

# KappaPro-15B 2x15 Large Mid/Bass Design

By Jerry McNutt, Eminence Speaker LLC

500 Watts; F3 of 70 Hz. Use a steep high pass filter at 45 Hz or higher.

Best used above 80 Hz.



## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 5 cu.ft

V(total) = 5.562 cu.ft

Fb = 57 Hz

QL = 7

F3 = 70.15 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 3.016 in

## Driver Properties

--Description--

Name: KappaPro-15B

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: KappaPro-15B (B is 16 Ohm)

--Configuration--

**No. of Drivers = 2**

Mounting = Standard

Wiring = Parallel

Drivers sum coherently = Yes

--Mechanical Parameters--

Fs = 47.15 Hz

Qms = 13.98

Vas = 155.7 liters [311.3]

Cms = 0.15 mm/N [0.075]

Mms = 74.1 g [148.2]

Rms = 1.57 kg/s [3.14]

Xmax = 3.9 mm

Xmech = 13.2 mm

P-Dia = 329.9 mm [466.6]

Sd = 864.6 sq.cm [1729]

P-Vd = 0.333 liters [0.667]

--Electrical Parameters--

Qes = 0.39

Re = 10.47 ohms [5.235]

Le = 1.59 mH [0.795]

Z = 16 ohms [8]

BL = 24.2 Tm [24.28]

Pe = 500 watts [1000]

--Electromech. Parameters--

Qts = 0.38

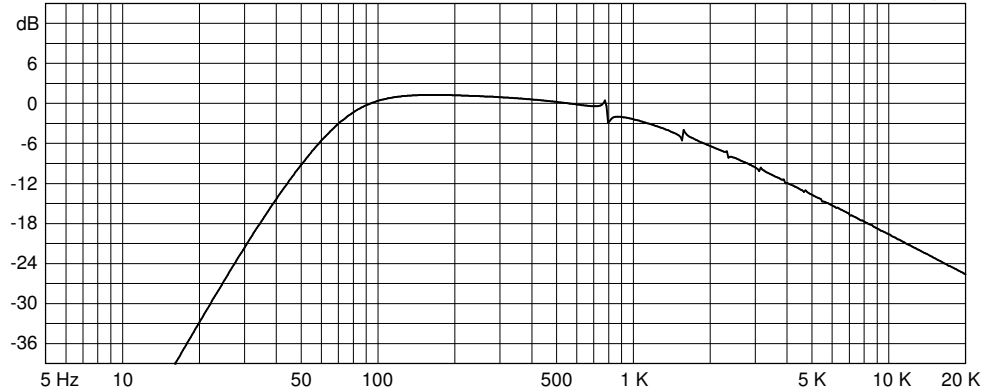
no = 4.034 % [8.068]

1-W SPL = 98.2 dB [101.2]

2.83-V SPL = 97.04 dB [103.1]

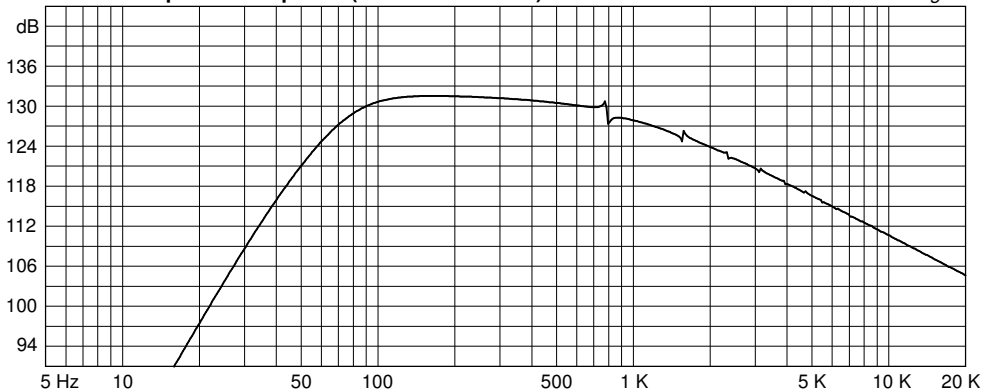
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



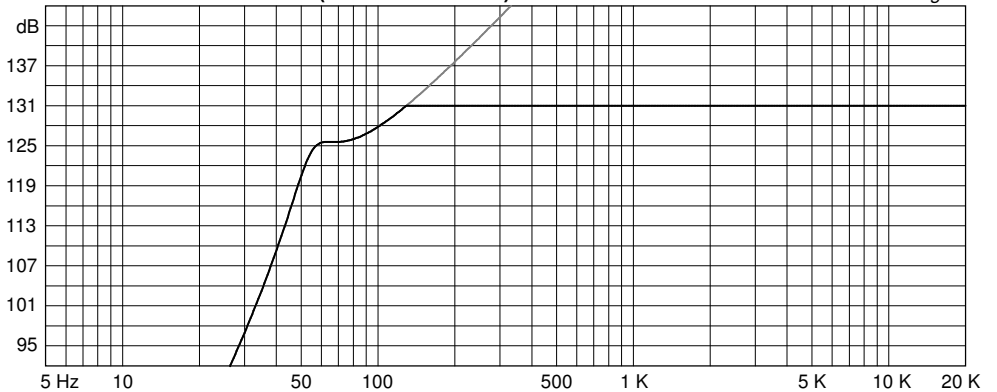
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 500 watts

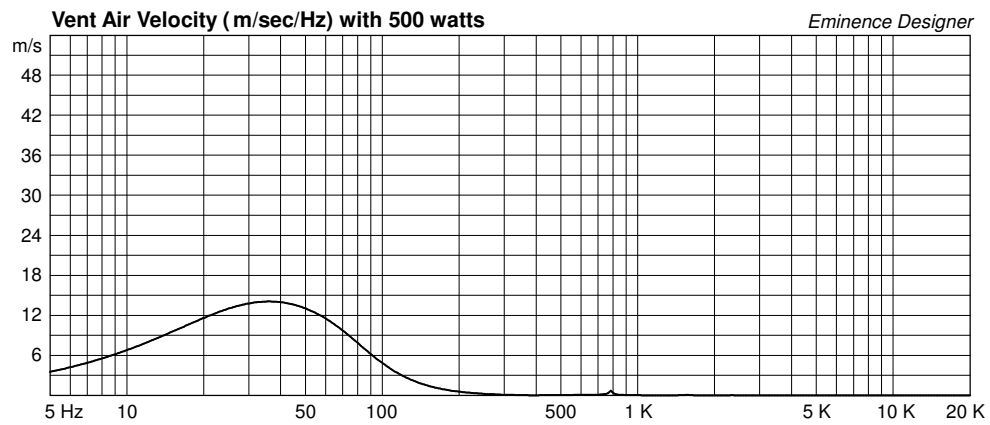
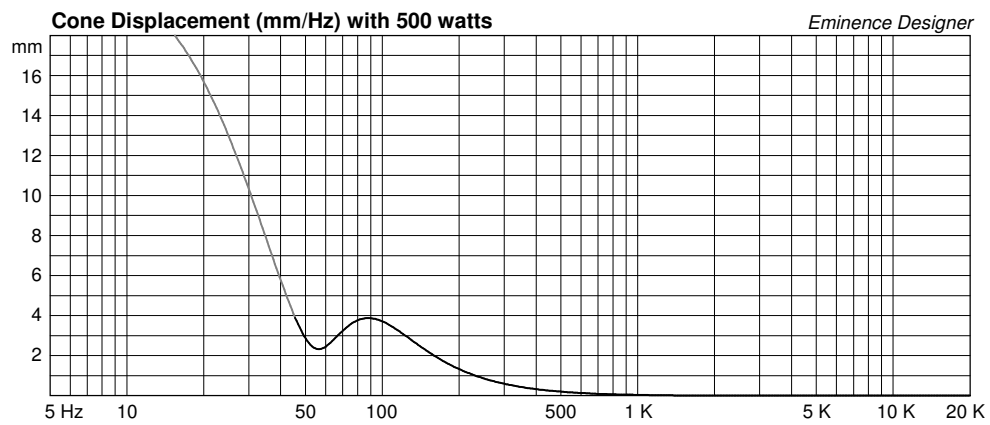
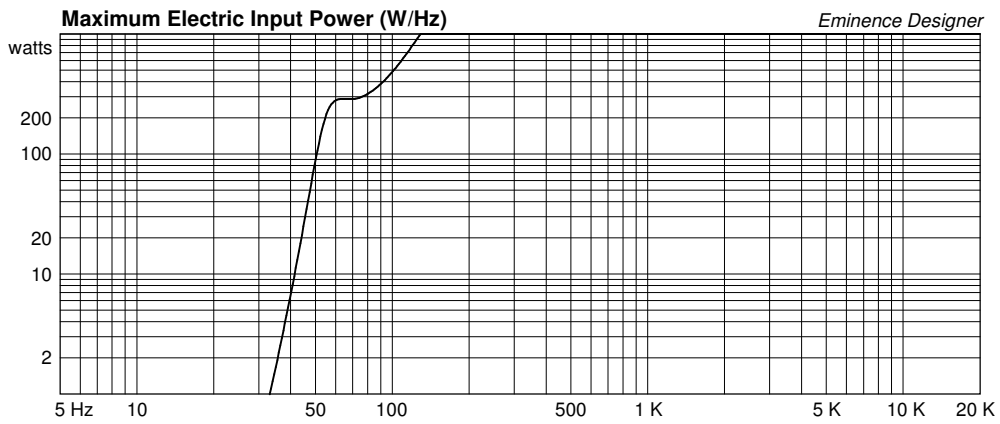
Eminence Designer

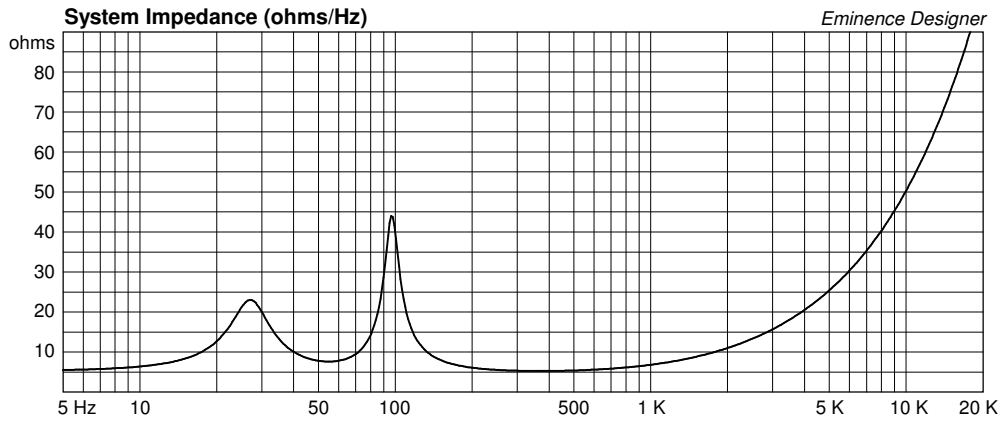


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







# KappaPro-15B 2x15 Medium Sized MidBass Box

By Jerry McNutt, Eminence Speaker LLC  
750 Watts; F3 83 Hz. Use a steep high pass at 60 Hz or higher.  
Best used above 90 Hz. Very high output mid/bass design.



## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 3.173 cu.ft

V(total) = 3.667 cu.ft

Fb = 65 Hz

QL = 6.53

F3 = 83.47 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 1.67 in

## Driver Properties

--Description--

Name: KappaPro-15B

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: KappaPro-15B (B is 16 Ohm)

--Configuration--

**No. of Drivers = 2**

Mounting = Standard

Wiring = Parallel

Drivers sum coherently = Yes

--Mechanical Parameters--

Fs = 47.15 Hz

Qms = 13.98

Vas = 155.7 liters [311.3]

Cms = 0.15 mm/N [0.075]

Mms = 74.1 g [148.2]

Rms = 1.57 kg/s [3.14]

Xmax = 3.9 mm

Xmech = 13.2 mm

P-Dia = 329.9 mm [466.6]

Sd = 864.6 sq.cm [1729]

P-Vd = 0.333 liters [0.667]

--Electrical Parameters--

Qes = 0.39

Re = 10.47 ohms [5.235]

Le = 1.59 mH [0.795]

Z = 16 ohms [8]

BL = 24.2 Tm [24.28]

Pe = 500 watts [1000]

--Electromech. Parameters--

Qts = 0.38

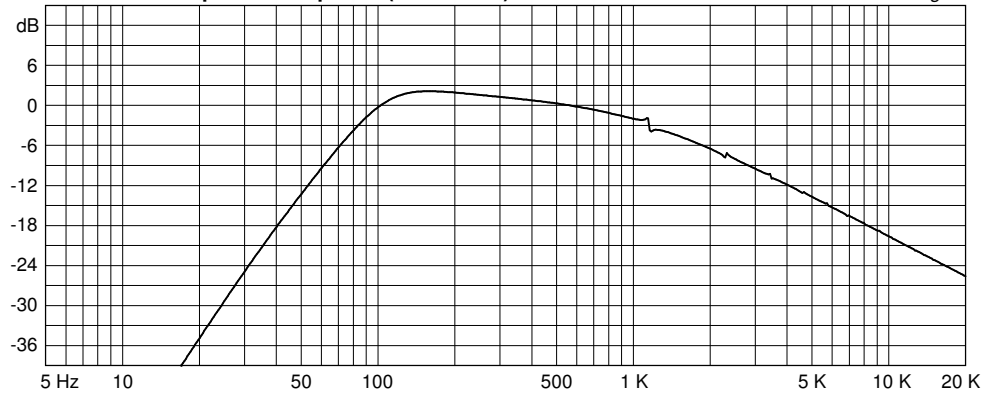
no = 4.034 % [8.068]

1-W SPL = 98.2 dB [101.2]

2.83-V SPL = 97.04 dB [103.1]

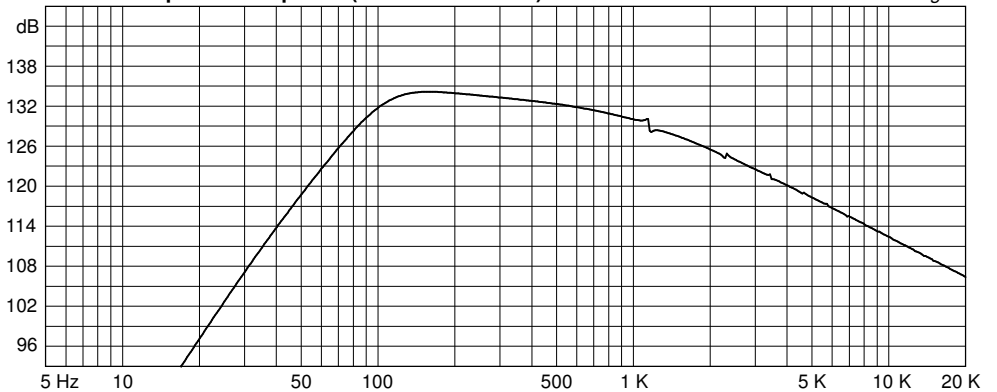
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



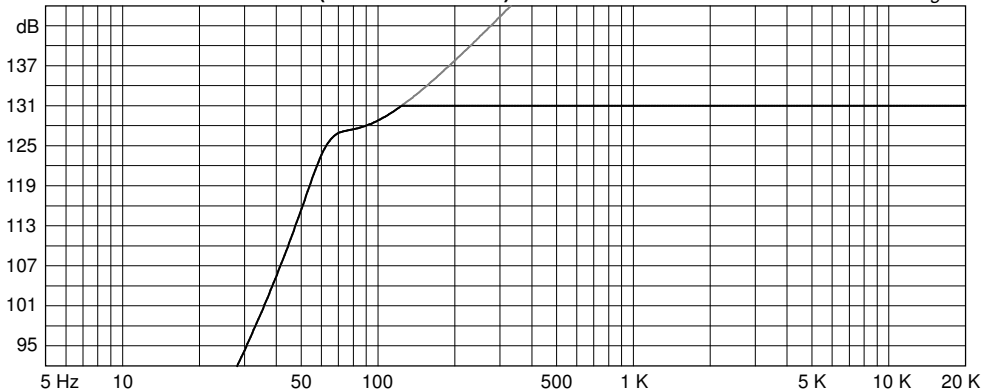
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 750 watts

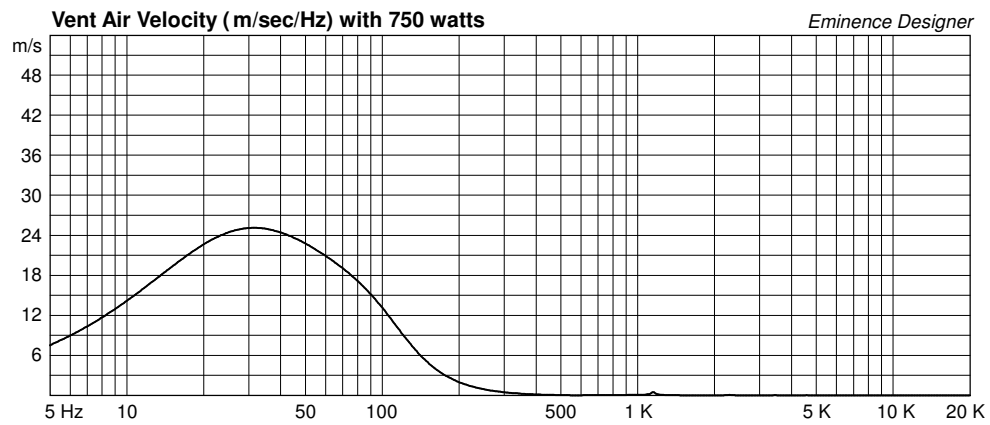
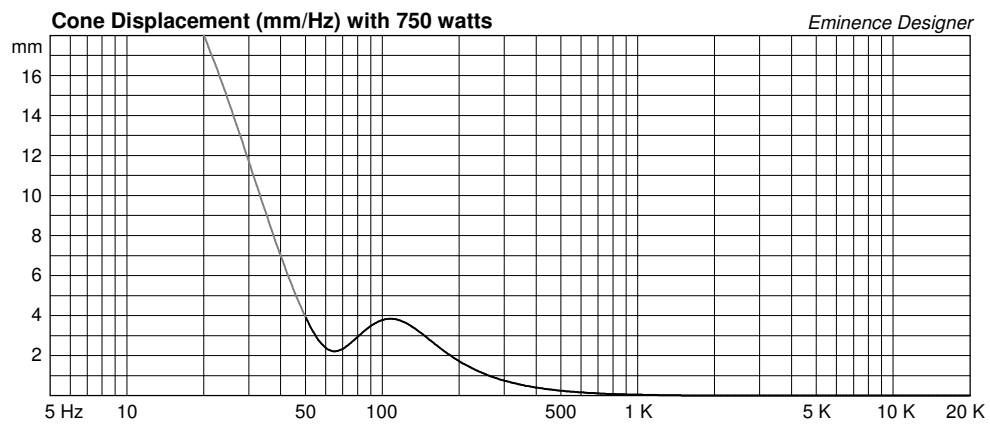
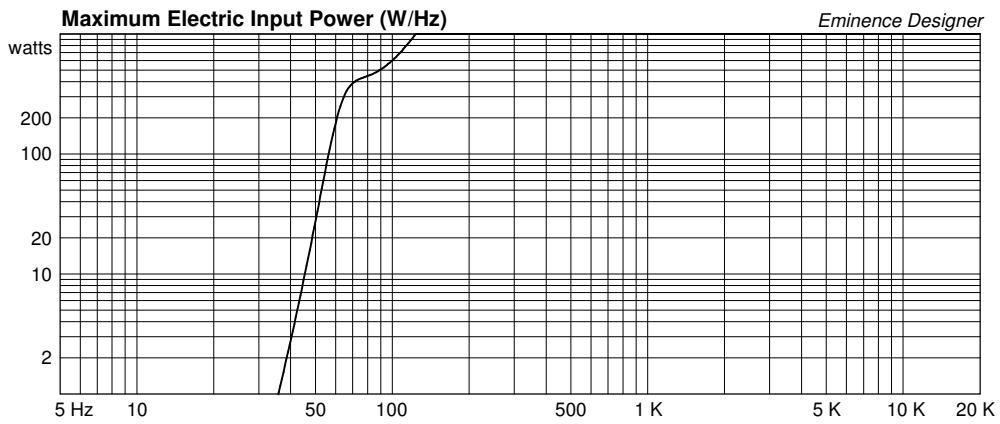
Eminence Designer

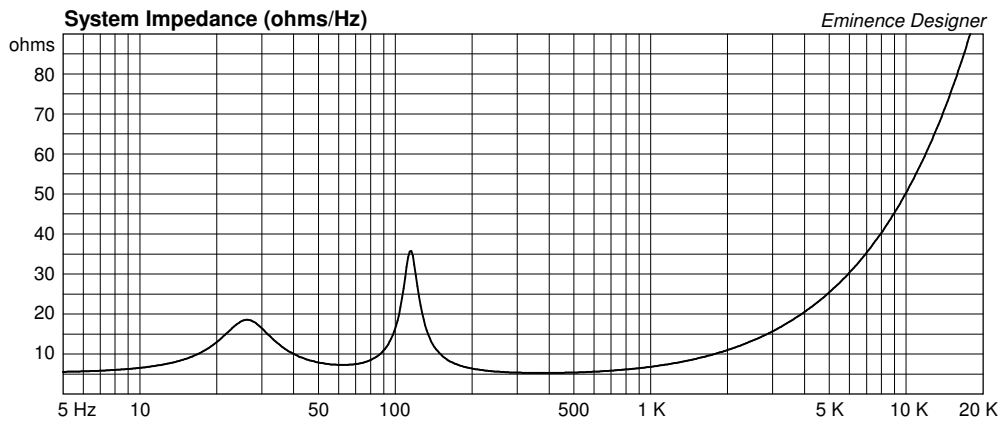


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







# KappaPro-15B 2x15 Very High Output Vented MidBas

By Jerry McNutt, Eminence Speaker LLC

1000 Watts; F3 at 92 Hz. Use a steep high pass no lower than 85 Hz.

Best used above 100 Hz. Will Need some EQ to flatten it out. LOUD !



## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 2.5 cu.ft

V(total) = 2.98 cu.ft

Fb = 85 Hz

QL = 7

F3 = 92.44 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

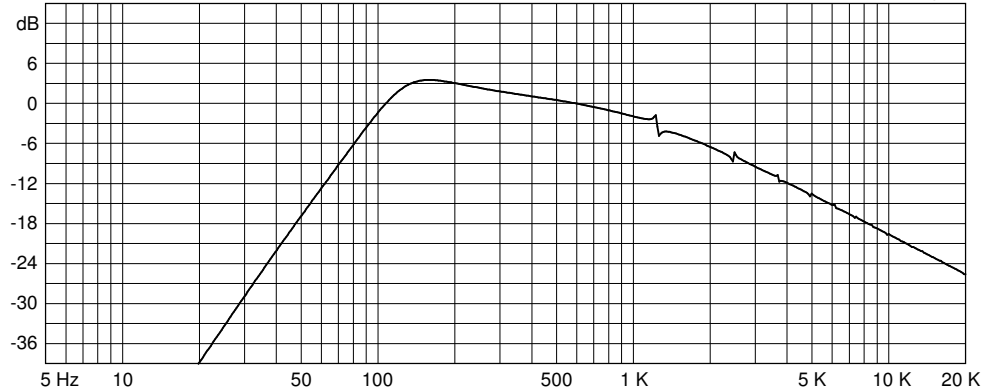
Vent ends = one flush

Dv = 3.359 in

Lv = 0.75 in

Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



## Driver Properties

--Description--

Name: KappaPro-15B

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: KappaPro-15B (B is 16 Ohm)

--Configuration--

No. of Drivers = 2

Mounting = Standard

Wiring = Parallel

Drivers sum coherently = Yes

--Mechanical Parameters--

Fs = 47.15 Hz

Qms = 13.98

Vas = 155.7 liters [311.3]

Cms = 0.15 mm/N [0.075]

Mms = 74.1 g [148.2]

Rms = 1.57 kg/s [3.14]

Xmax = 3.9 mm

Xmech = 13.2 mm

P-Dia = 329.9 mm [466.6]

Sd = 864.6 sq.cm [1729]

P-Vd = 0.333 liters [0.667]

--Electrical Parameters--

Qes = 0.39

Re = 10.47 ohms [5.235]

Le = 1.59 mH [0.795]

Z = 16 ohms [8]

BL = 24.2 Tm [24.28]

Pe = 500 watts [1000]

--Electromech. Parameters--

Qts = 0.38

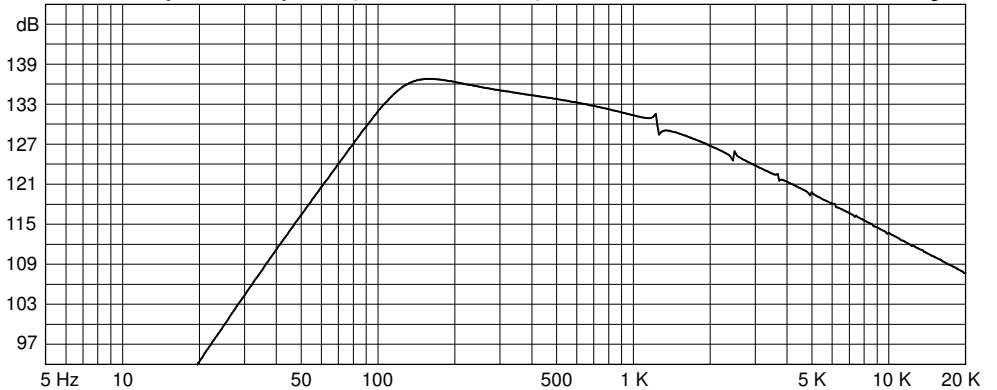
no = 4.034 % [8.068]

1-W SPL = 98.2 dB [101.2]

2.83-V SPL = 97.04 dB [103.1]

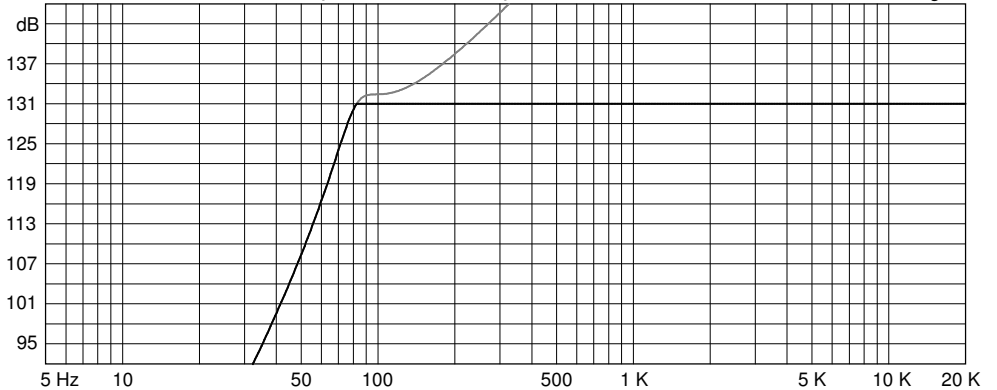
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 1000 watts

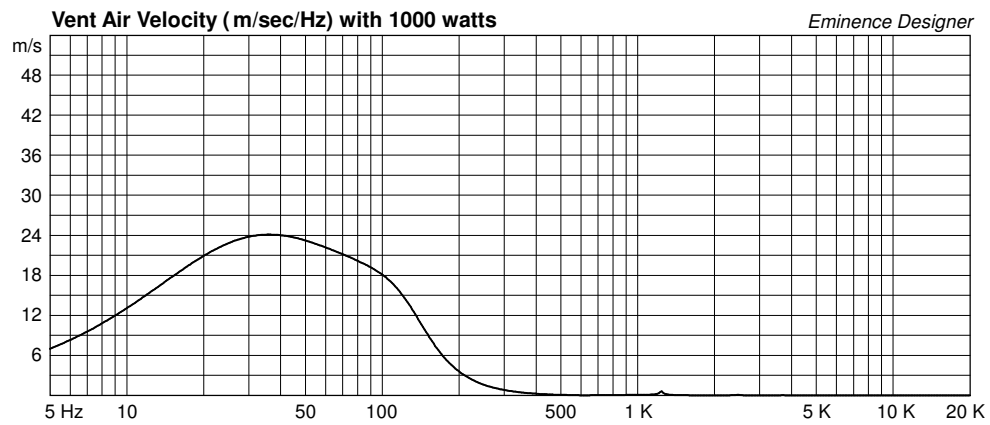
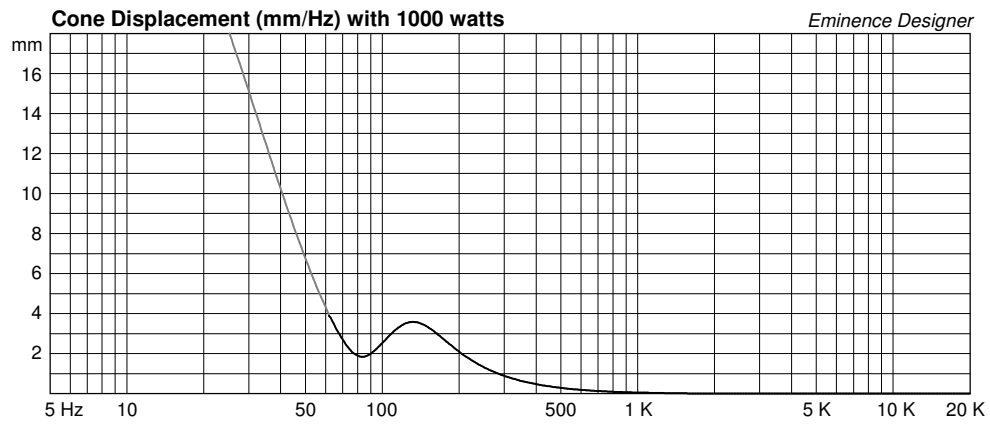
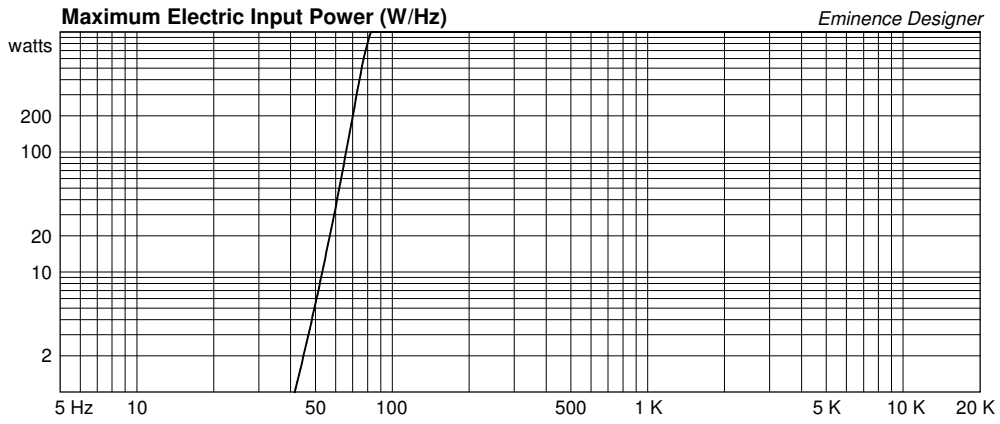
Eminence Designer



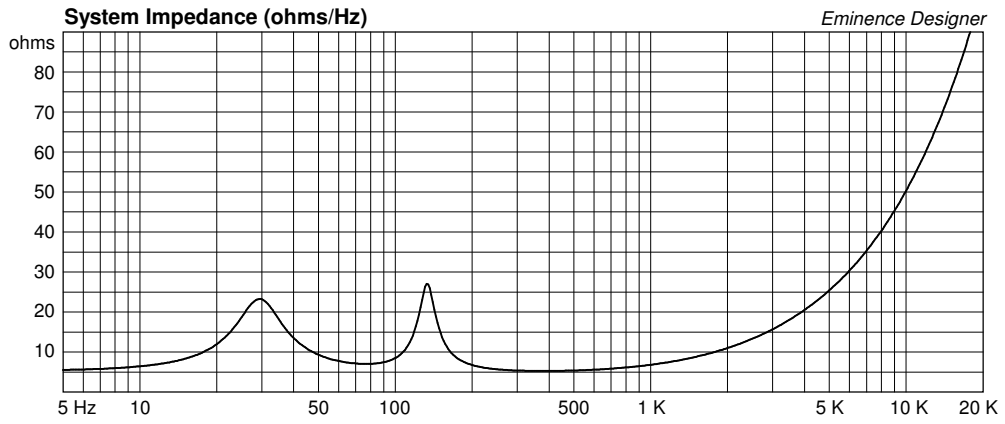
Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer









# KappaPro-15B Large Vented Woofer Design

By Jerry McNutt, Eminence Speaker LLC  
200 Watts; F3 of 66 Hz. Use a steep high pass filter at 45 Hz.



## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 3.673 cu.ft

V(total) = 3.914 cu.ft

Fb = 55 Hz

QL = 7

F3 = 66.34 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 3.537 in

Lv = 0.75 in

## Driver Properties

--Description--

Name: KappaPro-15B

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: KappaPro-15B (B is 16 Ohm)

--Configuration--

**No. of Drivers = 1**

--Mechanical Parameters--

Fs = 47.15 Hz

Qms = 13.98

Vas = 155.7 liters

Cms = 0.15 mm/N

Mms = 74.1 g

Rms = 1.57 kg/s

Xmax = 3.9 mm

Xmech = 13.2 mm

P-Dia = 329.9 mm

Sd = 864.6 sq.cm

P-Vd = 0.333 liters

--Electrical Parameters--

Qes = 0.39

Re = 10.47 ohms

Le = 1.59 mH

Z = 16 ohms

BL = 24.2 Tm

Pe = 500 watts

--Electromech. Parameters--

Qts = 0.38

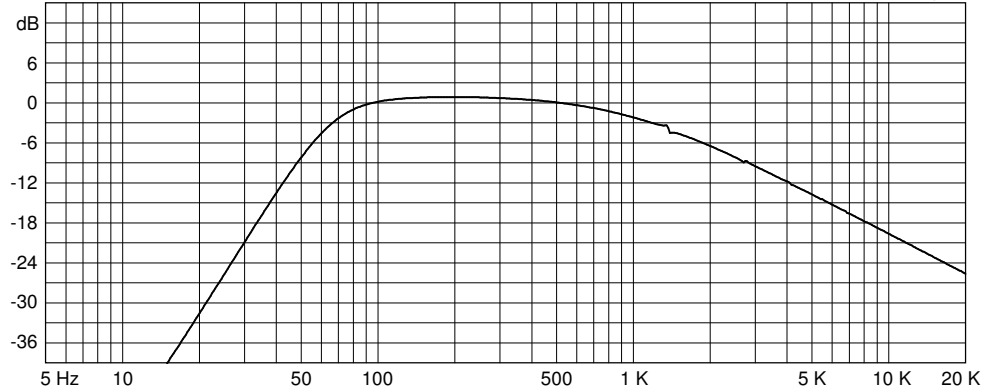
no = 4.034 %

1-W SPL = 98.2 dB

2.83-V SPL = 97.04 dB

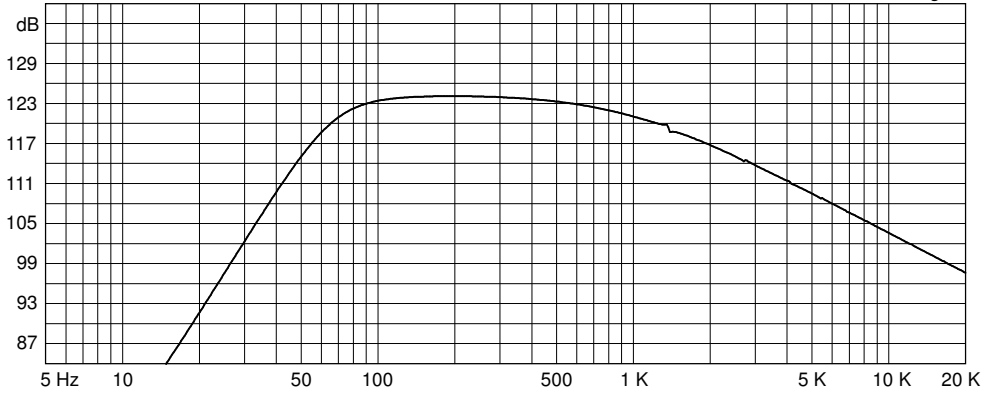
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



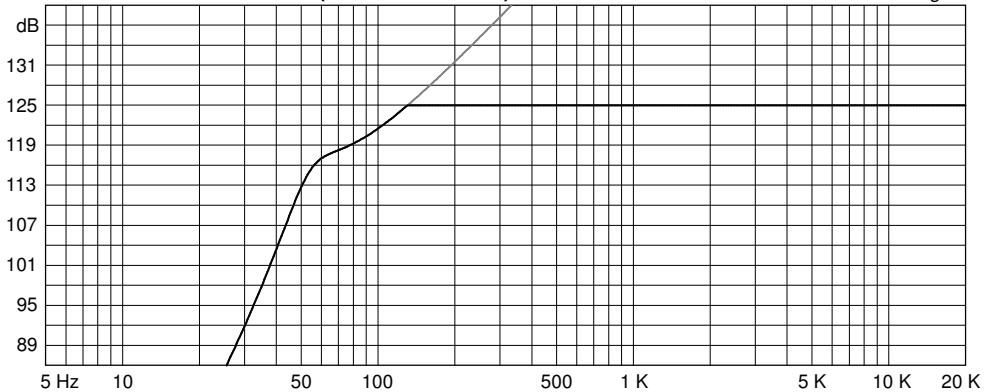
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 200 watts

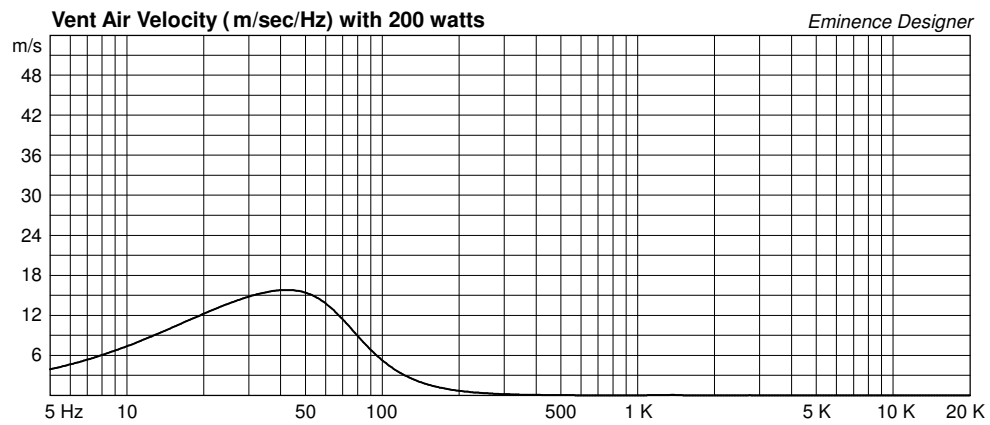
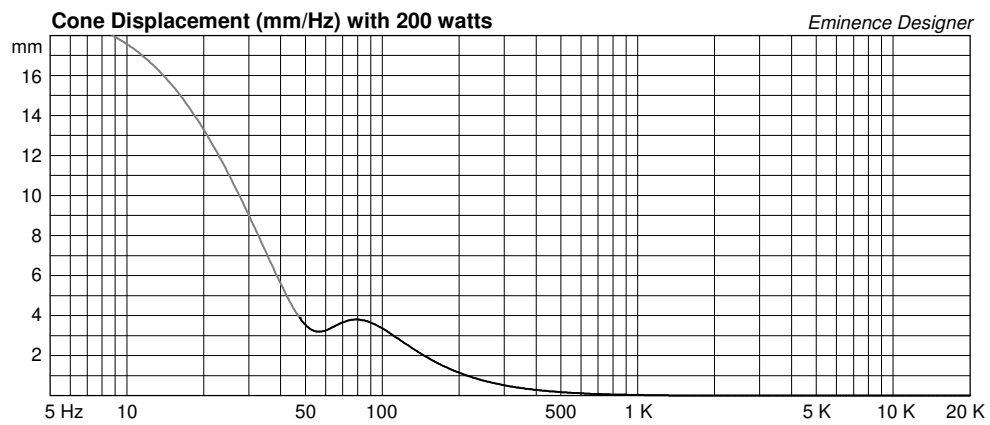
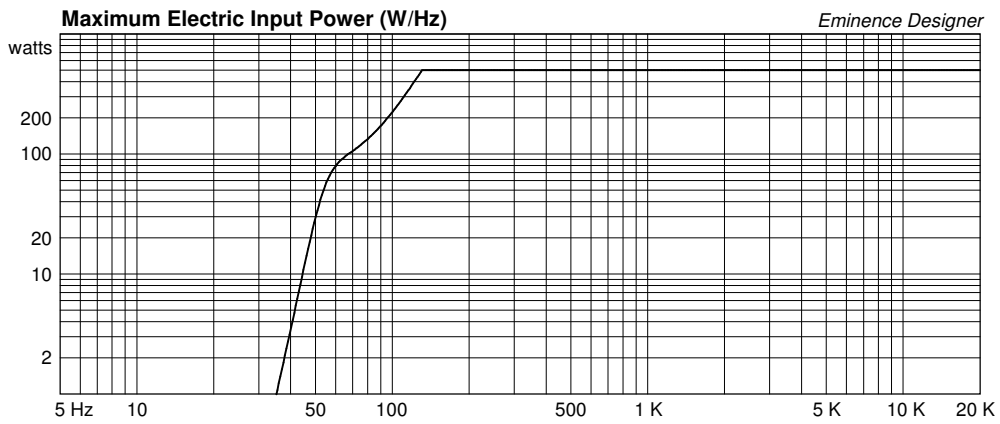
Eminence Designer

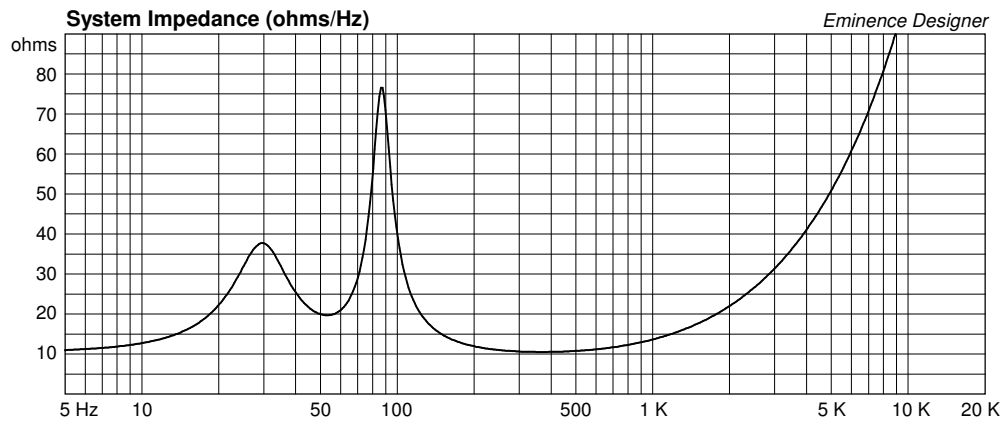


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







# KappaPro-15B Medium Vented Woofer Design

By Jerry McNutt, Eminence Speaker LLC  
250 Watts; F3 of 68 Hz. Use a steep high pass filter at 45 Hz.



## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 2.8 cu.ft

V(total) = 3.072 cu.ft

Fb = 59 Hz

QL = 7

F3 = 68.36 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 2.471 in

## Driver Properties

--Description--

Name: KappaPro-15B

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: KappaPro-15B (B is 16 Ohm)

--Configuration--

**No. of Drivers = 1**

--Mechanical Parameters--

Fs = 47.15 Hz

Qms = 13.98

Vas = 155.7 liters

Cms = 0.15 mm/N

Mms = 74.1 g

Rms = 1.57 kg/s

Xmax = 3.9 mm

Xmech = 13.2 mm

P-Dia = 329.9 mm

Sd = 864.6 sq.cm

P-Vd = 0.333 liters

--Electrical Parameters--

Qes = 0.39

Re = 10.47 ohms

Le = 1.59 mH

Z = 16 ohms

BL = 24.2 Tm

Pe = 500 watts

--Electromech. Parameters--

Qts = 0.38

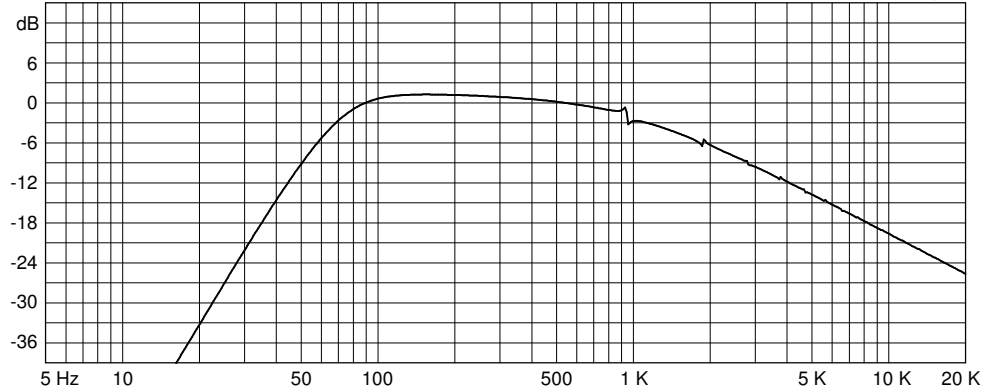
no = 4.034 %

1-W SPL = 98.2 dB

2.83-V SPL = 97.04 dB

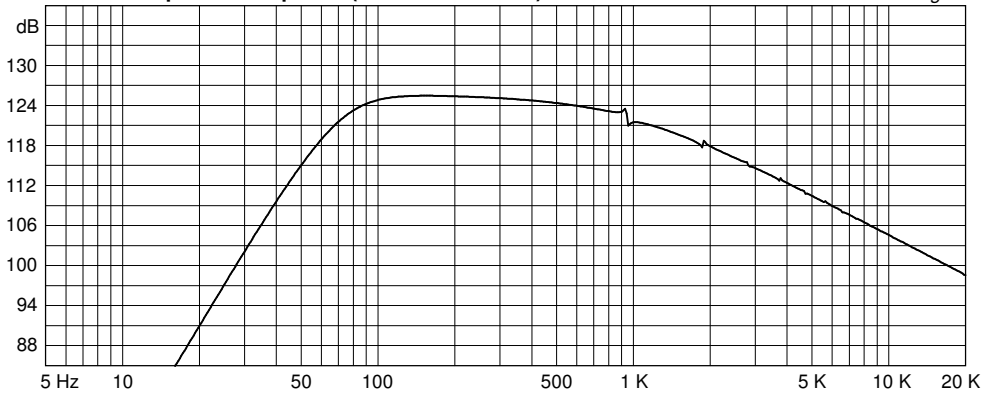
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



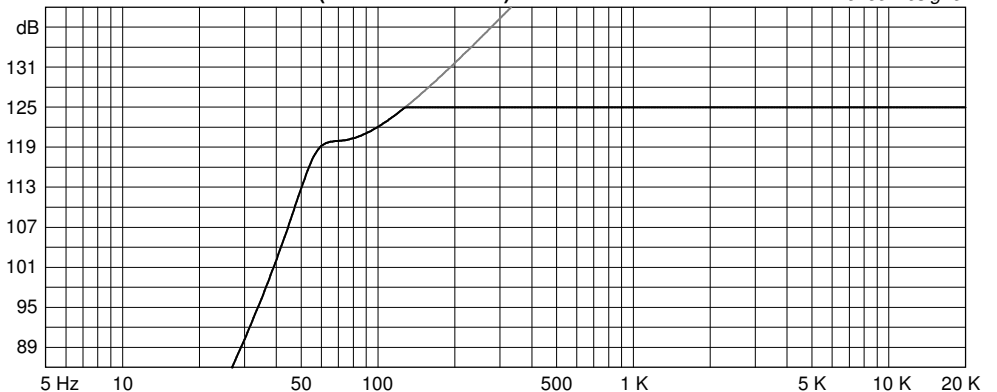
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 250 watts

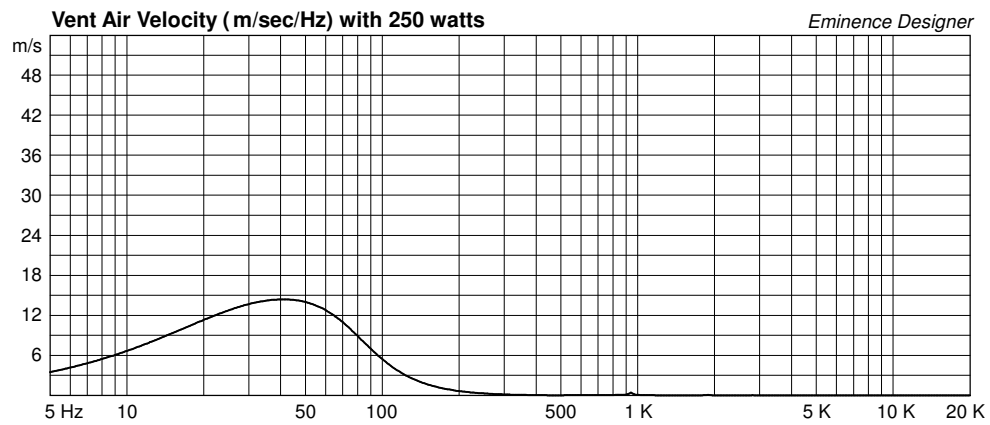
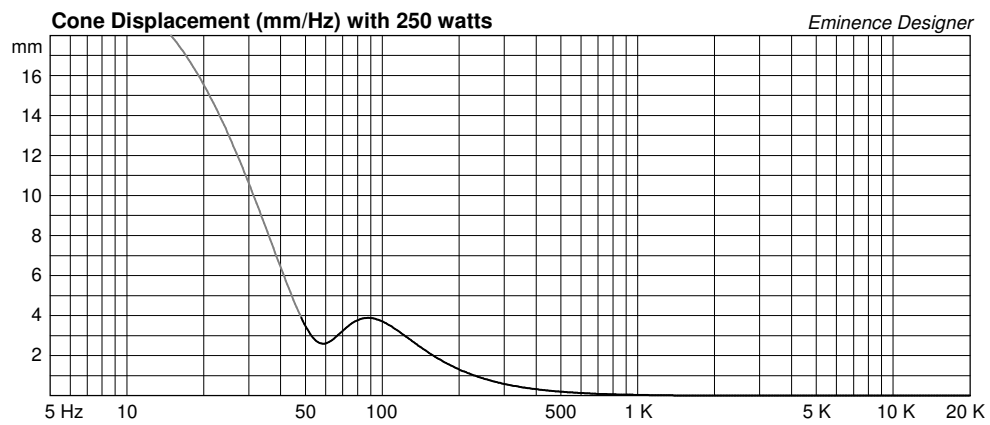
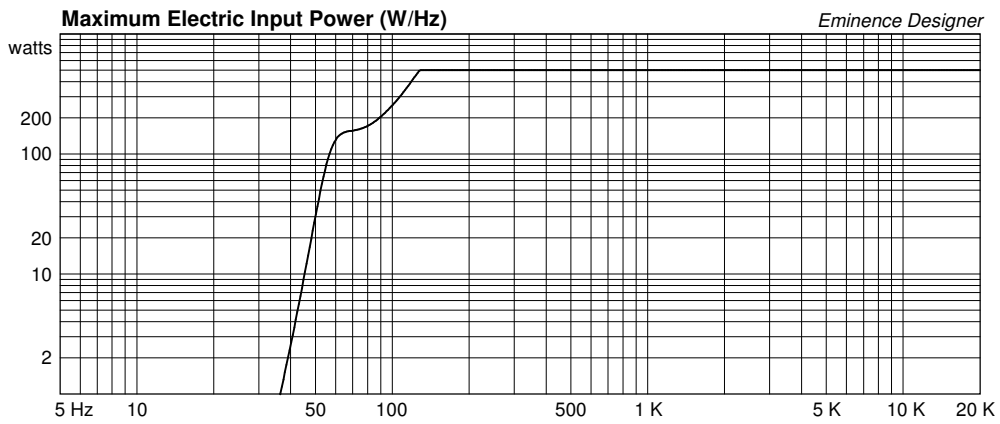
Eminence Designer

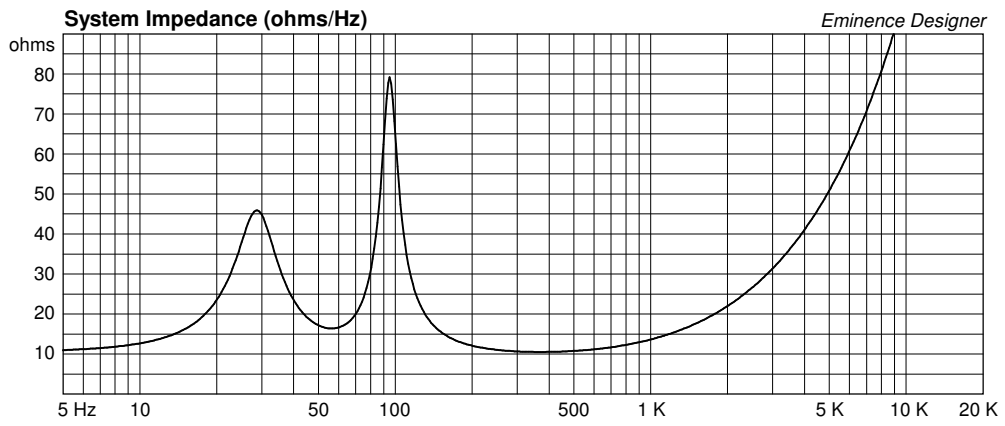


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







# KappaPro-15B Small Vented Mid/Bass Design

By Jerry McNutt, Eminence Speaker LLC  
500 Watts; F3 at 82 Hz. Best used above 90 as a mid/bass box.  
Will need some EQ to flatten it out; high output design.



## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 1.6 cu.ft

V(total) = 1.842 cu.ft

Fb = 85 Hz

QL = 7

F3 = 82.23 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 3.66 in

Lv = 0.75 in

## Driver Properties

--Description--

Name: KappaPro-15B

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: KappaPro-15B (B is 16 Ohm)

--Configuration--

**No. of Drivers = 1**

--Mechanical Parameters--

Fs = 47.15 Hz

Qms = 13.98

Vas = 155.7 liters

Cms = 0.15 mm/N

Mms = 74.1 g

Rms = 1.57 kg/s

Xmax = 3.9 mm

Xmech = 13.2 mm

P-Dia = 329.9 mm

Sd = 864.6 sq.cm

P-Vd = 0.333 liters

--Electrical Parameters--

Qes = 0.39

Re = 10.47 ohms

Le = 1.59 mH

Z = 16 ohms

BL = 24.2 Tm

Pe = 500 watts

--Electromech. Parameters--

Qts = 0.38

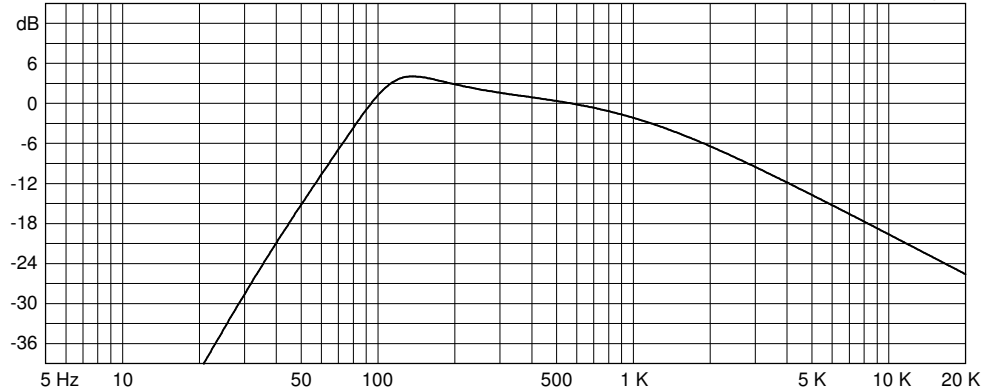
no = 4.034 %

1-W SPL = 98.2 dB

2.83-V SPL = 97.04 dB

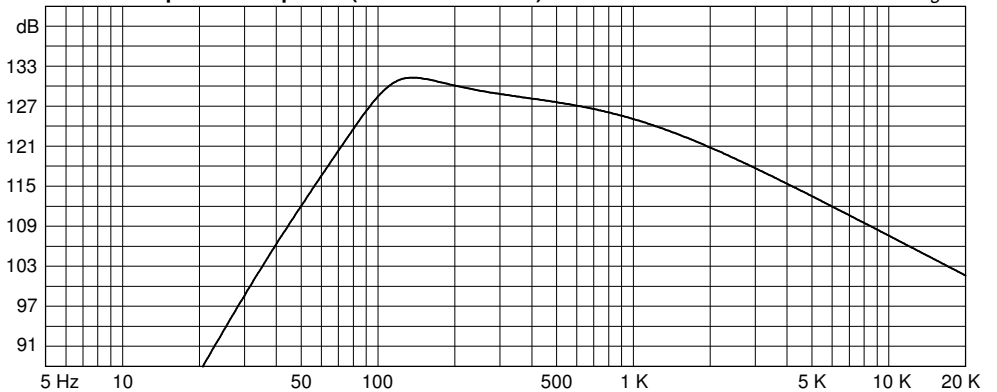
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 500 watts

Eminence Designer



Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer

