

Legend CA10-16 "Classic" 2x10 Bass Guitar Cab

By Jerry McNutt, Eminence Speaker LLC

Limit to 125 Watts; F3 at 68 Hz.

Two 16 ohm drivers in parallel for an 8 ohm load.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 2.208 cu.ft

V(total) = 2.444 cu.ft

Fb = 50.01 Hz

QL = 7

F3 = 67.45 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = rectangle

Vent ends = one flush

Hv = 1 in

Wv = 10.25 in

Lv = 8 in

Driver Properties

--Description--

Name: Legend CA10-16

Type: Standard one-way driver

Company: Eminence Speaker USA

Comment: Bass Guitar Driver, 16 ohm

--Configuration--

No. of Drivers = 2

Mounting = Standard

Wiring = Parallel

Drivers sum coherently = Yes

--Mechanical Parameters--

Fs = 53.47 Hz

Qms = 6.47

Vas = 51.05 liters [102.1]

Cms = 0.3 mm/N [0.15]

Mms = 29.33 g [58.66]

Rms = 1.52 kg/s [3.04]

Xmax = 3.02 mm

Xmech = 7 mm

P-Dia = 209.9 mm [296.9]

Sd = 350.1 sq.cm [700.2]

P-Vd = 0.105 liters [0.209]

--Electrical Parameters--

Qes = 0.45

Re = 10.73 ohms [5.365]

Le = 1.19 mH [0.595]

Z = 16 ohms [8]

BL = 15.31 Tm [15.33]

Pe = 200 watts [400]

--Electromech. Parameters--

Qts = 0.421

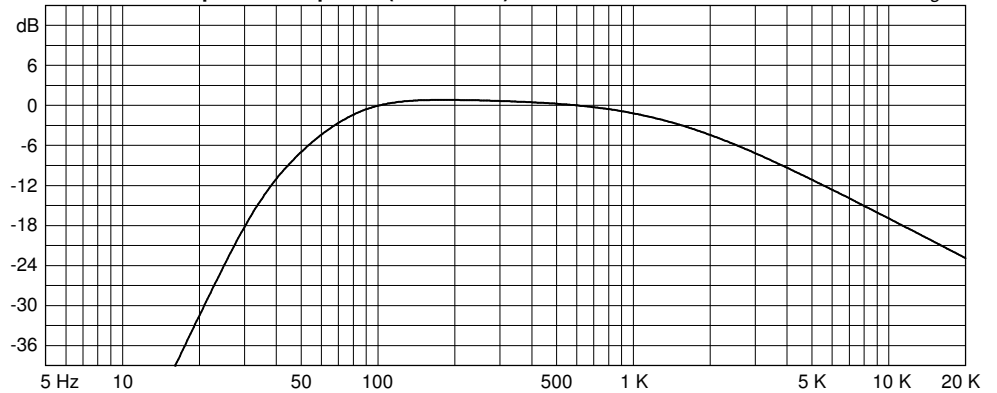
no = 1.672 % [3.344]

1-W SPL = 94.38 dB [97.39]

2.83-V SPL = 93.1 dB [99.13]

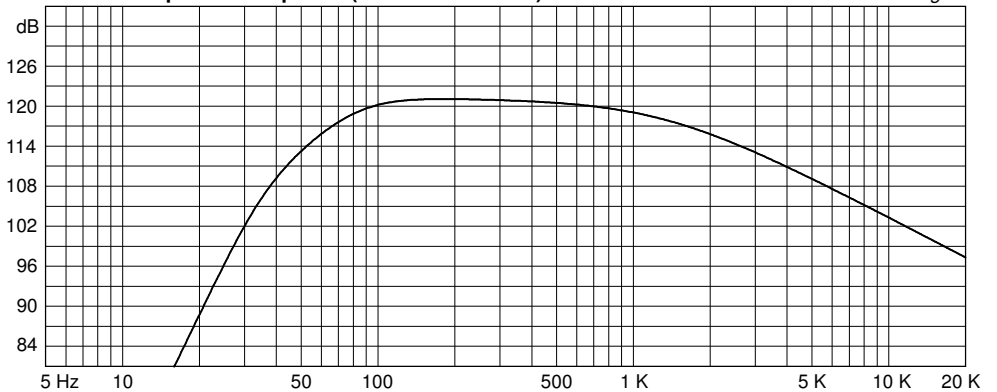
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



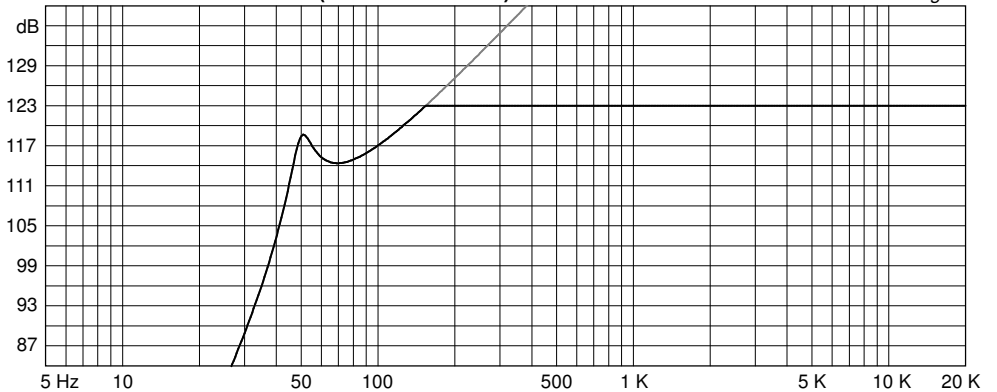
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 125 watts

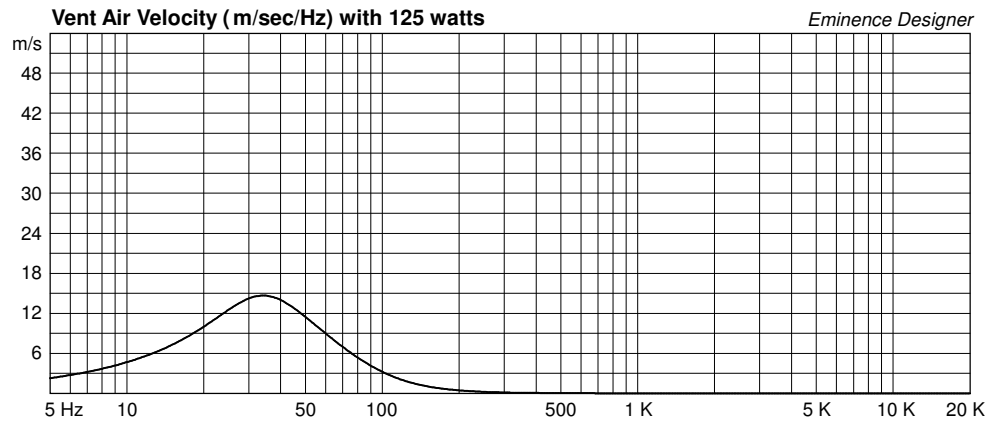
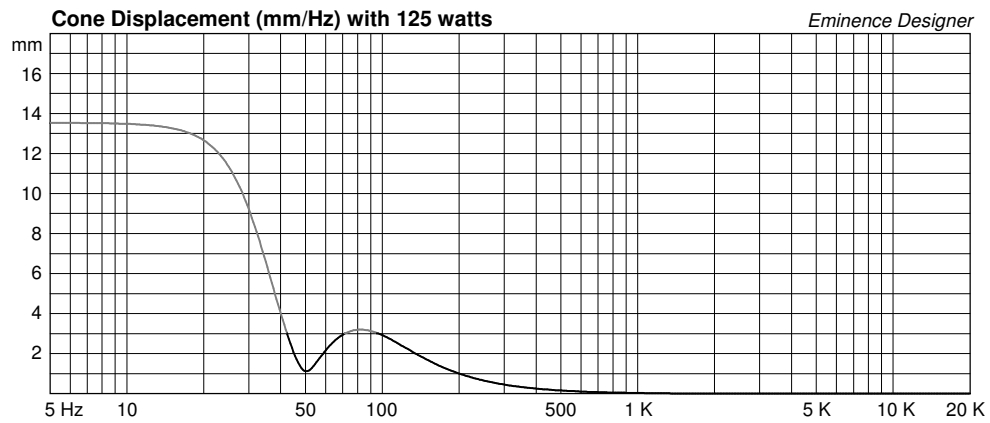
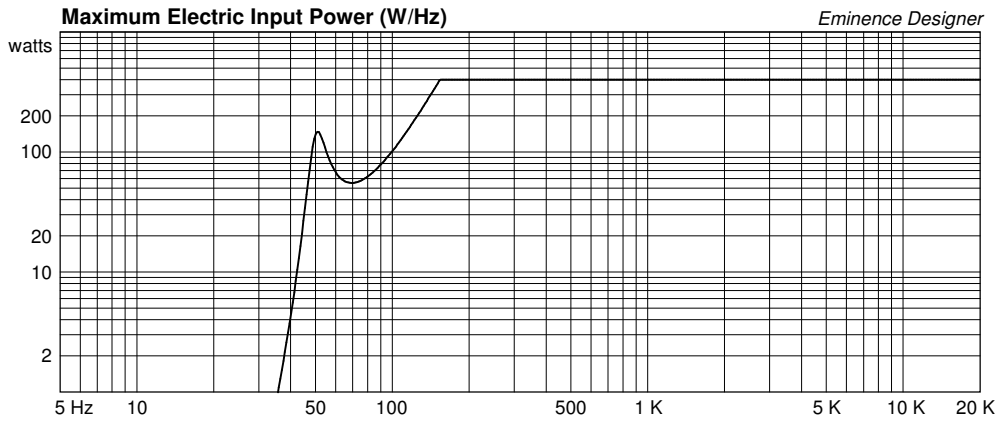
Eminence Designer

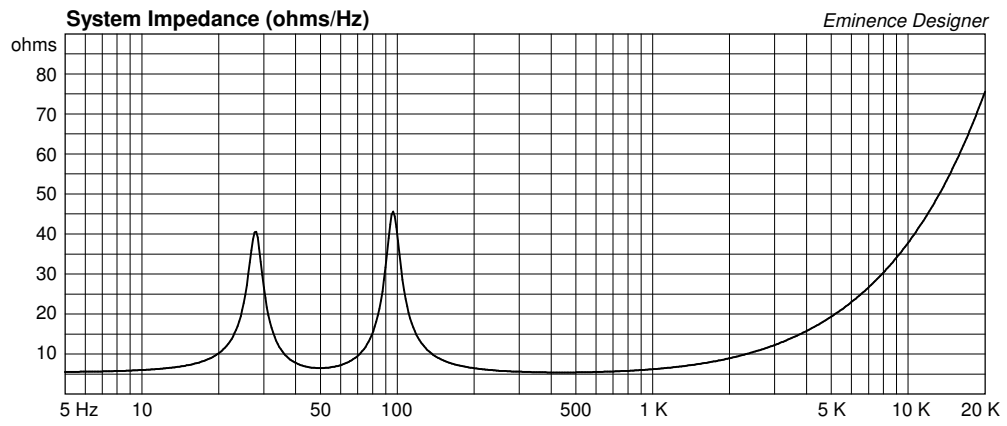


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







Legend CA10-16 Medium 2x10 Bass Guitar

By Jerry McNutt, Eminence Speaker LLC
Limit to 150 Watts; F3 at 65 Hz.
Bass Guitar Design



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 2.6 cu.ft

V(total) = 2.771 cu.ft

Fb = 73.08 Hz

QL = 7

F3 = 64.92 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4.3 in

Lv = 0.75 in

Driver Properties

--Description--

Name: Legend CA10-16

Type: Standard one-way driver

Company: Eminence Speaker USA

Comment: Bass Guitar Driver, 16 ohm

--Configuration--

No. of Drivers = 2

Mounting = Standard

Wiring = Parallel

Drivers sum coherently = Yes

--Mechanical Parameters--

Fs = 53.47 Hz

Qms = 6.47

Vas = 51.05 liters [102.1]

Cms = 0.3 mm/N [0.15]

Mms = 29.33 g [58.66]

Rms = 1.52 kg/s [3.04]

Xmax = 3.02 mm

Xmech = 7 mm

P-Dia = 209.9 mm [296.9]

Sd = 350.1 sq.cm [700.2]

P-Vd = 0.105 liters [0.209]

--Electrical Parameters--

Qes = 0.45

Re = 10.73 ohms [5.365]

Le = 1.19 mH [0.595]

Z = 16 ohms [8]

BL = 15.31 Tm [15.33]

Pe = 200 watts [400]

--Electromech. Parameters--

Qts = 0.421

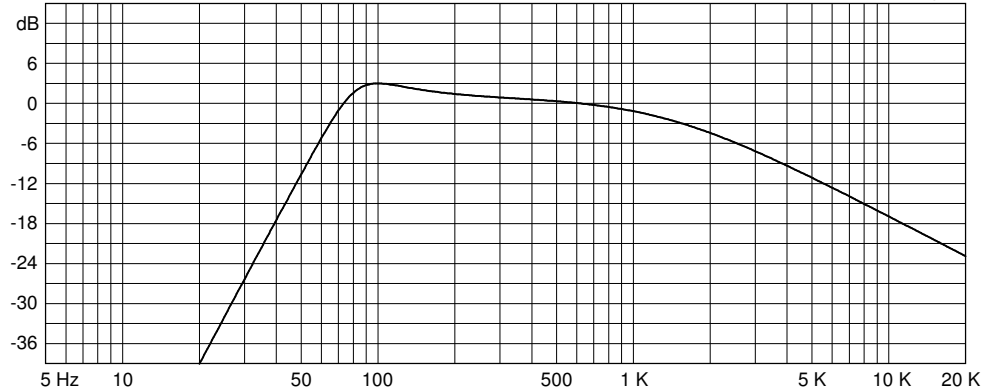
no = 1.672 % [3.344]

1-W SPL = 94.38 dB [97.39]

2.83-V SPL = 93.1 dB [99.13]

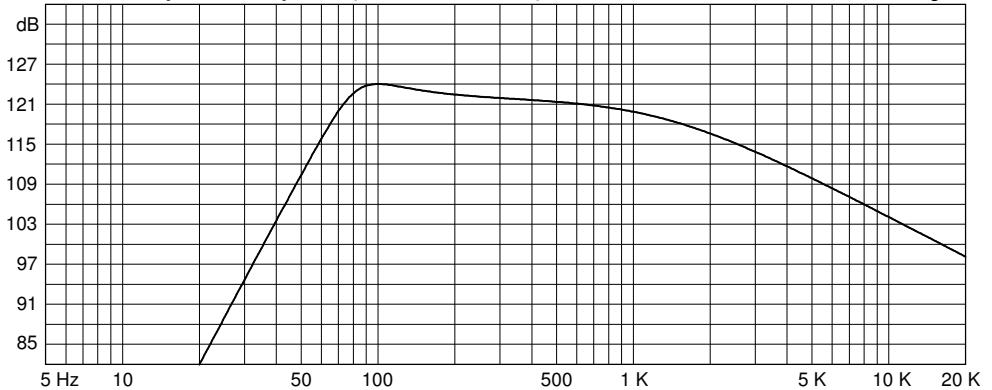
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



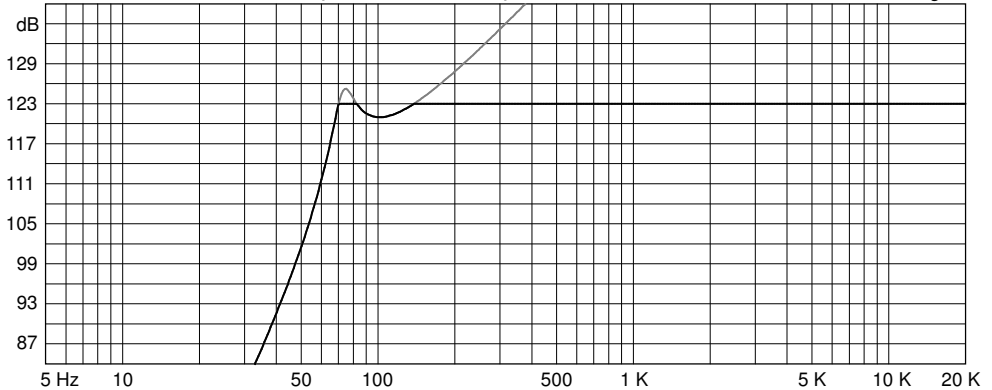
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 150 watts

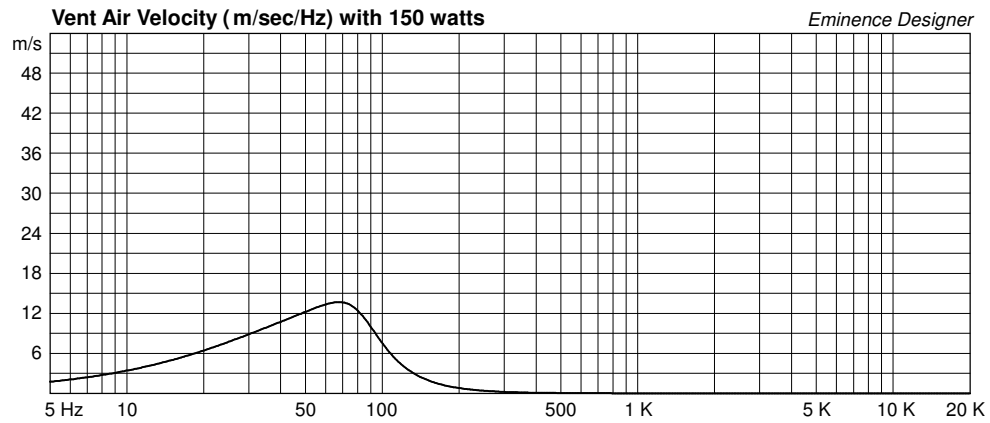
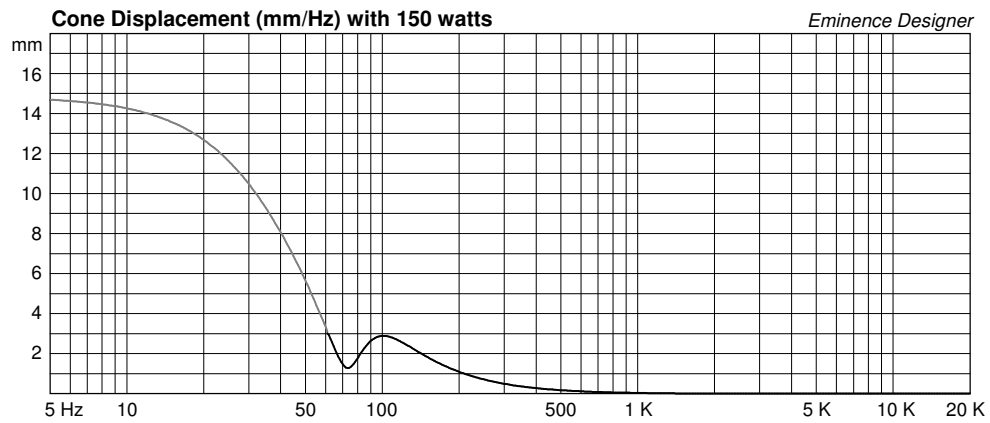
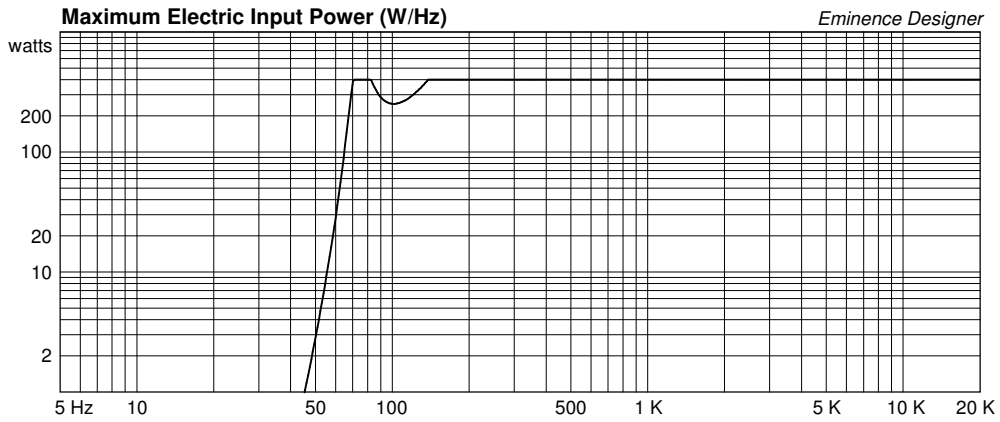
Eminence Designer

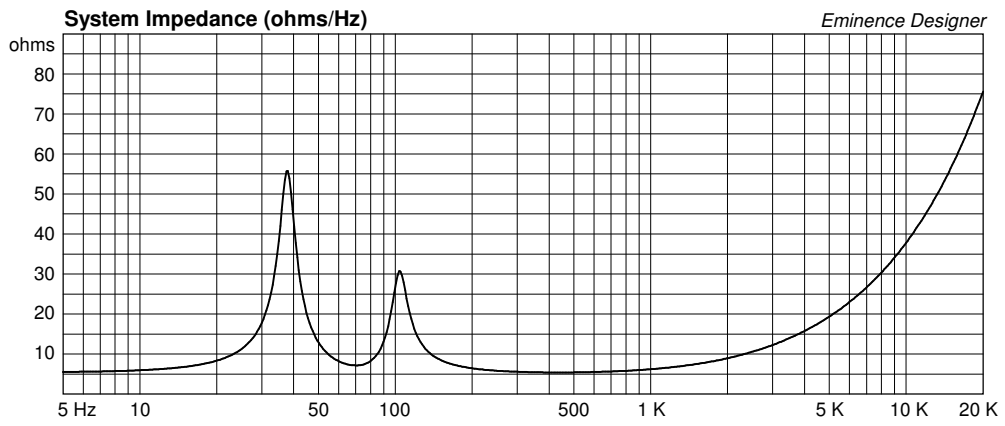


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







Legend CA10-16 Large 4x10 Bass Guitar Cab

By Jerry McNutt, Eminence Speaker LLC

Limit to 250 Watts; F3 at 58 Hz.

Classic 4x10 Bass Guitar Design. All drivers in parallel for a solid 4 ohm load.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 6.788 cu.ft

V(total) = 7.141 cu.ft

Fb = 65 Hz

QL = 7

F3 = 57.81 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 5.086 in

Lv = 0.75 in

Driver Properties

--Description--

Name: Legend CA10-16

Type: Standard one-way driver

Company: Eminence Speaker USA

Comment: Bass Guitar Driver, 16 ohm

--Configuration--

No. of Drivers = 4

Mounting = Standard

Wiring = Parallel

Drivers sum coherently = Yes

--Mechanical Parameters--

Fs = 53.47 Hz

Qms = 6.47

Vas = 51.05 liters [204.2]

Cms = 0.3 mm/N [0.075]

Mms = 29.33 g [117.3]

Rms = 1.52 kg/s [6.08]

Xmax = 3.02 mm

Xmech = 7 mm

P-Dia = 209.9 mm [419.9]

Sd = 350.1 sq.cm [1400]

P-Vd = 0.105 liters [0.418]

--Electrical Parameters--

Qes = 0.45

Re = 10.73 ohms [2.683]

Le = 1.19 mH [0.298]

Z = 16 ohms [4]

BL = 15.31 Tm [15.33]

Pe = 200 watts [800]

--Electromech. Parameters--

Qts = 0.421

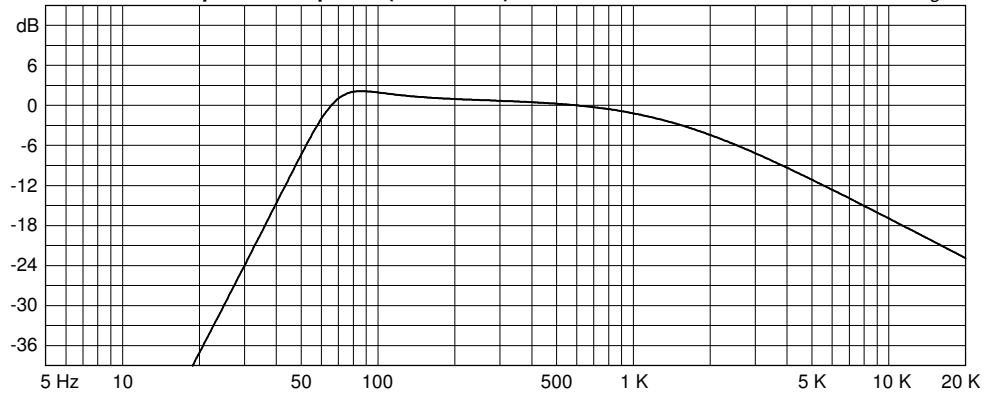
no = 1.672 % [6.688]

1-W SPL = 94.38 dB [100.4]

2.83-V SPL = 93.1 dB [105.1]

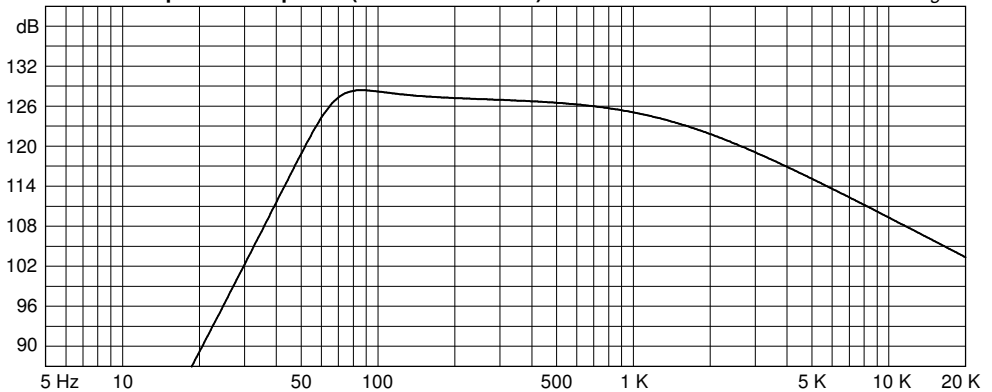
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



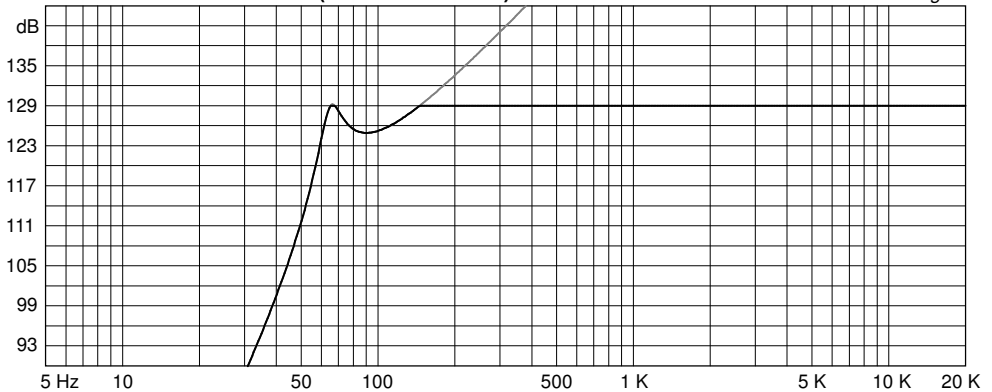
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 250 watts

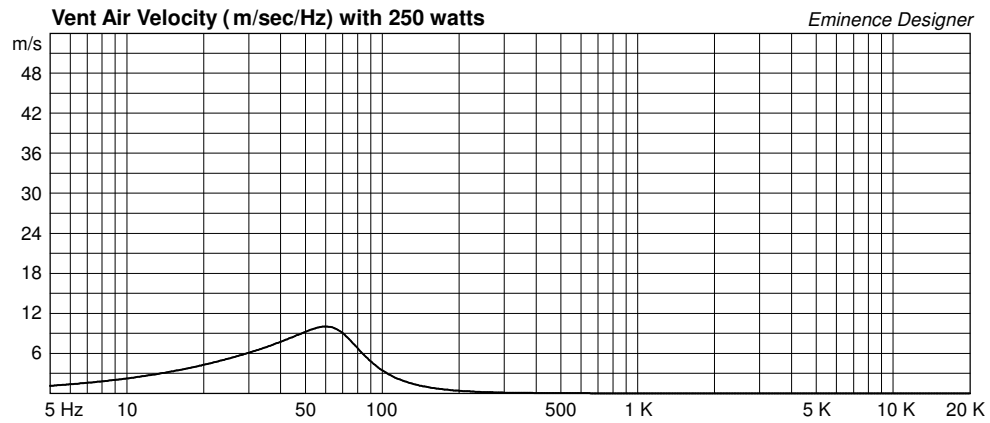
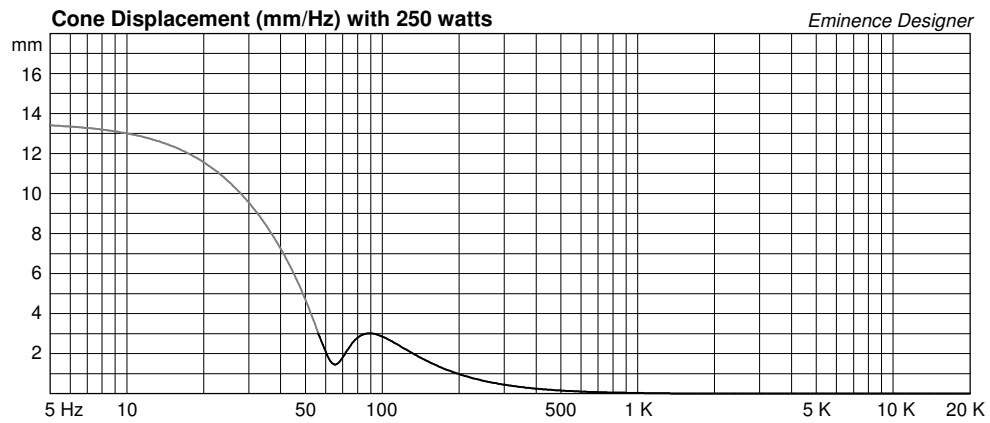
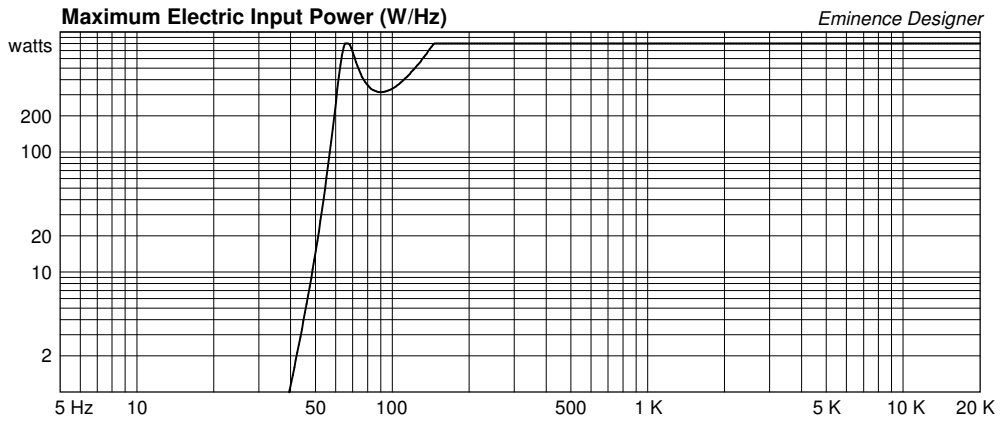
Eminence Designer

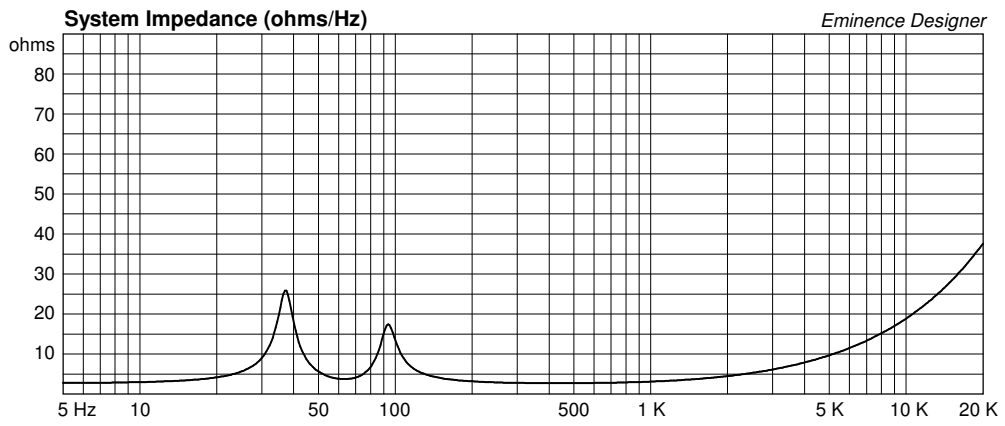


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







Legend CA10-16 Large Vented Bass Guitar Design

By Jerry McNutt, Eminence Speaker LLC
Limit to 50 Watts; F3 at 54 Hz.
Classic Bass Guitar Design



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 1.697 cu.ft

V(total) = 1.799 cu.ft

Fb = 55 Hz

QL = 7

F3 = 53.83 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 2.862 in

Driver Properties

--Description--

Name: Legend CA10-16

Type: Standard one-way driver

Company: Eminence Speaker USA

Comment: Bass Guitar Driver, 16 ohm

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 53.47 Hz

Qms = 6.47

Vas = 51.05 liters

Cms = 0.3 mm/N

Mms = 29.33 g

Rms = 1.52 kg/s

Xmax = 3.02 mm

Xmech = 7 mm

P-Dia = 209.9 mm

Sd = 350.1 sq.cm

P-Vd = 0.105 liters

--Electrical Parameters--

Qes = 0.45

Re = 10.73 ohms

Le = 1.19 mH

Z = 16 ohms

BL = 15.31 Tm

Pe = 200 watts

--Electromech. Parameters--

Qts = 0.421

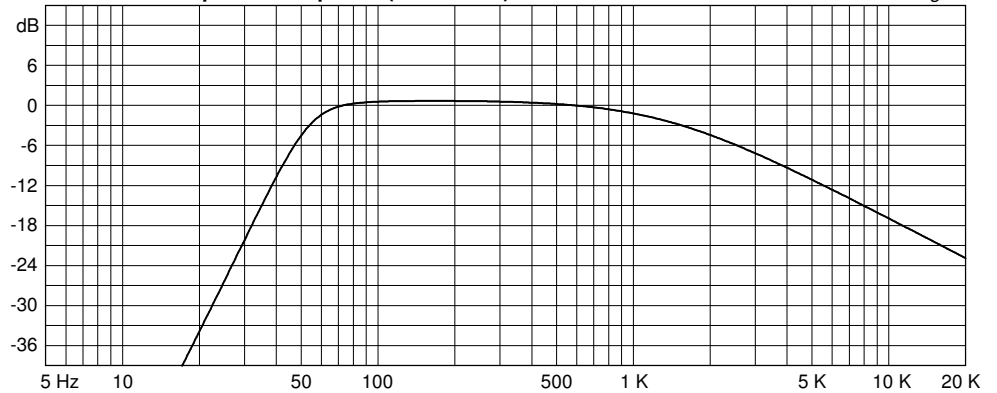
no = 1.672 %

1-W SPL = 94.38 dB

2.83-V SPL = 93.1 dB

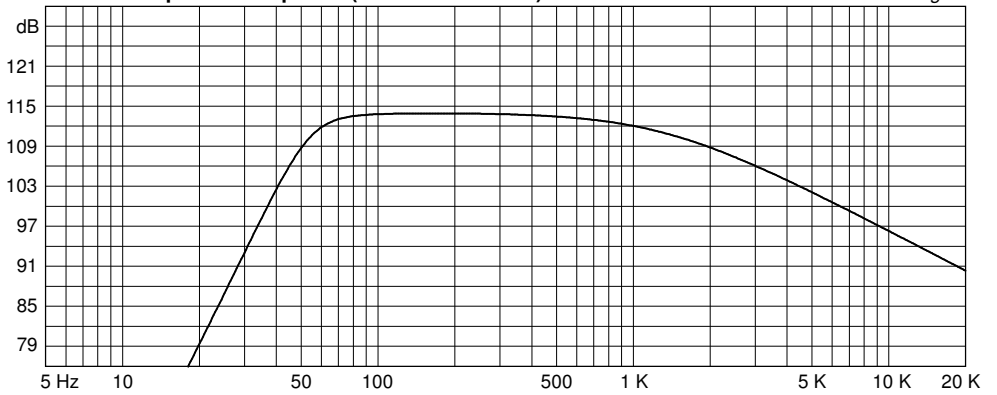
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



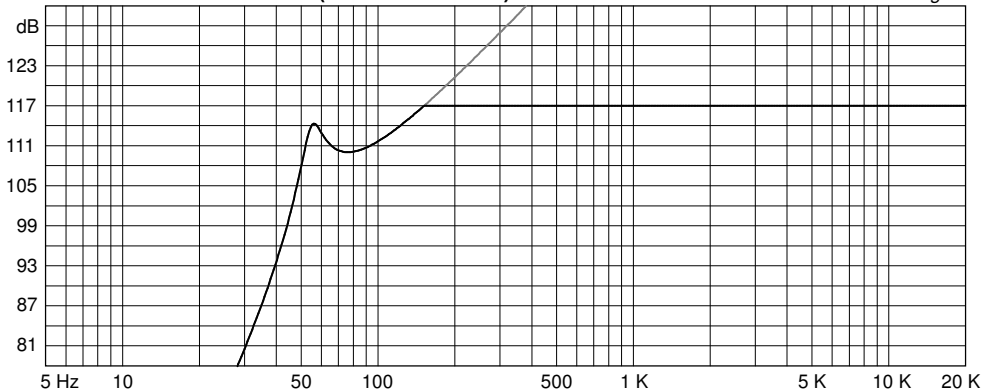
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 50 watts

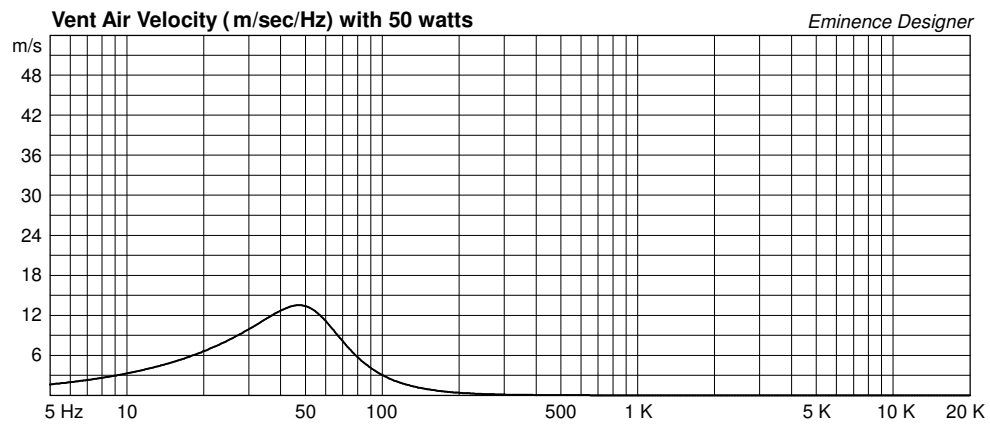
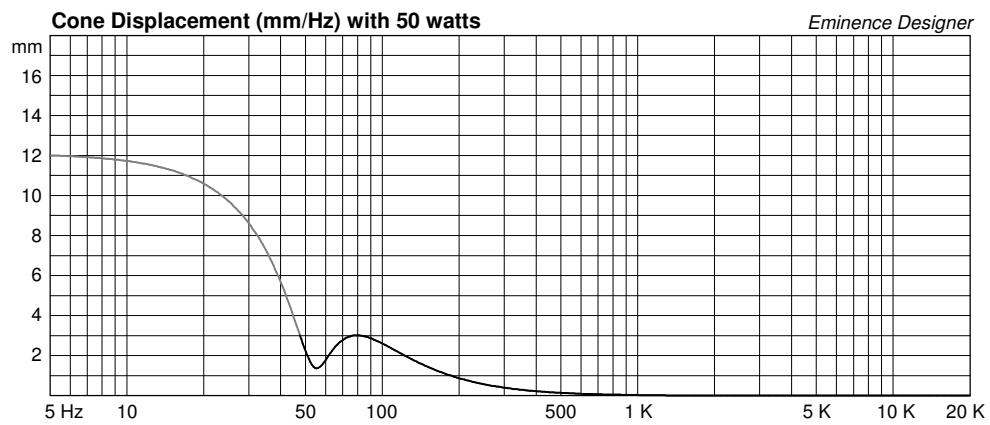
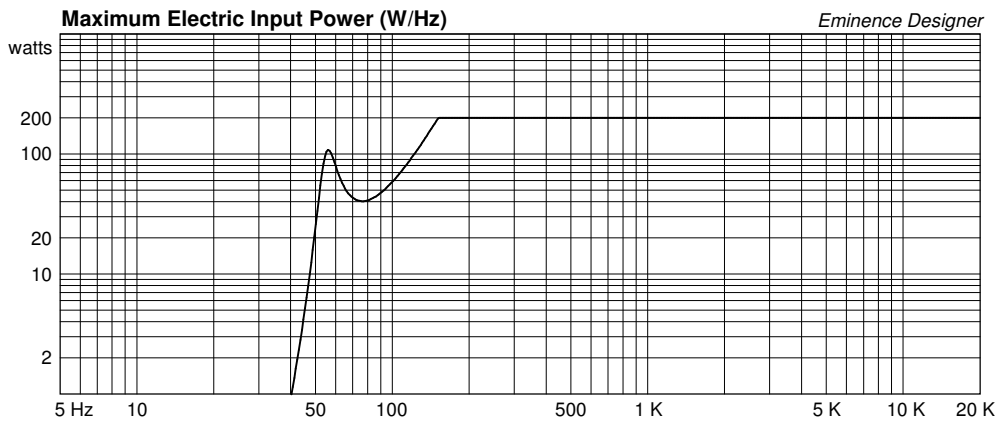
Eminence Designer

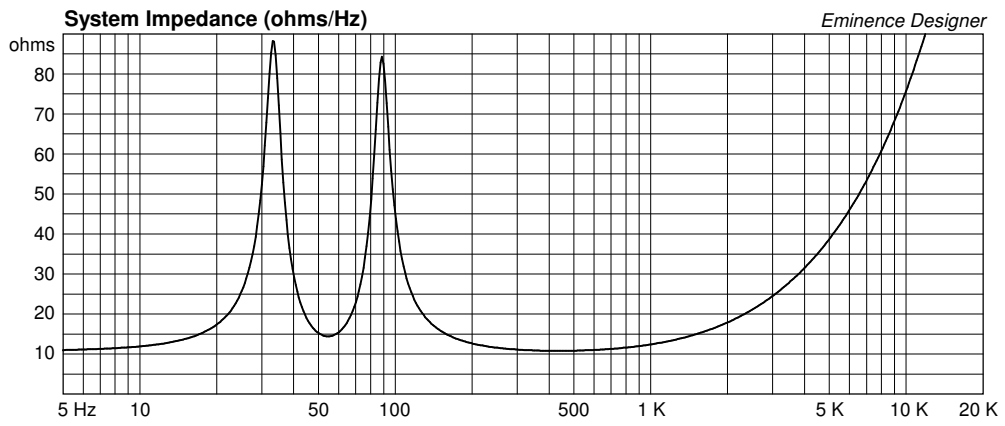


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







Legend CA10-16 Medium Vented Bass Guitar Design

By Jerry McNutt, Eminence Speaker LLC
Limit to 75 Watts; F3 at 62 Hz.
Classic Bass Guitar Design



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 1.3 cu.ft

V(total) = 1.395 cu.ft

Fb = 67 Hz

QL = 7

F3 = 62.17 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 2.036 in

Driver Properties

--Description--

Name: Legend CA10-16

Type: Standard one-way driver

Company: Eminence Speaker USA

Comment: Bass Guitar Driver, 16 ohm

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 53.47 Hz

Qms = 6.47

Vas = 51.05 liters

Cms = 0.3 mm/N

Mms = 29.33 g

Rms = 1.52 kg/s

Xmax = 3.02 mm

Xmech = 7 mm

P-Dia = 209.9 mm

Sd = 350.1 sq.cm

P-Vd = 0.105 liters

--Electrical Parameters--

Qes = 0.45

Re = 10.73 ohms

Le = 1.19 mH

Z = 16 ohms

BL = 15.31 Tm

Pe = 200 watts

--Electromech. Parameters--

Qts = 0.421

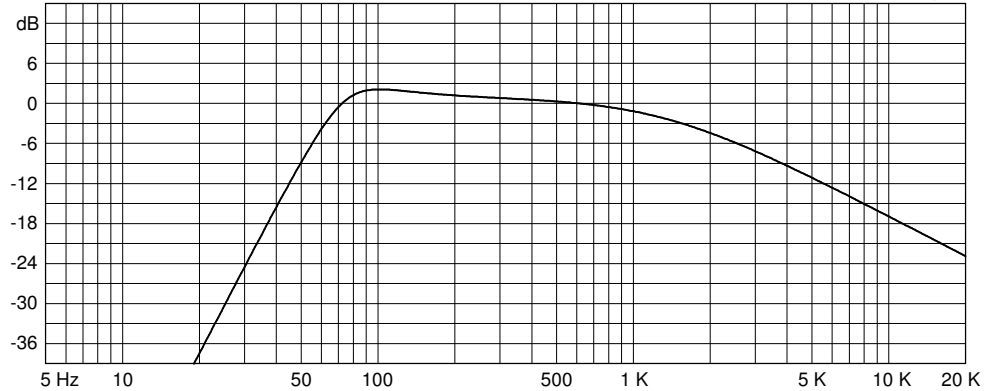
no = 1.672 %

1-W SPL = 94.38 dB

2.83-V SPL = 93.1 dB

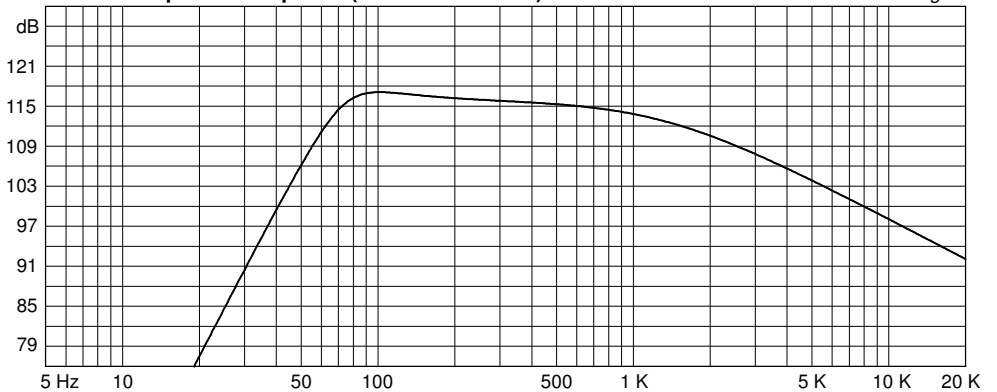
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



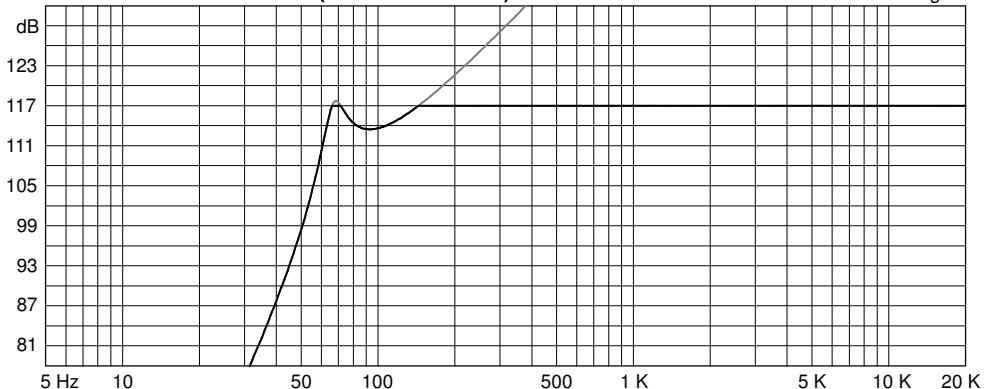
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 75 watts

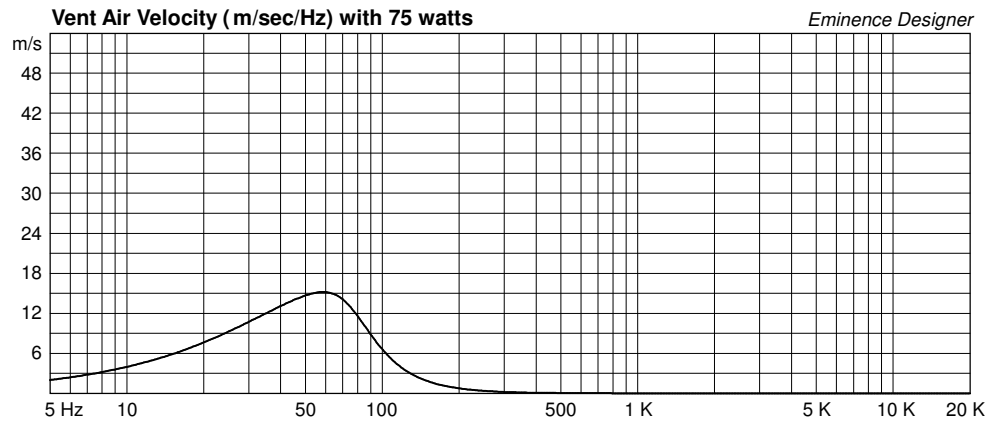
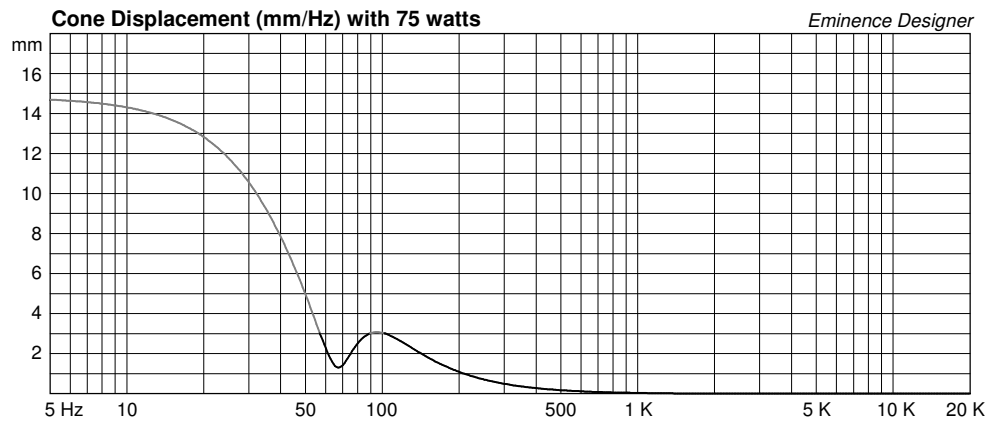
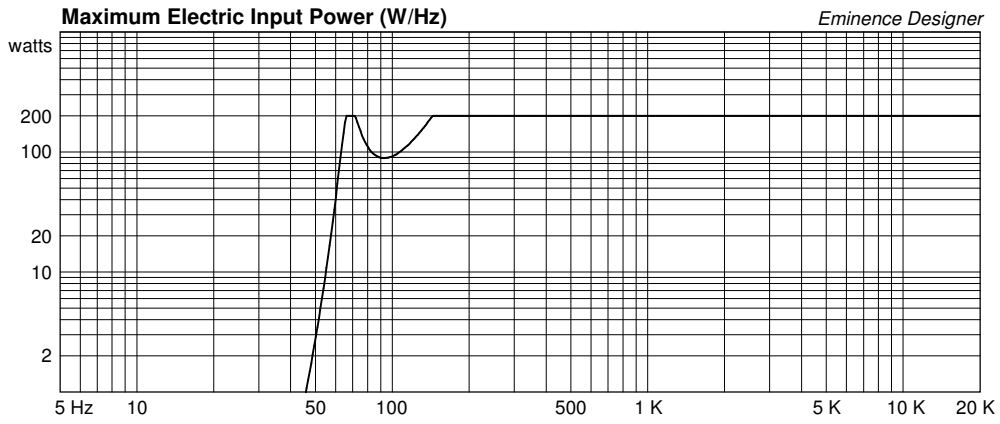
Eminence Designer

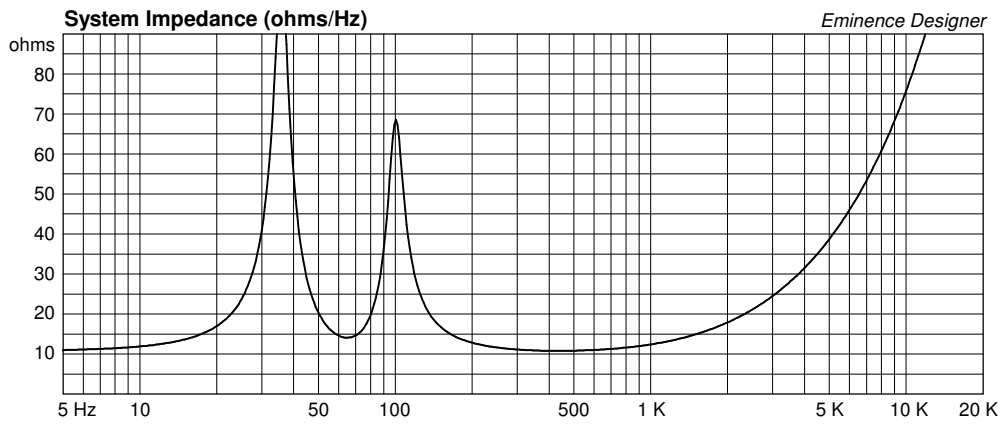


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







Legend CA10-16 Small Vented Top Box

By Jerry McNutt, Eminence Speaker LLC

Limit to 125 Watts; F3 at 86 Hz. Use a Steep High Pass filter at 100Hz.

Not for full range use. Use on top of a 12" or a 15" Bass Cabinet.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 0.55 cu.ft

V(total) = 0.641 cu.ft

Fb = 80 Hz

QL = 7

F3 = 86.19 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 2.629 in

Driver Properties

--Description--

Name: Legend CA10-16

Type: Standard one-way driver

Company: Eminence Speaker USA

Comment: Bass Guitar Driver, 16 ohm

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 53.47 Hz

Qms = 6.47

Vas = 51.05 liters

Cms = 0.3 mm/N

Mms = 29.33 g

Rms = 1.52 kg/s

Xmax = 3.02 mm

Xmech = 7 mm

P-Dia = 209.9 mm

Sd = 350.1 sq.cm

P-Vd = 0.105 liters

--Electrical Parameters--

Qes = 0.45

Re = 10.73 ohms

Le = 1.19 mH

Z = 16 ohms

BL = 15.31 Tm

Pe = 200 watts

--Electromech. Parameters--

Qts = 0.421

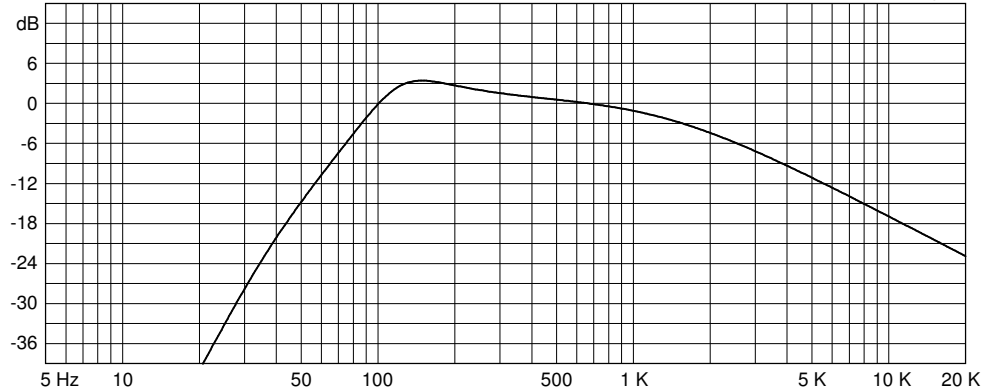
no = 1.672 %

1-W SPL = 94.38 dB

2.83-V SPL = 93.1 dB

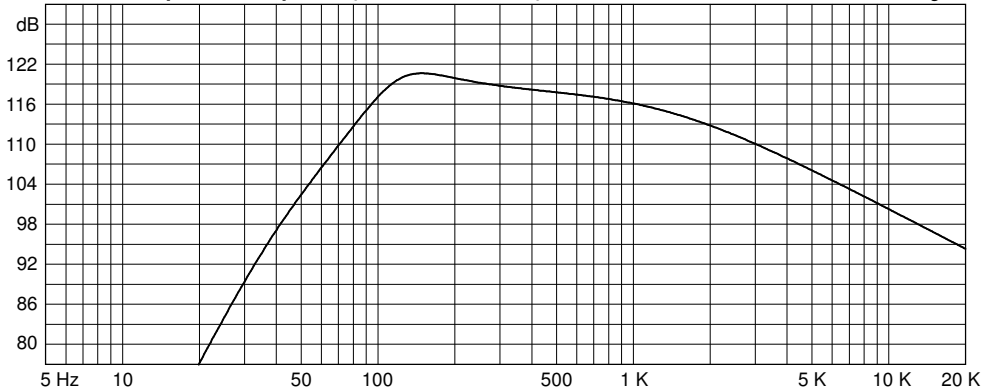
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 125 watts

Eminence Designer



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

Eminence Designer

