

# Alphalite 6A Small Sealed Midrange Cabinet

By Jerry McNutt, Eminence Speaker LLC  
Limit to 90 Watts; F3 of 193Hz. High Pass at 200 Hz.



## Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 0.11 cu.ft

V(total) = 0.11 cu.ft

Qtc = 0.699

QL = 20

F3 = 193 Hz

Fill = heavy

## Driver Properties

--Description--

Name: AlphaLite6A

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: 6.5" Neo Mid/bass Driver

--Configuration--

**No. of Drivers = 1**

--Driver Parameters--

Fs = 125.6 Hz

Qms = 6.3

Vas = 0.174 cu.ft

Xmax = 0.138 in

Sd = 20.13 sq.in

Qes = 0.61

Re = 7.25 ohms

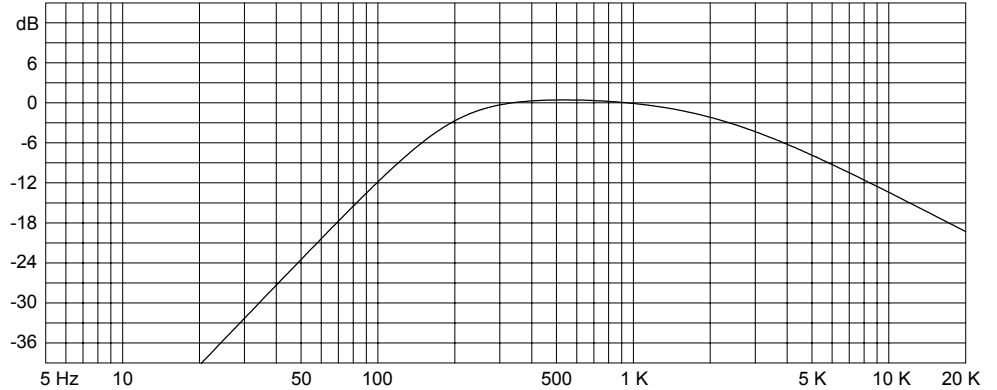
Le = 0.53 mH

Z = 8 ohms

Pe = 100 watts

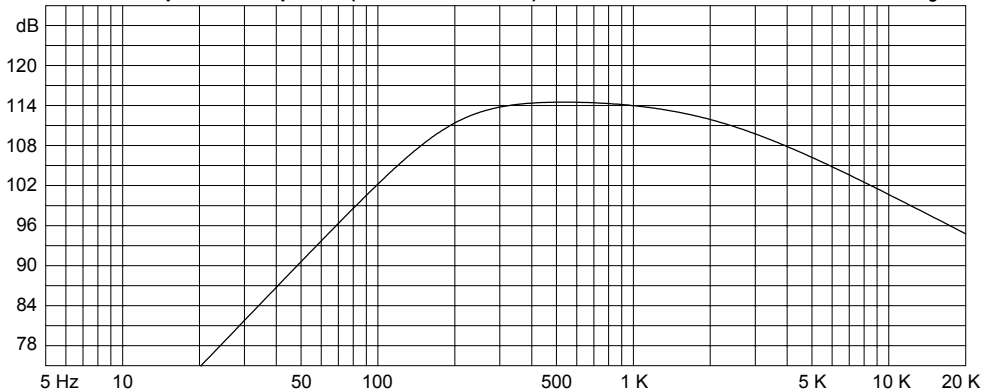
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



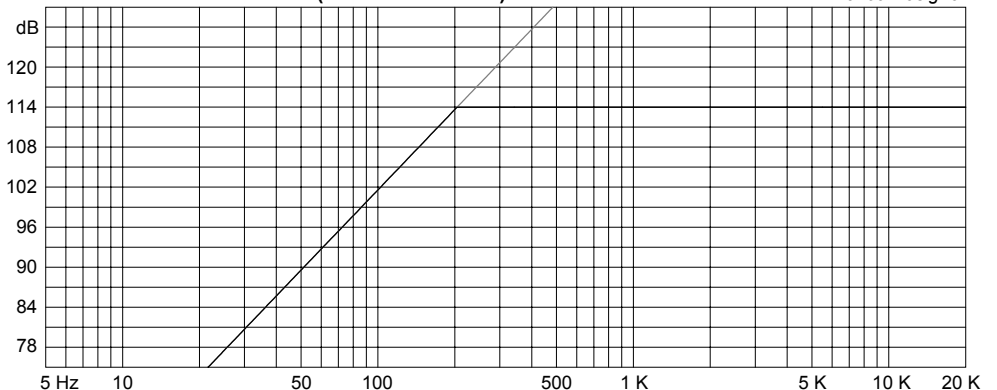
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 90 watts

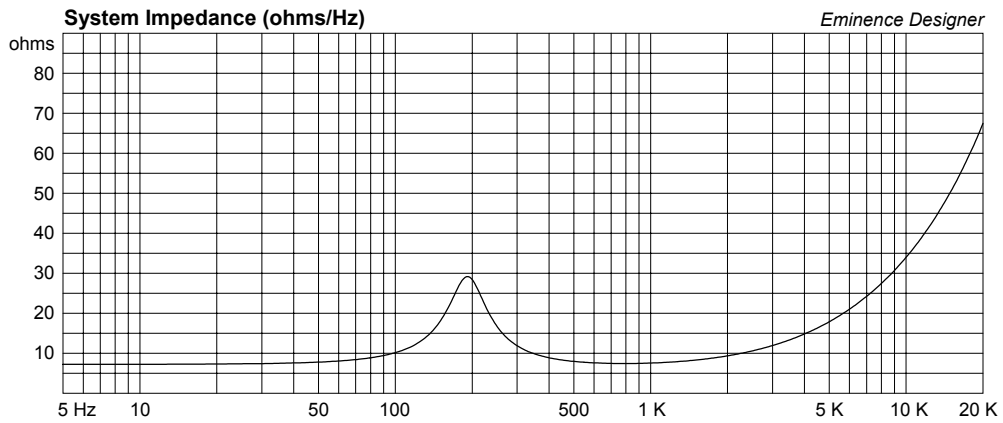
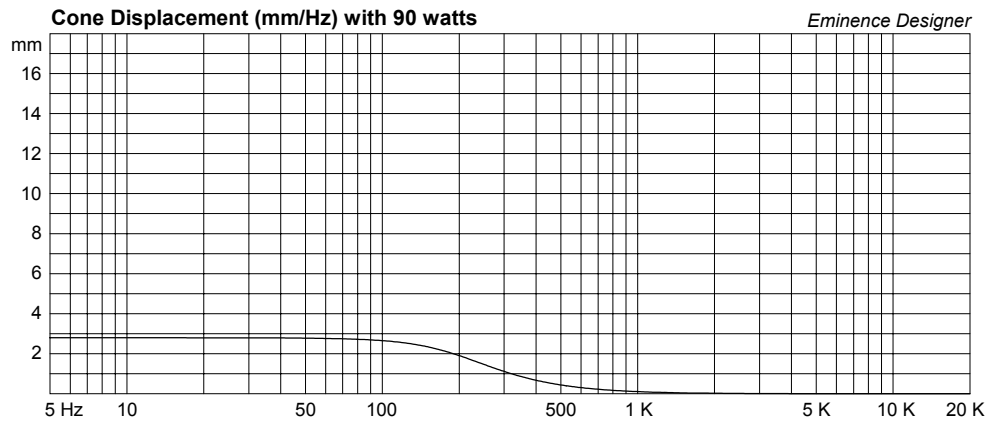
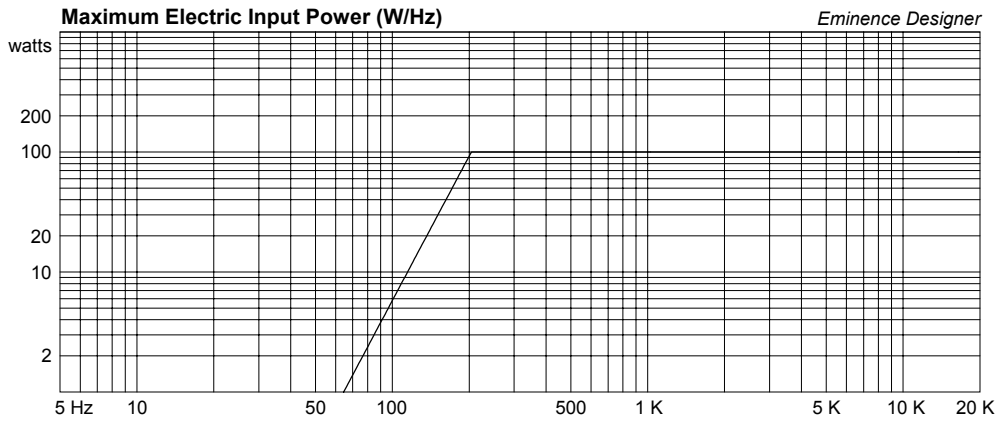
Eminence Designer

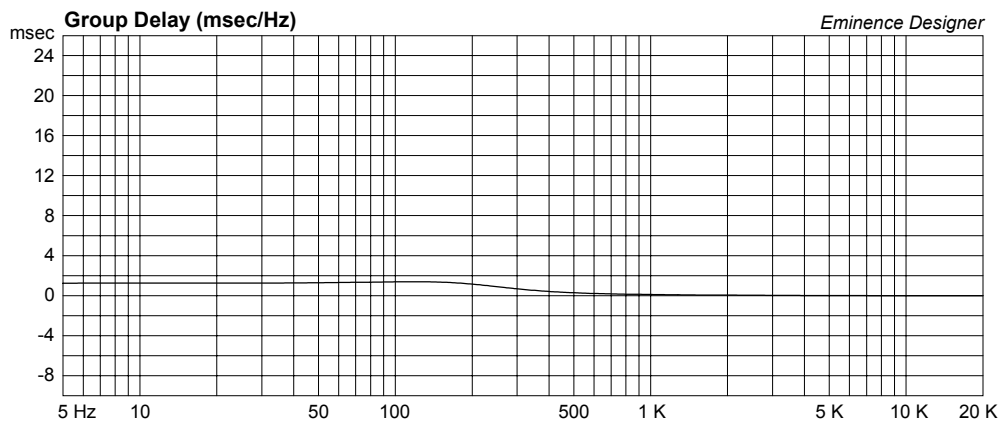
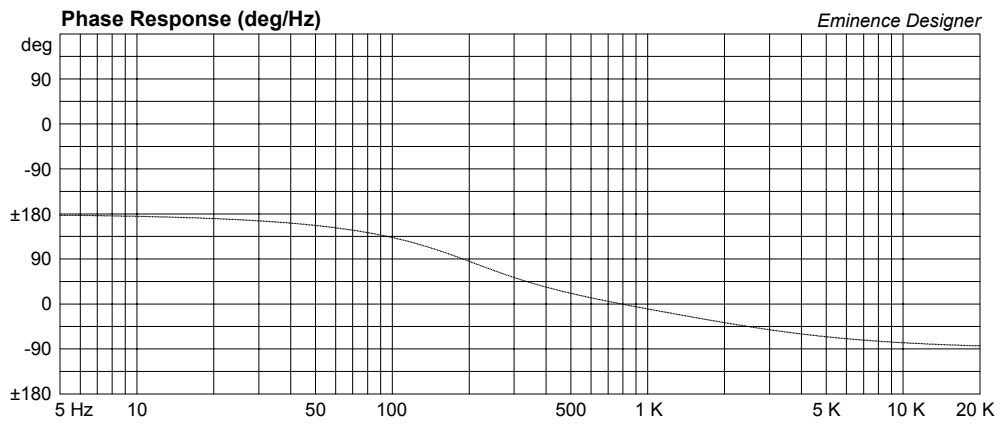


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







# Alphalite 6A Medium Sealed Midrange Cabinet

By Jerry McNutt, Eminence Speaker LLC

Limit to 90 Watts; F3 of 189 Hz. High Pass at 190 Hz or higher.



## Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 0.25 cu.ft

V(total) = 0.25 cu.ft

Qtc = 0.595

QL = 20

F3 = 188.7 Hz

Fill = heavy

## Driver Properties

--Description--

Name: AlphaLite6A

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: 6.5" Neo Mid/bass Driver

--Configuration--

**No. of Drivers = 1**

--Driver Parameters--

Fs = 125.6 Hz

Qms = 6.3

Vas = 0.174 cu.ft

Xmax = 0.138 in

Sd = 20.13 sq.in

Qes = 0.61

Re = 7.25 ohms

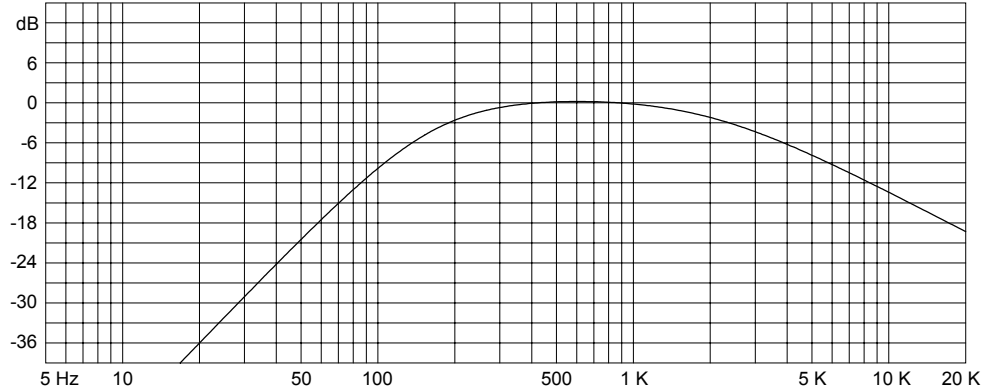
Le = 0.53 mH

Z = 8 ohms

Pe = 100 watts

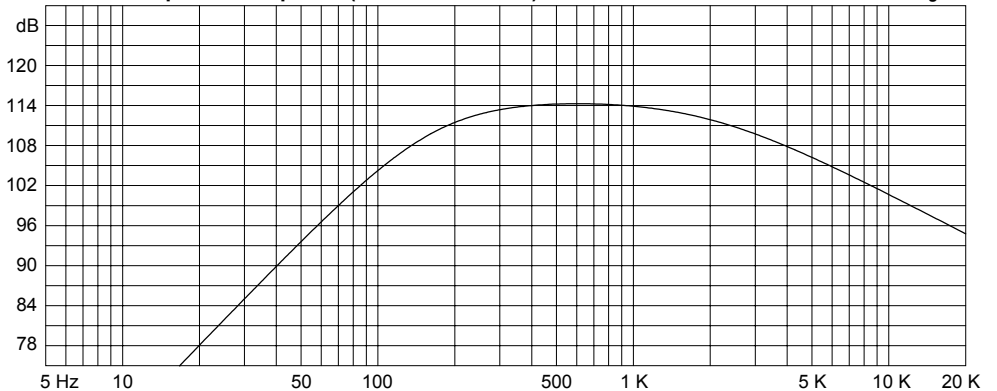
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



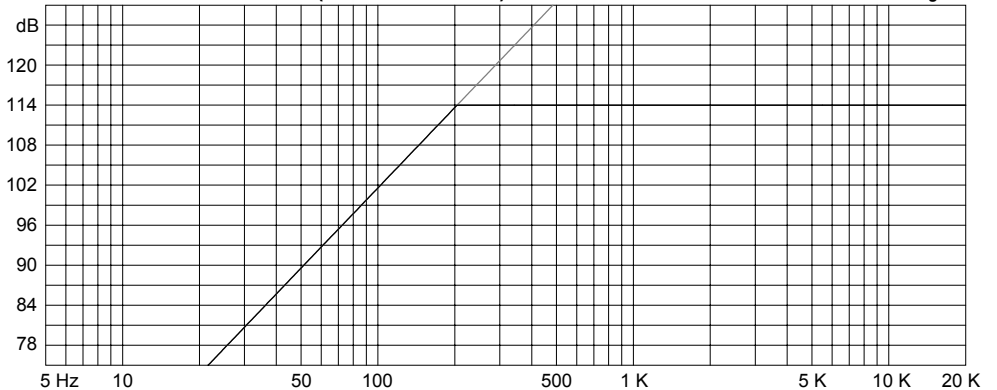
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 90 watts

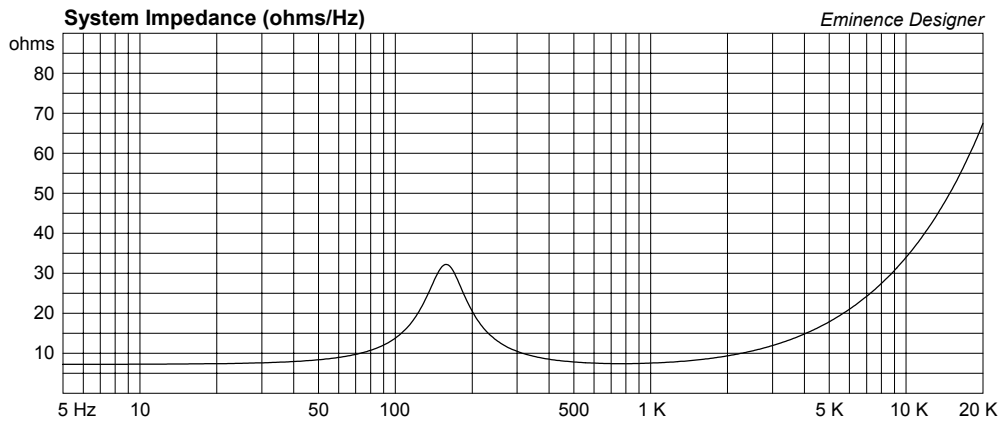
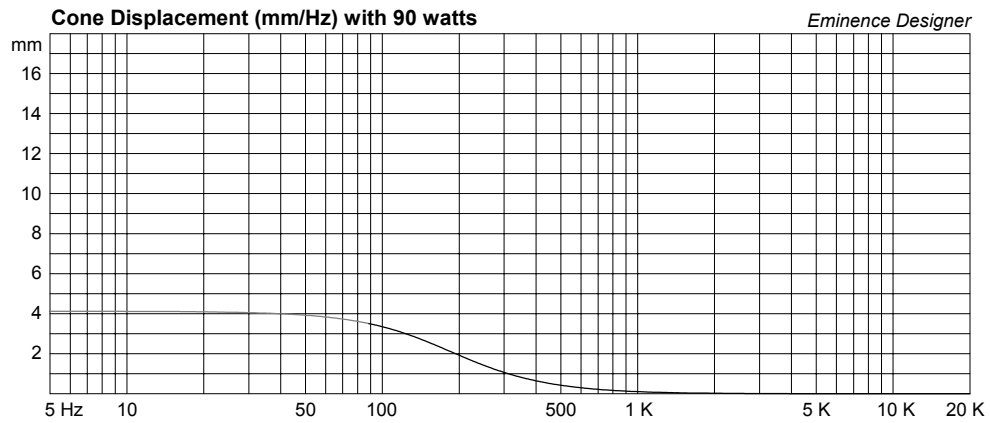
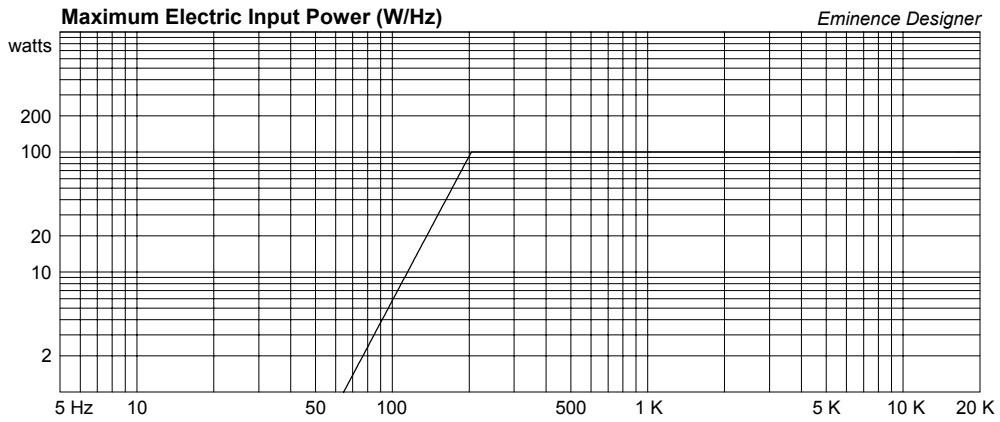
Eminence Designer

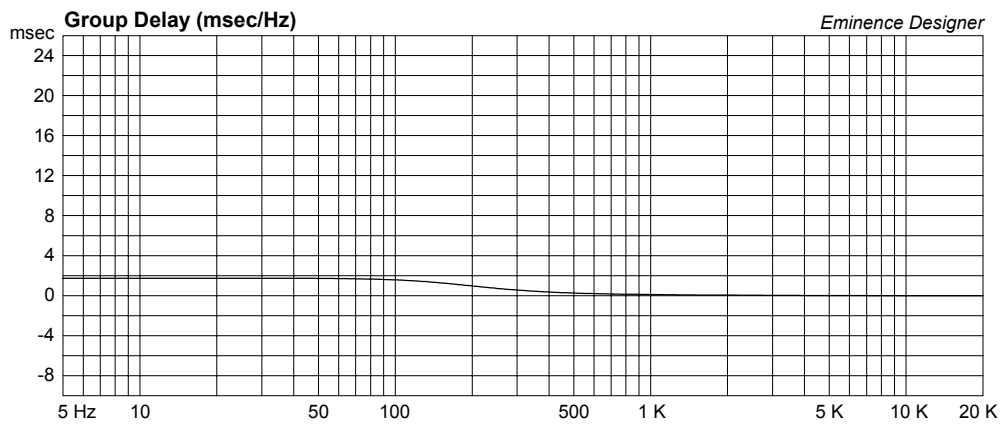
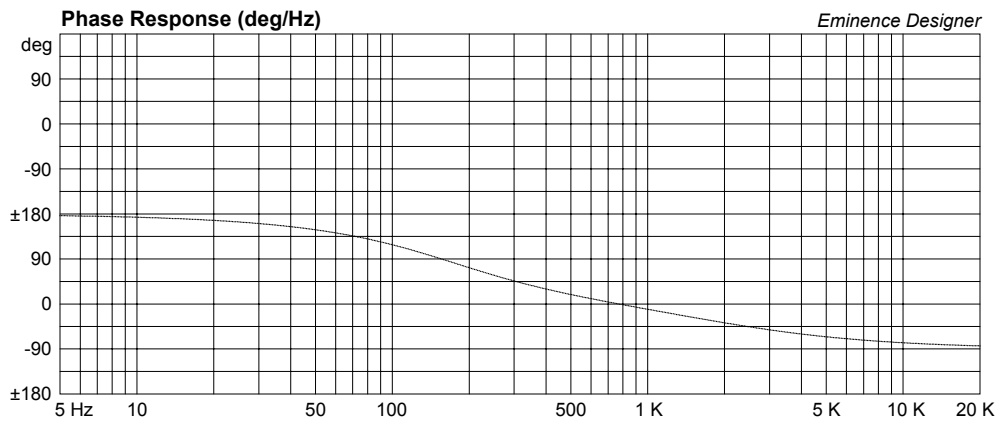


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







# Alphalite 6A Larger Vented Mid/Bass Design

By Jerry McNutt, Eminence Speaker LLC

Limit to 75 Watts; F3 of 74 Hz. High Pass at 75 Hz or higher.



## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 0.55 cu.ft

V(total) = 0.588 cu.ft

Fb = 82.51 Hz

QL = 7

F3 = 74.23 Hz

Fill = none

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 2.503 in

## Driver Properties

--Description--

Name: AlphaLite6A

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: 6.5" Neo Mid/bass Driver

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 125.6 Hz

Qms = 6.3

Vas = 0.174 cu.ft

Xmax = 0.138 in

Sd = 20.13 sq.in

Qes = 0.61

Re = 7.25 ohms

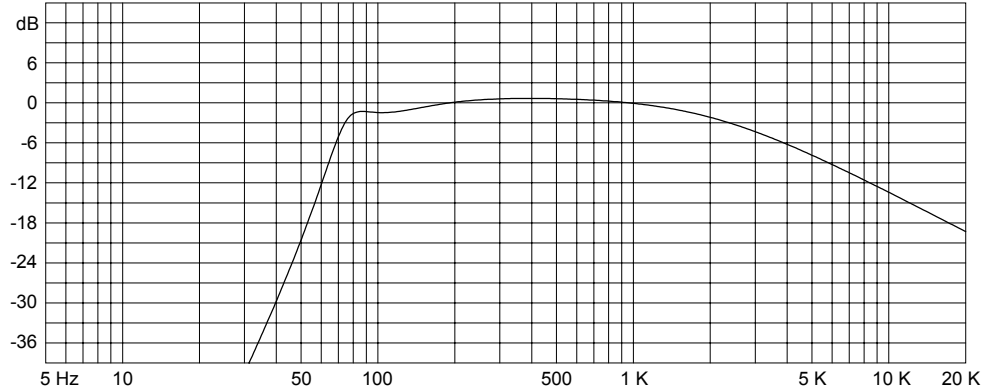
Le = 0.53 mH

Z = 8 ohms

Pe = 100 watts

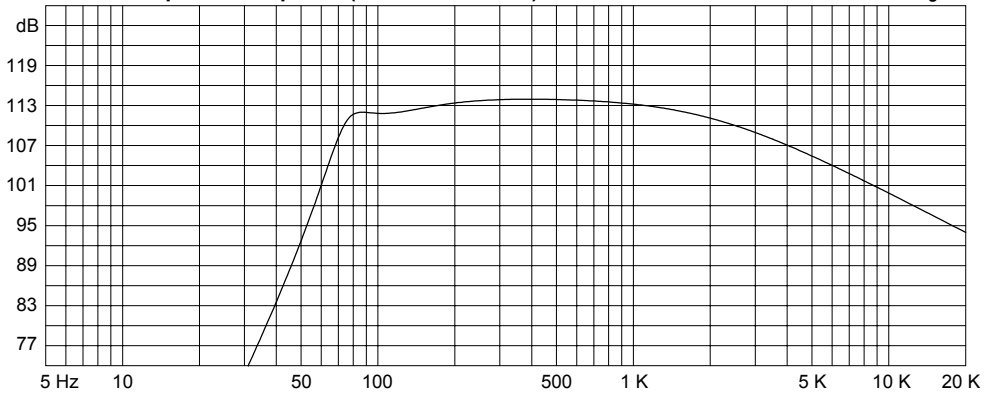
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



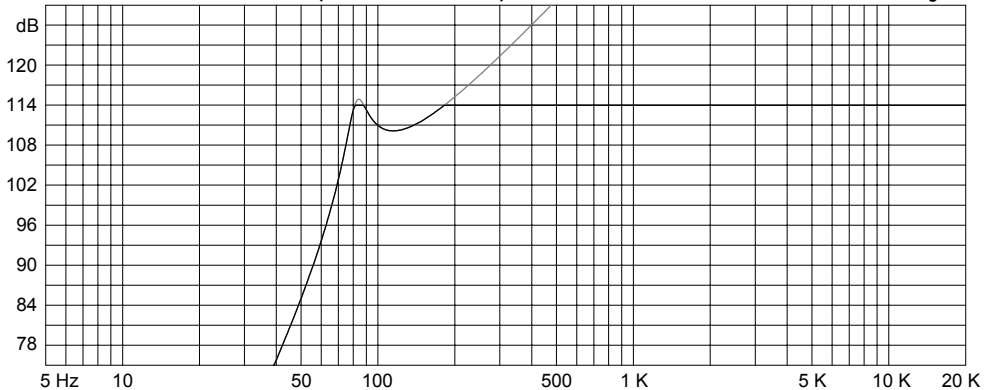
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 75 watts

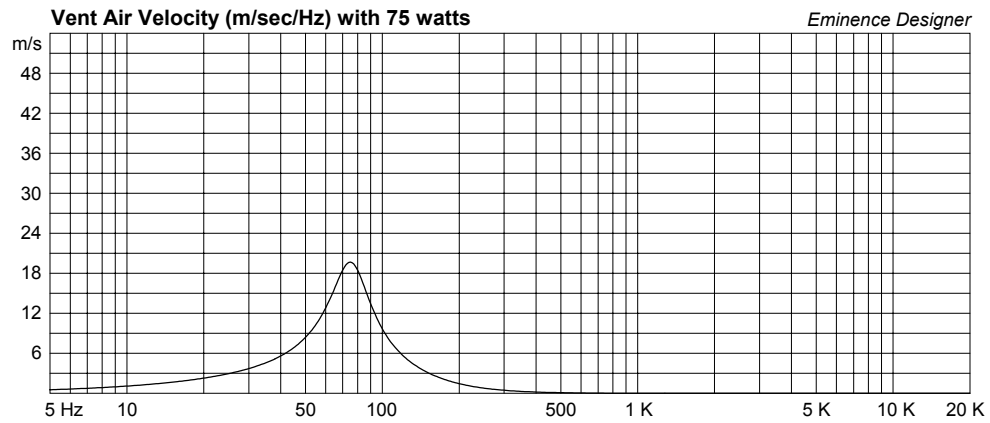
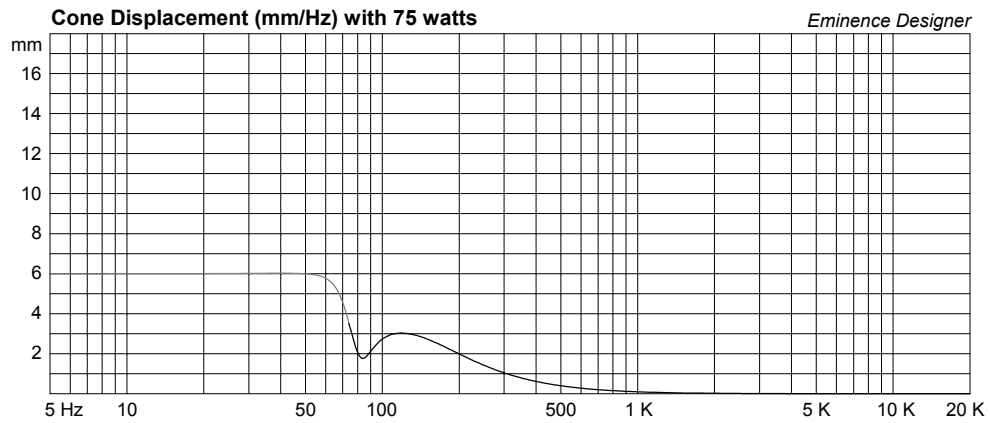
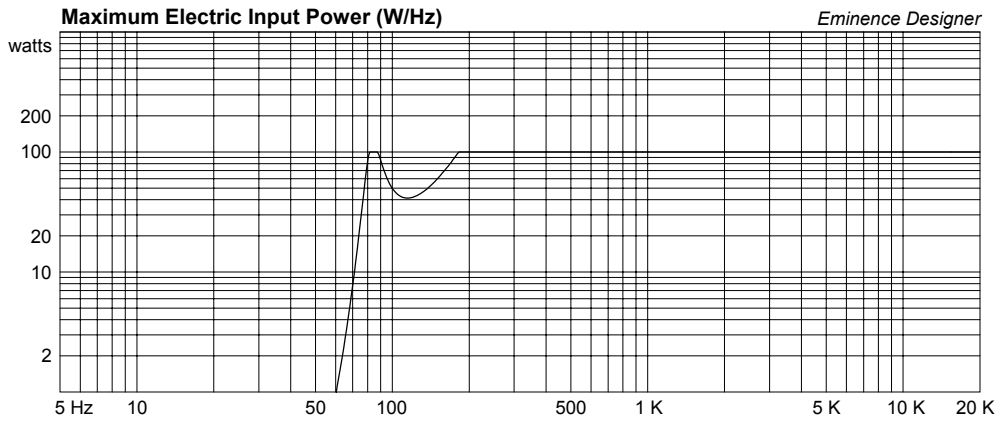
Eminence Designer



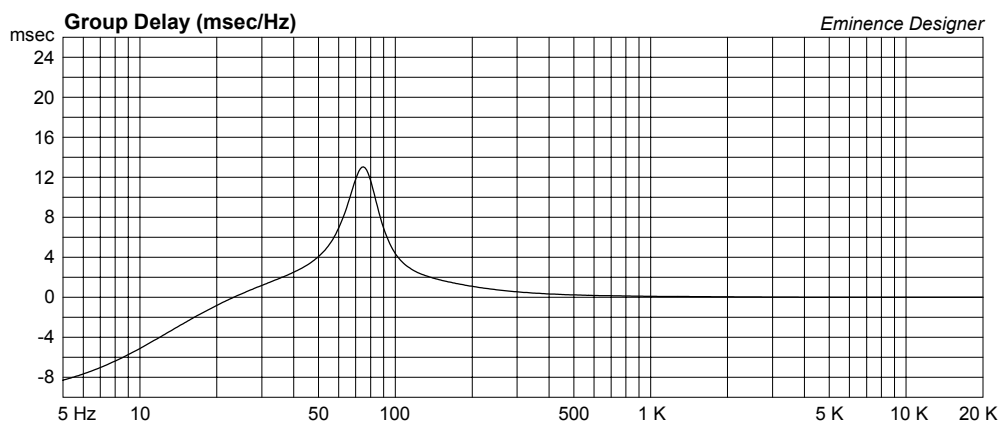
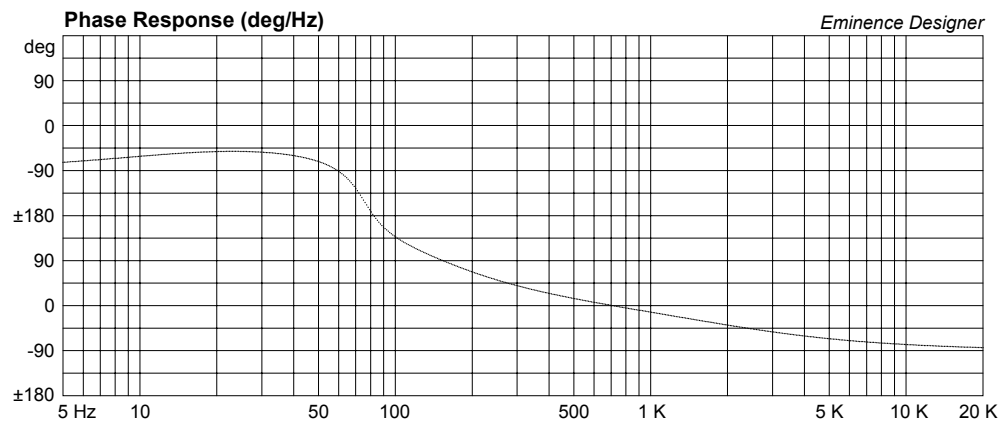
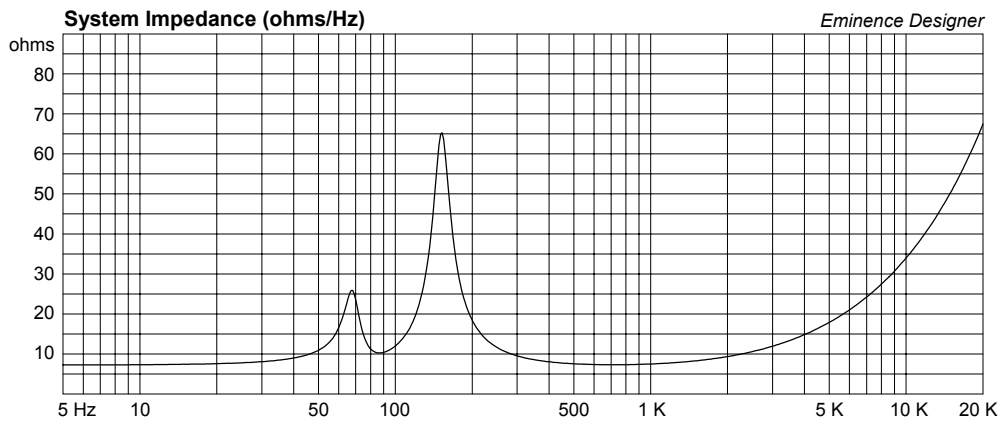
Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer









# Alphalite 6A Small Vented Midrange

By Jerry McNutt, Eminence Speaker LLC  
100 Watts; F3 of 133 Hz. High Pass at 140 Hz or higher.



## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 0.135 cu.ft

V(total) = 0.166 cu.ft

Fb = 130 Hz

QL = 7

F3 = 133.1 Hz

Fill = none

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 2 in

Lv = 2.014 in

## Driver Properties

--Description--

Name: AlphaLite6A

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: 6.5" Neo Mid/bass Driver

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 125.6 Hz

Qms = 6.3

Vas = 0.174 cu.ft

Xmax = 0.138 in

Sd = 20.13 sq.in

Qes = 0.61

Re = 7.25 ohms

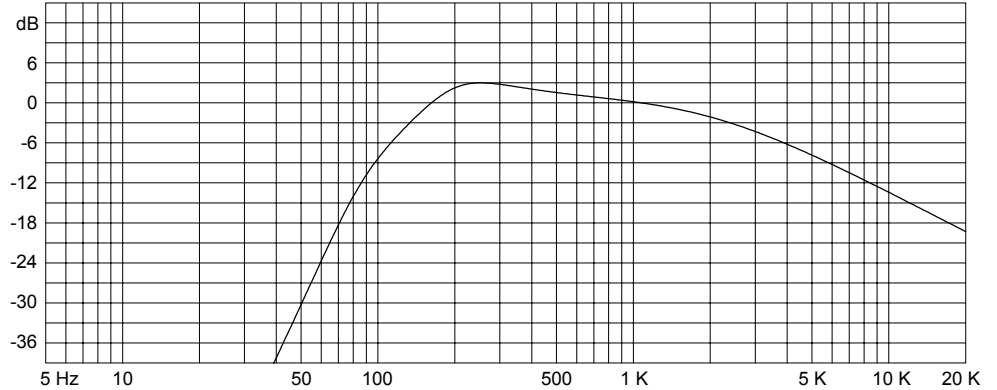
Le = 0.53 mH

Z = 8 ohms

Pe = 100 watts

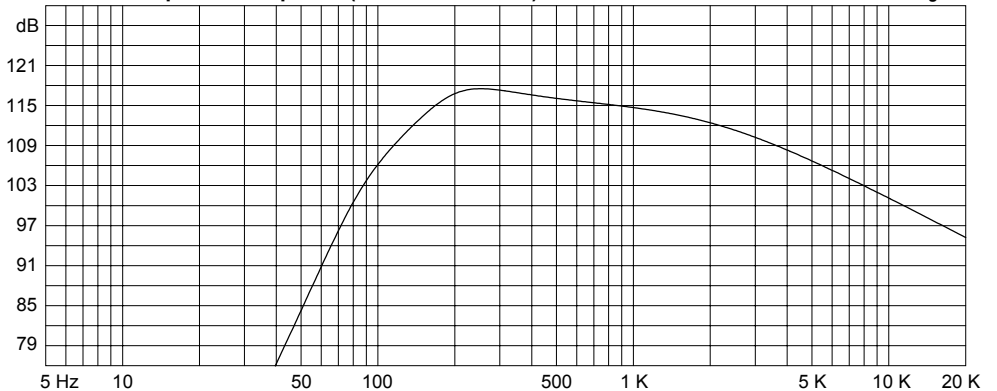
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



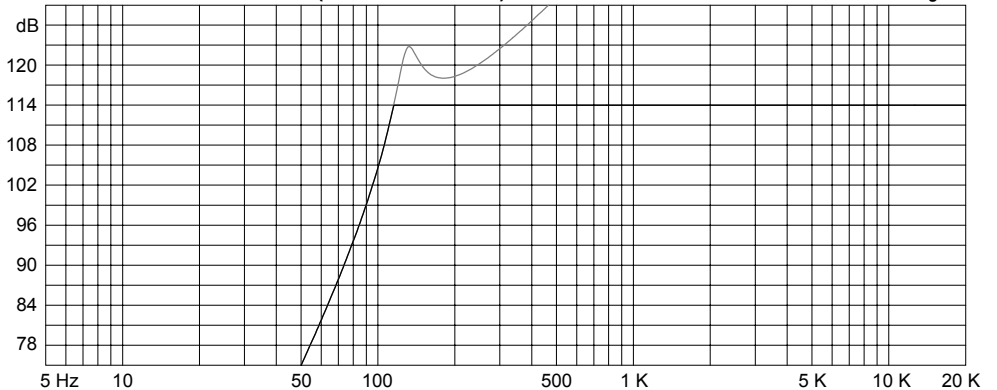
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 100 watts

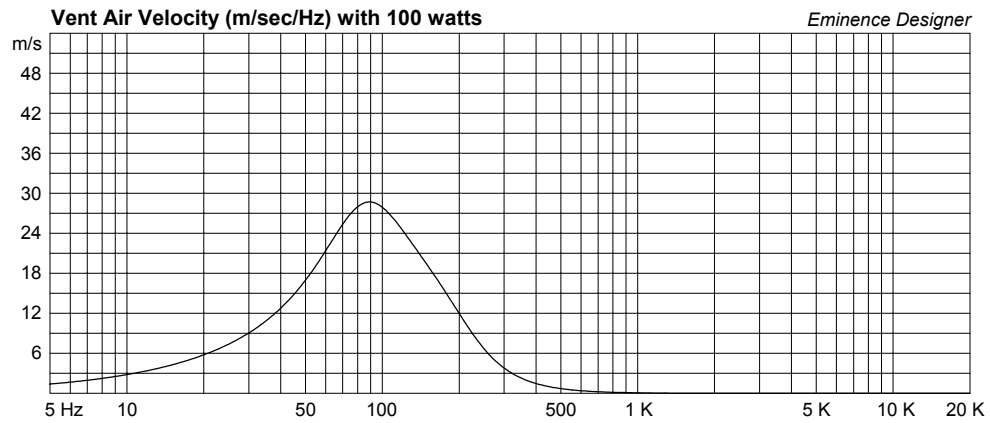
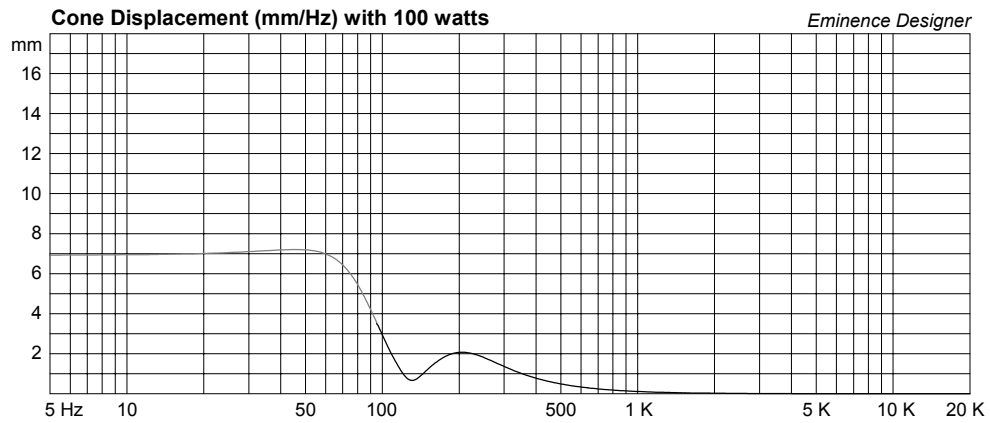
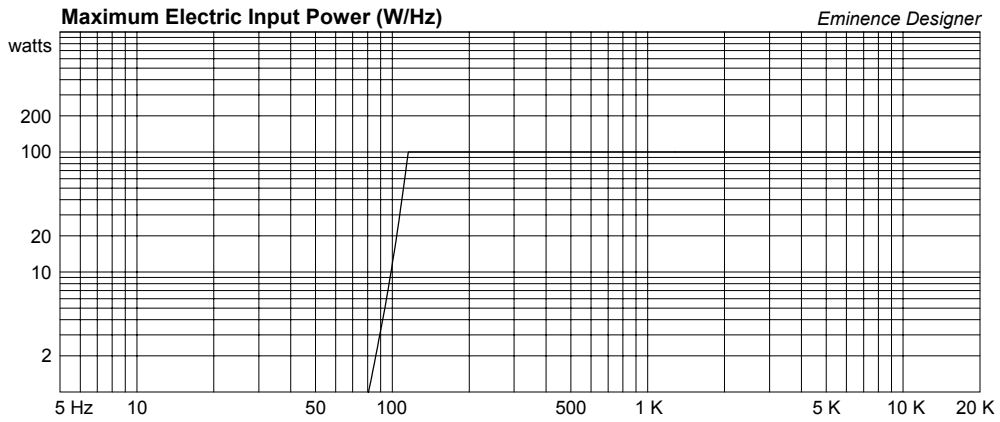
Eminence Designer

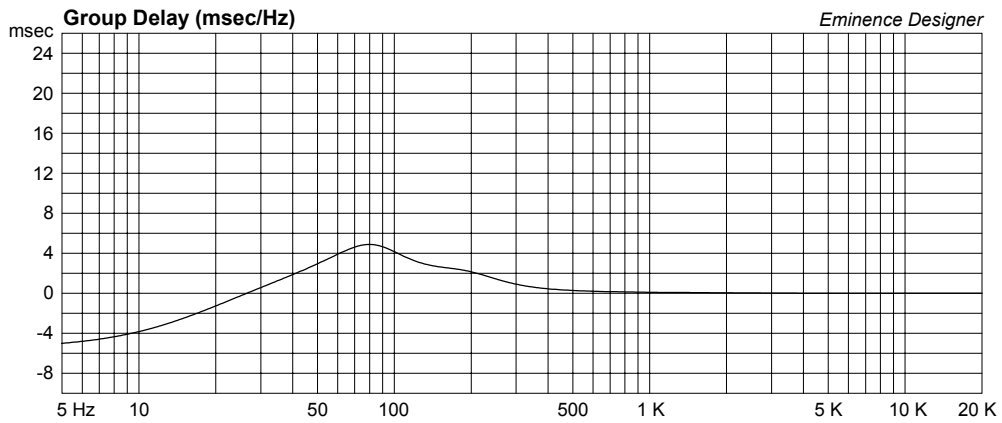
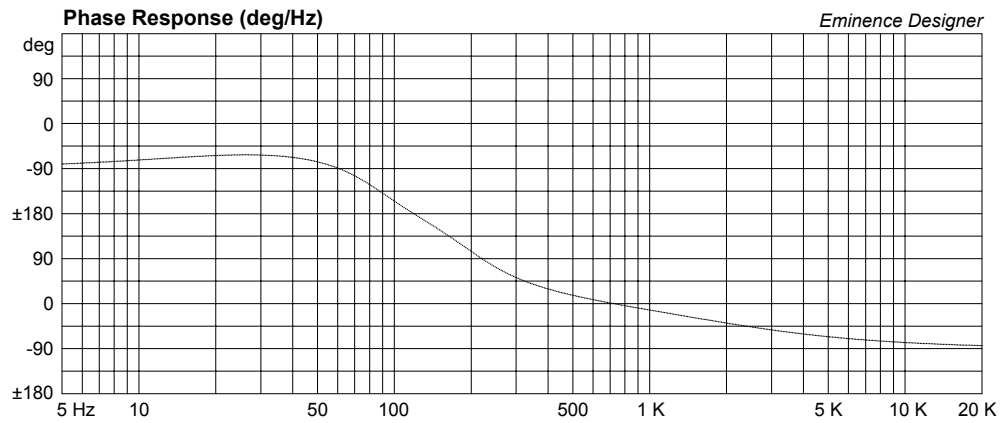
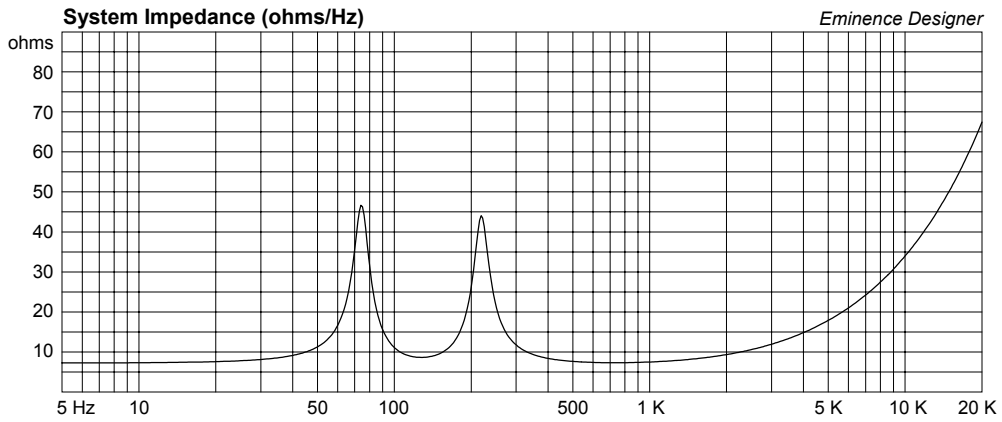


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







# Alphalite 6A Infinite Baffle Midrange Cabinet

By Jerry McNutt, Eminence Speaker LLC

Limit to 100 Watts; F3 of 170 Hz. High Pass at 180 Hz or higher.



## Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 10000 cu.ft

V(total) = 10000 cu.ft

Qtc = 0.538

QL = 20

F3 = 169.8 Hz

Fill = none

## Driver Properties

--Description--

Name: AlphaLite6A

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: 6.5" Neo Mid/bass Driver

--Configuration--

**No. of Drivers = 1**

--Driver Parameters--

Fs = 125.6 Hz

Qms = 6.3

Vas = 0.174 cu.ft

Xmax = 0.138 in

Sd = 20.13 sq.in

Qes = 0.61

Re = 7.25 ohms

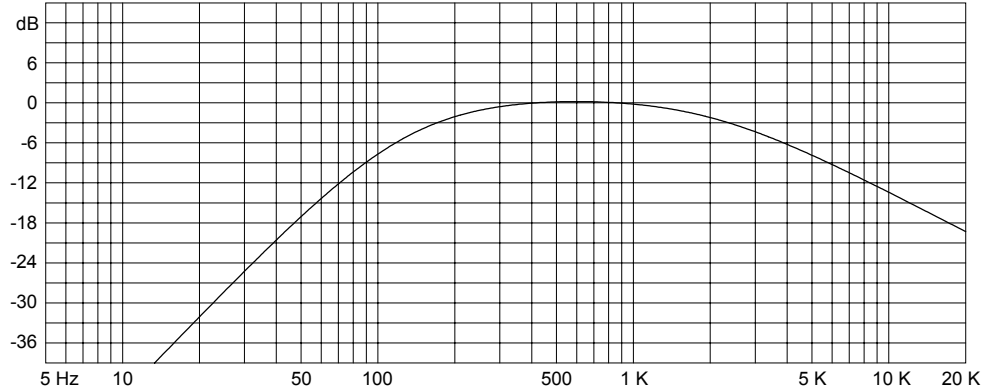
Le = 0.53 mH

Z = 8 ohms

Pe = 100 watts

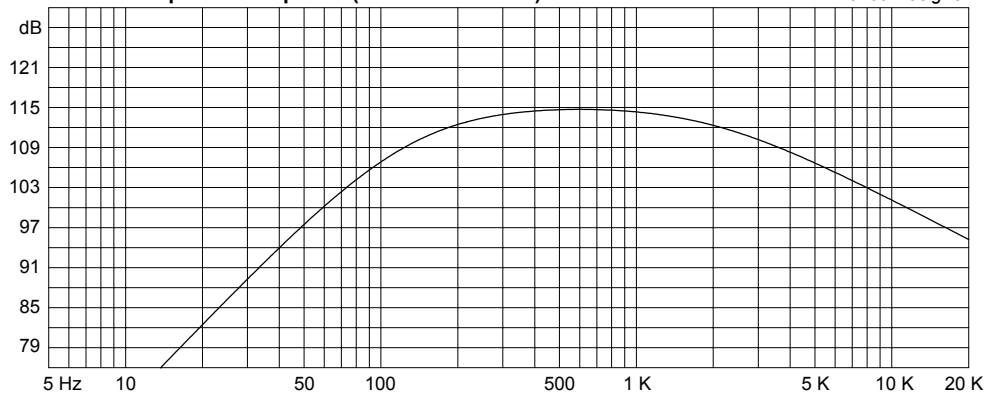
Normalized Amplitude Response (dB-SPL/Hz)

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

