

Specification

Nominal Basket Diameter	15", 381mm
Nominal Impedance*	8 ohms
Power Rating**	
Watts	500W
Music Program	1000W
Resonance	47Hz
Usable Frequency Range***	46Hz-4kHz
Sensitivity	101
Magnet Weight	80 oz
Gap Height	0.375", 9.53mm
Voice Coil Diameter	3", 76.2mm

Thiele & Small Parameters

Resonant Frequency (fs)	47Hz
DC Resistance (Re)	5.23
Coil Inductance (Le)	1.01mH
Mechanical Q (Qms)	8.01
Electromagnetic Q (Qes)	0.40
Total Q (Qts)	0.38
Compliance Equivalent Volume (Vas)	167.7 ltr/5.9 cu. ft.
Peak Diaphragm Displacement Volume (Vd)	274cc
Mechanical Compliance of Suspension (Cms)	0.16mm/N
BL Product (BL)	16.6 T-M
Diaphragm Mass inc. Airload (Mms)	72 grams
Efficiency Bandwidth Product (EBP)	118
Maximum Linear Excursion (Xmax)	3.2mm
Surface Area of Cone (Sd)	856.3cm ²
Maximum Mechanical Limit (Xlim)	13.2mm

Mounting Information

Recommended Enclosure Volume	
Sealed	N/A
Vented	54-184 ltr/1.9-6.5 cu. ft.
Overall Diameter	15.32", 389.1mm
Baffle Hole Diameter	14.0", 355.6mm
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	16.9 lbs, 7.7 kg
Shipping Weight	19.5 lbs, 8.9 kg

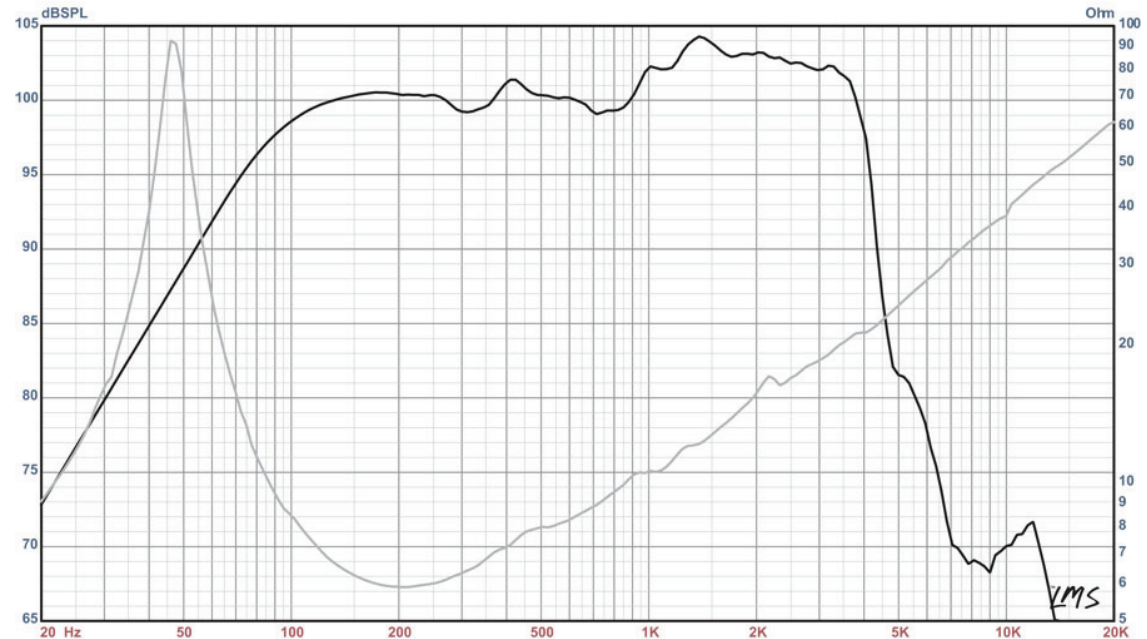
Materials of Construction

Coil Construction	Aluminum
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-15A Professional 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. 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)

KappaPro15A, Small Vented Box, For Mid/High use only.

By McJerry, Eminence Speaker LLC

Displacement limited to 300 watts if run down to 100 Hz. Displacement and thermally limited to 500 watts if run down to only 180 Hz. Will require some EQ to flatten out hump at 120 Hz.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 1.8 cu.ft

V(total) = 1.951 cu.ft

Fb = 85 Hz

QL = 7

F3 = 83.53 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4.058 in

Lv = 0.75 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 composition paper dust cap.

Frame: Diecast aluminum basket.

Voice Coil: 3 inch (76.2 mm) AL Wire Kapton former.

Magnet: 80 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 47 Hz

Qms = 8.01

Vas = 167.7 liters

Cms = 0.16 mm/N

Mms = 72 g

Rms = 2.62 kg/s

Xmax = 3.2 mm

Xmech = 13.21 mm

P-Dia = 330.7 mm

Sd = 856.3 sq.cm

P-Vd = 0.272 liters

--Electrical Parameters--

Qes = 0.4

Re = 5.23 ohms

Le = 1.01 mH

Z = 8 ohms

BL = 16.6 Tm

Pe = 500 watts

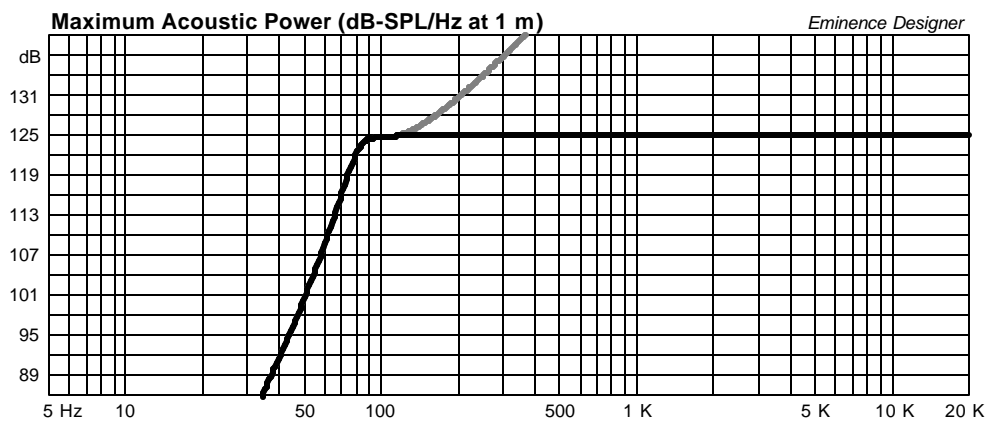
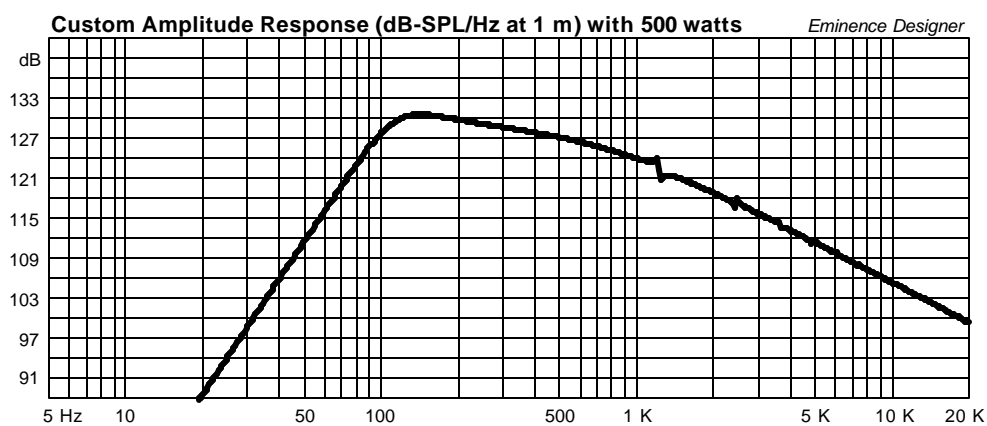
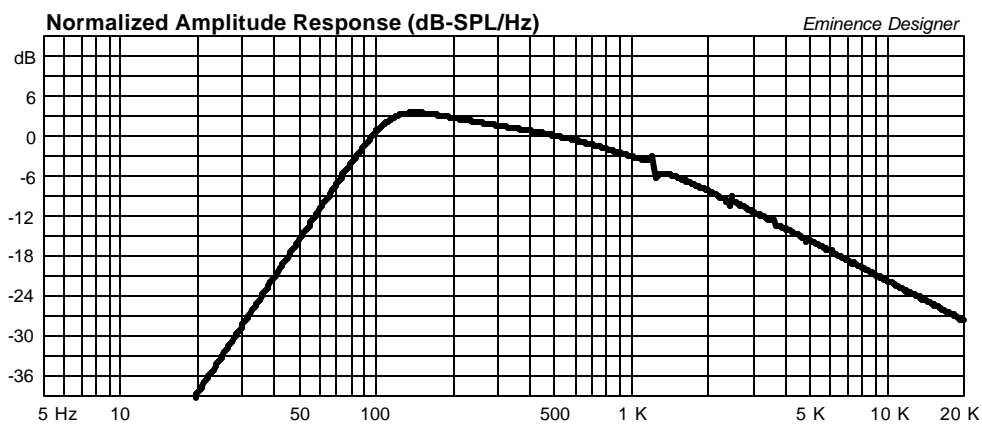
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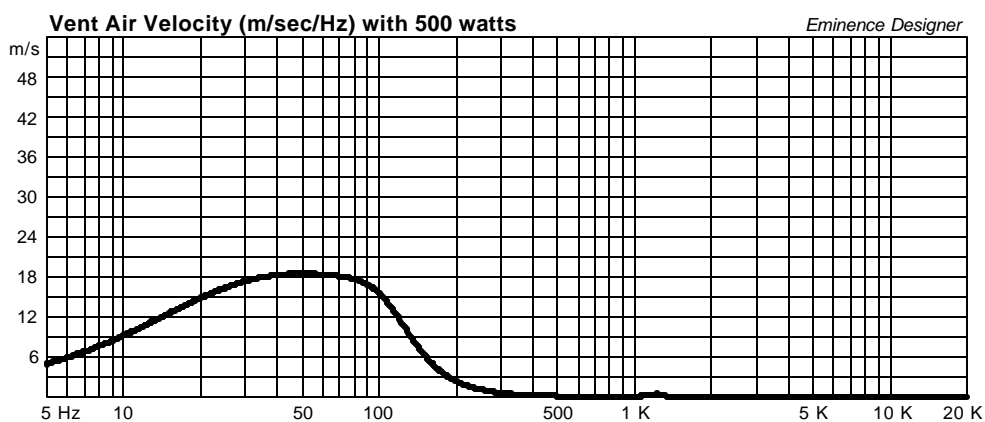
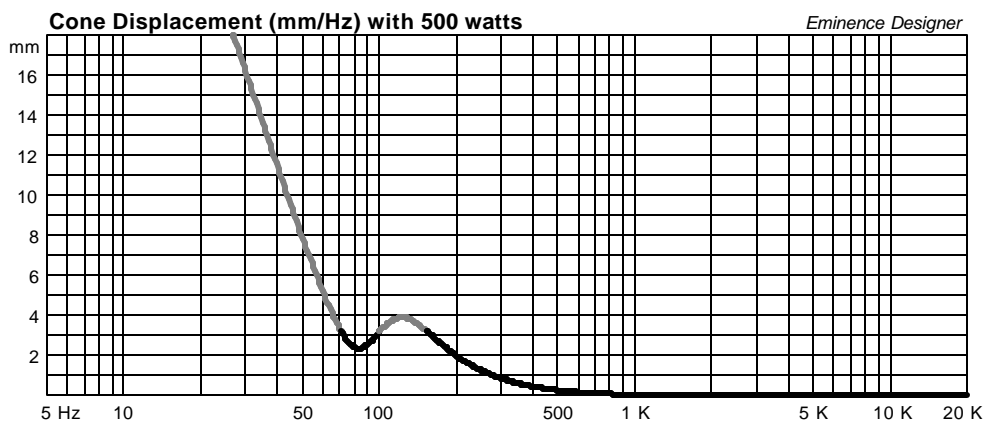
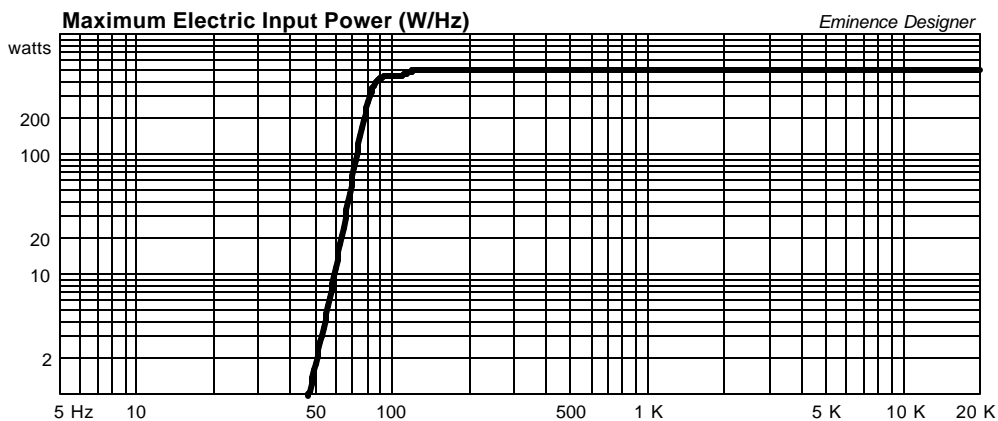
Qts = 0.38

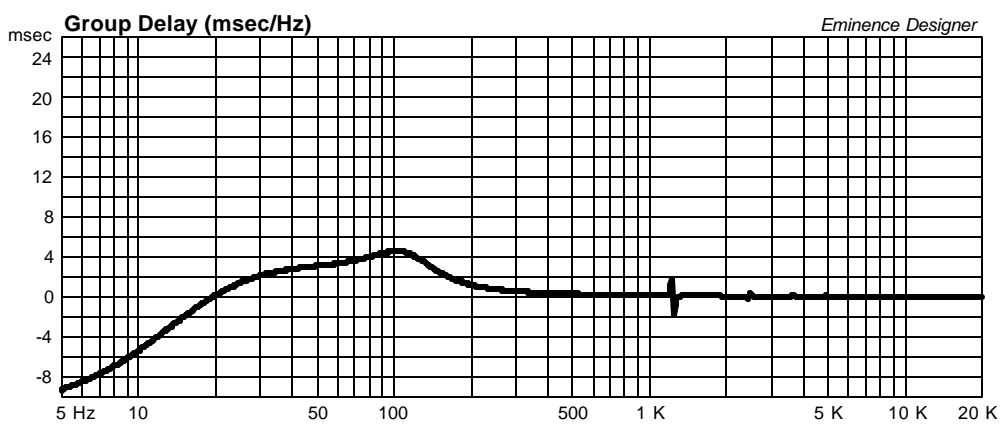
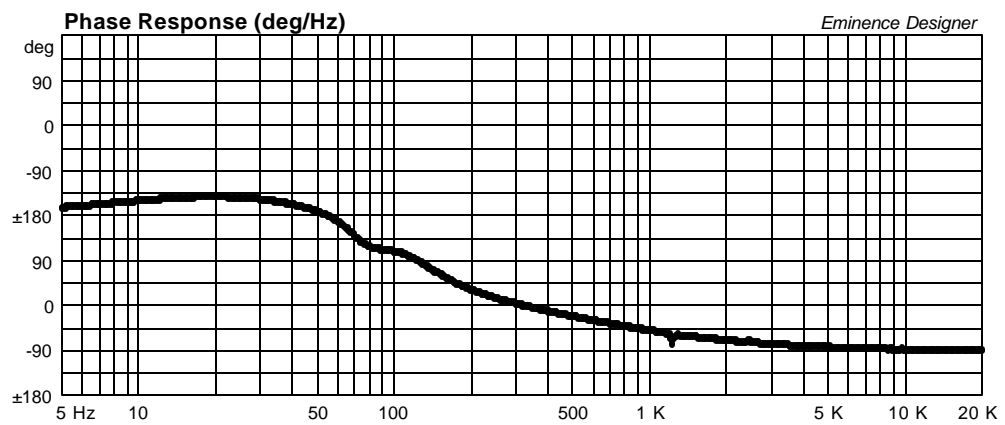
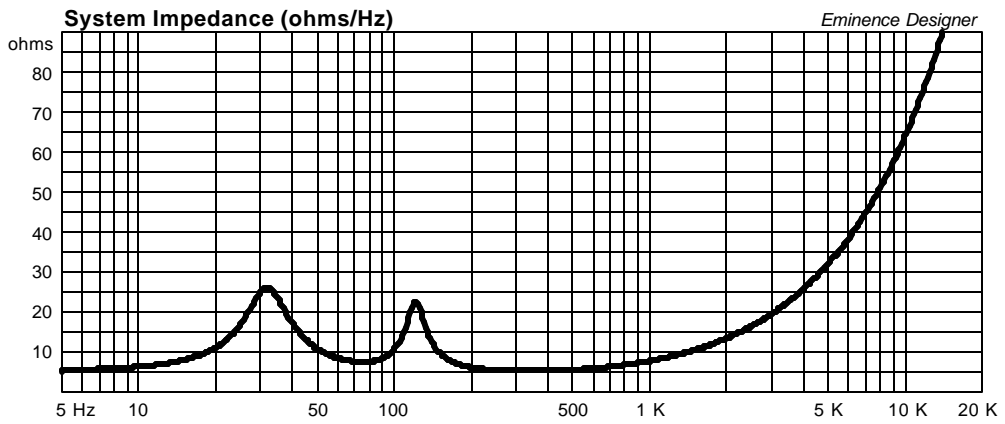
no = 4.197 %

1-W SPL = 98.38 dB

2.83-V SPL = 100.2 dB







KappaPro15A Med Vented Box, Pwr Handling Varies With Use

By McJerry, Eminence Speaker LLC

Displacement limited to 125 watts if run down to 65 Hz. Displacement limited to 400 watts if only run down to 180 Hz.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 3.4 cu.ft

V(total) = 3.596 cu.ft

Fb = 50 Hz

QL = 7

F3 = 65.35 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 3.531 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 composition paper dust cap.

Frame: Diecast aluminum basket.

Voice Coil: 3 inch (76.2 mm) AL Wire Kapton former.

Magnet: 80 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 47 Hz

Qms = 8.01

Vas = 167.7 liters

Cms = 0.16 mm/N

Mms = 72 g

Rms = 2.62 kg/s

Xmax = 3.2 mm

Xmech = 13.21 mm

P-Dia = 330.7 mm

Sd = 856.3 sq.cm

P-Vd = 0.272 liters

--Electrical Parameters--

Qes = 0.4

Re = 5.23 ohms

Le = 1.01 mH

Z = 8 ohms

BL = 16.6 Tm

Pe = 500 watts

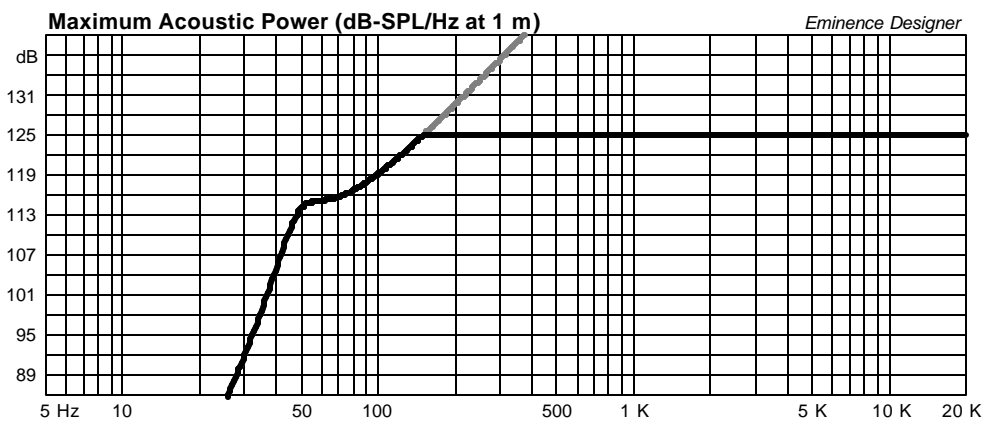
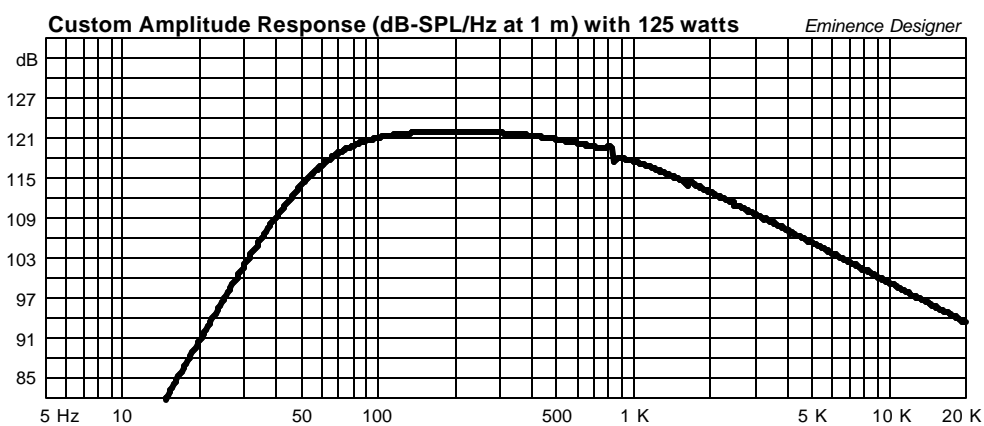
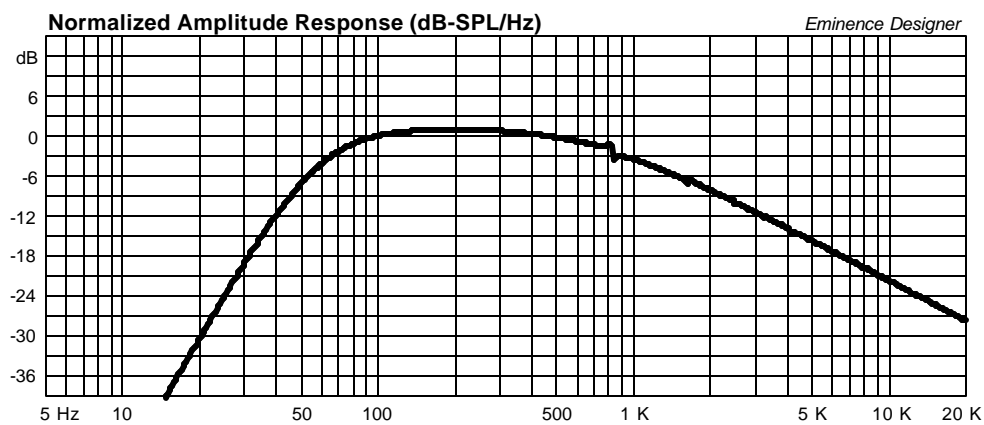
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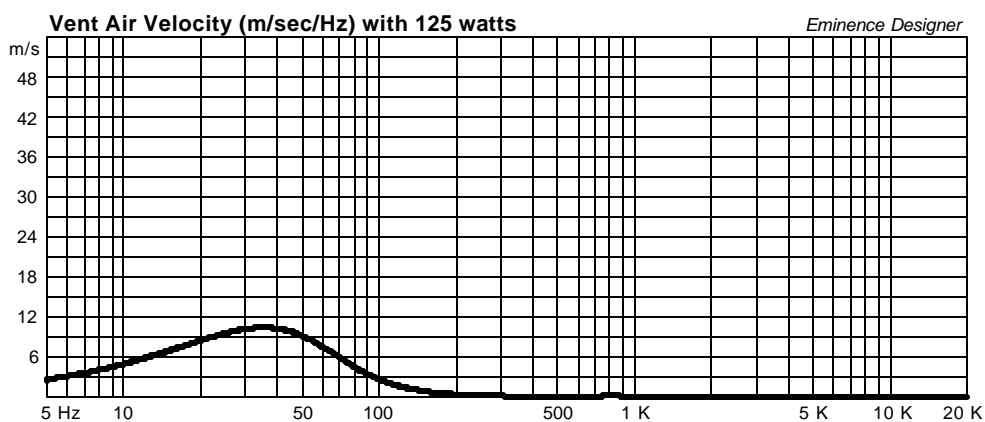
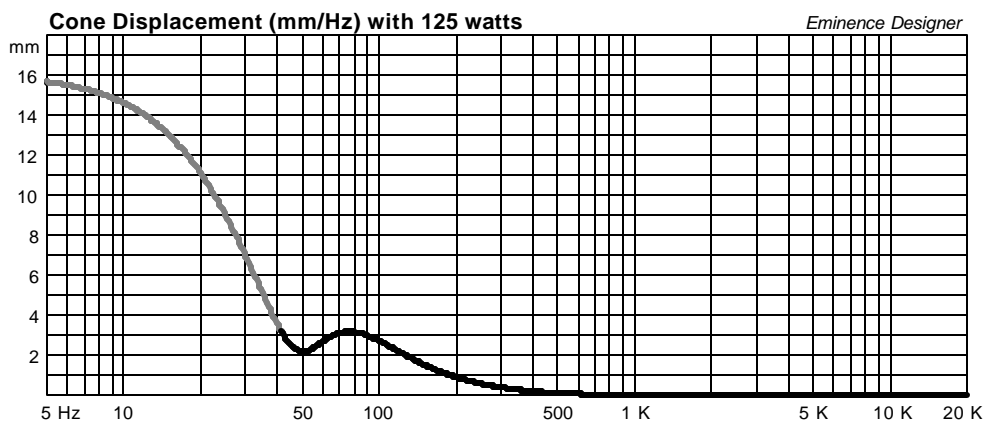
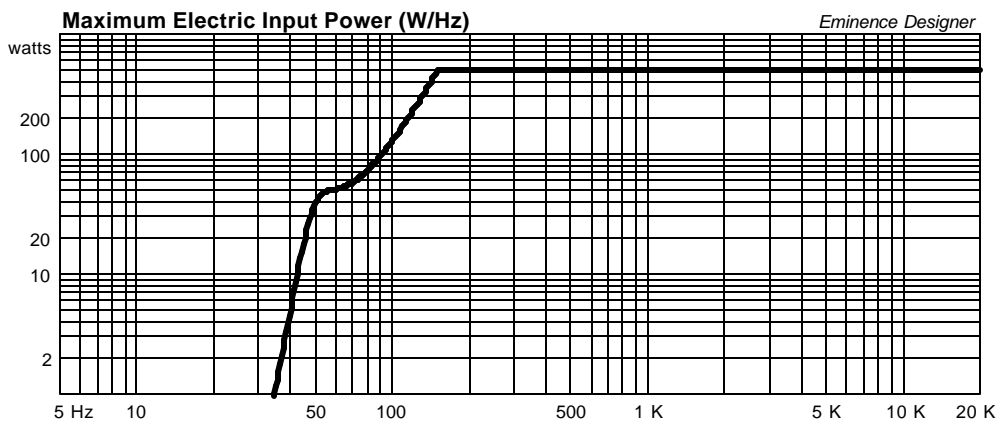
Qts = 0.38

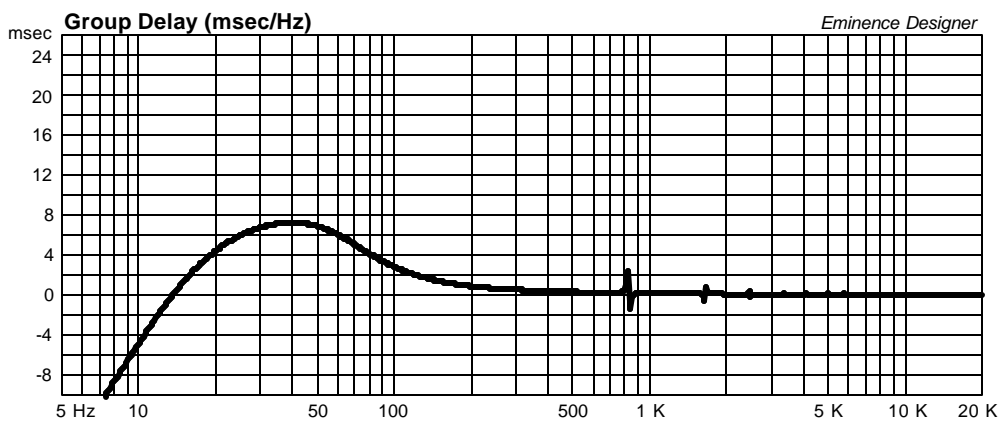
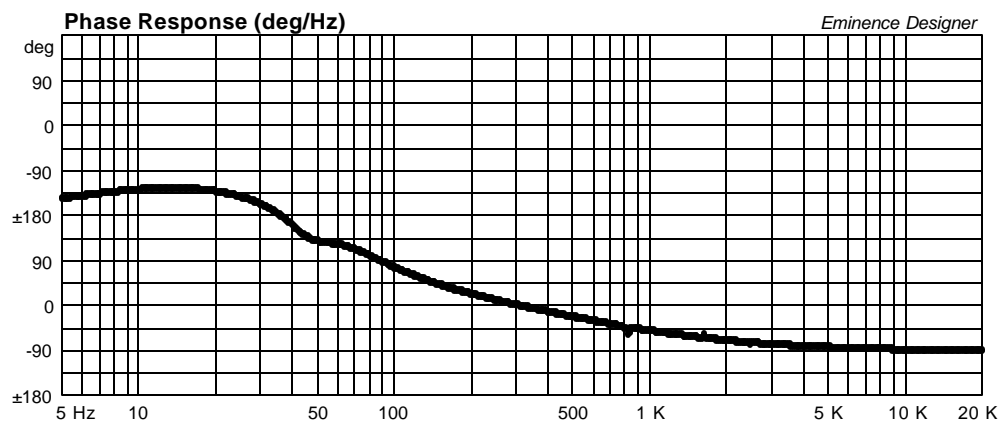
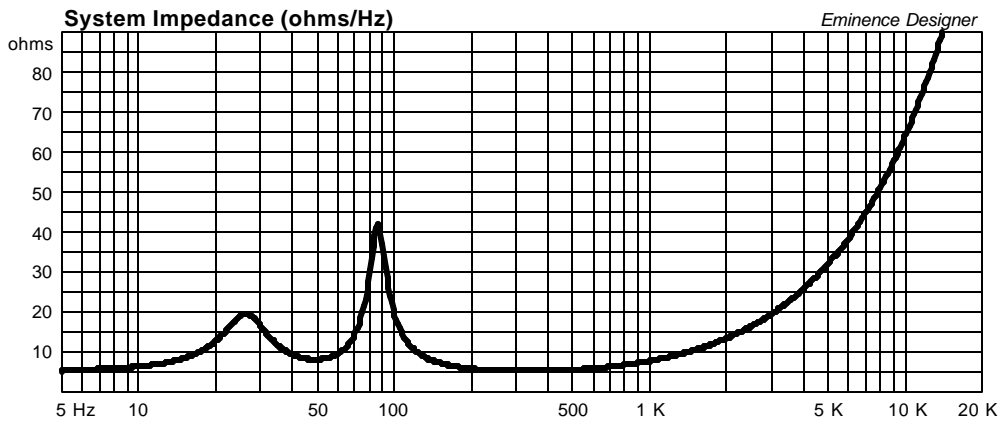
no = 4.197 %

1-W SPL = 98.38 dB

2.83-V SPL = 100.2 dB







KappaPro15A, Large Vented Cabinet for PA or Bass Guitar

By McJerry, Eminence Speaker LLC

Displacement limited to 75 watts if used full range. Displacement limited to 400 watts if used as a mid/high box crossed over at 150 Hz. Use a 35 Hz HPF if run full range.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 6.25 cu.ft

V(total) = 6.415 cu.ft

Fb = 42 Hz

QL = 7

F3 = 62.14 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 1.633 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 composition paper dust cap.

Frame: Diecast aluminum basket.

Voice Coil: 3 inch (76.2 mm) AL Wire Kapton former.

Magnet: 80 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 47 Hz

Qms = 8.01

Vas = 167.7 liters

Cms = 0.16 mm/N

Mms = 72 g

Rms = 2.62 kg/s

Xmax = 3.2 mm

Xmech = 13.21 mm

P-Dia = 330.7 mm

Sd = 856.3 sq.cm

P-Vd = 0.272 liters

--Electrical Parameters--

Qes = 0.4

Re = 5.23 ohms

Le = 1.01 mH

Z = 8 ohms

BL = 16.6 Tm

Pe = 500 watts

--Electromech. Parameters--

Qts = 0.38

no = 4.197 %

1-W SPL = 98.38 dB

2.83-V SPL = 100.2 dB

