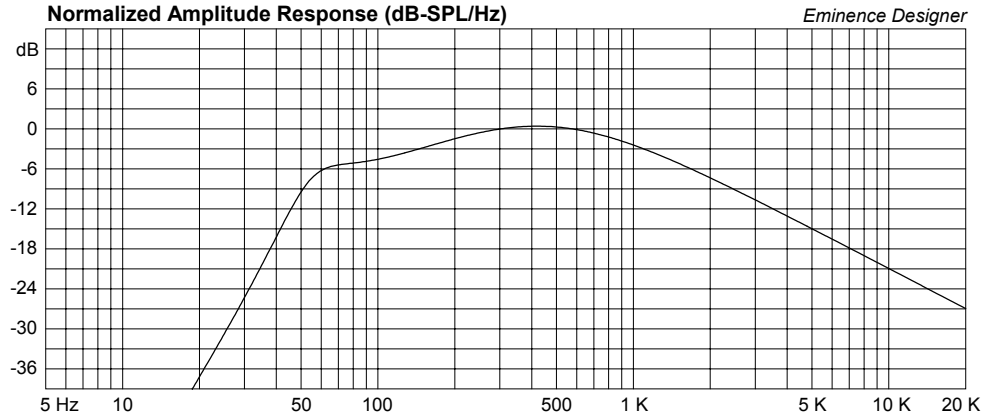
Qes = 0.2

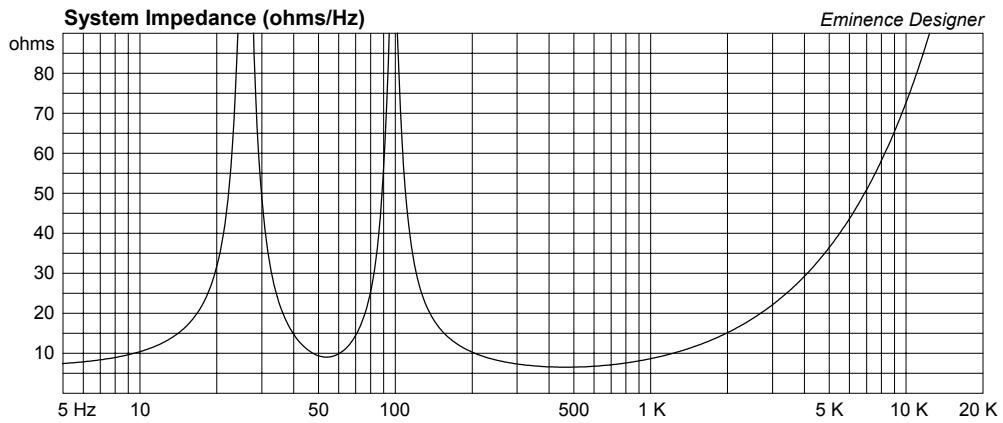
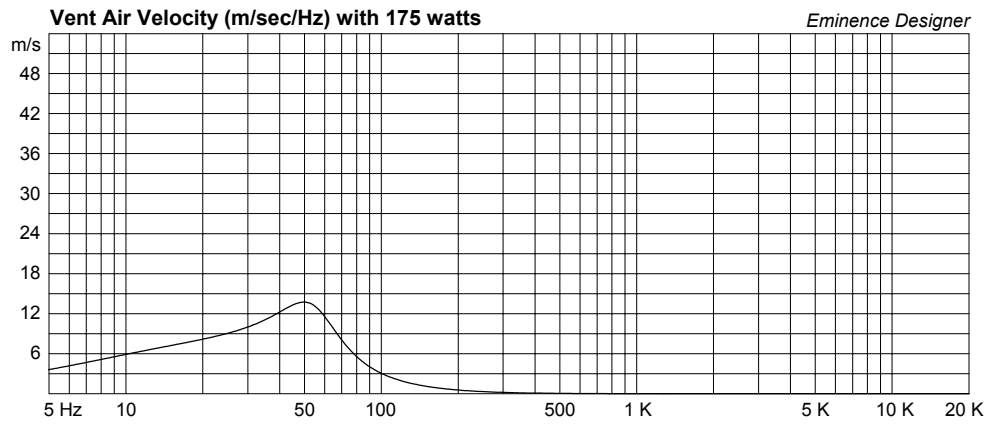
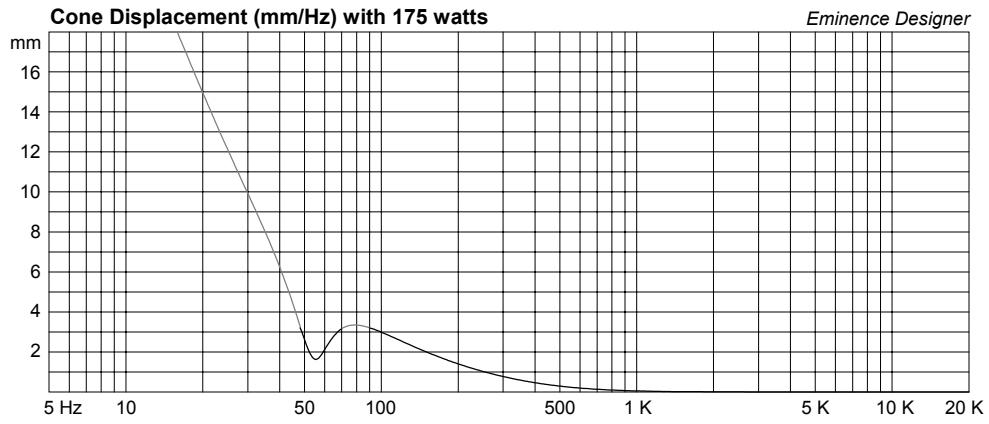
Re = 6.5 ohms

Le = 1.15 mH

Z = 8 ohms

Pe = 500 watts





KappaPro10A Small Vented Mid Range Cabinet

By McJerry, Eminence Speaker LLC

Limited to 450 Watts; use a steep high pass filter set to 150 Hz. Not for full range use.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 0.2 cu.ft

V(total) = 0.301 cu.ft

Fb = 110 Hz

QL = 7

F3 = 126 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 2.3 in

Lv = 6.89 in

Driver Properties

--Description--

Name: Kappa Pro-10

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised Sep-2002

Piston: 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 = 1

--Driver Parameters--

Fs = 46 Hz

Qms = 10.1

Vas = 52.2 liters

Xmax = 3.2 mm

Sd = 344.9 sq.cm

Qes = 0.2

Re = 6.5 ohms

Le = 1.15 mH

Z = 8 ohms

Pe = 500 watts

