

Custom Vented Box Design

By Jerry McNutt, Eminence Speaker LLC
Limit to 500 Watts; F3 of 63 Hz. Use steep high pass at 40 Hz.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 2.7 cu.ft

V(total) = 3.036 cu.ft

Fb = 55 Hz

QL = 7

F3 = 62.92 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 3.869 in

Driver Properties

--Description--

Name: Delta Pro-18A

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: 18" Sub Woofer

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 28.03 Hz

Qms = 10.38

Vas = 17.62 cu.ft

Xmax = 0.264 in

Sd = 184.1 sq.in

Qes = 0.33

Re = 5.3 ohms

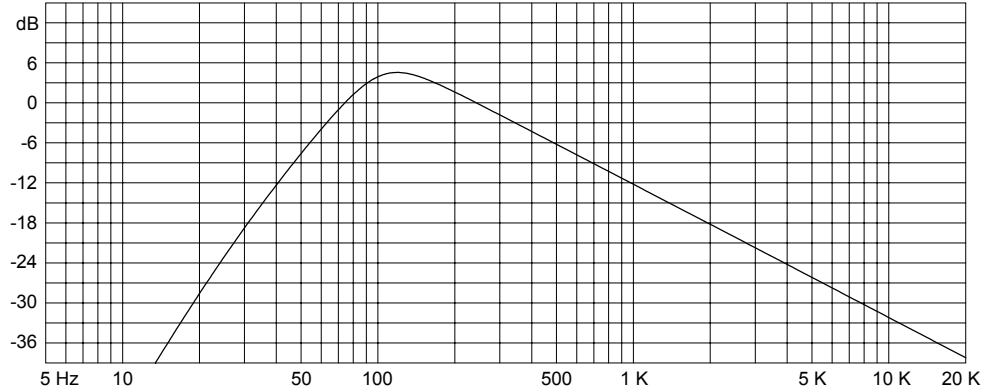
Le = 3.43 mH

Z = 8 ohms

Pe = 500 watts

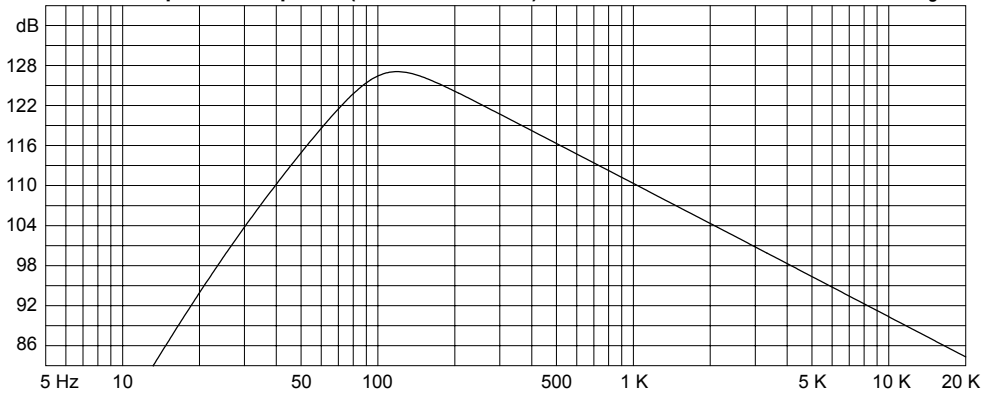
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



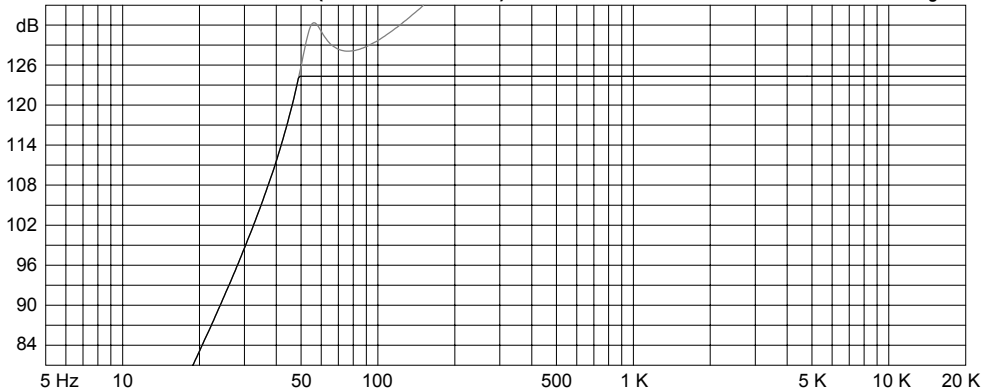
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 225 watts

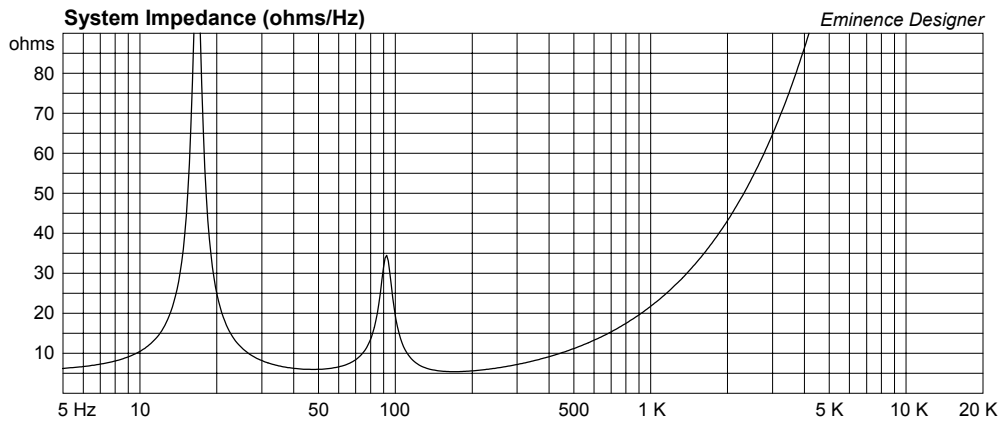
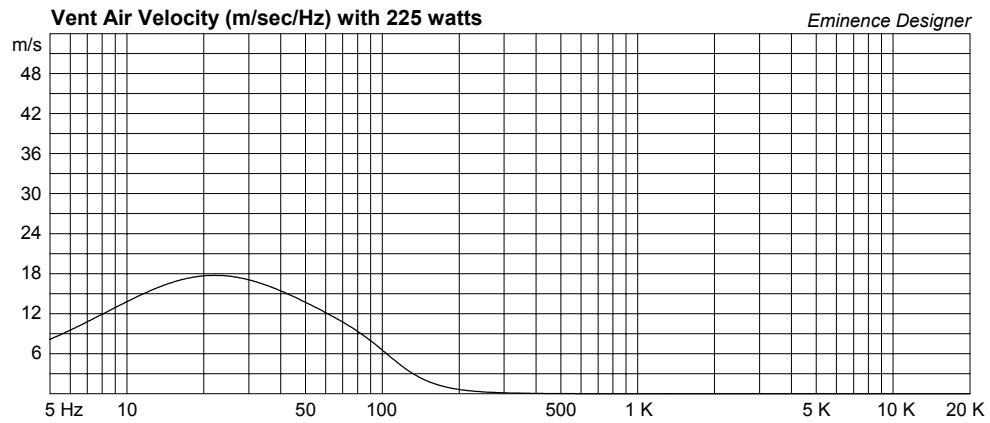
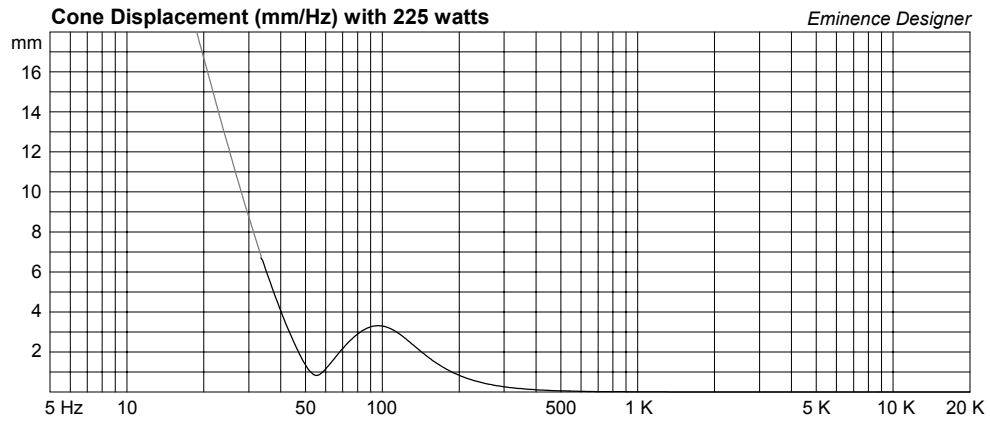
Eminence Designer



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

Eminence Designer





Custom Vented Box Design

By Jerry McNutt, Eminence Speaker LLC

Limit to 250 Watts; F3 of 36 Hz. Use a steep high pass at 30 Hz.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 10 cu.ft

V(total) = 10.45 cu.ft

Fb = 35 Hz

QL = 7

F3 = 36.01 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 5.845 in

Driver Properties

--Description--

Name: Delta Pro-18A

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: 18" Sub Woofer

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 28.03 Hz

Qms = 10.38

Vas = 17.62 cu.ft

Xmax = 0.264 in

Sd = 184.1 sq.in

Qes = 0.33

Re = 5.3 ohms

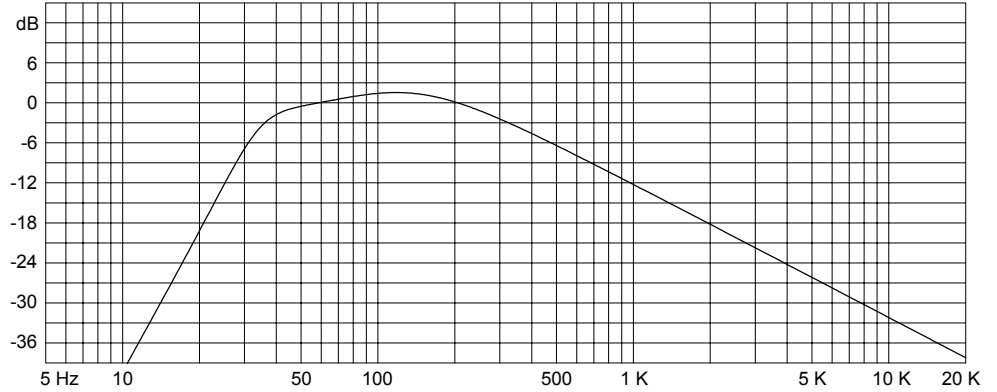
Le = 3.43 mH

Z = 8 ohms

Pe = 500 watts

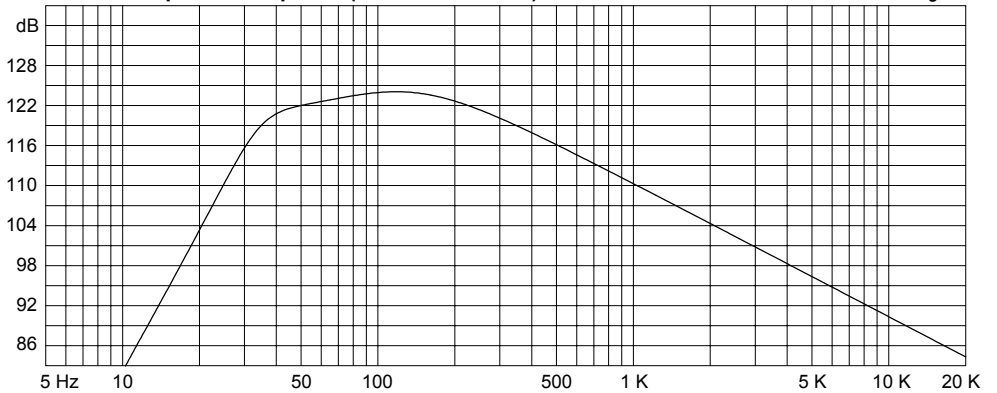
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



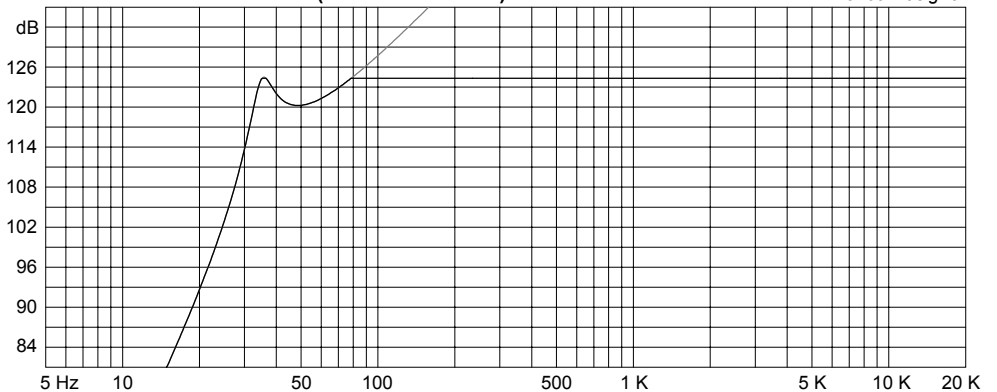
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 225 watts

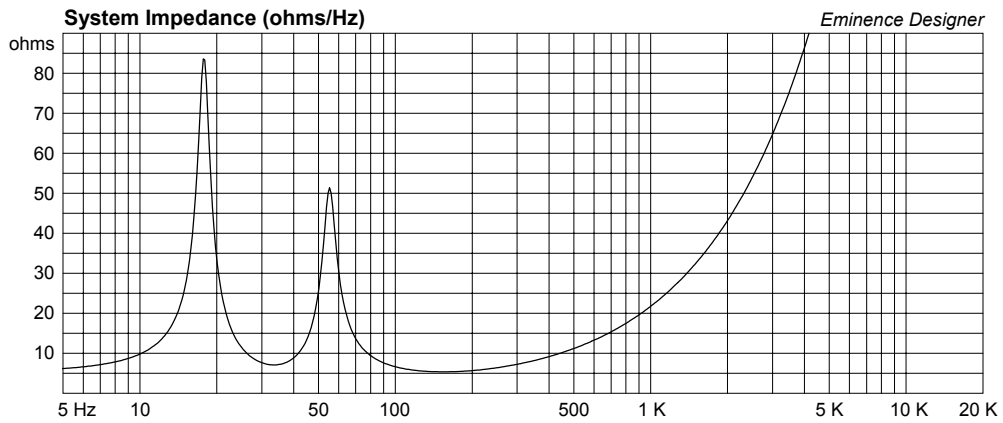
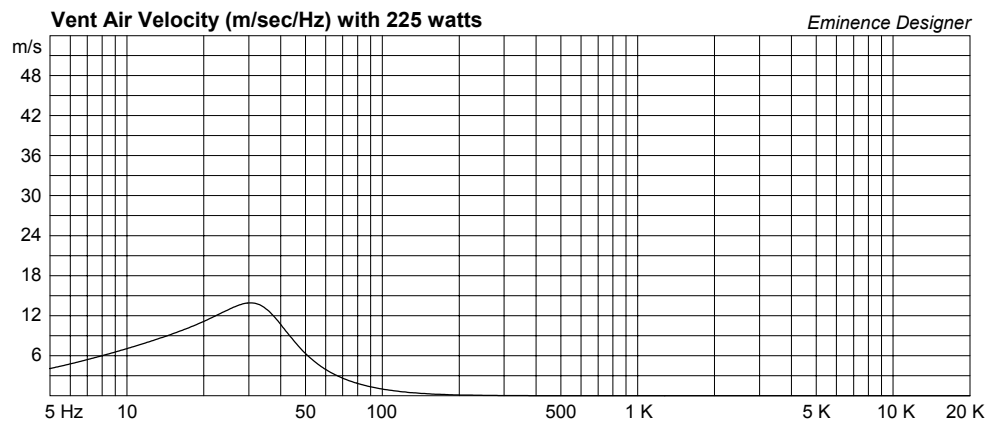
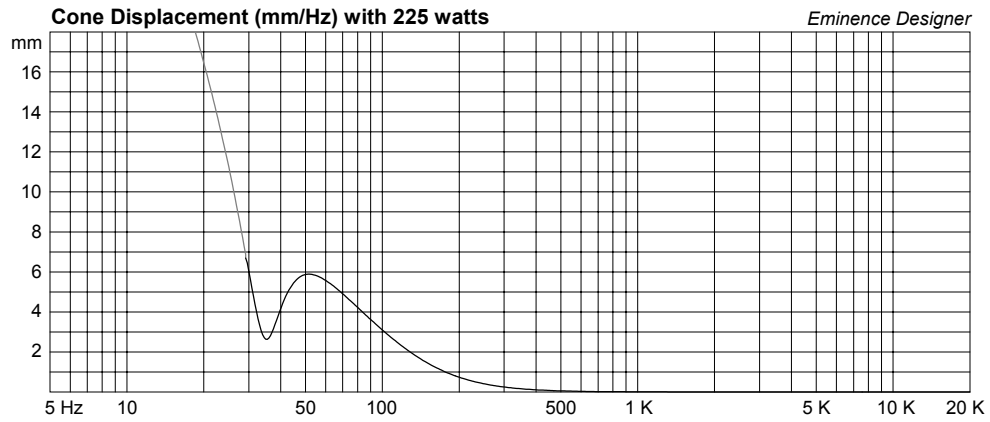
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Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer





Custom Vented Box Design

By Jerry McNutt, Eminence Speaker LLC

Limit to 500 Watts; F3 of 48 Hz. Use a steep high pass at 35 Hz.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 5 cu.ft

V(total) = 5.339 cu.ft

Fb = 45 Hz

QL = 7

F3 = 48.28 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 3.585 in

Driver Properties

--Description--

Name: Delta Pro-18A

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: 18" Sub Woofer

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 28.03 Hz

Qms = 10.38

Vas = 17.62 cu.ft

Xmax = 0.264 in

Sd = 184.1 sq.in

Qes = 0.33

Re = 5.3 ohms

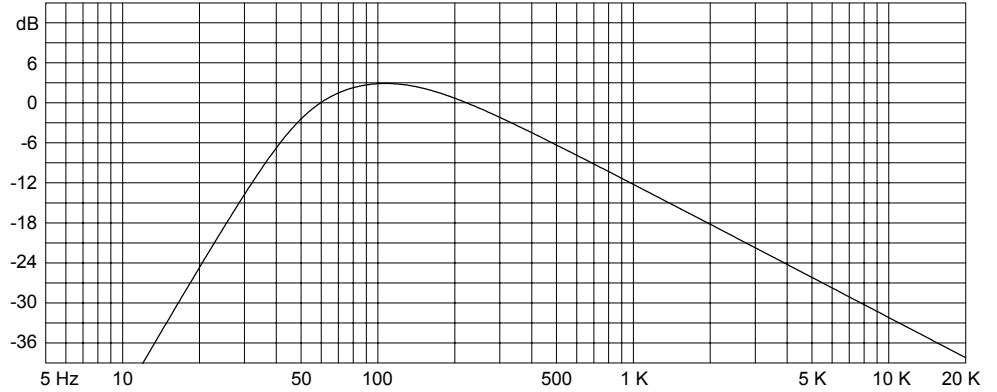
Le = 3.43 mH

Z = 8 ohms

Pe = 500 watts

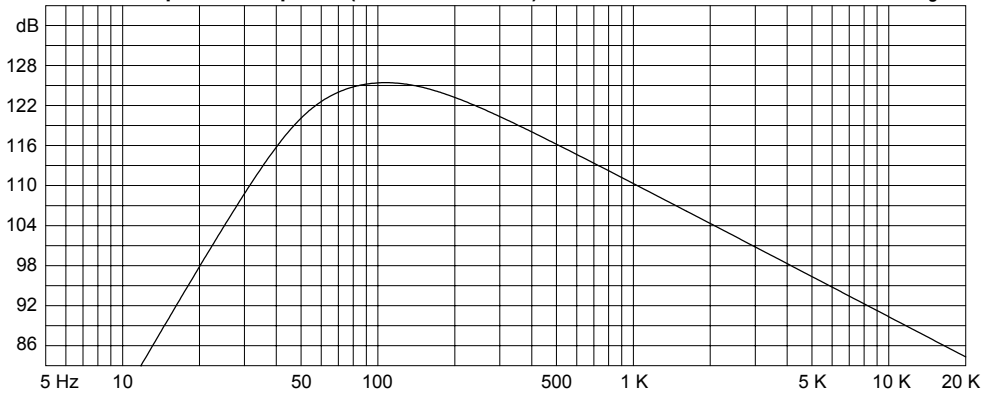
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



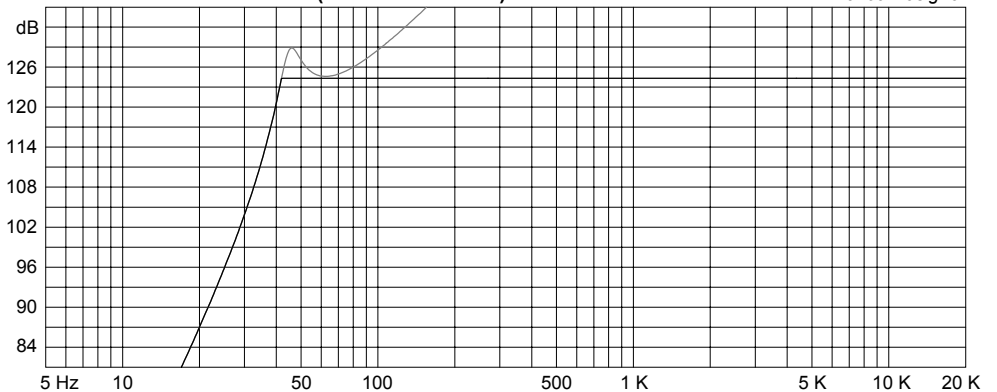
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 225 watts

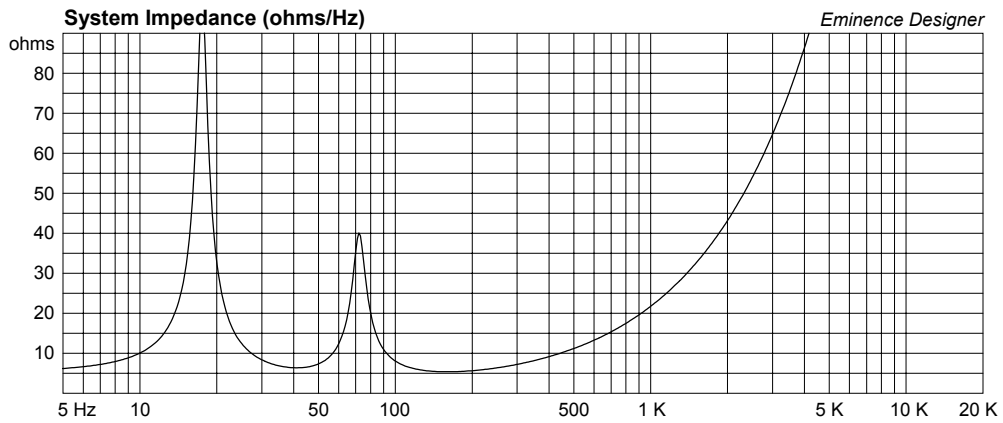
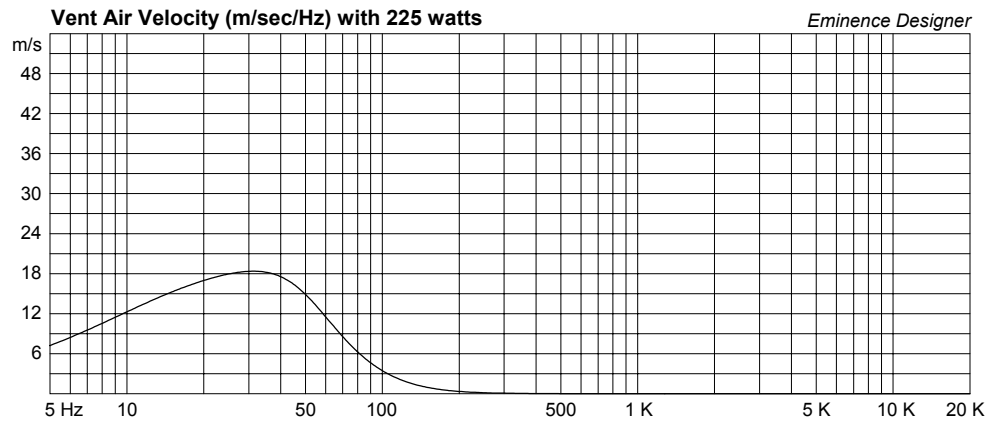
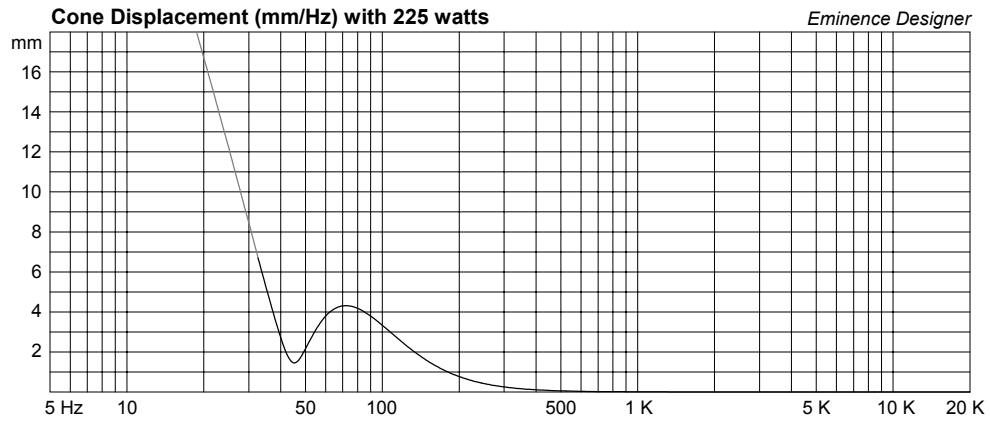
Eminence Designer



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

Eminence Designer





Custom Vented Box Design

By Jerry McNutt, Eminence Speaker LLC
Limit to 500 Watts; F3 of 45 Hz. Use steep high pass at 35 Hz.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 6 cu.ft

V(total) = 6.309 cu.ft

Fb = 46 Hz

QL = 7

F3 = 45.31 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 2 in

Driver Properties

--Description--

Name: Delta Pro-18A

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: 18" Sub Woofer

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 28.03 Hz

Qms = 10.38

Vas = 17.62 cu.ft

Xmax = 0.264 in

Sd = 184.1 sq.in

Qes = 0.33

Re = 5.3 ohms

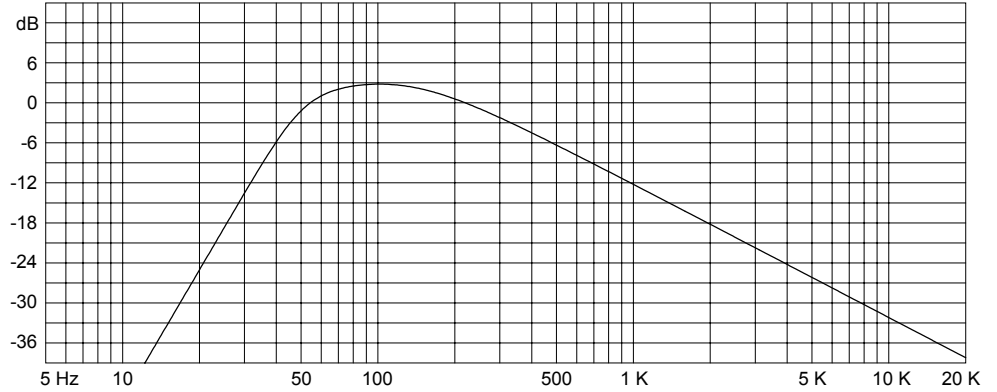
Le = 3.43 mH

Z = 8 ohms

Pe = 500 watts

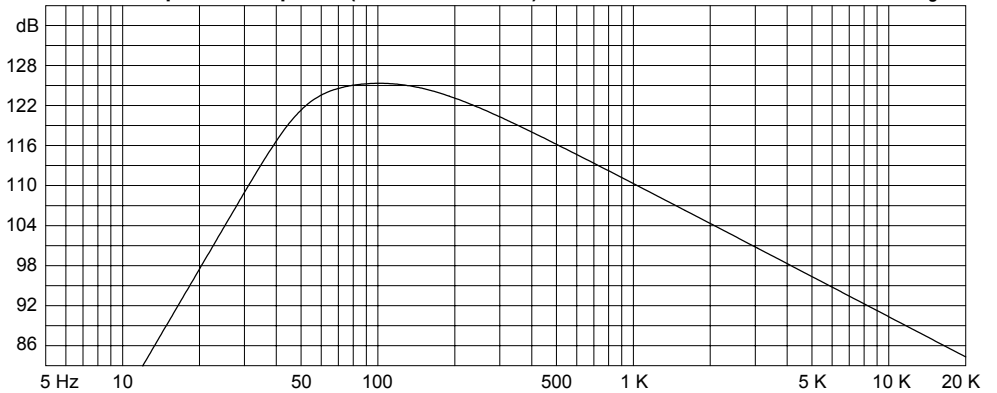
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



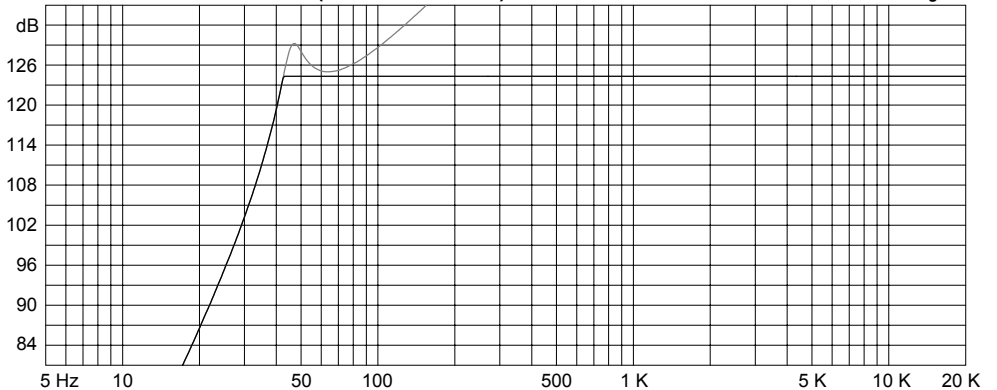
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 225 watts

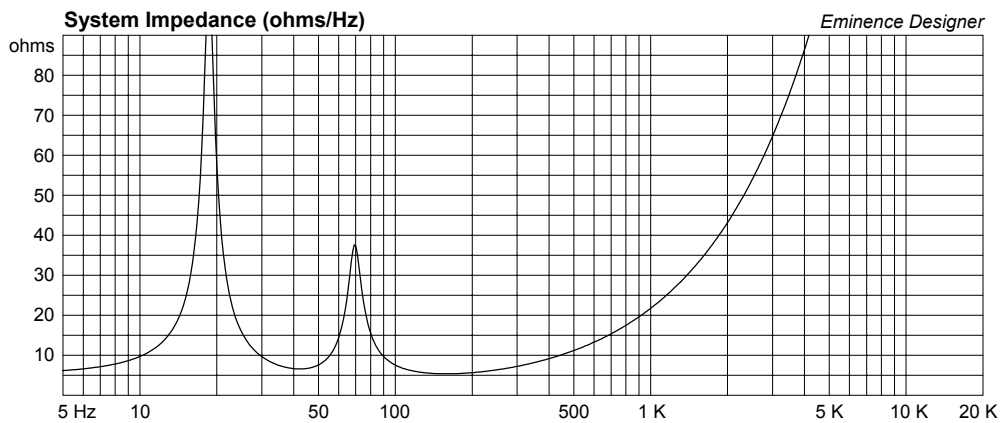
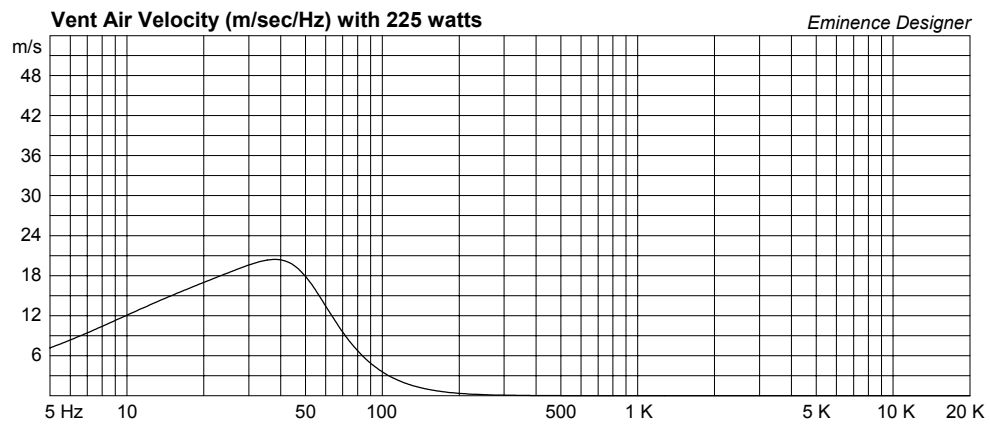
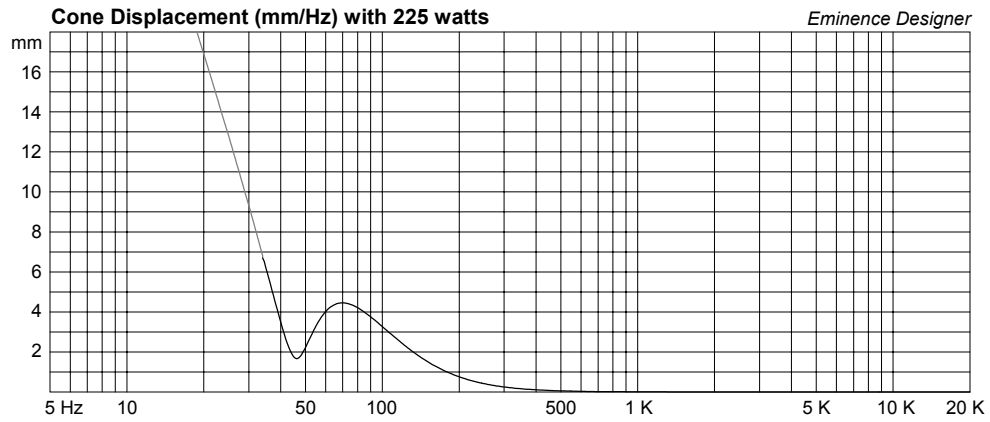
Eminence Designer



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

Eminence Designer





Delta Pro-18A Two By 18 Subwoofer

By Jerry McNutt, Eminence Speaker LLC

Limit to 1000 Watts; F3 of 49 Hz. Use a steep high pass at 35 Hz.
Slot Ports.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 9.8 cu.ft

V(total) = 10.7 cu.ft

Fb = 45 Hz

QL = 7

F3 = 48.75 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = rectangle

Vent ends = one flush

Hv = 20.5 in

Wv = 2 in

Lv = 6.773 in

Driver Properties

--Description--

Name: Delta Pro-18A

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: 18" Sub Woofer

--Configuration--

No. of Drivers = 2

Mounting = Standard

Wiring = Parallel

Drivers sum coherently = Yes

--Driver Parameters--

Fs = 28.03 Hz

Qms = 10.38

Vas = 17.62 cu.ft [35.24]

Xmax = 0.264 in

Sd = 184.1 sq.in [368.3]

Qes = 0.33

Re = 5.3 ohms [2.65]

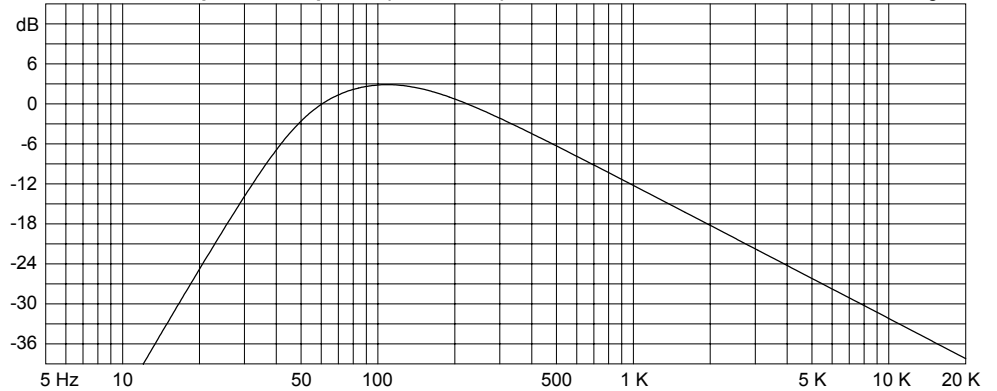
Le = 3.43 mH [1.715]

Z = 8 ohms [4]

Pe = 500 watts [1000]

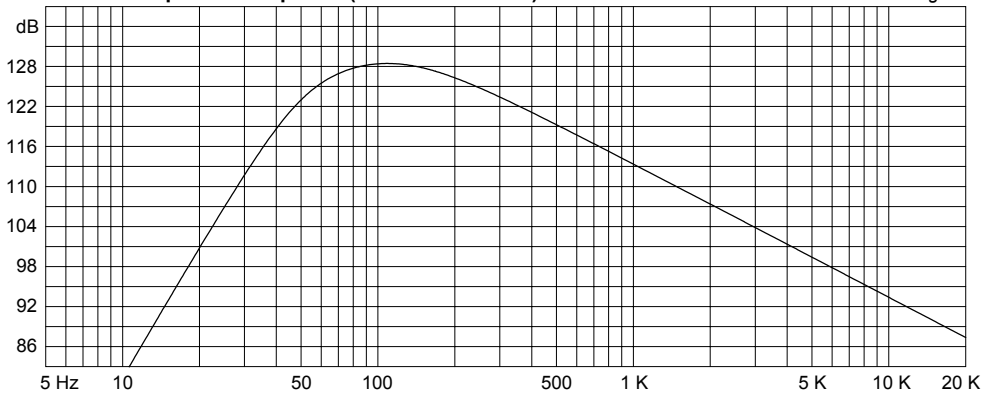
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 225 watts

Eminence Designer



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

Eminence Designer

