

Alpha6A Small Sealed MidRange Enclosure

By Jerry McNutt, Eminence Speaker LLC

100 Watt Thermal Limit; Must use a steep high pass filter set to 200 Hz or higher.

Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 0.0954 cu.ft

V(total) = 0.11 cu.ft

Qtc = 0.736

QL = 20

F3 = 193.3 Hz

Fill = heavy

Driver Properties

--Description--

Name: Alpha-6

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised October 2005

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Solid paper dustcap.

Frame: Pressed steel basket.

Voice Coil: 1.5 inch (38.1 mm) copper.

Magnet: 20 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 118 Hz

Qms = 5.68

Vas = 5.8 liters

Xmax = 3.5 mm

Sd = 126.7 sq.cm

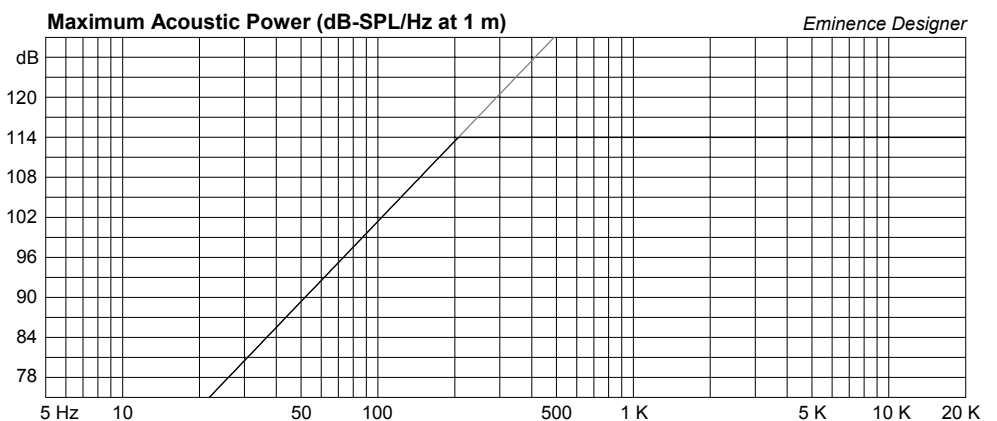
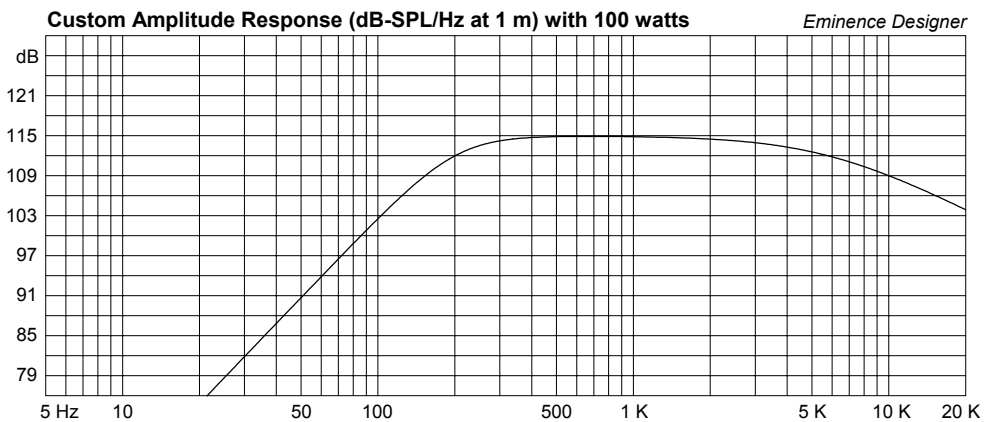
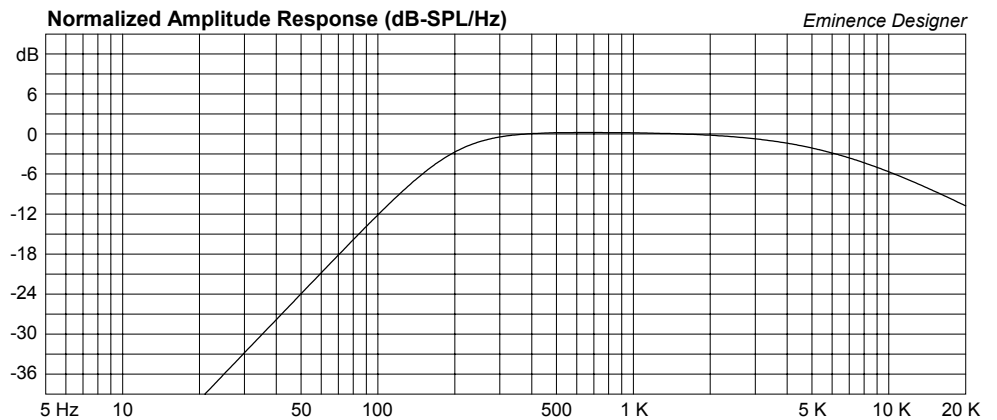
Qes = 0.6

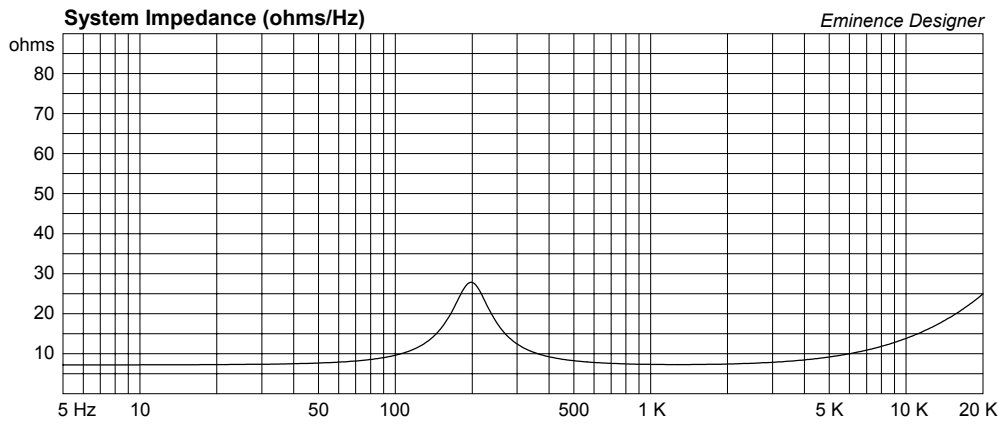
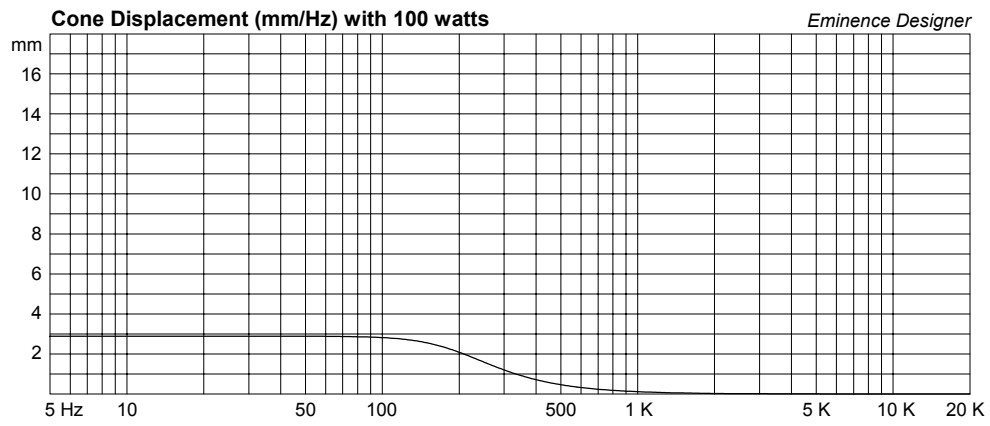
Re = 7.2 ohms

Le = 0.19 mH

Z = 8 ohms

Pe = 100 watts





Alpha6A Med Vented Cab; Hi Pwr Sat or Low Pwr FR

By Jerry McNutt, Eminence Speaker LLC

100 Watt Thermal Limit; for high power Sat, use a steep high pass filter set to 90 Hz or higher. Can be used as a stand alone cabinet for low power use.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 0.382 cu.ft

V(total) = 0.412 cu.ft

Fb = 90.94 Hz

QL = 7

F3 = 85.22 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 3.266 in

Driver Properties

--Description--

Name: Alpha-6

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised OCT 2005

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Solid paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 1.5 inch (38.1 mm) copper.

Magnet: 20 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 118 Hz

Qms = 5.68

Vas = 5.8 liters

Xmax = 3.5 mm

Sd = 126.7 sq.cm

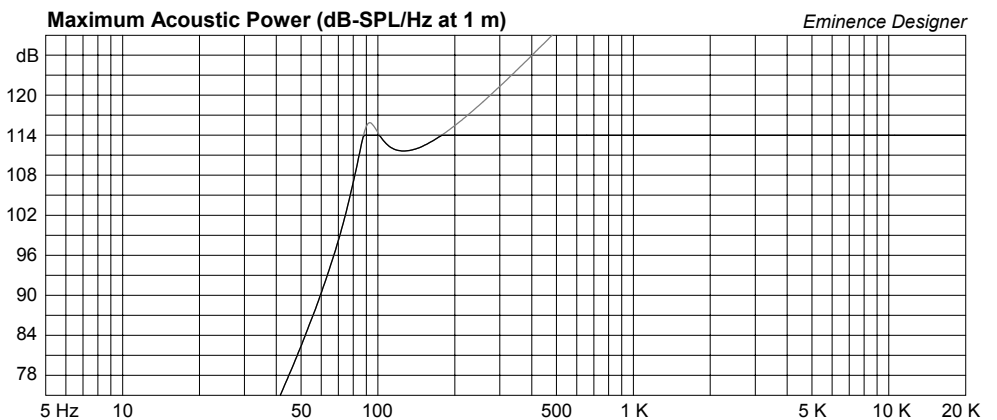
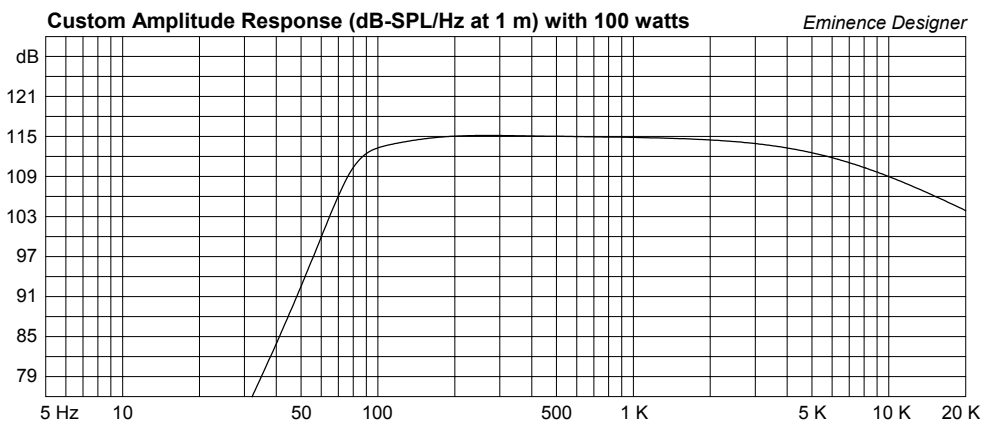
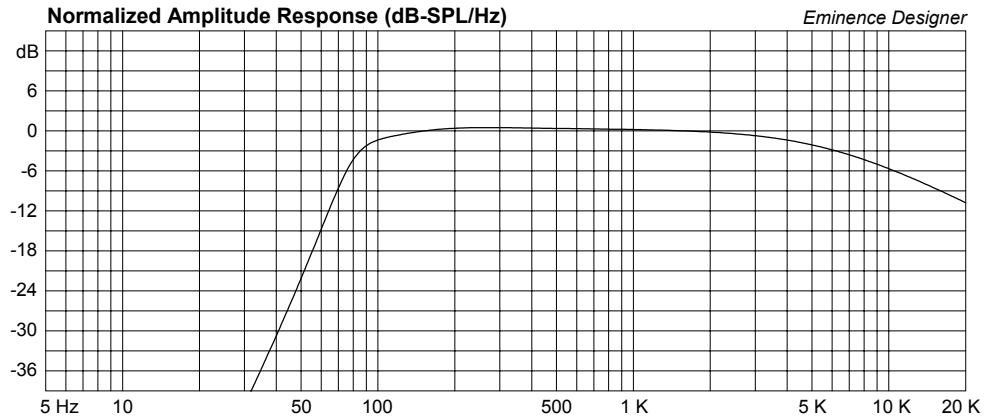
Qes = 0.6

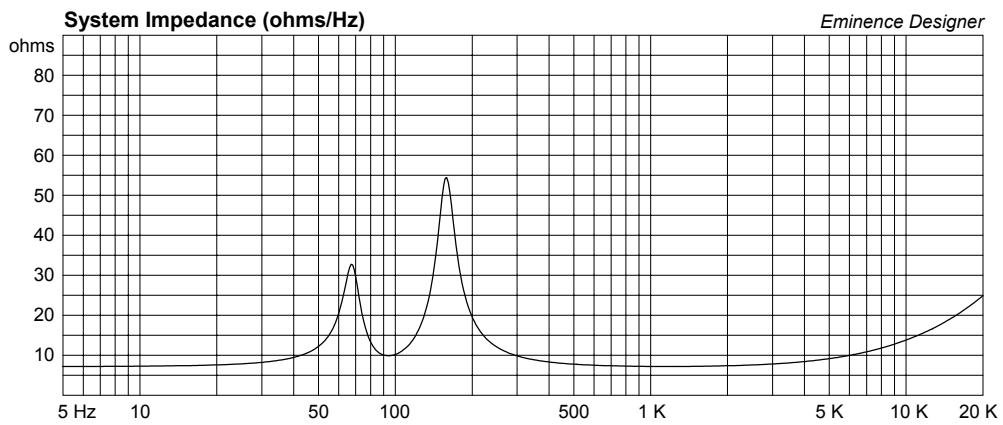
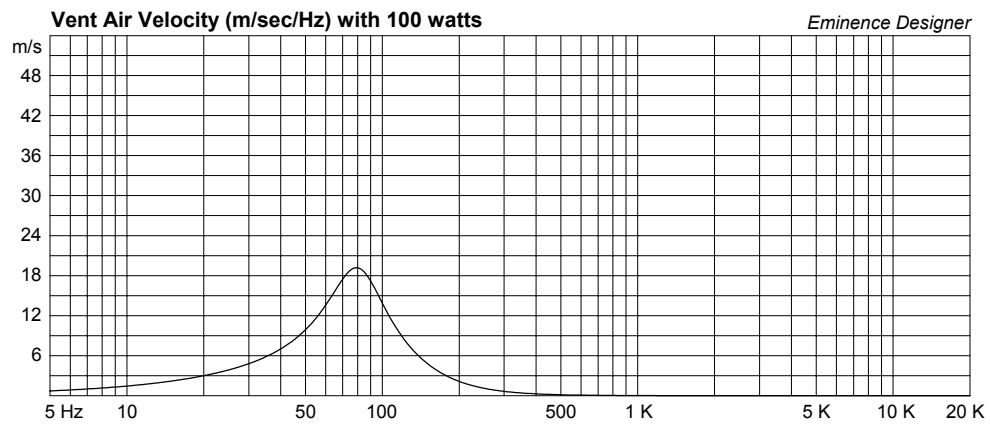
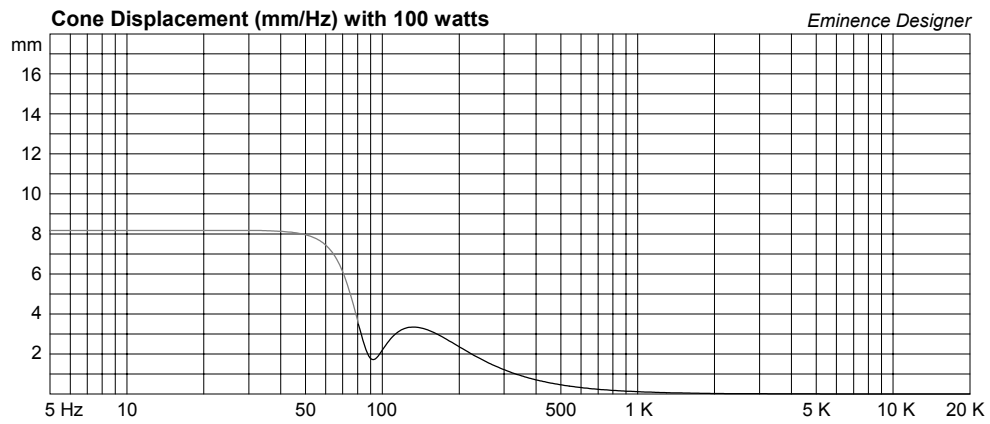
Re = 7.2 ohms

Le = 0.19 mH

Z = 8 ohms

Pe = 100 watts





Alpha6A Small Vented Cabinet

By Jerry McNutt, Eminence Speaker LLC

100 Watt Thermal Limit; Must use a steep high pass filter set to 150 Hz or higher for optimal performance.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 0.104 cu.ft

V(total) = 0.122 cu.ft

Fb = 154.6 Hz

QL = 7

F3 = 151.8 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 2 in

Lv = 1.559 in

Driver Properties

--Description--

Name: Alpha-6

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised OCT 2005

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Solid paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 1.5 inch (38.1 mm) copper.

Magnet: 20 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 118 Hz

Qms = 5.68

Vas = 5.8 liters

Xmax = 3.5 mm

Sd = 126.7 sq.cm

Qes = 0.6

Re = 7.2 ohms

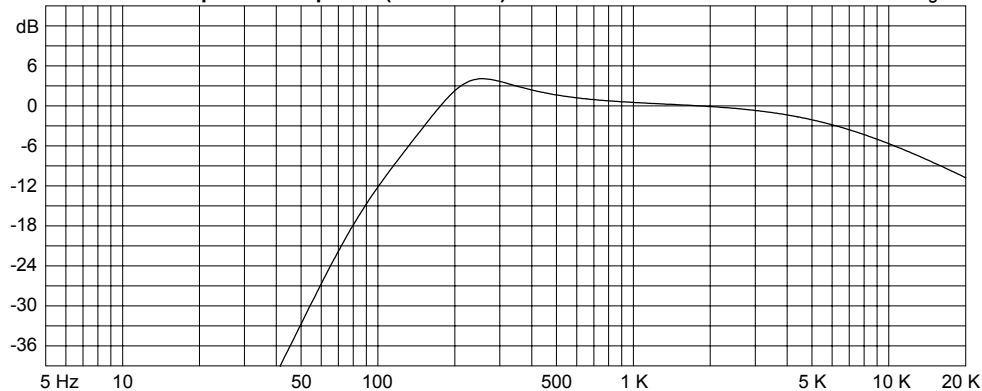
Le = 0.19 mH

Z = 8 ohms

Pe = 100 watts

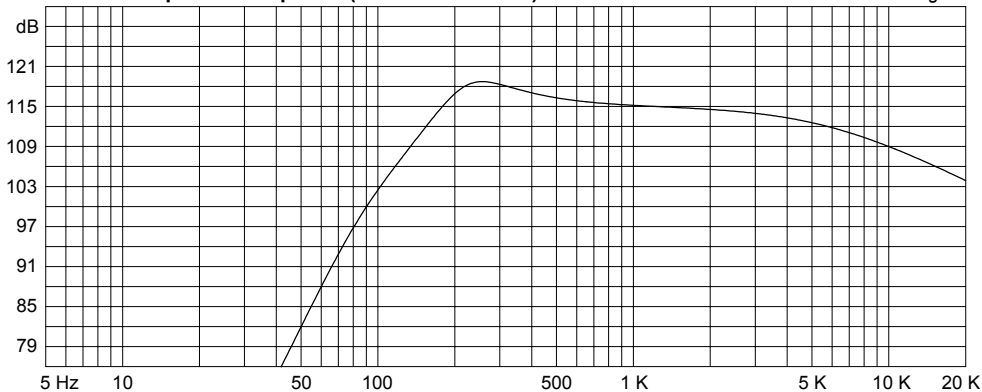
Normalized Amplitude Response (dB-SPL/Hz)

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

