

Legend CA10-4 Small Vented Bass Guitar Top

By Jerry McNutt, Eminence Speaker LLC
200 Watts; F3 at 90 Hz. Best used above 120 Hz.
Not for Full Range Use; best on top of a 15" or 18" bass cabinet.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 0.495 cu.ft

V(total) = 0.632 cu.ft

Fb = 80 Hz

QL = 7

F3 = 90.02 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 7.124 in

Driver Properties

--Description--

Name: Legend CA10-4

Type: Standard one-way driver

Company: Eminence Speaker USA

Comment: Bass Guitar Driver

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 55.38 Hz

Qms = 7.67

Vas = 45.94 liters

Cms = 0.27 mm/N

Mms = 30.05 g

Rms = 1.36 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 = 0.41

Re = 3.7 ohms

Le = 0.49 mH

Z = 4 ohms

BL = 9.72 Tm

Pe = 200 watts

--Electromech. Parameters--

Qts = 0.389

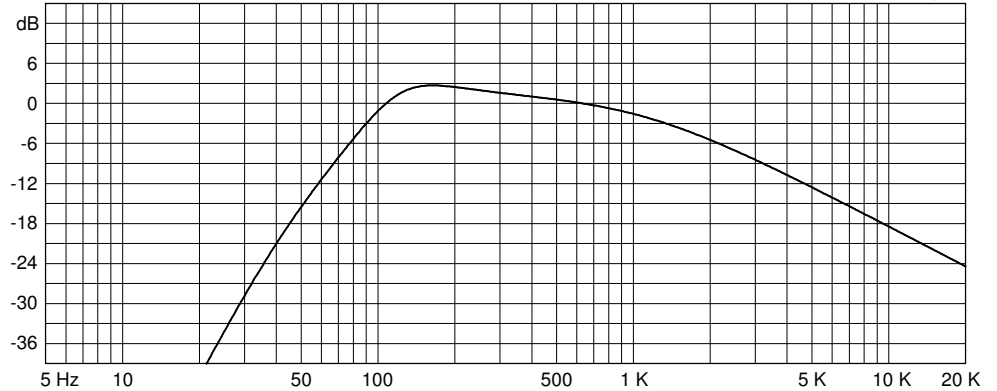
no = 1.835 %

1-W SPL = 94.78 dB

2.83-V SPL = 98.13 dB

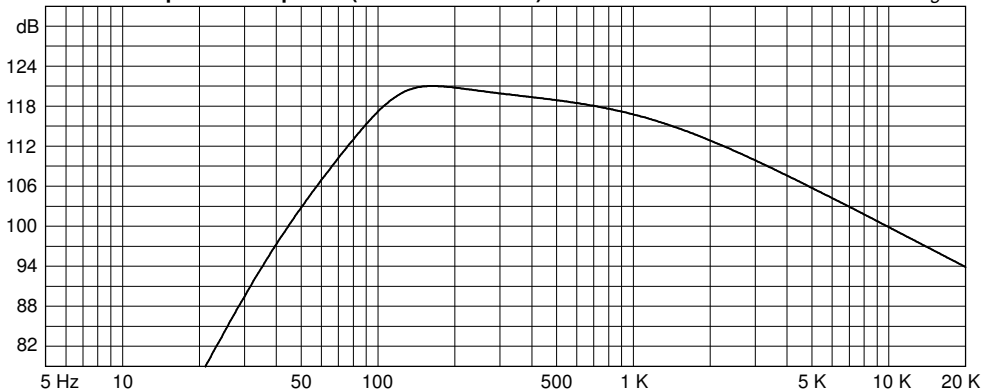
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



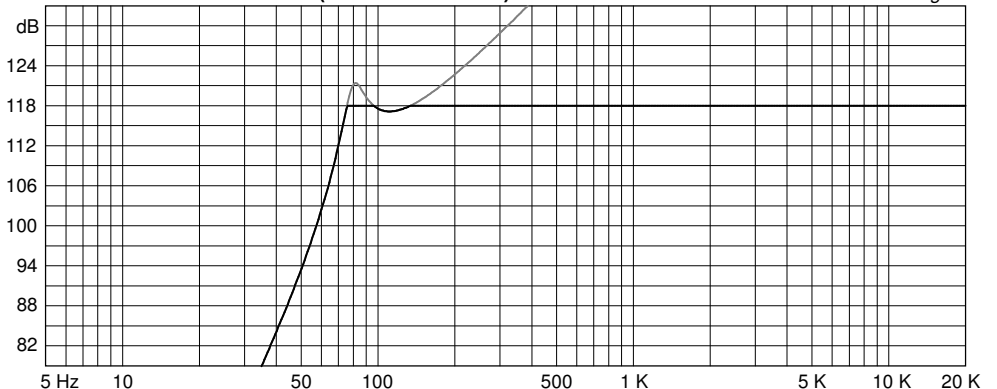
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 200 watts

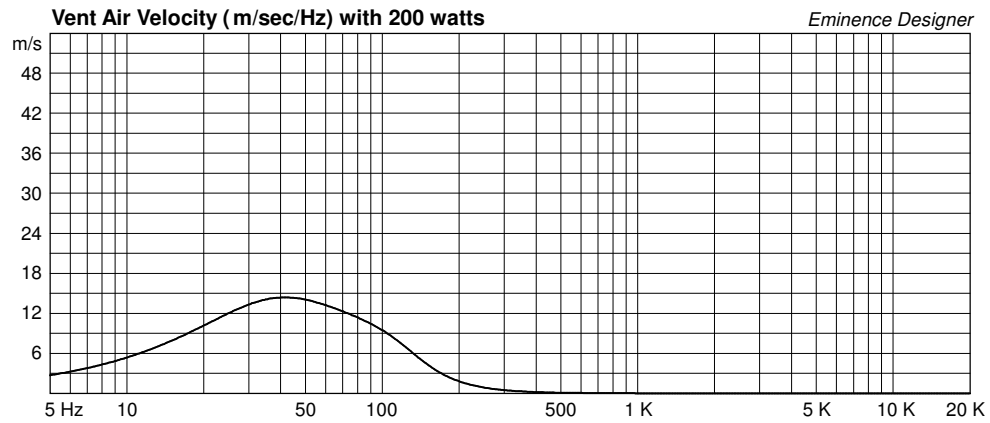
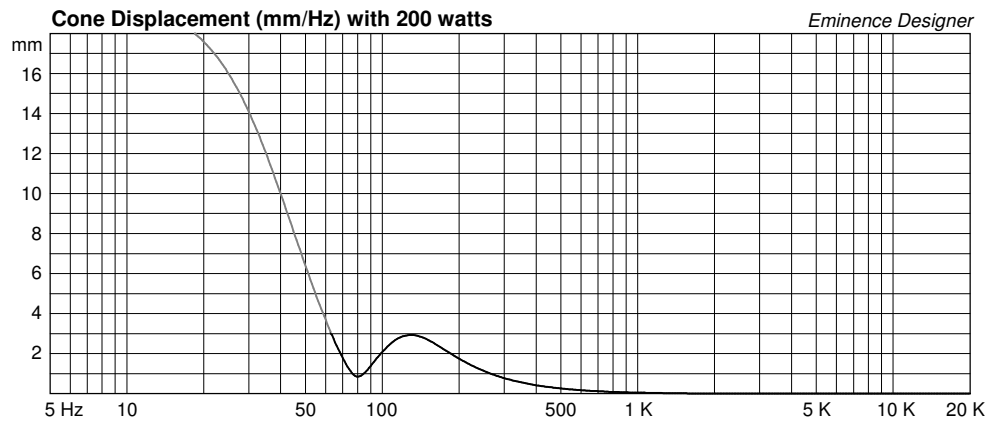
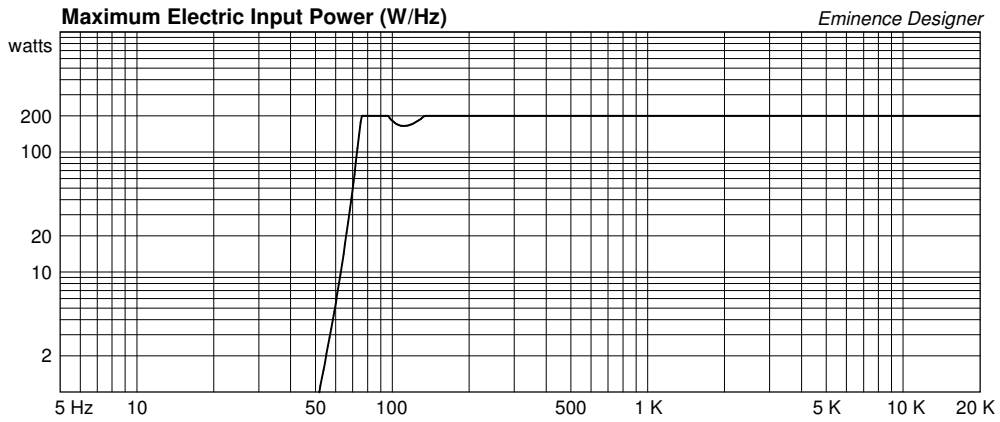
Eminence Designer

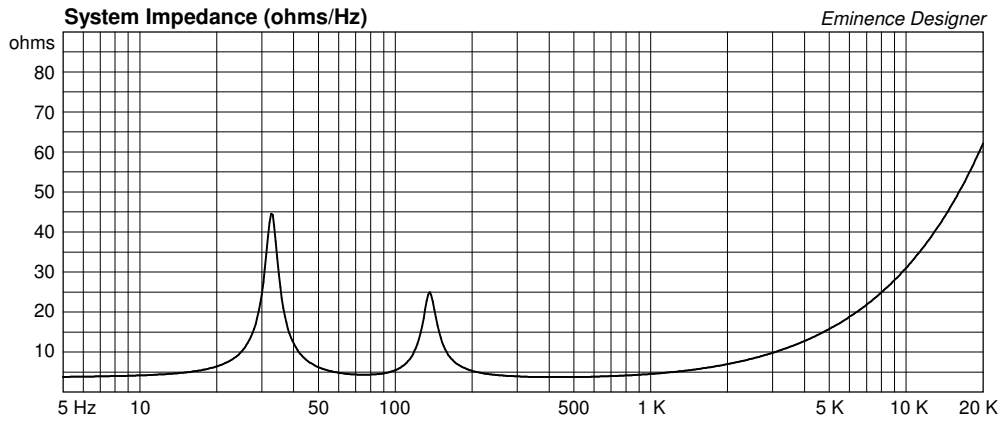


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







Legend CA10-4 Medium Vented Bass Guitar

By Jerry McNutt, Eminence Speaker LLC
100 Watts; F3 at 64 Hz.
Good overall 1x10 Bass Guitar Design



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 1.175 cu.ft

V(total) = 1.279 cu.ft

Fb = 65 Hz

QL = 7

F3 = 63.56 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 3.096 in

Driver Properties

--Description--

Name: Legend CA10-4

Type: Standard one-way driver

Company: Eminence Speaker USA

Comment: Bass Guitar Driver

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 55.38 Hz

Qms = 7.67

Vas = 45.94 liters

Cms = 0.27 mm/N

Mms = 30.05 g

Rms = 1.36 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 = 0.41

Re = 3.7 ohms

Le = 0.49 mH

Z = 4 ohms

BL = 9.72 Tm

Pe = 200 watts

--Electromech. Parameters--

Qts = 0.389

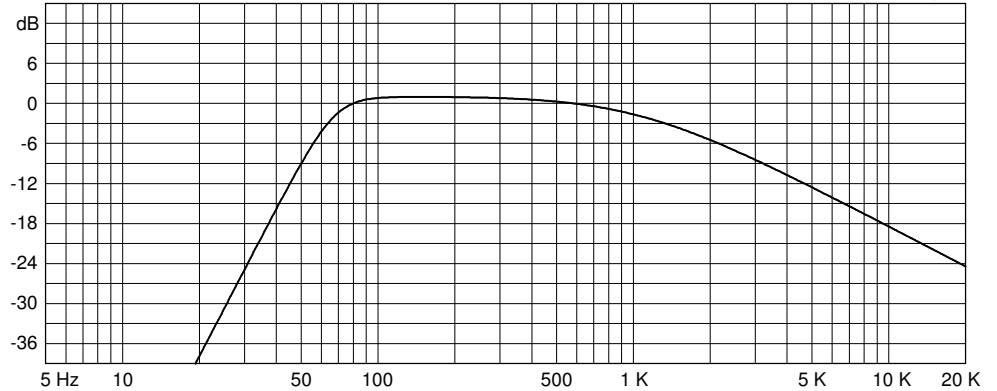
no = 1.835 %

1-W SPL = 94.78 dB

2.83-V SPL = 98.13 dB

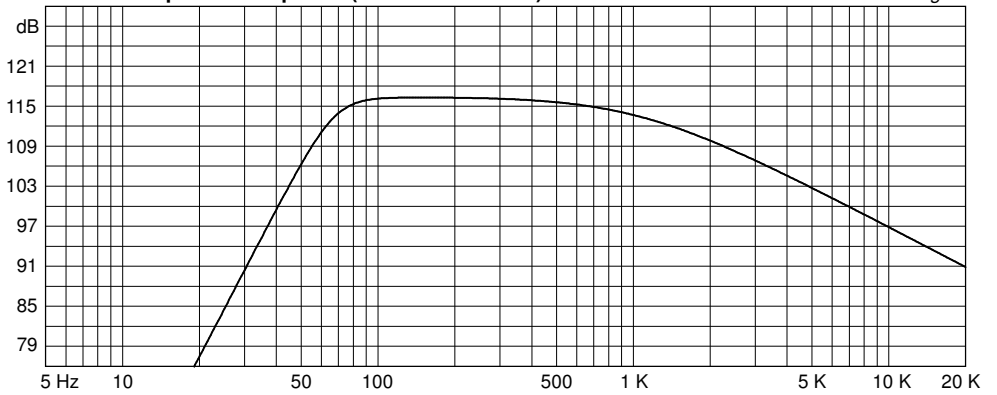
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



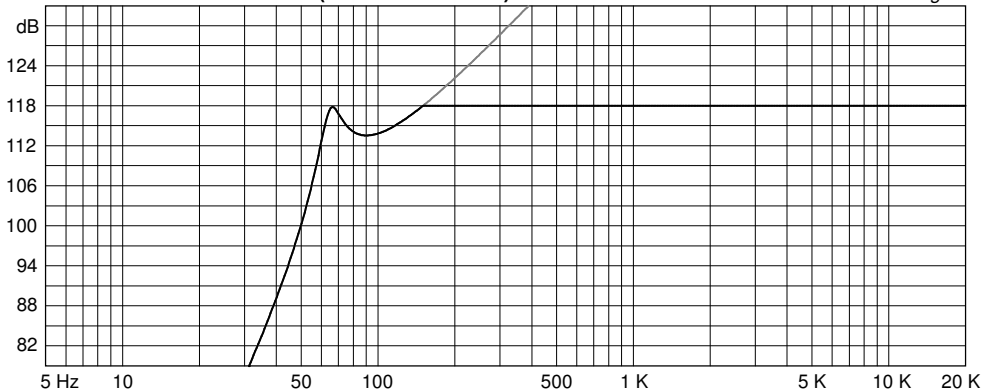
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 100 watts

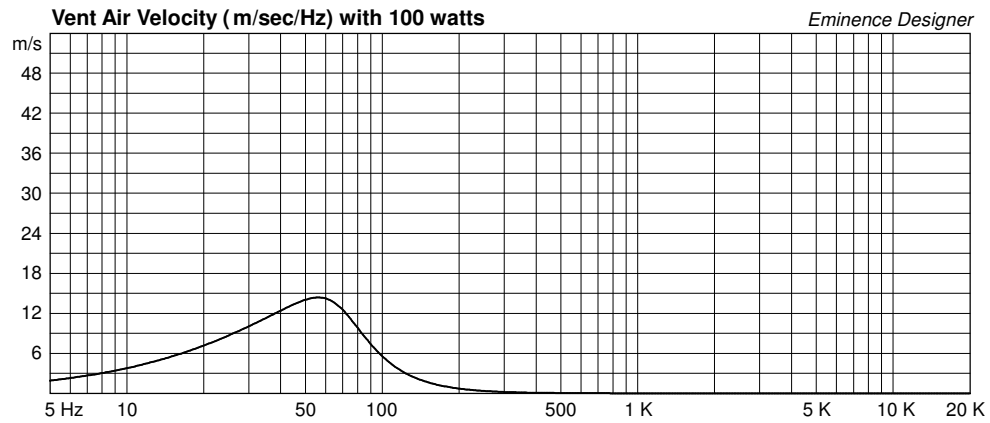
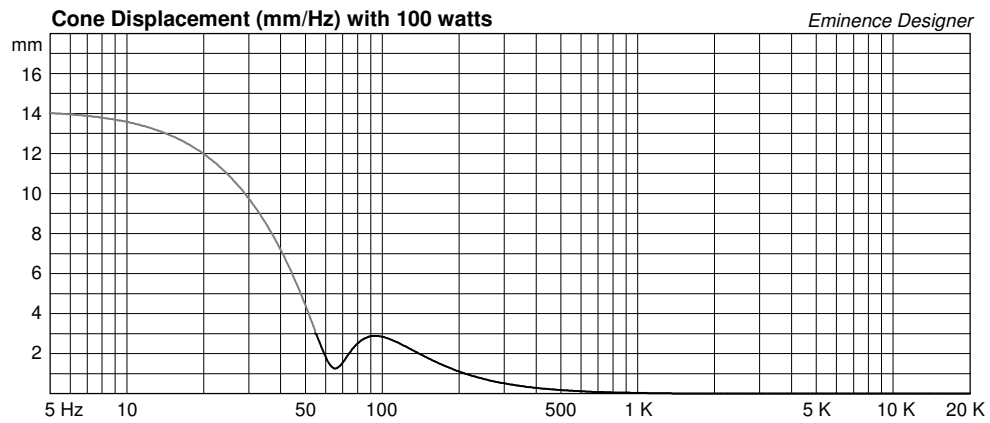
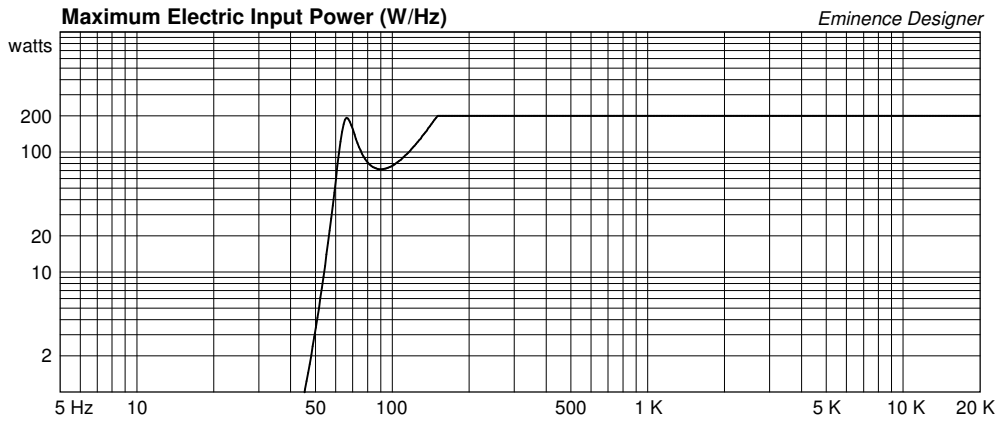
Eminence Designer

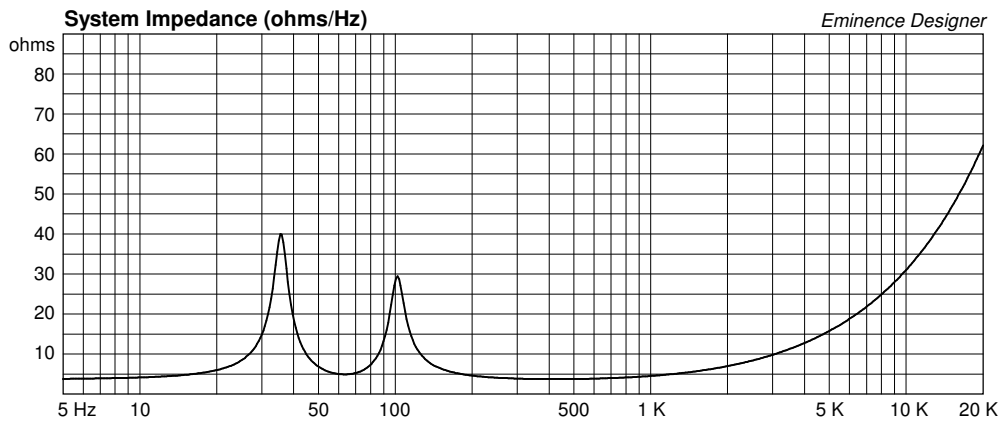


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







Legend CA10-4 Classic 2x10 Bass Cabinet

By Jerry McNutt, Eminence Speaker LLC
150 Watts; F3 at 72 Hz. Drivers in series for a solid 8 ohm load.
Classic 2x10 Bass Guitar Design; VERY popular.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 2.208 cu.ft

V(total) = 2.487 cu.ft

Fb = 50.01 Hz

QL = 7

F3 = 71.73 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 CA10-4

Type: Standard one-way driver

Company: Eminence Speaker USA

Comment: Bass Guitar Driver

--Configuration--

No. of Drivers = 2

Mounting = Standard

Wiring = Series

Drivers sum coherently = Yes

--Mechanical Parameters--

Fs = 55.38 Hz

Qms = 7.67

Vas = 45.94 liters [91.88]

Cms = 0.27 mm/N [0.135]

Mms = 30.05 g [60.1]

Rms = 1.36 kg/s [2.72]

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 = 0.41

Re = 3.7 ohms [7.4]

Le = 0.49 mH [0.98]

Z = 4 ohms [8]

BL = 9.72 Tm [19.43]

Pe = 200 watts [400]

--Electromech. Parameters--

Qts = 0.389

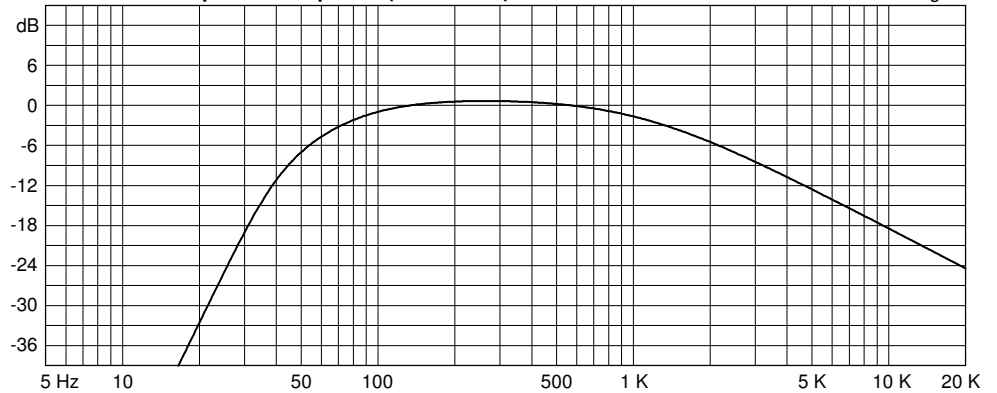
no = 1.835 % [3.67]

1-W SPL = 94.78 dB [97.79]

2.83-V SPL = 98.13 dB [98.13]

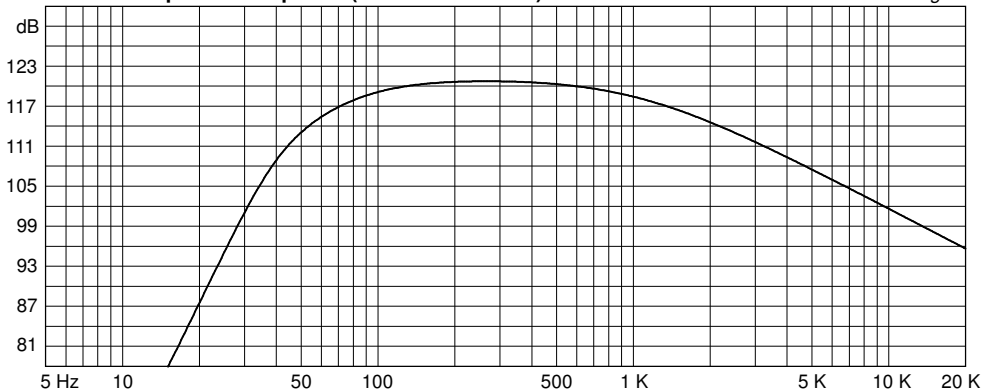
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



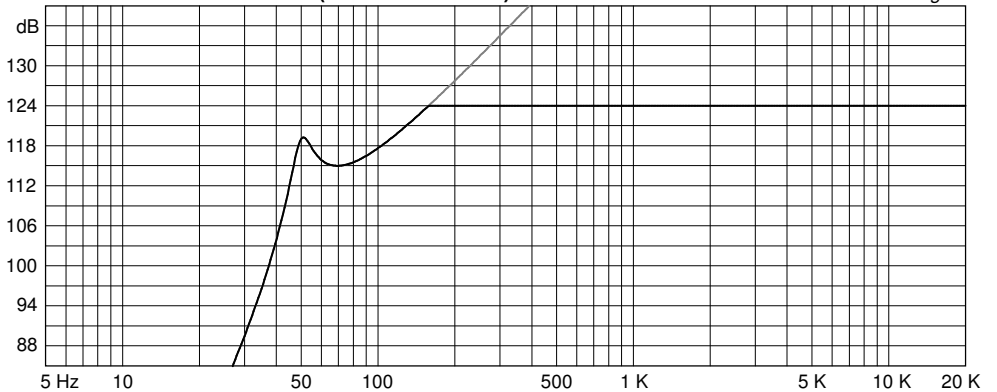
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 150 watts

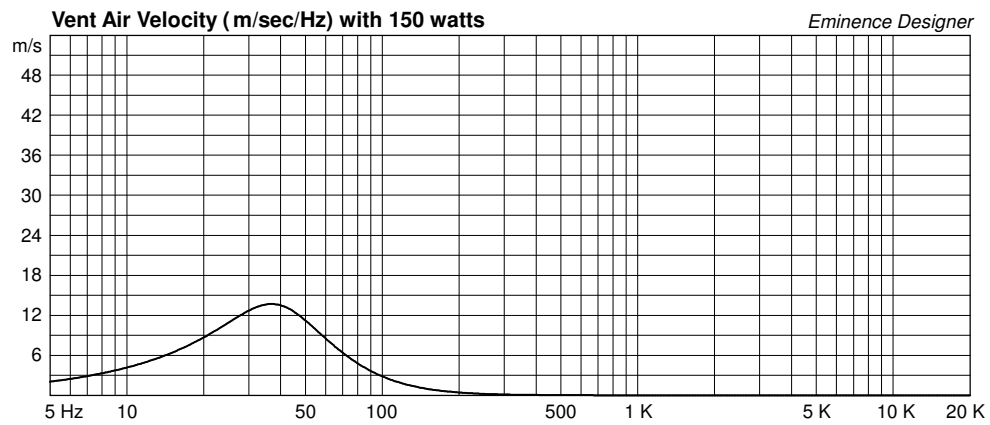
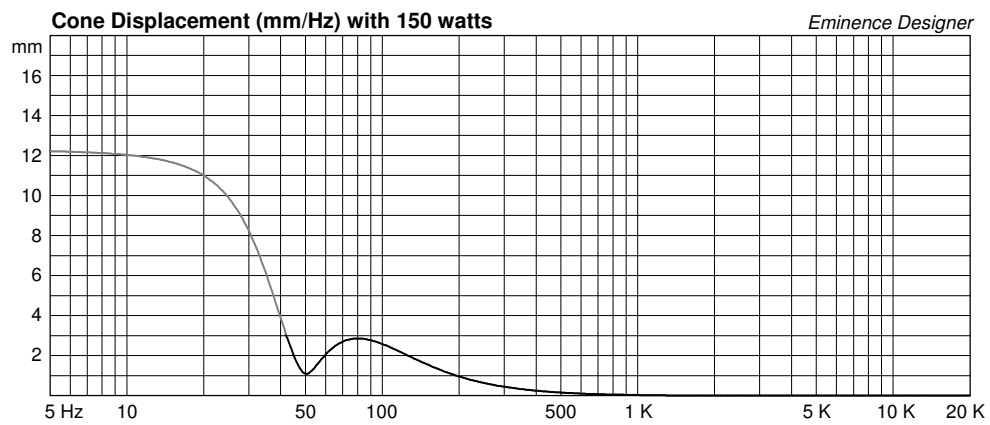
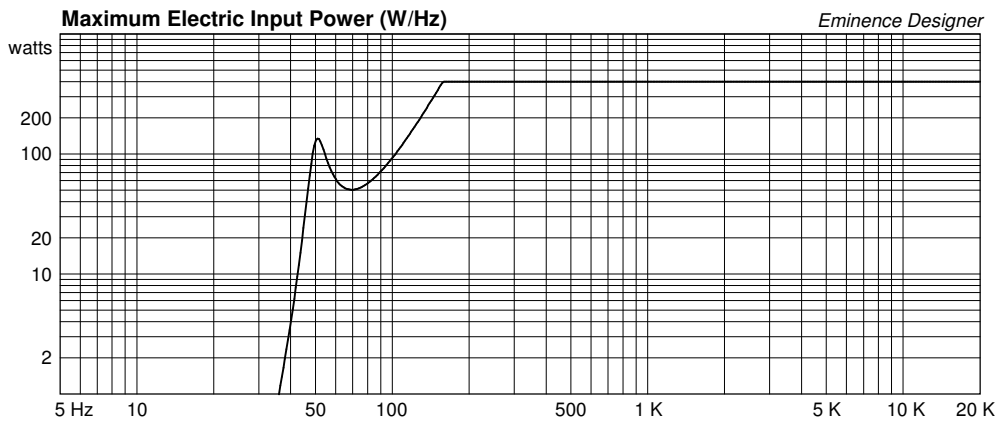
Eminence Designer

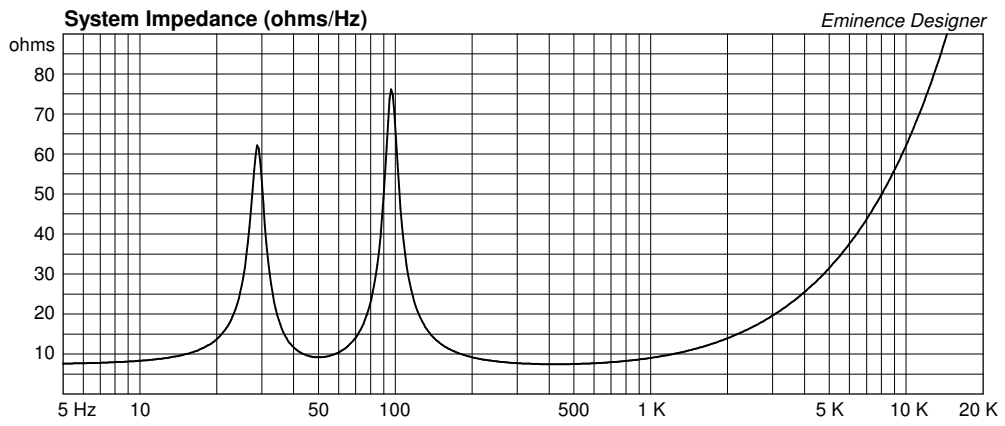


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







Legend CA10-4 Large 4x10 Bass Guitar Cab

By Jerry McNutt, Eminence Speaker LLC

300 Watts; F3 at 63 Hz. Drivers in series/parallel for a solid 4 ohm load.

Great overall 4x10 Bass Guitar Cabinet



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 5 cu.ft

V(total) = 5.667 cu.ft

Fb = 55 Hz

QL = 7

F3 = 62.54 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = rectangle

Vent ends = one flush

Hv = 12.62 in

Wv = 1.231 in

Lv = 8 in

Driver Properties

--Description--

Name: Legend CA10-4

Type: Standard one-way driver

Company: Eminence Speaker USA

Comment: Bass Guitar Driver

--Configuration--

No. of Drivers = 4

Mounting = Standard

Wiring = Series-Parallel

Drivers sum coherently = Yes

--Mechanical Parameters--

Fs = 55.38 Hz

Qms = 7.67

Vas = 45.94 liters [183.8]

Cms = 0.27 mm/N [0.0675]

Mms = 30.05 g [120.2]

Rms = 1.36 kg/s [5.44]

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 = 0.41

Re = 3.7 ohms [3.7]

Le = 0.49 mH [0.49]

Z = 4 ohms [4]

BL = 9.72 Tm [19.43]

Pe = 200 watts [800]

--Electromech. Parameters--

Qts = 0.389

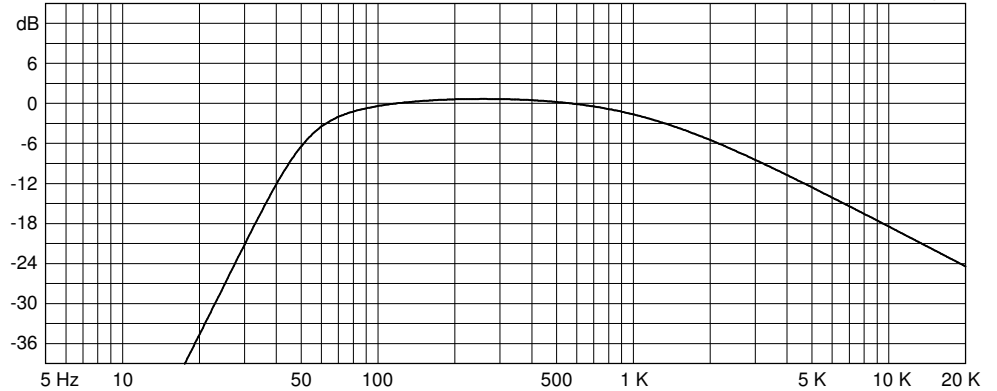
no = 1.835 % [7.34]

1-W SPL = 94.78 dB [100.8]

2.83-V SPL = 98.13 dB [104.2]

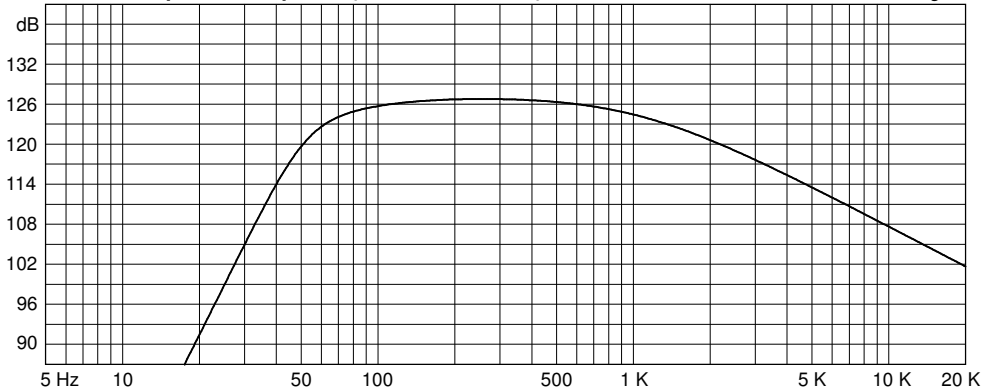
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



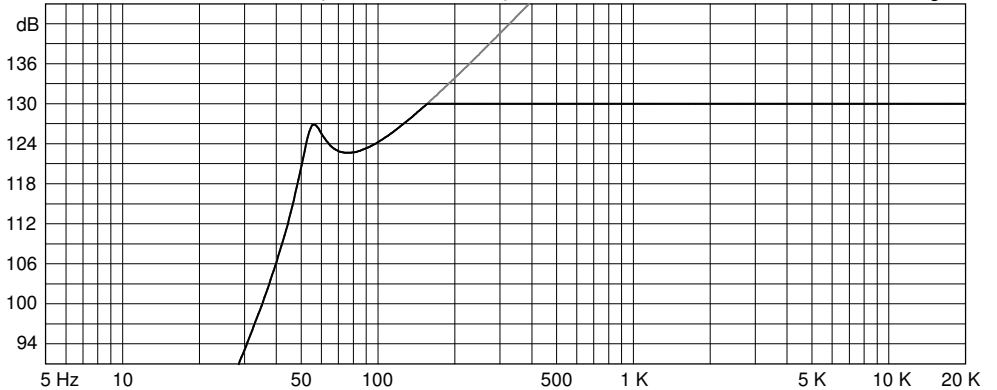
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 300 watts

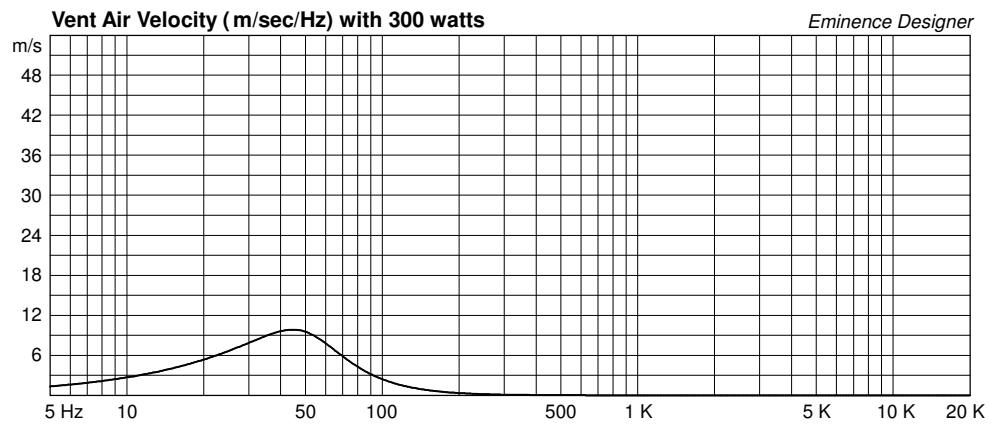
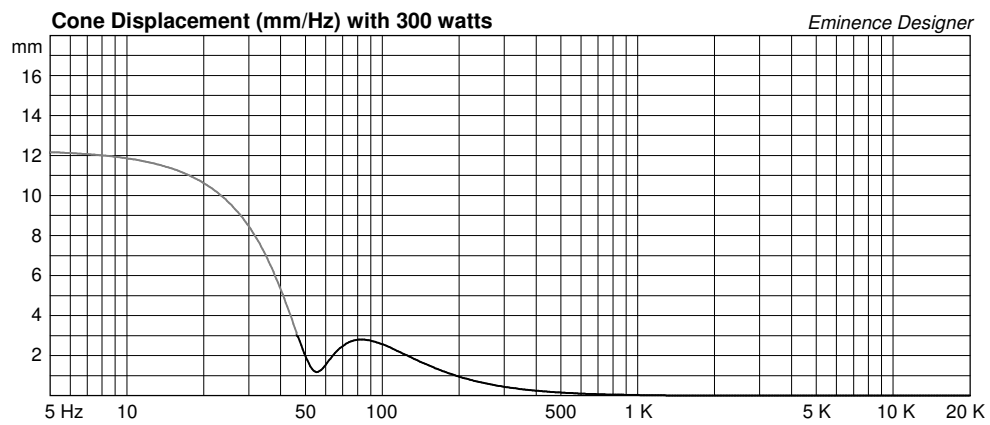
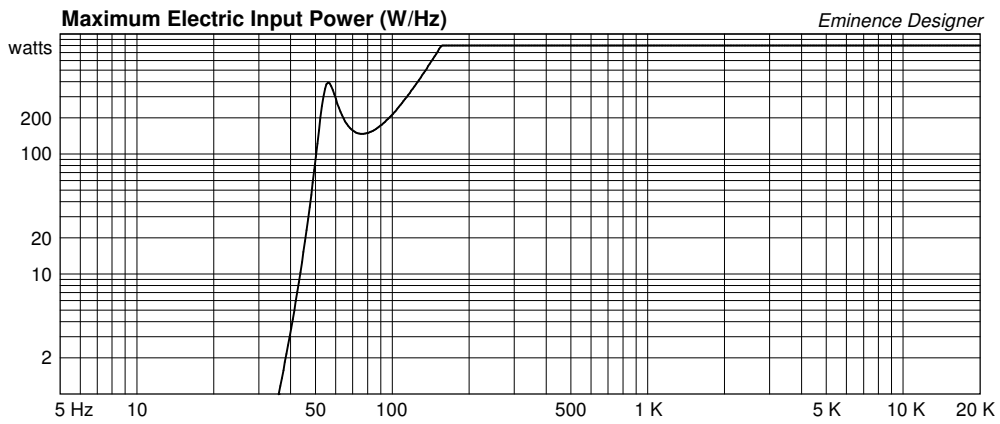
Eminence Designer

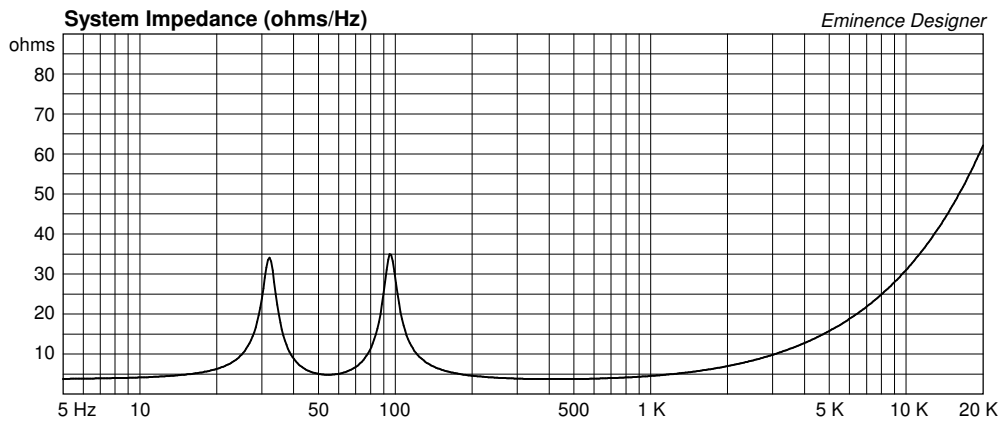


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







Legend CA10-4 Large Vented Bass Guitar

By Jerry McNutt, Eminence Speaker LLC
75 Watts; F3 at 55 Hz.
Goes low, digs deep.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 1.65 cu.ft

V(total) = 1.756 cu.ft

Fb = 54 Hz

QL = 7

F3 = 54.76 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 3.321 in

Driver Properties

--Description--

Name: Legend CA10-4

Type: Standard one-way driver

Company: Eminence Speaker USA

Comment: Bass Guitar Driver

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 55.38 Hz

Qms = 7.67

Vas = 45.94 liters

Cms = 0.27 mm/N

Mms = 30.05 g

Rms = 1.36 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 = 0.41

Re = 3.7 ohms

Le = 0.49 mH

Z = 4 ohms

BL = 9.72 Tm

Pe = 200 watts

--Electromech. Parameters--

Qts = 0.389

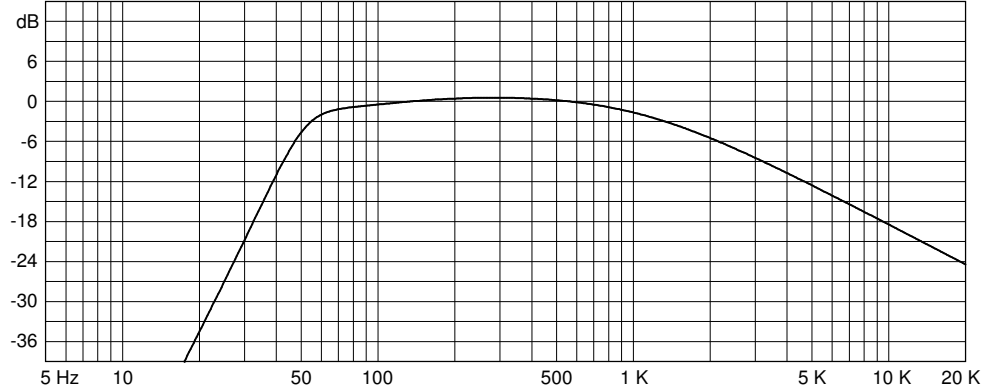
no = 1.835 %

1-W SPL = 94.78 dB

2.83-V SPL = 98.13 dB

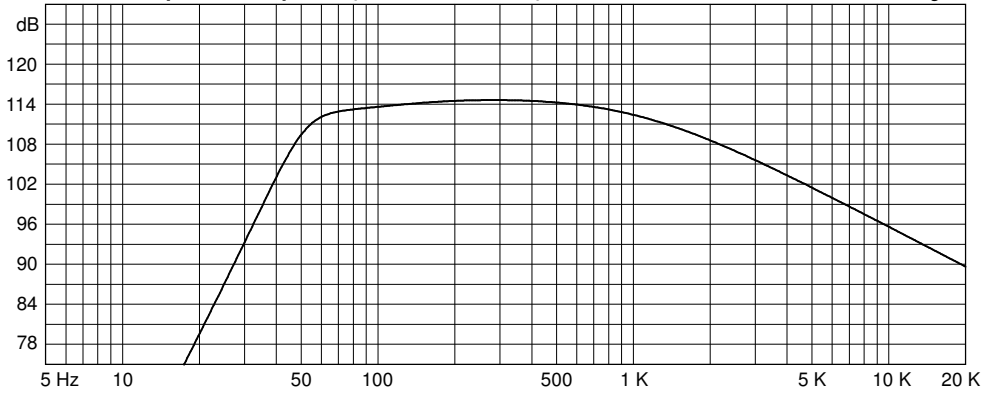
Normalized Amplitude Response (dB-SPL/Hz)

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

