

## Specification

Nominal Basket Diameter	12", 304.8mm
Nominal Impedance*	8 ohms
Power Rating**	
Watts	450W
Music Program	900W
Resonance	45Hz
Usable Frequency Range***	62Hz-4.2kHz
Sensitivity	99.3
Magnet Weight	80 oz
Gap Height	0.375", 9.53mm
Voice Coil Diameter	3", 76.2mm

## Thiele & Small Parameters

Resonant Frequency (fs)	45Hz
DC Resistance (Re)	5.41
Coil Inductance (Le)	0.77mH
Mechanical Q (Qms)	7.76
Electromagnetic Q (Qes)	0.28
Total Q (Qts)	0.27
Compliance Equivalent Volume (Vas)	112.1 ltr/4.0 cu. ft.
Peak Diaphragm Displacement Volume (Vd)	166cc
Mechanical Compliance of Suspension (Cms)	0.30mm/N
BL Product (BL)	15.2 T-M
Diaphragm Mass inc. Airload (Mms)	42 grams
Efficiency Bandwidth Product (EBP)	161
Maximum Linear Excursion (Xmax)	3.2mm
Surface Area of Cone (Sd)	519.5cm <sup>2</sup>
Maximum Mechanical Limit (Xlim)	11.5mm

## Mounting Information

Recommended Enclosure Volume	
Sealed	N/A
Vented	34-62 ltr/1.2-2.2 cu. ft.
Overall Diameter	12.26", 311.4mm
Baffle Hole Diameter	11.0", 279.5mm
Front Sealing Gasket	Fitted as Standard
Rear Sealing Gasket	Fitted as Standard
Mounting Holes Diameter	0.25", 6.4mm
Mounting Holes B.C.D.	11.71", 297.5mm
Depth	5.63", 143mm
Net Weight	14.9 lbs, 6.8 kg
Shipping Weight	17.9 lbs, 8.2 kg

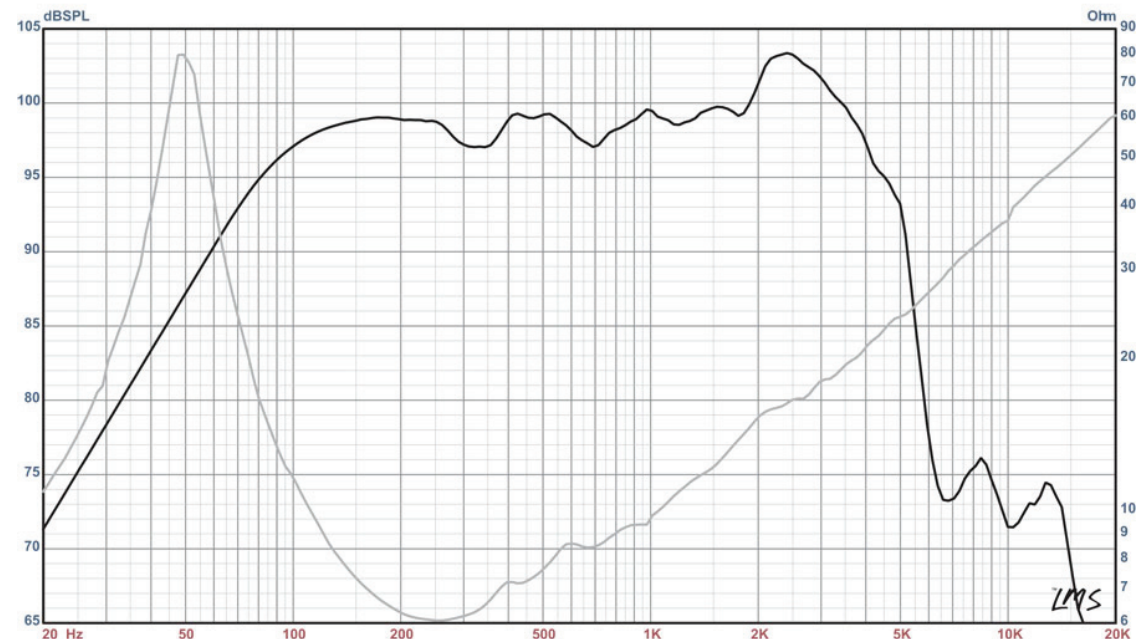
## Materials of Construction

Coil Construction	Aluminum
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-12A American Standard Series

Recommended for professional audio as a mid/hi or full range in a vented enclosure.



\* 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)

# Kappa12A Med Vented Cab.; Hi Pwr Sat or Med Pwr Semi FR

By McJerry, Eminence Speaker LLC

Displacement limited to 150 watts if used with a 60 Hz high pass filter.

Displacement and thermally limited to 450 watts if used with a 200 Hz 24 dB per octave high pass filter; use with a Sub.

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## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 1.6 cu.ft

V(total) = 1.712 cu.ft

Fb = 65 Hz

QL = 7

F3 = 73.73 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 2.294 in

## Driver Properties

--Description--

Name: Kappa-12

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Solid composition paper dust cap.

Frame: Pressed steel 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 = 45 Hz

Qms = 7.76

Vas = 112.1 liters

Cms = 0.3 mm/N

Mms = 42 g

Rms = 1.53 kg/s

Xmax = 3.2 mm

Xmech = 11.5 mm

P-Dia = 255.6 mm

Sd = 519.5 sq.cm

P-Vd = 0.165 liters

--Electrical Parameters--

Qes = 0.28

Re = 5.41 ohms

Le = 0.77 mH

Z = 8 ohms

BL = 15.2 Tm

Pe = 450 watts

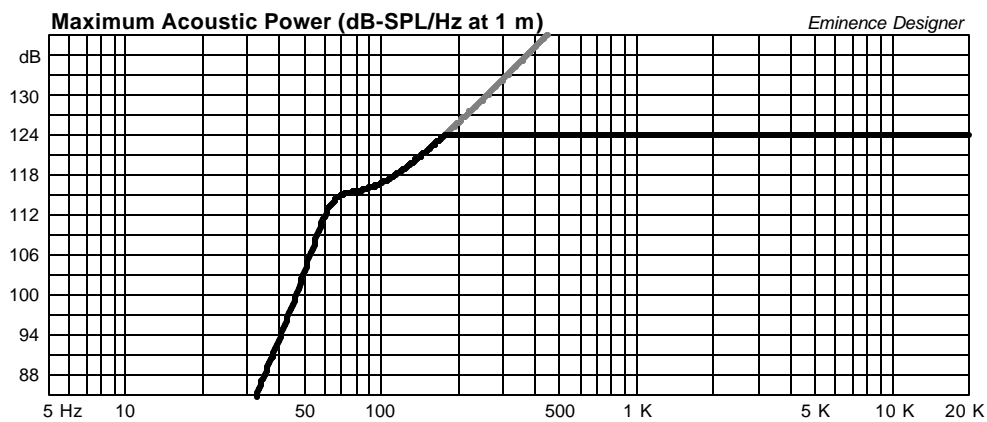
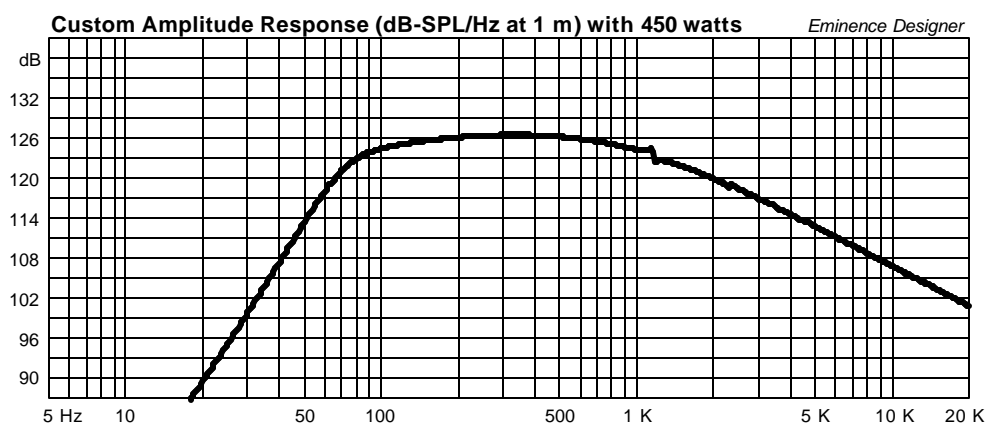
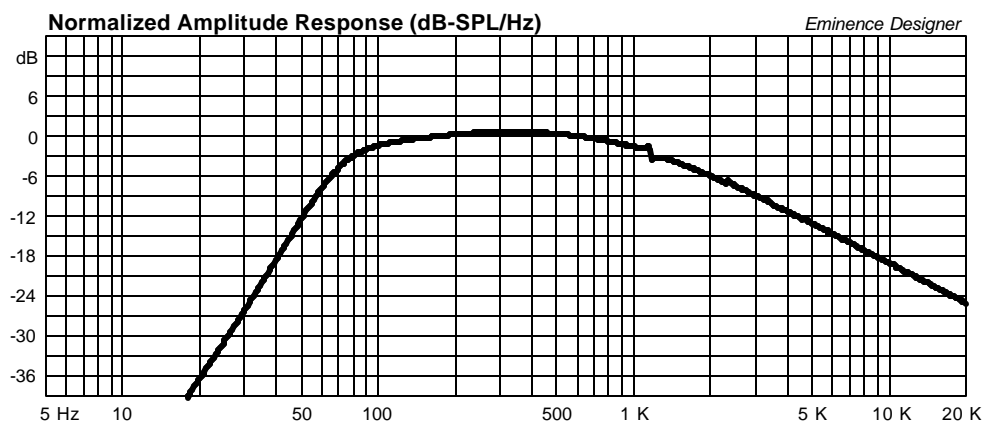
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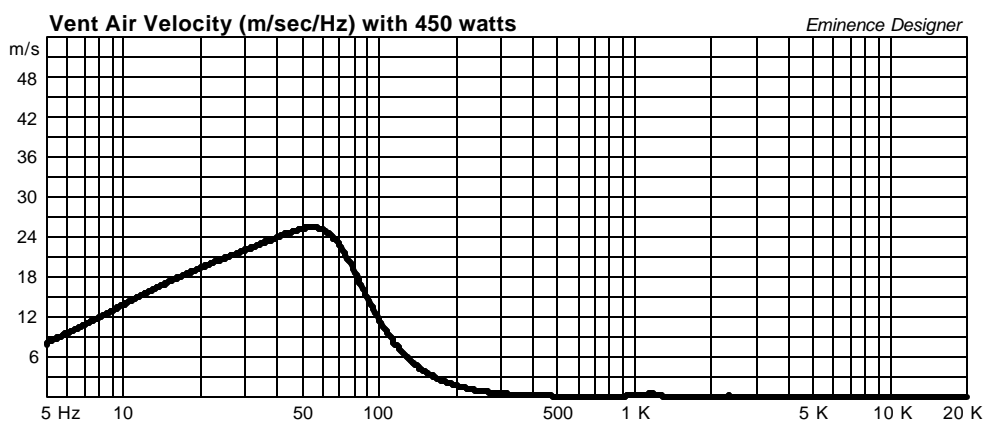
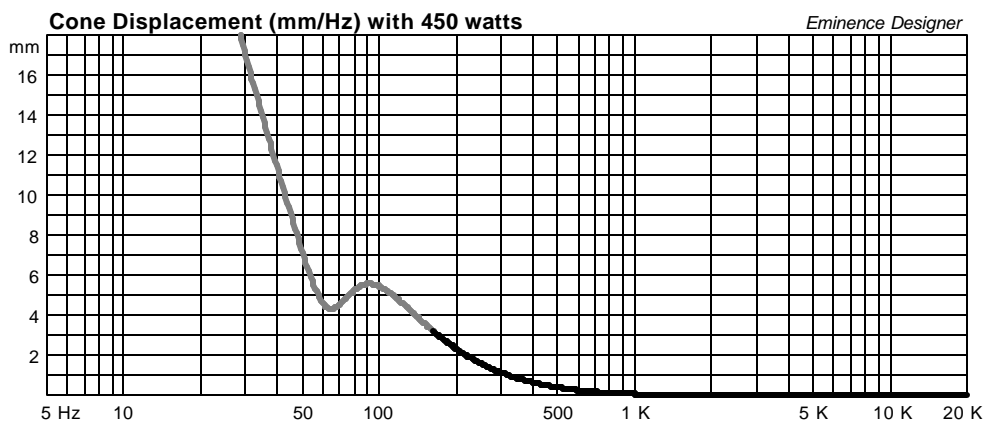
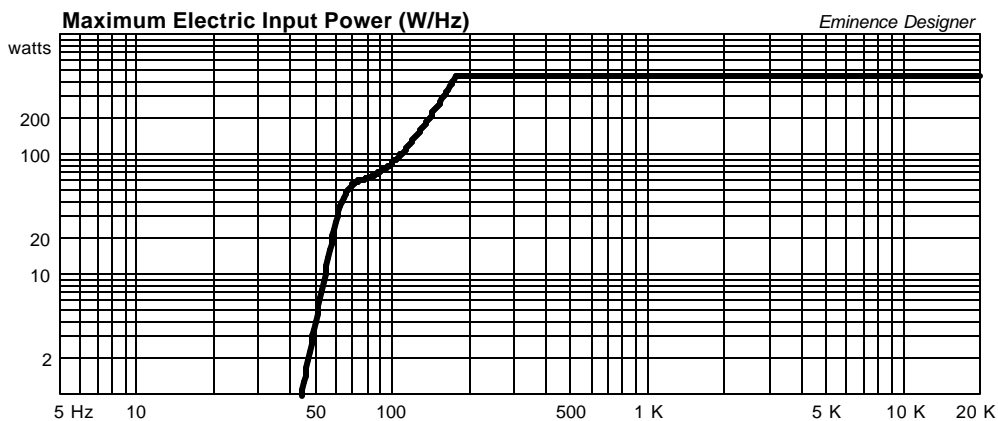
Qts = 0.27

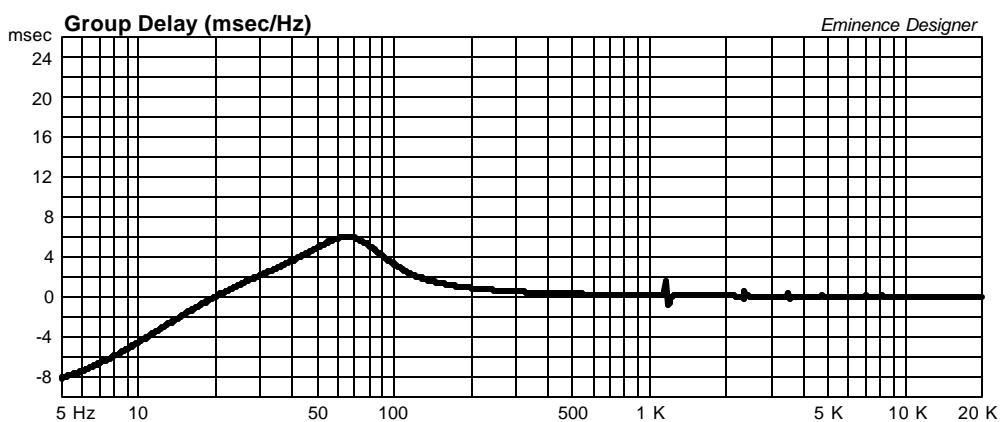
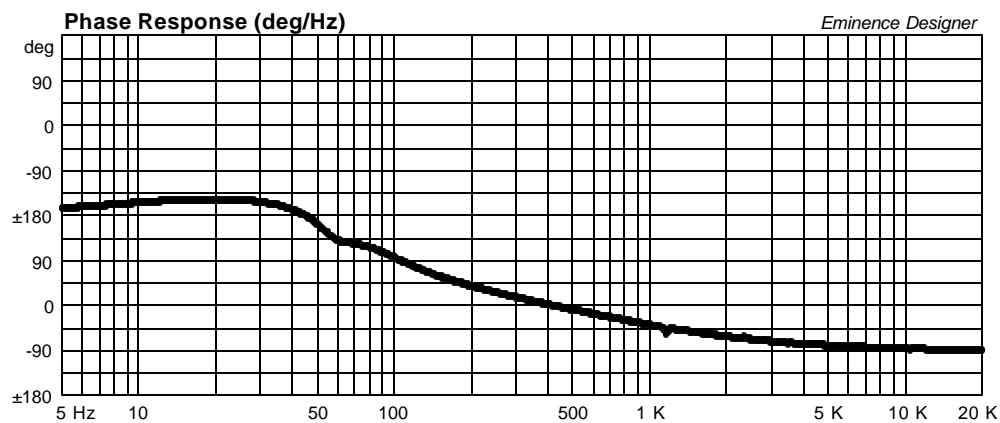
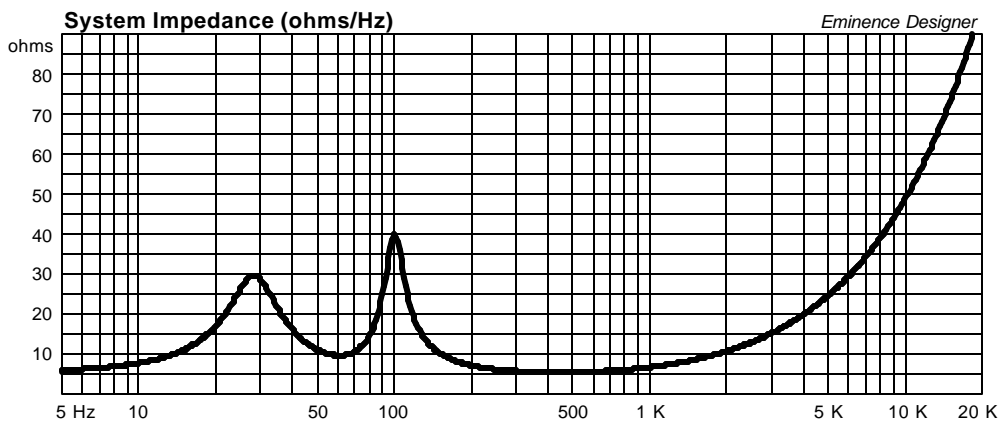
no = 3.518 %

1-W SPL = 97.61 dB

2.83-V SPL = 99.31 dB







# Kappa12 High Power Mid/High box, Hi-F3. Must use with a Sub-woofer.

By McJerry, Eminence Speaker LLC

Displacement and thermally limited to 450 watts. Must use a 24 dB per octave high pass filter set to 180 Hz or higher.

Great for a super high SPL mid/high box. Must be used with a sub-woofer system.

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## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 1.1 cu.ft

V(total) = 1.2 cu.ft

Fb = 100 Hz

QL = 7

F3 = 93.8 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 3.506 in

Lv = 0.75 in

## Driver Properties

--Description--

Name: Kappa-12

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Solid composition paper dust cap.

Frame: Pressed steel 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 = 45 Hz

Qms = 7.76

Vas = 112.1 liters

Cms = 0.3 mm/N

Mms = 42 g

Rms = 1.53 kg/s

Xmax = 3.2 mm

Xmech = 11.5 mm

P-Dia = 255.6 mm

Sd = 519.5 sq.cm

P-Vd = 0.165 liters

--Electrical Parameters--

Qes = 0.28

Re = 5.41 ohms

Le = 0.77 mH

Z = 8 ohms

BL = 15.2 Tm

Pe = 450 watts

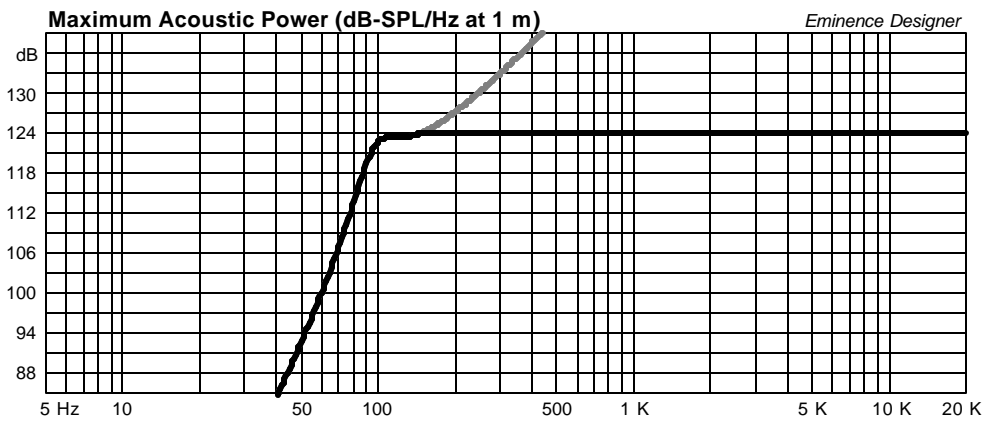
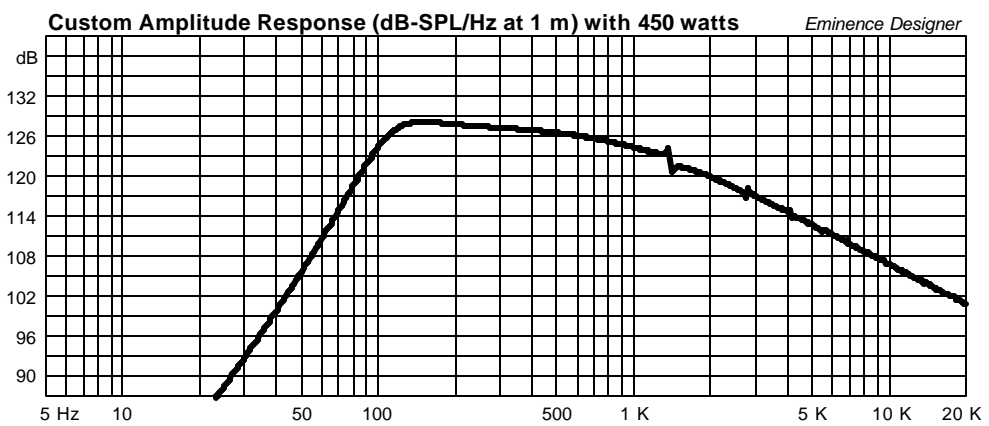
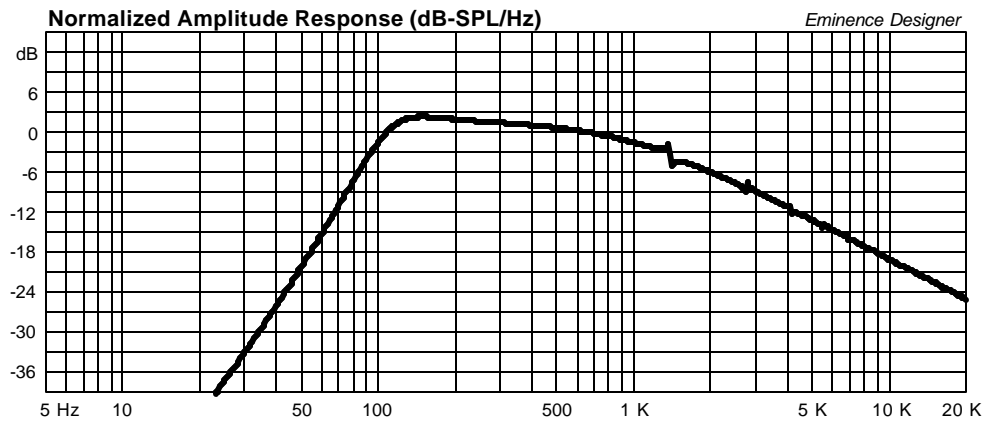
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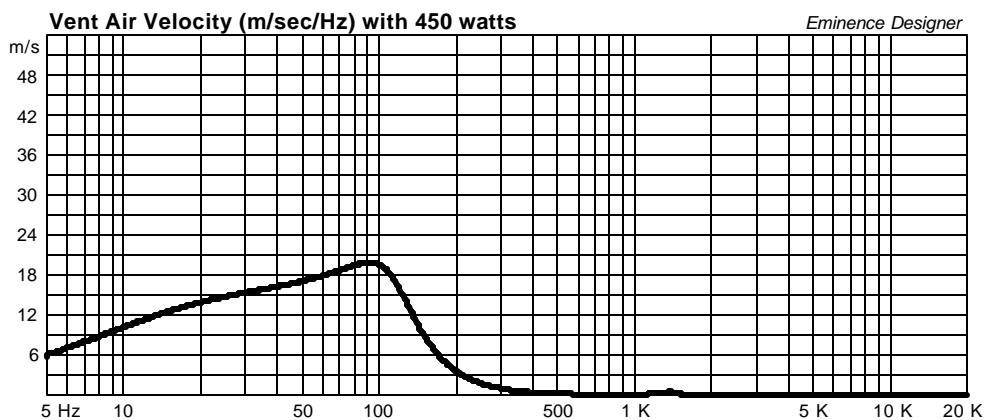
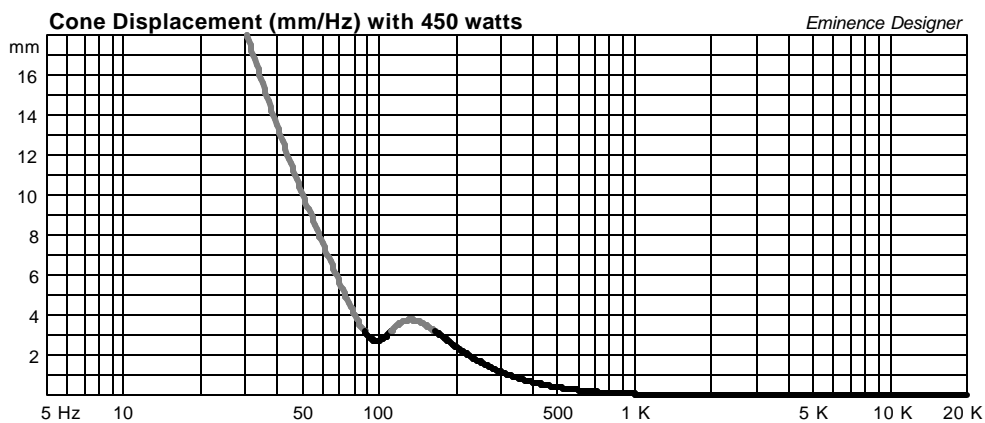
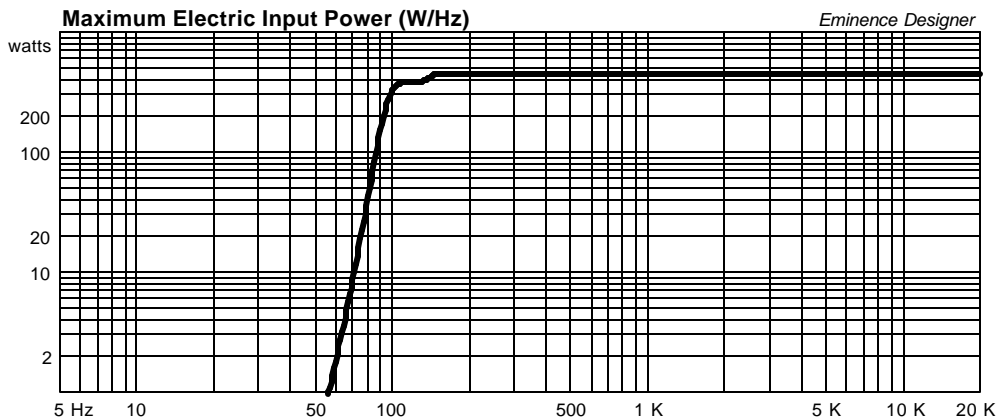
Qts = 0.27

no = 3.518 %

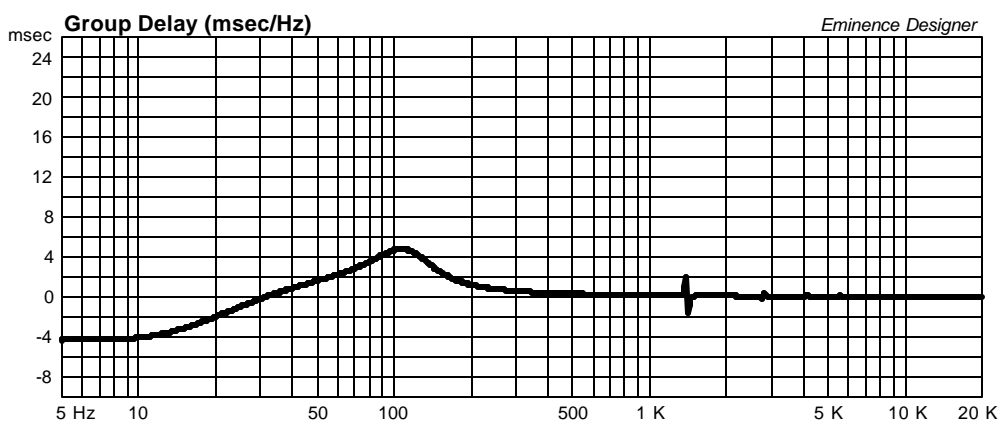
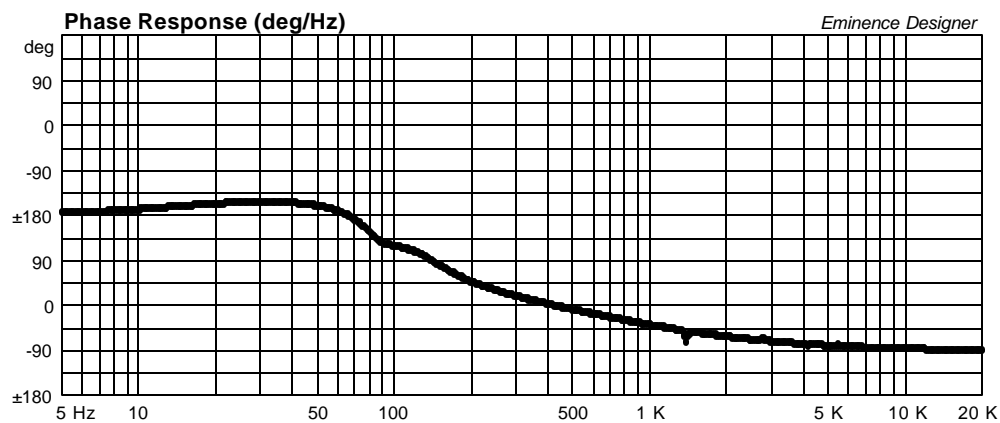
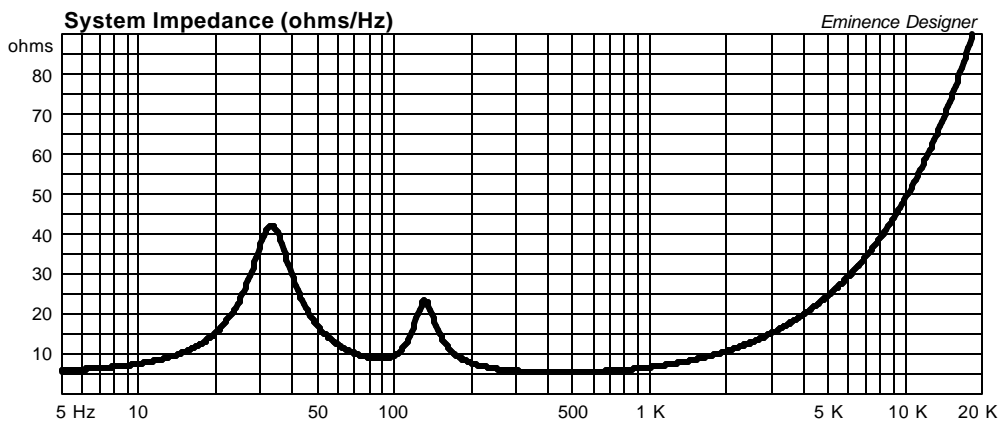
1-W SPL = 97.61 dB

2.83-V SPL = 99.31 dB









# Kappa12A Larger Vented Cab.; Hi Pwr Sat Or Low Pwr FR

By McJerry, Eminence Speaker LLC

Displacement limited to 125 watts if used with a 60 Hz High pass filter.

Displacement limited to 300 watts if used with a 200 Hz High pass filter; use with a Sub-woofer.

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## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 2.022 cu.ft

V(total) = 2.126 cu.ft

Fb = 62 Hz

QL = 7

F3 = 77.71 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 1.532 in

## Driver Properties

--Description--

Name: Kappa-12

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Solid composition paper dust cap.

Frame: Pressed steel 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 = 45 Hz

Qms = 7.76

Vas = 112.1 liters

Cms = 0.3 mm/N

Mms = 42 g

Rms = 1.53 kg/s

Xmax = 3.2 mm

Xmech = 11.5 mm

P-Dia = 255.6 mm

Sd = 519.5 sq.cm

P-Vd = 0.165 liters

--Electrical Parameters--

Qes = 0.28

Re = 5.41 ohms

Le = 0.77 mH

Z = 8 ohms

BL = 15.2 Tm

Pe = 450 watts

--Electromech. Parameters--

Qts = 0.27

no = 3.518 %

1-W SPL = 97.61 dB

2.83-V SPL = 99.31 dB

