

Legend BP102-4 Small Sealed Cabinet

By Jerry McNutt, Eminence Speaker LLC
Limit to 150 Watts; F3 of 83 Hz. Punchy Bass.



Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 0.508 cu.ft

V(total) = 0.508 cu.ft

Qtc = 0.817

QL = 20

F3 = 82.94 Hz

Fill = heavy

Driver Properties

--Description--

Name: Legend BP102-4

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Bass Driver, four ohm

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 34.52 Hz

Qms = 10.61

Vas = 3.709 cu.ft

Xmax = 0.244 in

Sd = 53.46 sq.in

Qes = 0.4

Re = 2.72 ohms

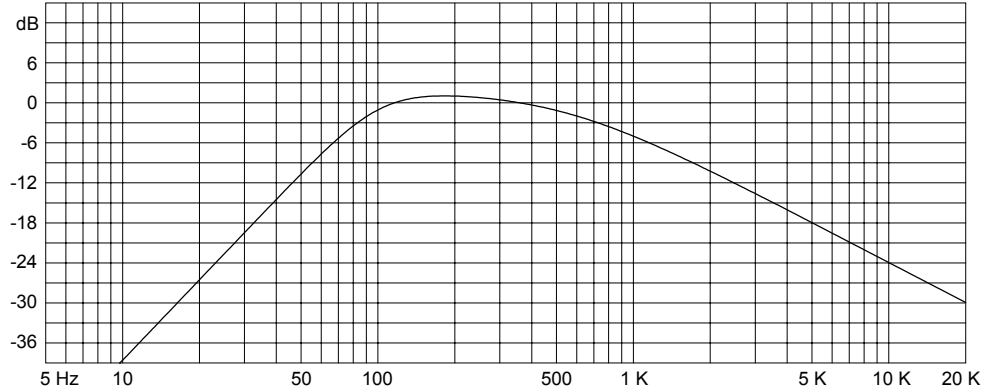
Le = 0.68 mH

Z = 4 ohms

Pe = 200 watts

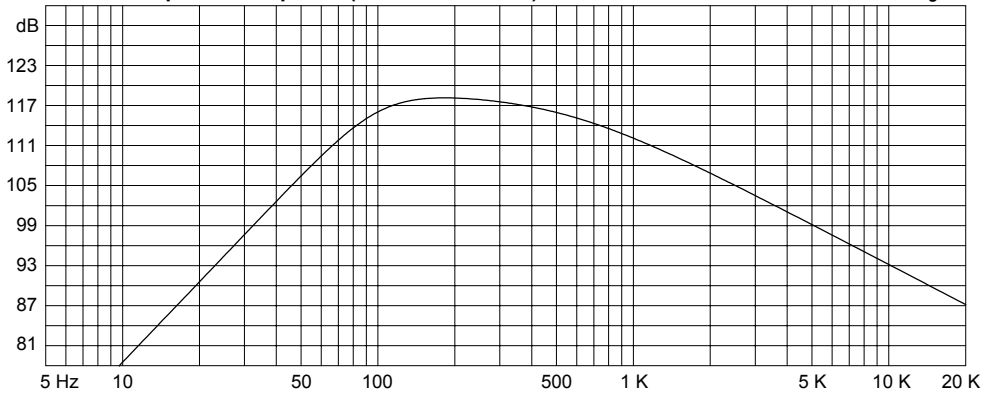
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



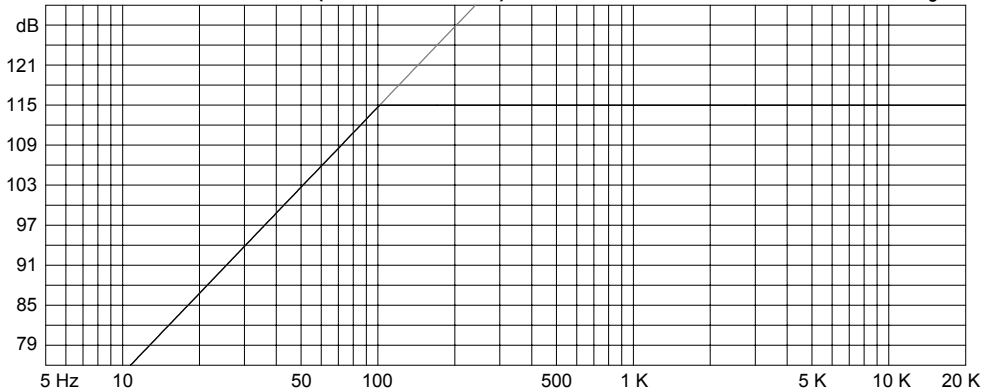
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 200 watts

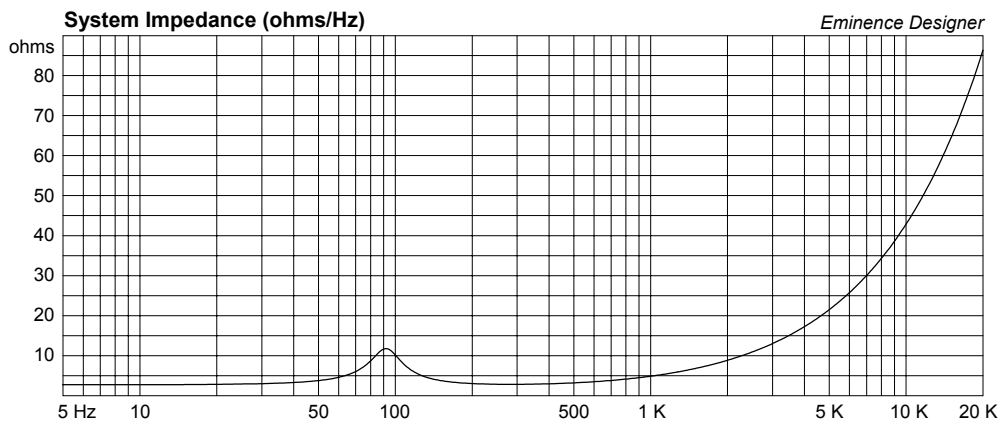
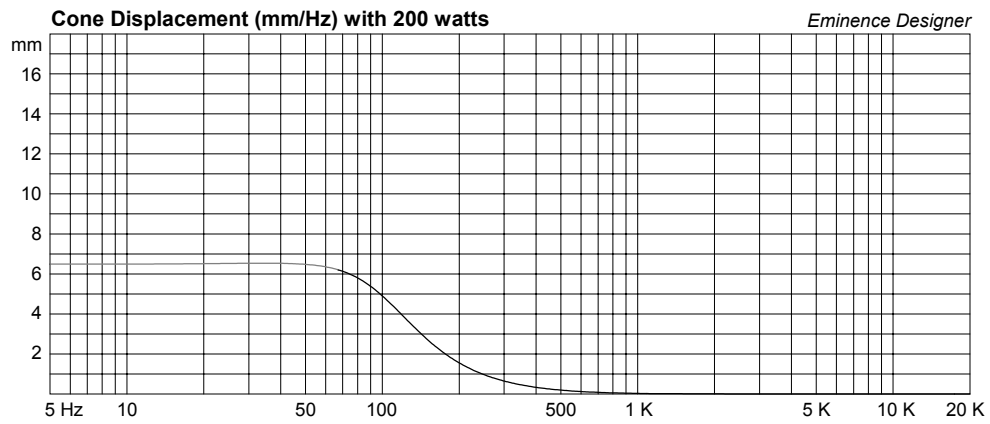
Eminence Designer



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

Eminence Designer





Custom Closed Box Design

By Jerry McNutt, Eminence Speaker LLC
400 Watts.
4 ohm cabinet.



Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 3 cu.ft

V(total) = 3.31 cu.ft

Qtc = 0.716

QL = 20

F3 = 77.41 Hz

Fill = heavy

Driver Properties

--Description--

Name: Legend BP102-4

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Bass Driver, four ohm

--Configuration--

No. of Drivers = 4

Mounting = Standard

Wiring = Series-Parallel

Drivers sum coherently = Yes

--Driver Parameters--

Fs = 34.52 Hz

Qms = 10.61

Vas = 3.709 cu.ft [14.84]

Xmax = 0.244 in

Sd = 53.46 sq.in [213.8]

Qes = 0.4

Re = 2.72 ohms [2.72]

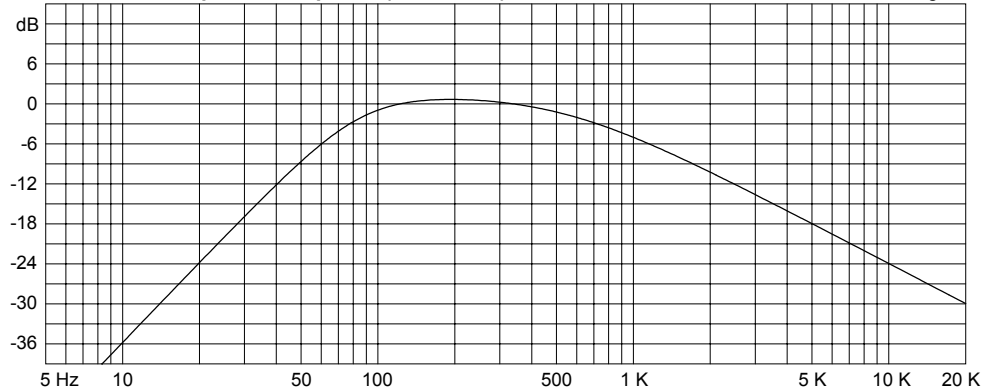
Le = 0.68 mH [0.68]

Z = 4 ohms [4]

Pe = 200 watts [800]

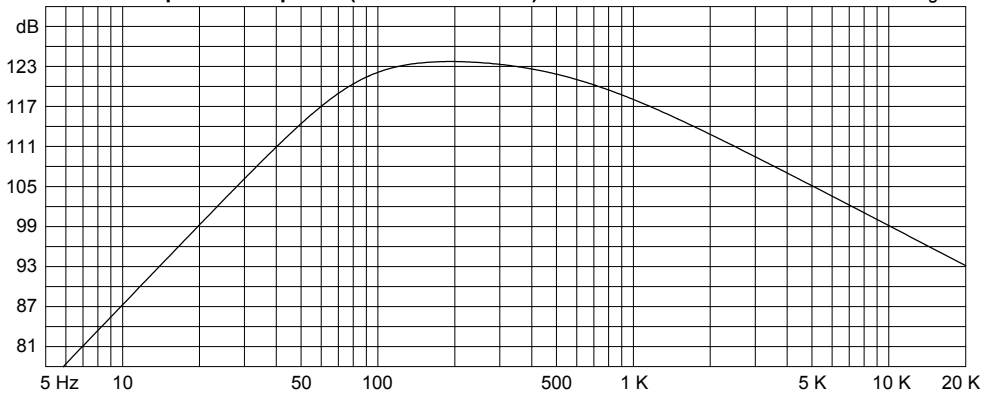
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



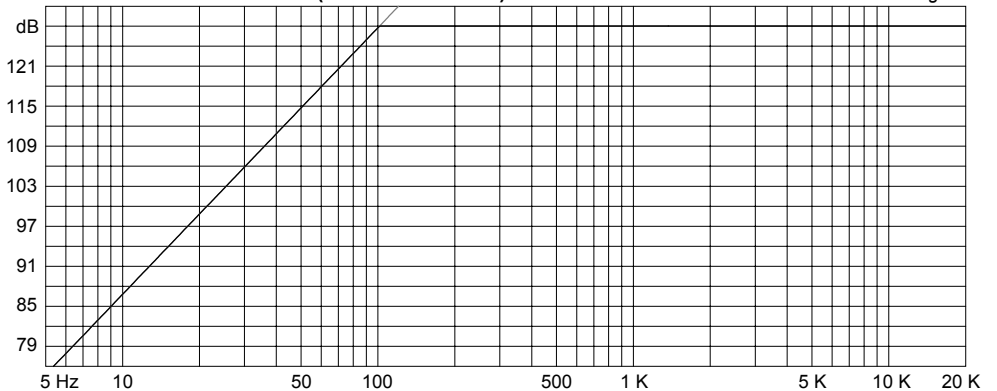
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 200 watts

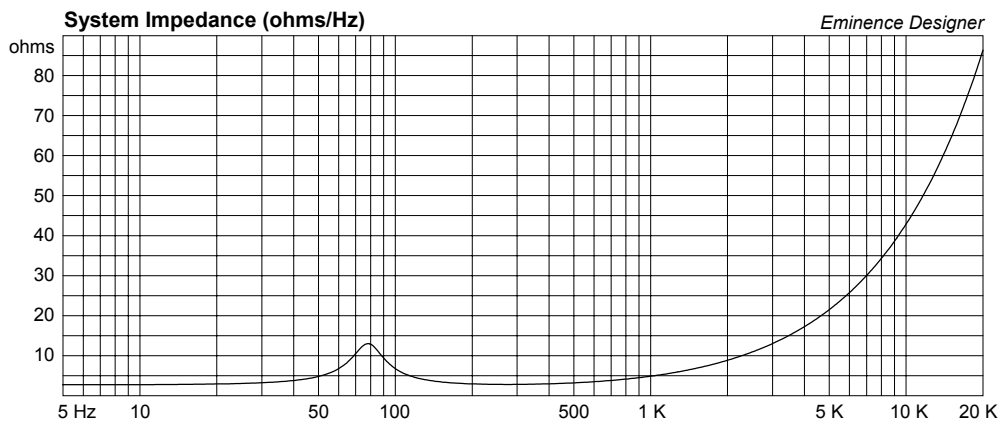
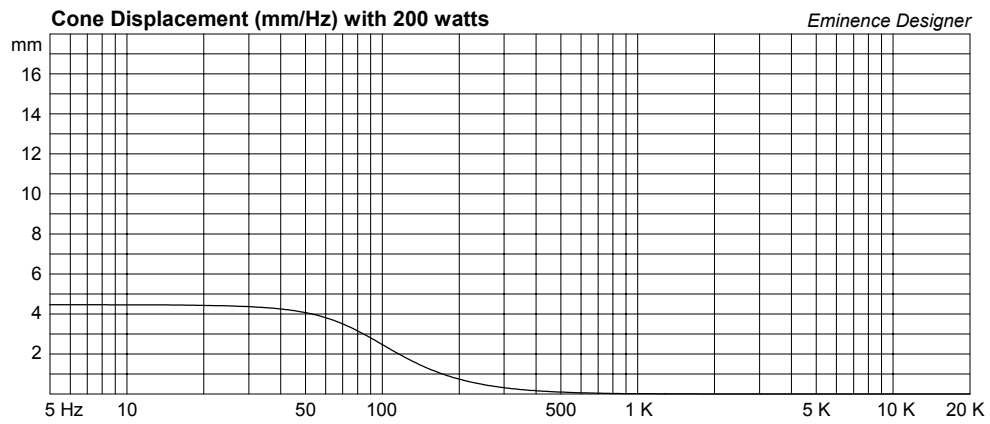
Eminence Designer



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

Eminence Designer





Custom Vented Box Design

By Jerry McNutt, Eminence Speaker LLC
200 Watts Low Clean Bass; very smooth.
8 ohm cabinet.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 4.75 cu.ft

V(total) = 5.024 cu.ft

Fb = 40 Hz

QL = 7

F3 = 40.9 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 6.185 in

Driver Properties

--Description--

Name: Legend BP102-4

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Bass Driver, four ohm

--Configuration--

No. of Drivers = 2

Mounting = Standard

Wiring = Series

Drivers sum coherently = Yes

--Driver Parameters--

Fs = 34.52 Hz

Qms = 10.61

Vas = 3.709 cu.ft [7.419]

Xmax = 0.244 in

Sd = 53.46 sq.in [106.9]

Qes = 0.4

Re = 2.72 ohms [5.44]

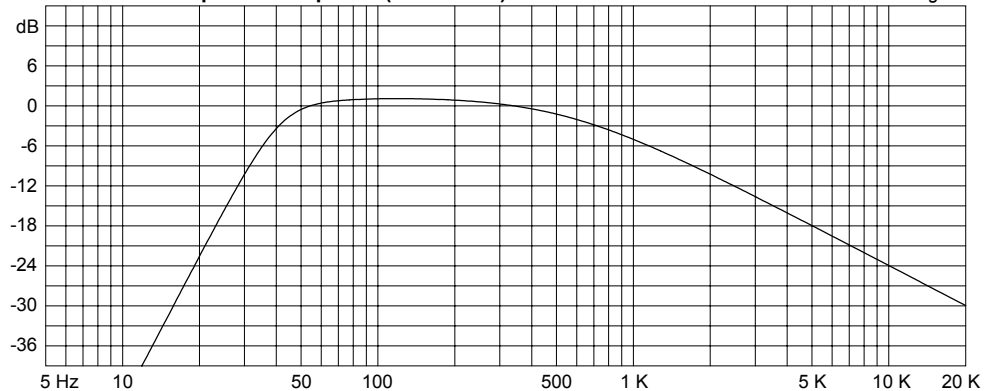
Le = 0.68 mH [1.36]

Z = 4 ohms [8]

Pe = 200 watts [400]

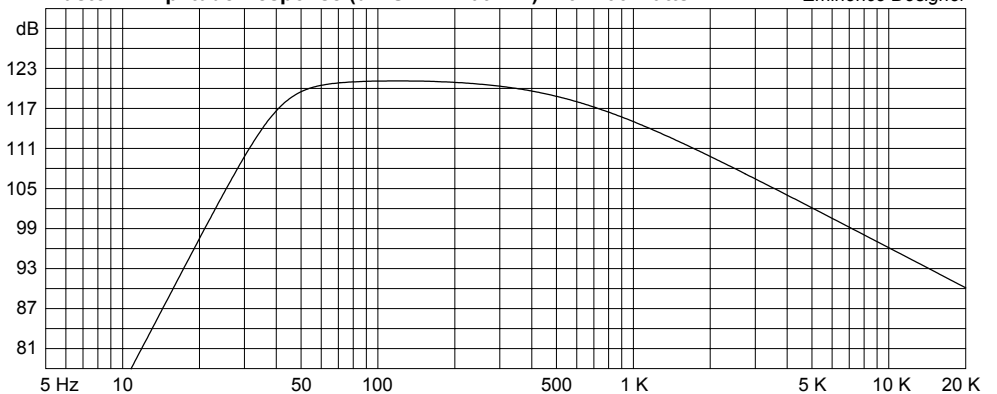
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



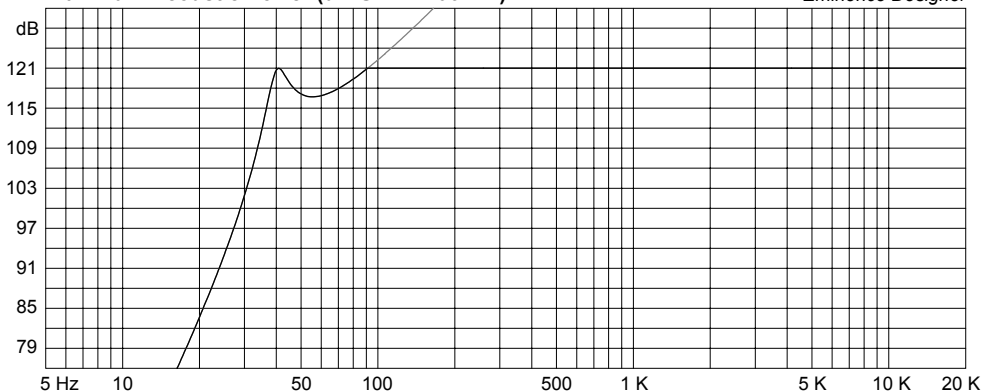
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 200 watts

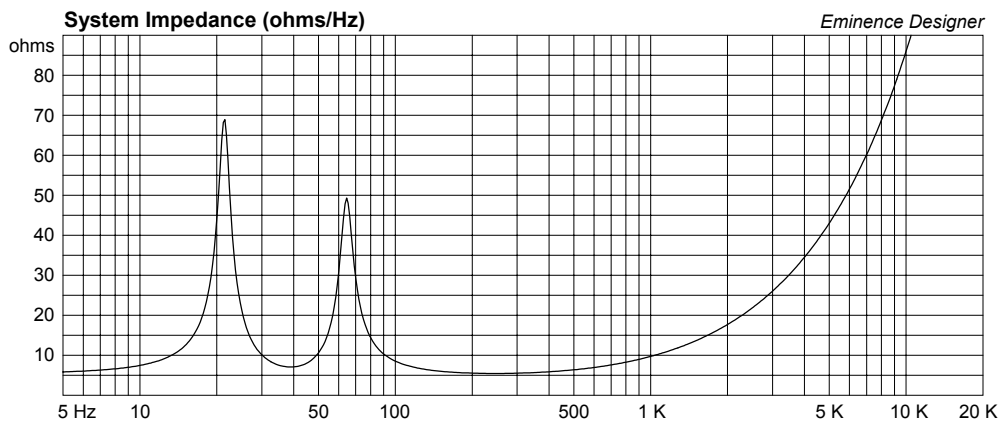
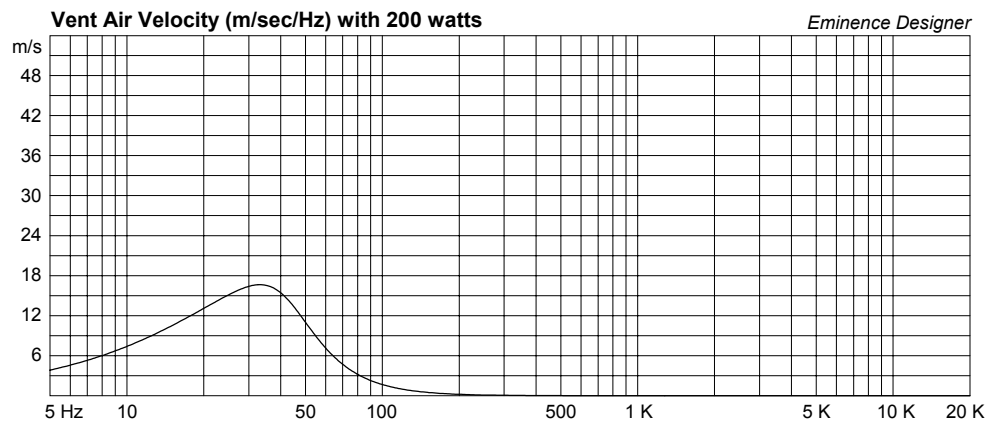
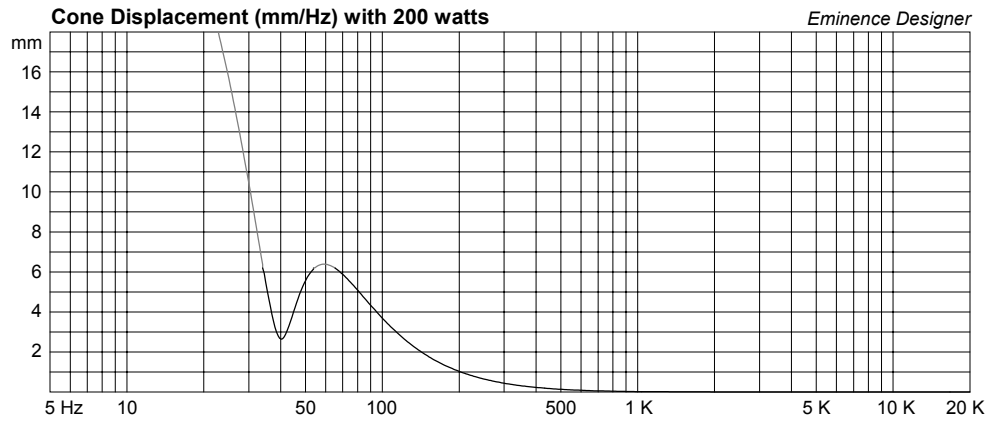
Eminence Designer



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

Eminence Designer





Custom Closed Box Design

By Jerry McNutt, Eminence Speaker LLC
150 Watts.
8 ohm cabinet.



Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 1.85 cu.ft

V(total) = 2.005 cu.ft

Qtc = 0.667

QL = 18.74

F3 = 76 Hz

Fill = heavy

Driver Properties

--Description--

Name: Legend BP102-4

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Bass Driver, four ohm

--Configuration--

No. of Drivers = 2

Mounting = Standard

Wiring = Series

Drivers sum coherently = Yes

--Driver Parameters--

Fs = 34.52 Hz

Qms = 10.61

Vas = 3.709 cu.ft [7.419]

Xmax = 0.244 in

Sd = 53.46 sq.in [106.9]

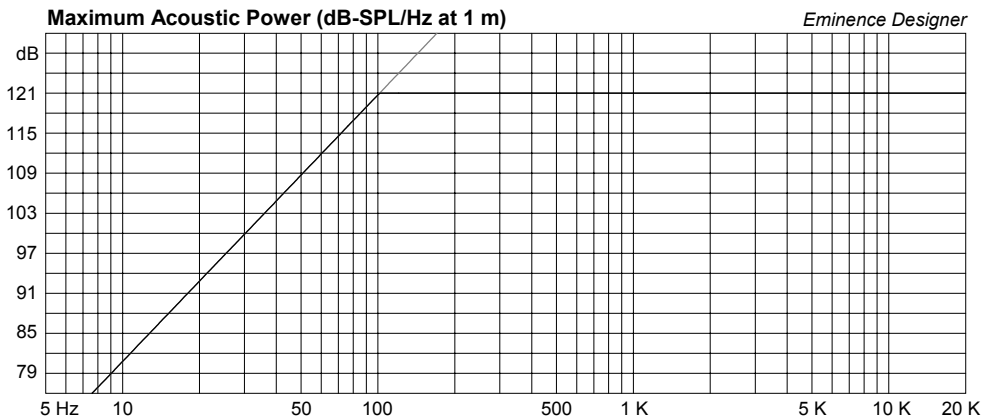
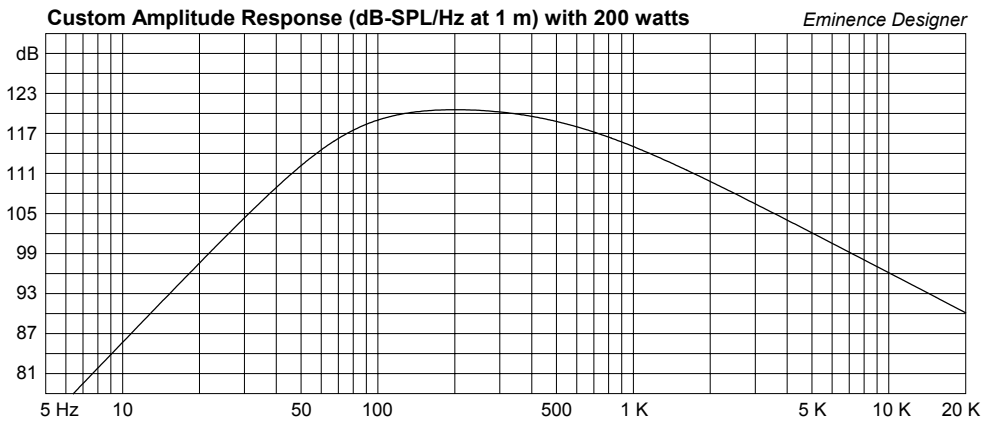
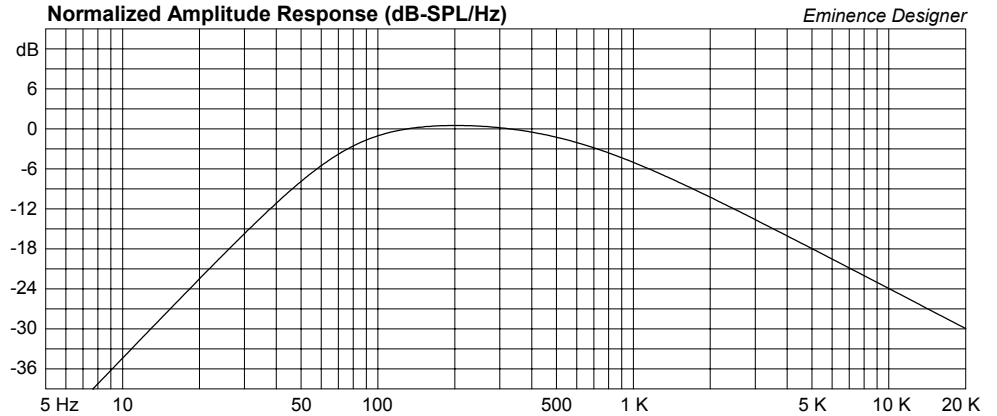
Qes = 0.4

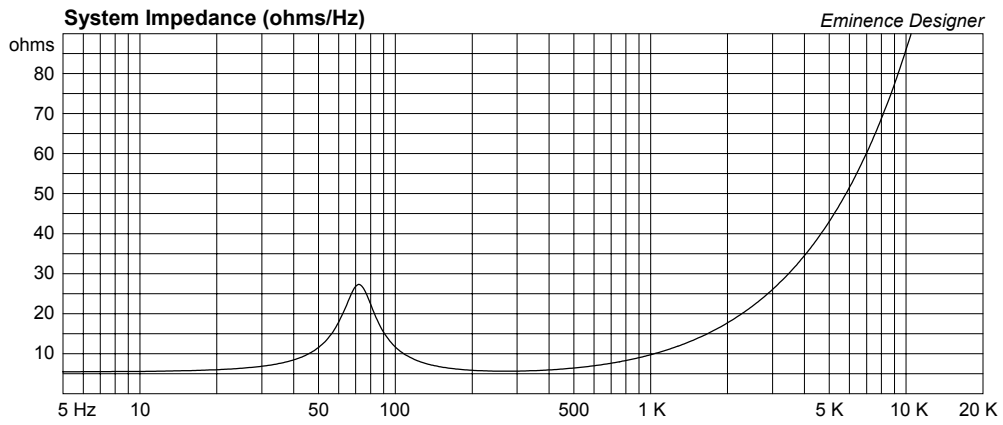
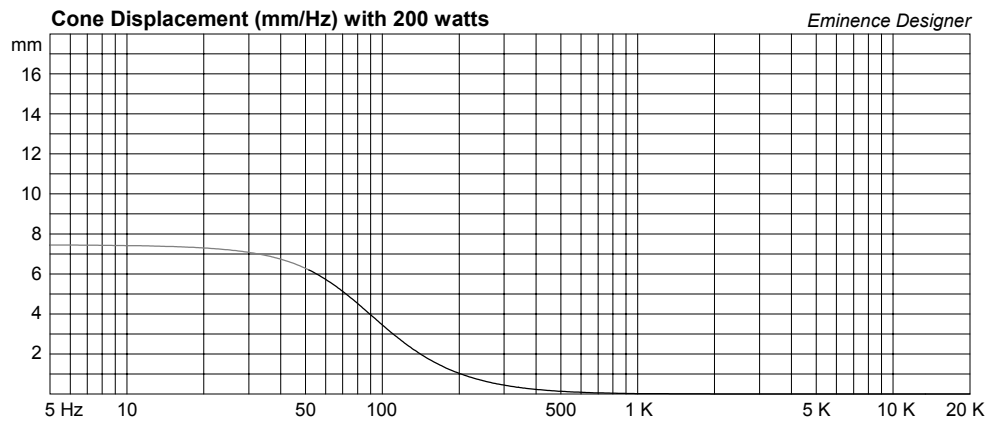
Re = 2.72 ohms [5.44]

Le = 0.68 mH [1.36]

Z = 4 ohms [8]

Pe = 200 watts [400]





Custom Vented Box Design

By Jerry McNutt, Eminence Speaker LLC
100 Watts; F3 of 40 Hz. Low Clean Bass; very smooth.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 2.55 cu.ft

V(total) = 2.682 cu.ft

Fb = 41 Hz

QL = 7

F3 = 40.11 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 5.677 in

Driver Properties

--Description--

Name: Legend BP102-4

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Bass Driver, four ohm

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 34.52 Hz

Qms = 10.61

Vas = 3.709 cu.ft

Xmax = 0.244 in

Sd = 53.46 sq.in

Qes = 0.4

Re = 2.72 ohms

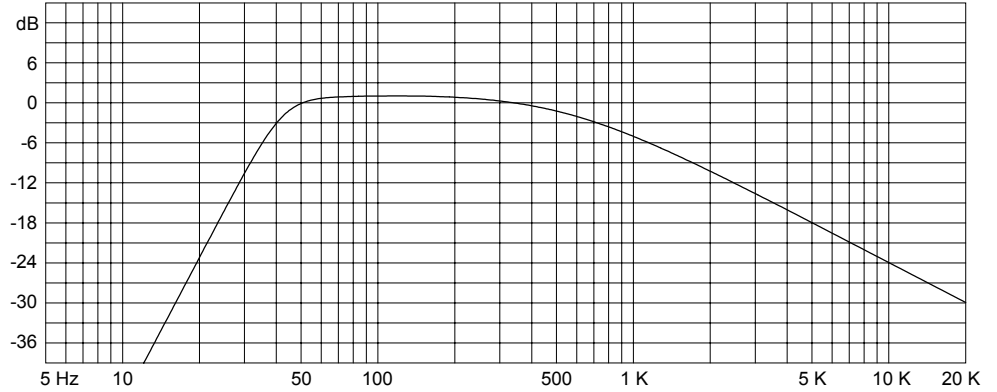
Le = 0.68 mH

Z = 4 ohms

Pe = 200 watts

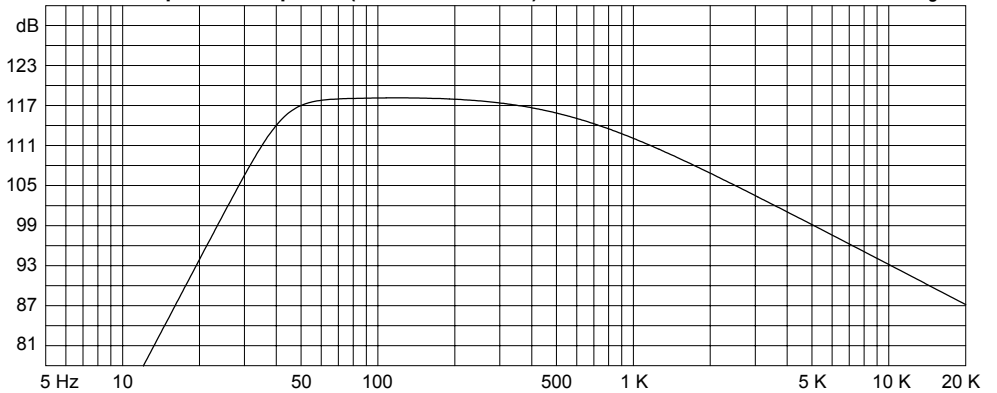
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



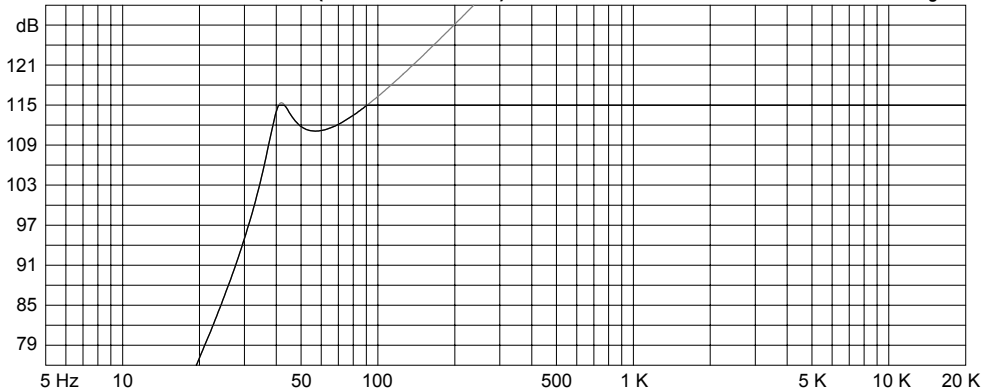
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 200 watts

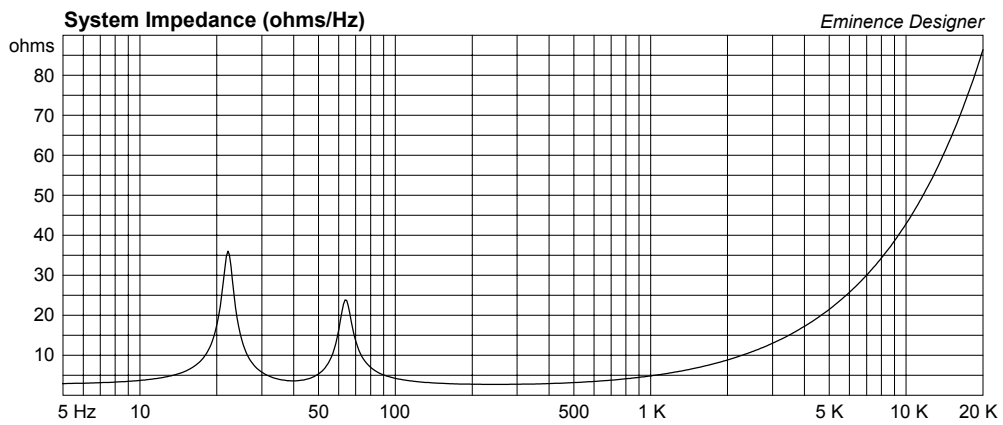
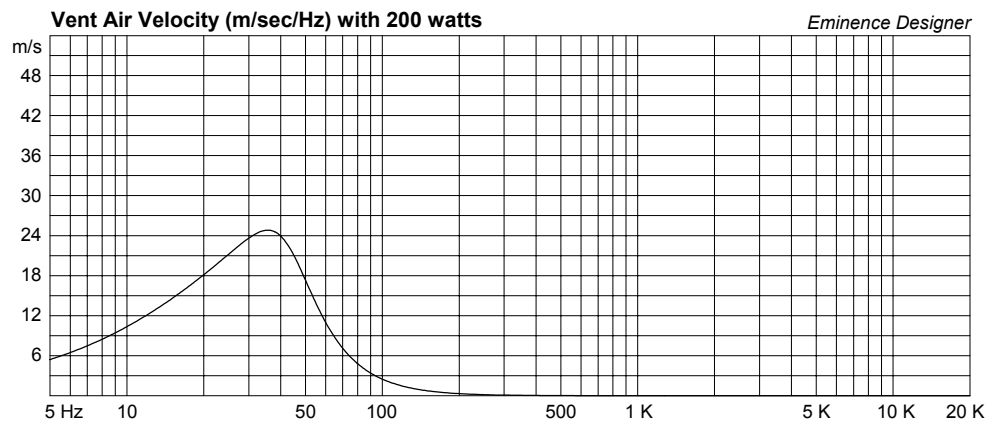
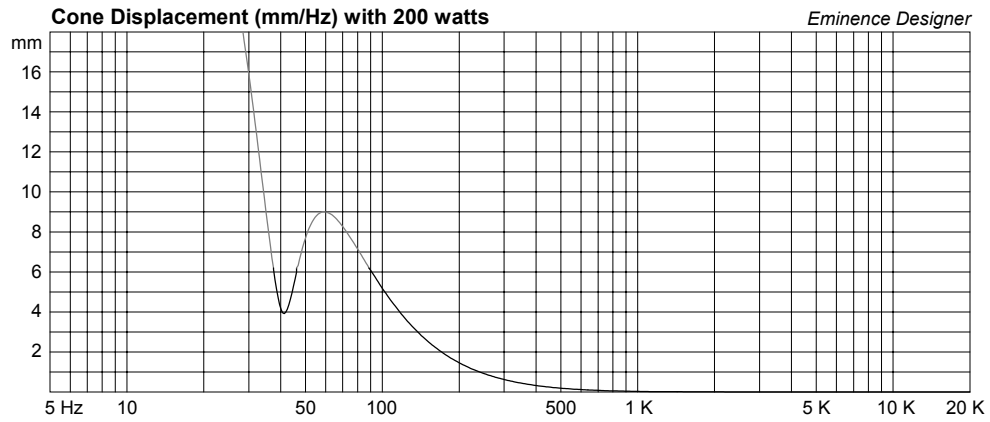
Eminence Designer



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

Eminence Designer





Custom Closed Box Design

By Jerry McNutt, Eminence Speaker LLC
Limit to 75 Watts; F3 of 76 Hz. Tight Bass.



Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 1 cu.ft

V(total) = 1 cu.ft

Qtc = 0.652

QL = 20

F3 = 76.07 Hz

Fill = heavy

Driver Properties

--Description--

Name: Legend BP102-4

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Bass Driver, four ohm

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 34.52 Hz

Qms = 10.61

Vas = 3.709 cu.ft

Xmax = 0.244 in

Sd = 53.46 sq.in

Qes = 0.4

Re = 2.72 ohms

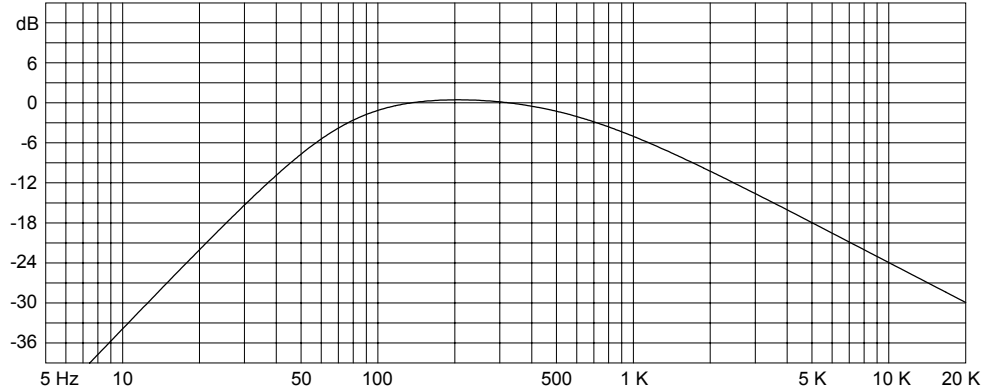
Le = 0.68 mH

Z = 4 ohms

Pe = 200 watts

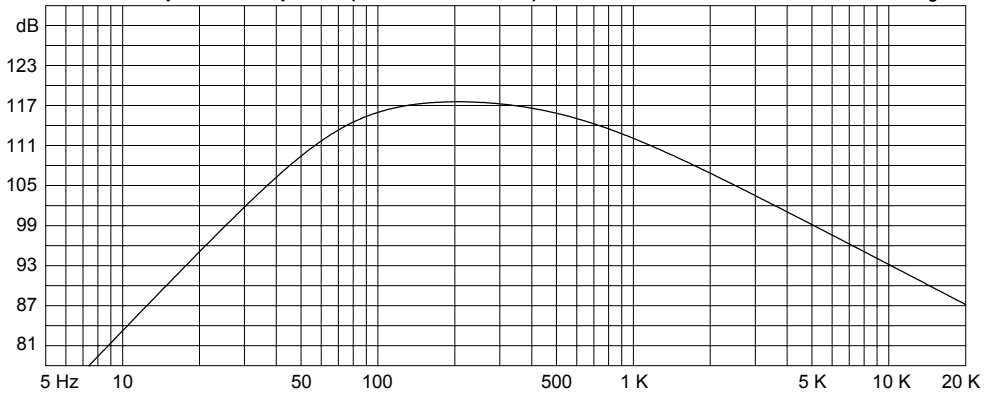
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



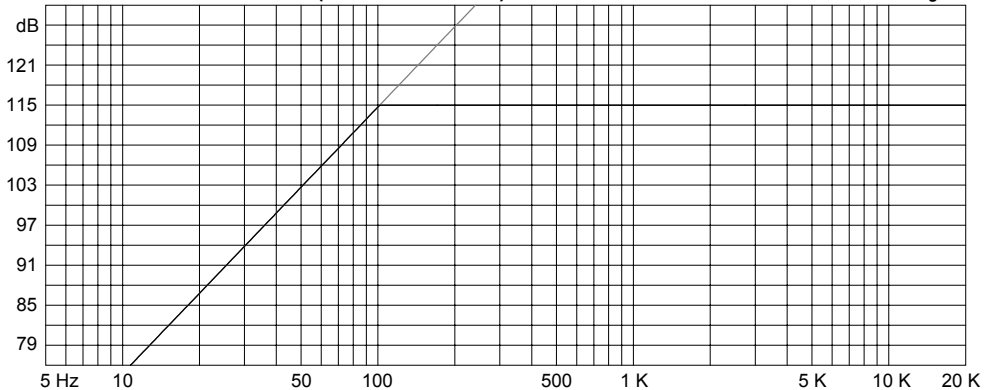
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 200 watts

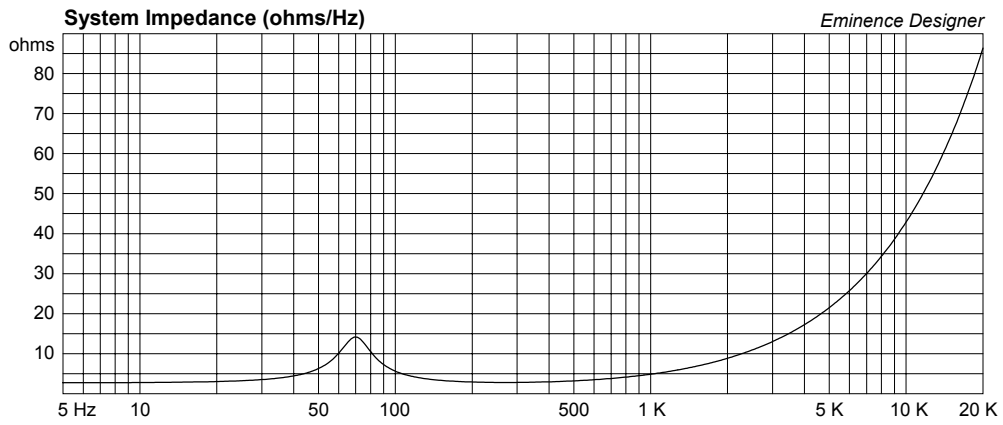
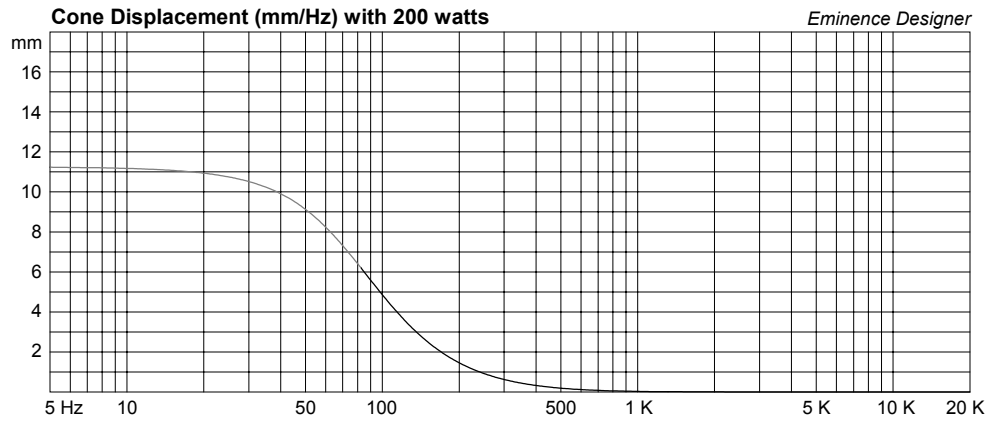
Eminence Designer



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

Eminence Designer





Custom Vented Box Design

By Jerry McNutt, Eminence Speaker LLC
200 Watts; F3 of 65 Hz. Hard Hitting Bass; lots of impact.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 0.76 cu.ft

V(total) = 0.873 cu.ft

Fb = 50 Hz

QL = 7

F3 = 65.15 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 7.431 in

Driver Properties

--Description--

Name: Legend BP102-4

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Bass Driver, four ohm

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 34.52 Hz

Qms = 10.61

Vas = 3.709 cu.ft

Xmax = 0.244 in

Sd = 53.46 sq.in

Qes = 0.4

Re = 2.72 ohms

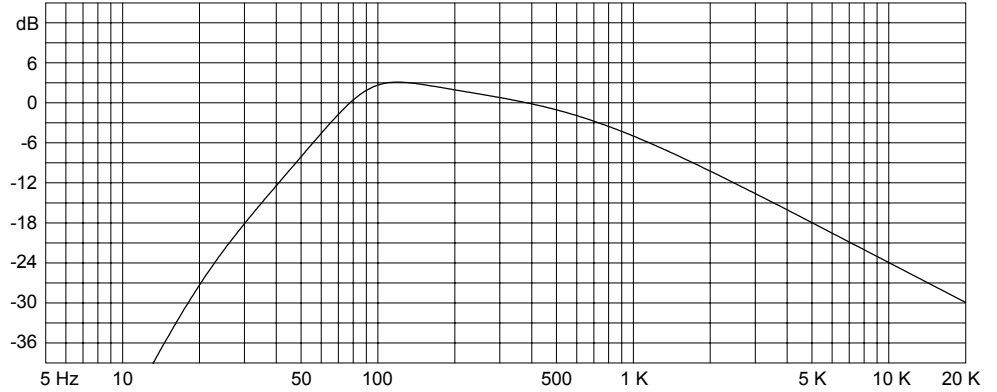
Le = 0.68 mH

Z = 4 ohms

Pe = 200 watts

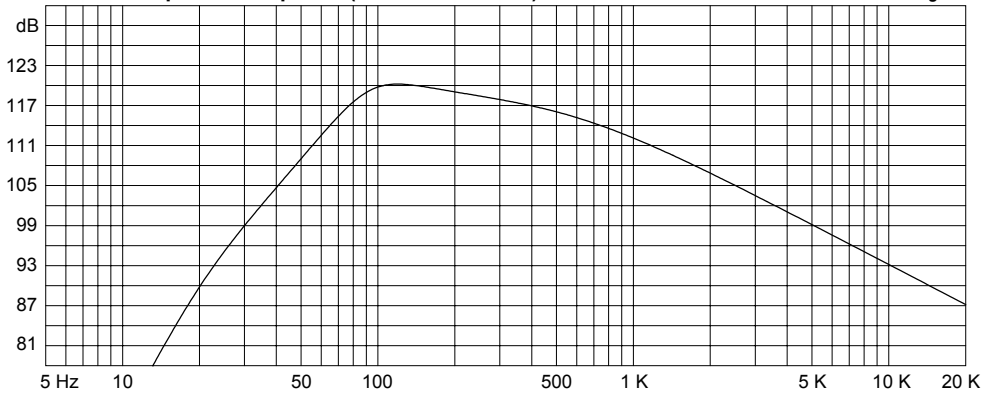
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



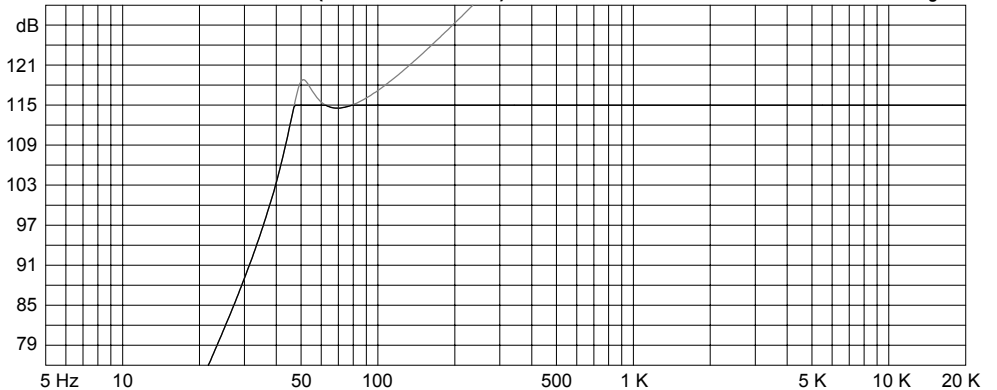
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 200 watts

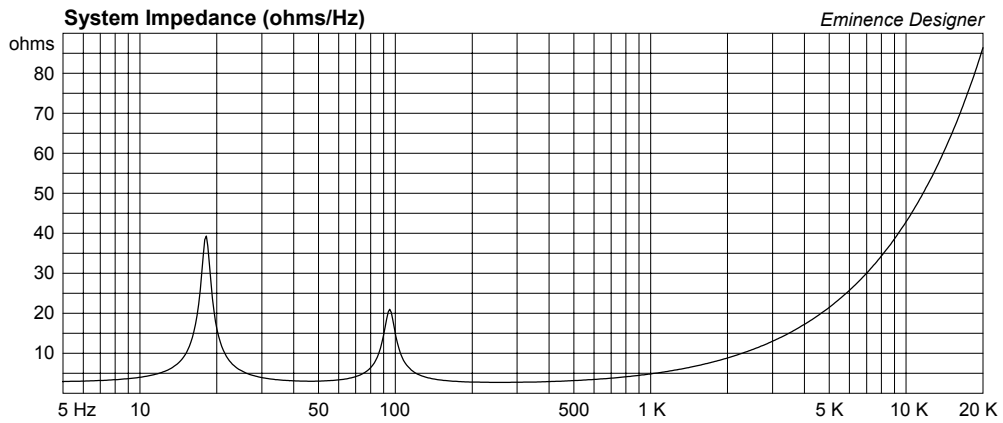
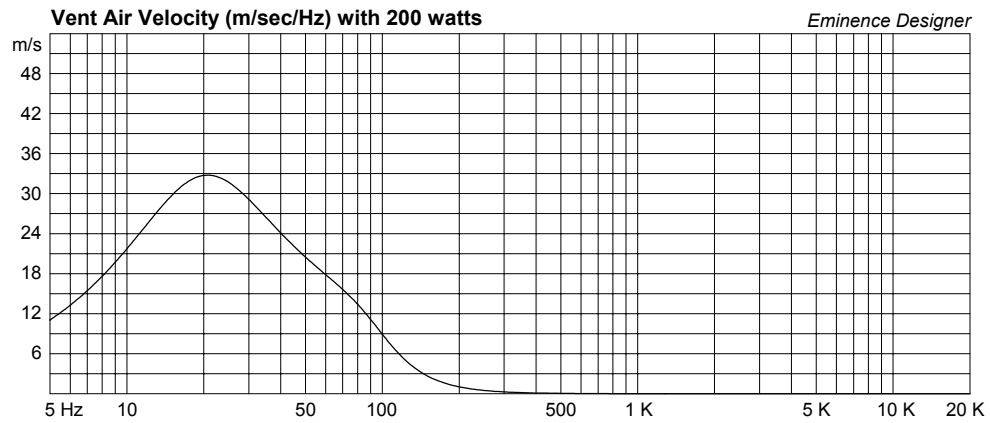
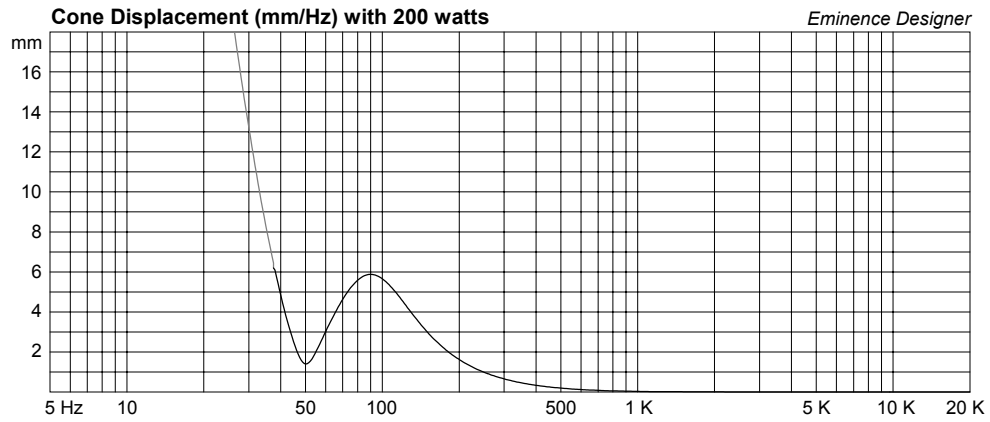
Eminence Designer



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

Eminence Designer





Custom Vented Box Design

By Jerry McNutt, Eminence Speaker LLC
600 Watts.
4 ohm cabinet.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 4.5 cu.ft

V(total) = 5.165 cu.ft

Fb = 43.62 Hz

QL = 7

F3 = 55.75 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 10.8 in

Driver Properties

--Description--

Name: Legend BP102-4

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Bass Driver, four ohm

--Configuration--

No. of Drivers = 4

Mounting = Standard

Wiring = Series-Parallel

Drivers sum coherently = Yes

--Driver Parameters--

Fs = 34.52 Hz

Qms = 10.61

Vas = 3.709 cu.ft [14.84]

Xmax = 0.244 in

Sd = 53.46 sq.in [213.8]

Qes = 0.4

Re = 2.72 ohms [2.72]

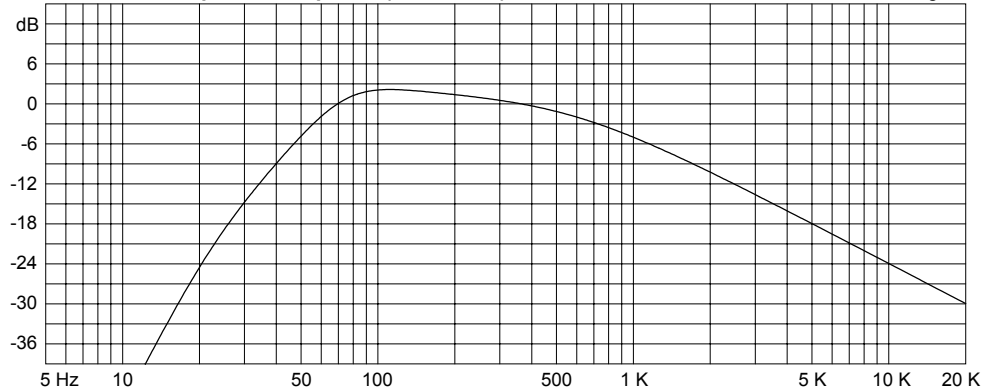
Le = 0.68 mH [0.68]

Z = 4 ohms [4]

Pe = 200 watts [800]

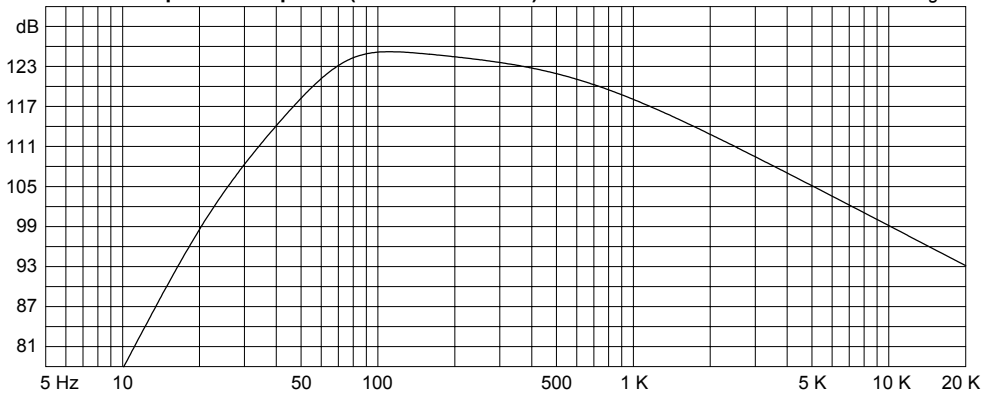
Normalized Amplitude Response (dB-SPL/Hz)

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

