

Alpha12A Large Vented FR or Bass Guitar Cab

By Jerry McNutt, Eminence Speaker LLC
50 Watts Displacement Limit; F3 of 51 Hz.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 3.8 cu.ft

V(total) = 3.883 cu.ft

Fb = 62.88 Hz

QL = 7

F3 = 50.77 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 7.508 in

Lv = 0.75 in

Driver Properties

--Description--

Name: Alpha-12

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 = 49 Hz

Qms = 6.53

Vas = 121.5 liters

Xmax = 2.4 mm

Sd = 519.5 sq.cm

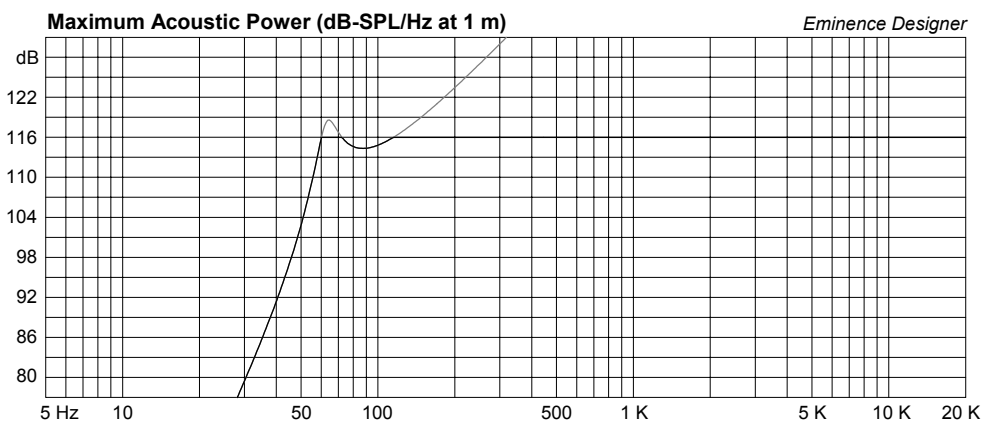
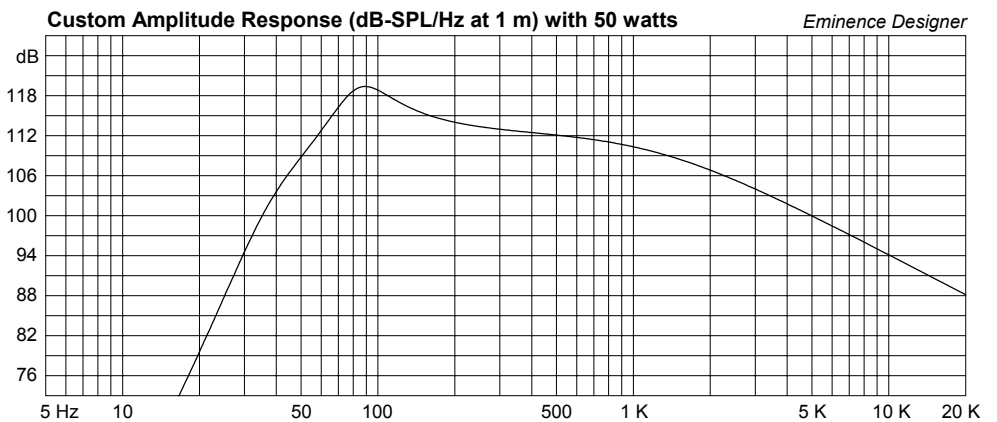
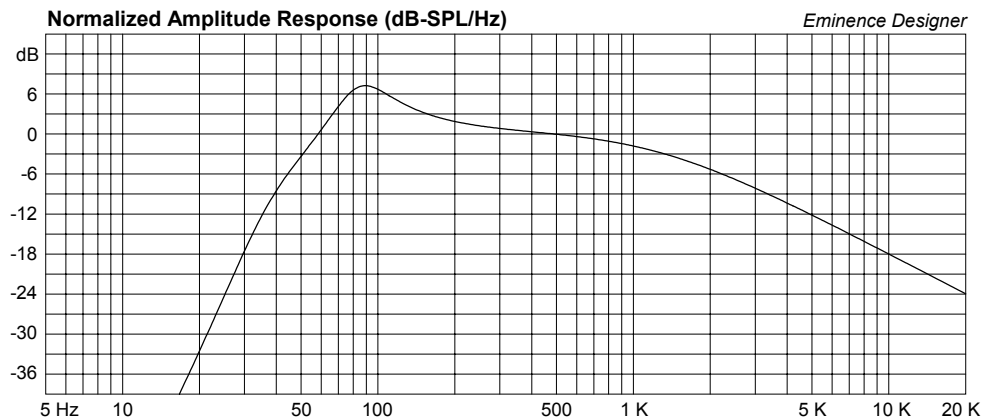
Qes = 0.88

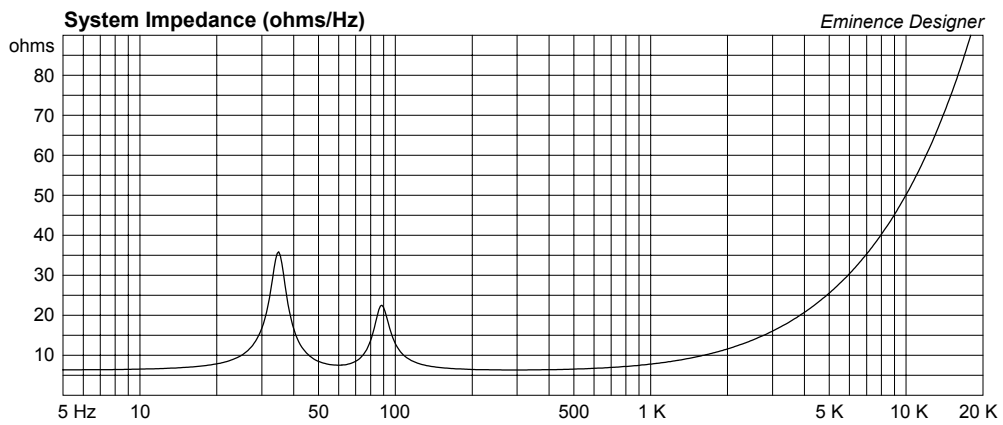
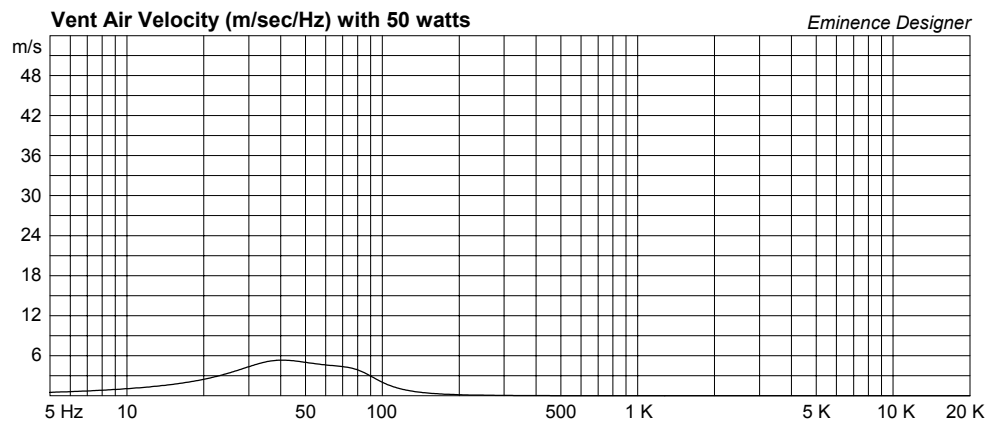
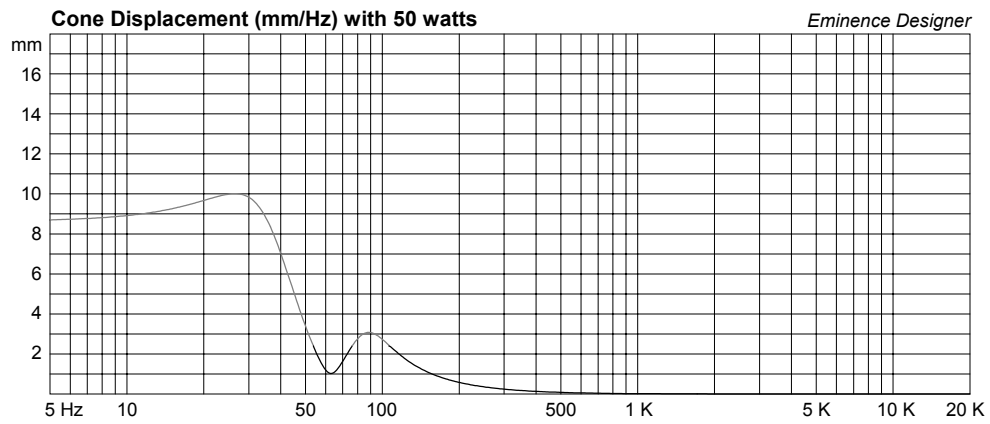
Re = 6.3 ohms

Le = 0.79 mH

Z = 8 ohms

Pe = 150 watts





Alpha12A Med Vented, High Pwr Sat or Low Pwr FR Use

By Jerry McNutt, Eminence Speaker LLC

High Power Sat: 150 Watt Thermal Limit, use steep High Pass Filter 150 Hz or above.

Low Power Full Range use: 60 Watts Displacement Limit.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 2 cu.ft

V(total) = 2.075 cu.ft

Fb = 75 Hz

QL = 7

F3 = 66.36 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 5.774 in

Lv = 0.75 in

Driver Properties

--Description--

Name: Alpha-12

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 = 49 Hz

Qms = 6.53

Vas = 121.5 liters

Xmax = 2.4 mm

Sd = 519.5 sq.cm

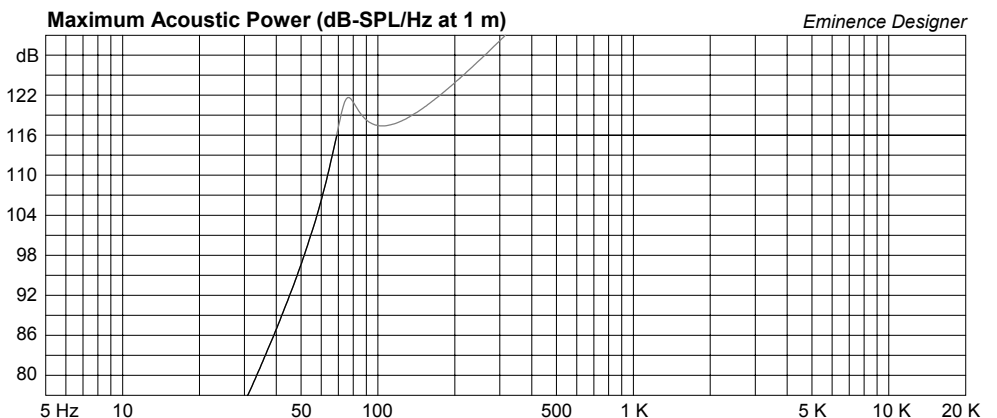
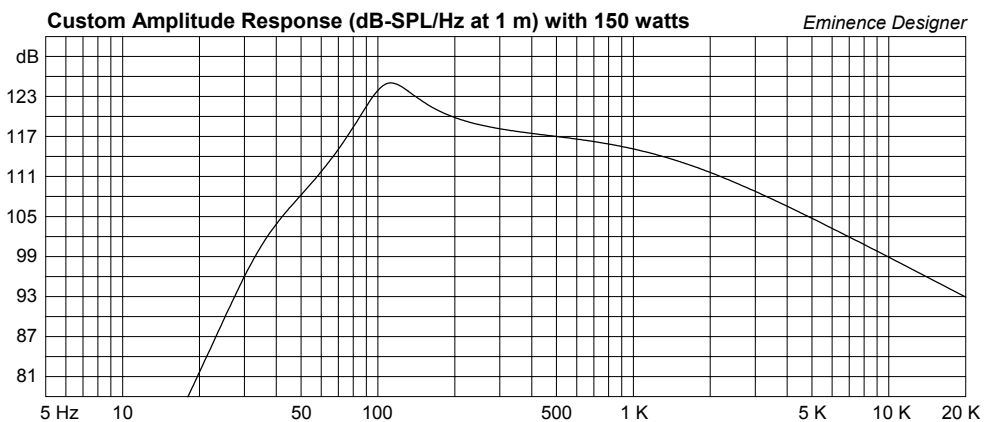
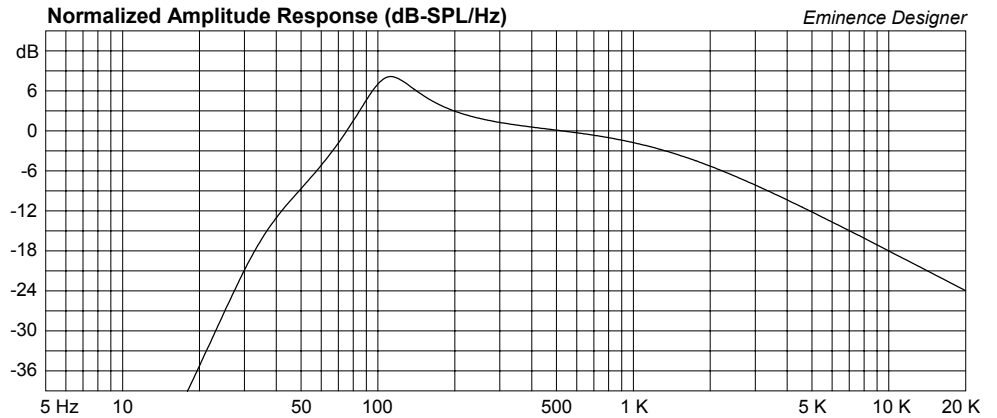
Qes = 0.88

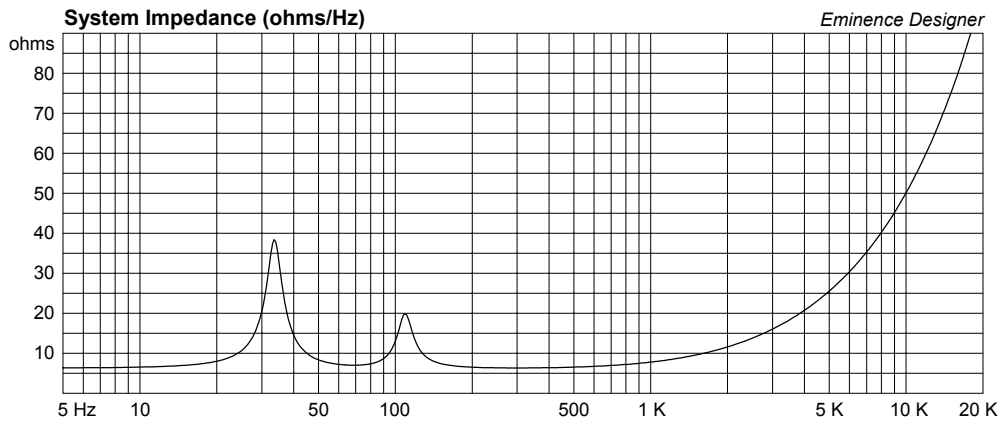
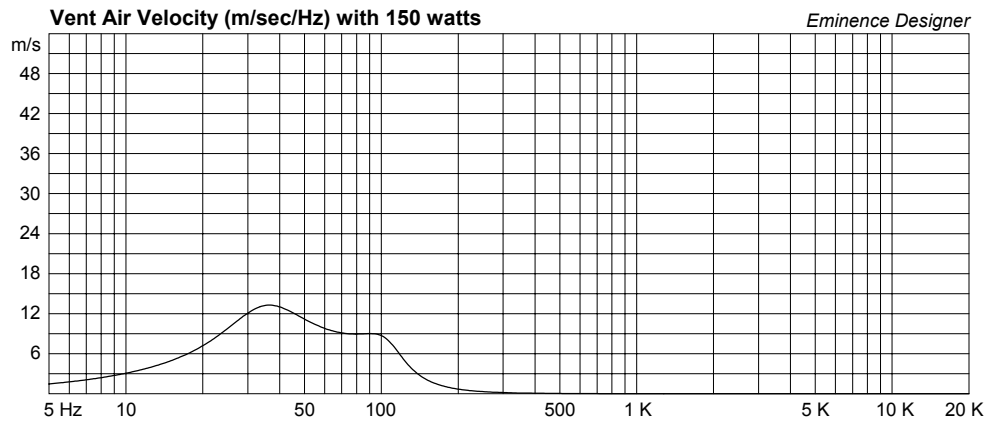
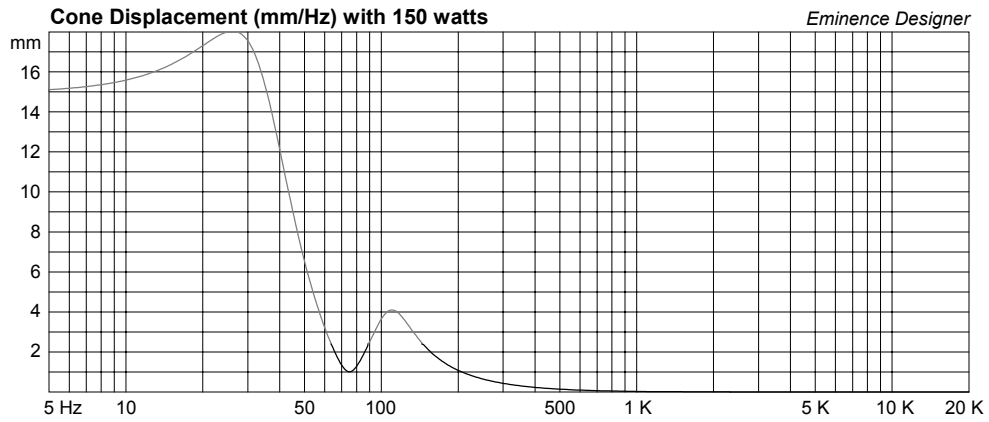
Re = 6.3 ohms

Le = 0.79 mH

Z = 8 ohms

Pe = 150 watts





Alpha12A Small Sealed Mid/High or Floor Monitor

By Jerry McNutt, Eminence Speaker LLC

150 Watt Thermal Limit; Use with a steep High Pass Filter set to 150 Hz or higher.

Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 0.496 cu.ft

V(total) = 0.559 cu.ft

Qtc = 1.422

QL = 20

F3 = 100.2 Hz

Fill = heavy

Driver Properties

--Description--

Name: Alpha-12

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 = 49 Hz

Qms = 6.53

Vas = 121.5 liters

Xmax = 2.4 mm

Sd = 519.5 sq.cm

Qes = 0.88

Re = 6.3 ohms

Le = 0.79 mH

Z = 8 ohms

Pe = 150 watts

