

Beta12A-2 Twin Loaded BandPass Sub

By Jerry McNutt, Eminence Speaker LLC

Great Compliment to Beta12A-2 Small Sealed Box for Portable PA System

Displacement Limited to 100 watts.

Box Properties

--Description--

Name:

Type: Bandpass Single-Tuned Box

Shape: Prism, Bandpass with two chambers

--Box Parameters--

Chamber 1 - lower-frequency

Vb = 2.75 cu.ft

V(total) = 2.973 cu.ft

Fb = 94.58 Hz

QL = 7

F3 = 57.38 Hz

Fill = minimal

Chamber 2 - upper-frequency

Vb = 2.917 cu.ft

V(total) = 2.873 cu.ft

Fb = 90 Hz

QL = 7

F3 = 142.5 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 12 in

Lv = 1.418 in

Driver Properties

--Description--

Name:

Type: Standard one-way driver

--Configuration--

No. of Drivers = 2

Mounting = Standard, Push-pull

Wiring = Parallel

Drivers sum coherently = Yes

--Driver Parameters--

Fs = 46.8 Hz

Qms = 6

Vas = 120.1 liters [240.2]

Xmax = 4.4 mm

Sd = 538.9 sq.cm [1024]

Qes = 0.5

Re = 5 ohms [2.5]

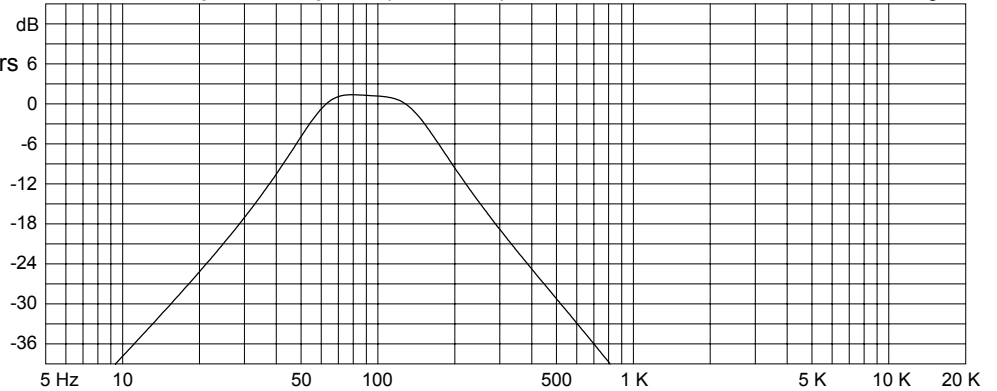
Le = 0.64 mH [0.32]

Z = 8 ohms [4]

Pe = 250 watts [500]

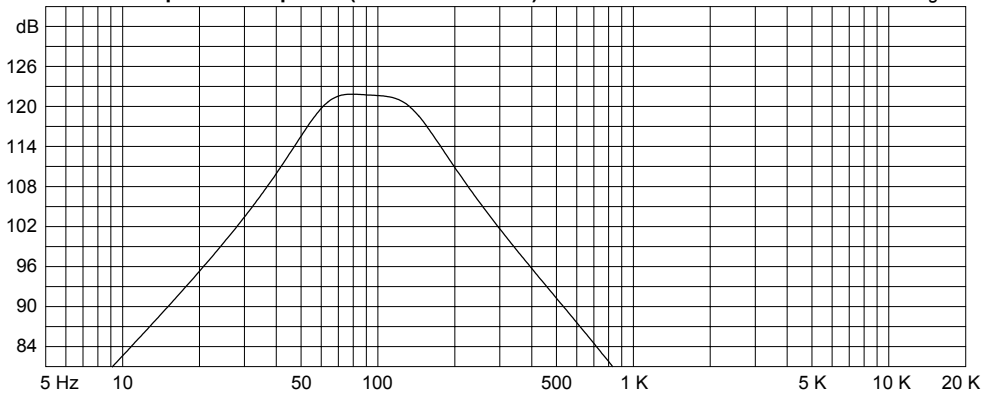
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



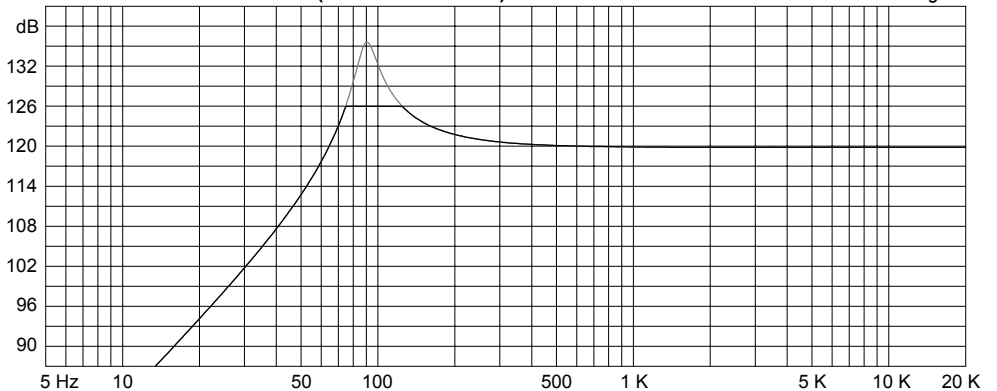
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 100 watts

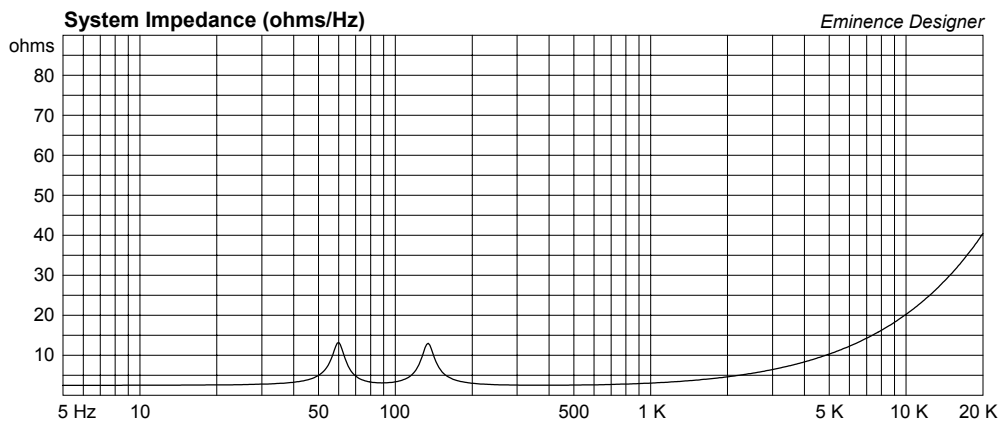
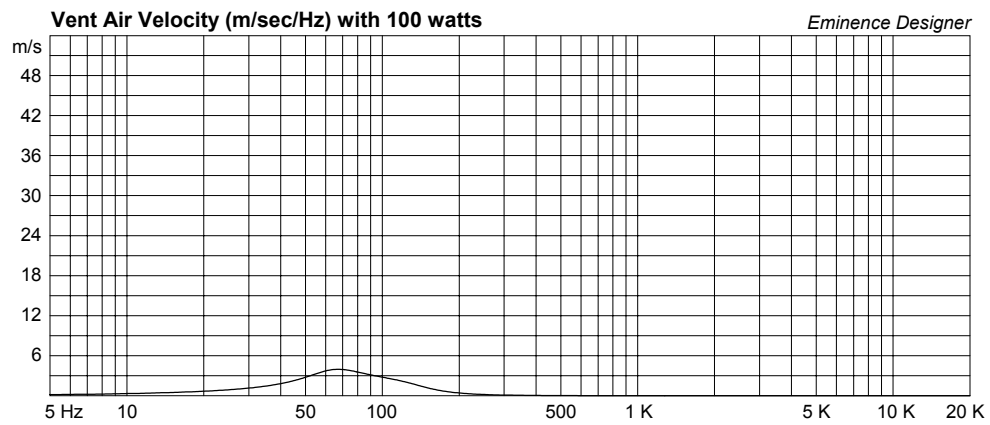
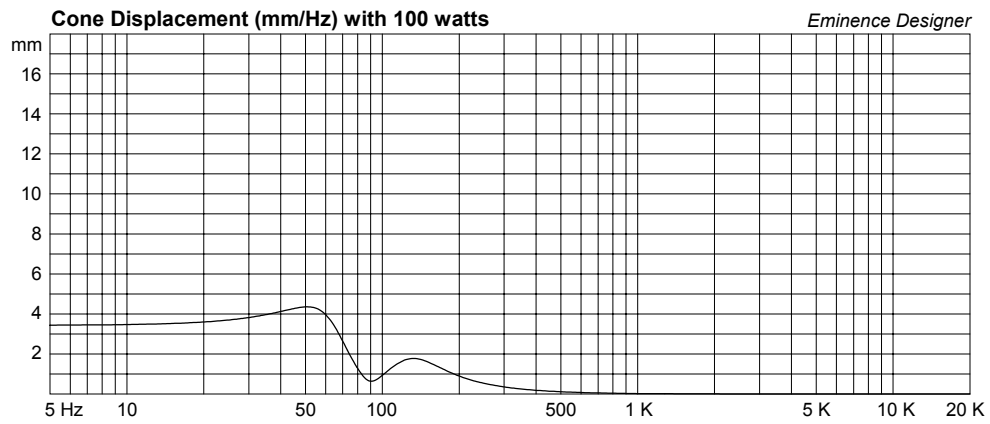
Eminence Designer



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

Eminence Designer





Beta12A-2 Bass 1x12 Bass Guitar Cabinet

By Jerry McNutt, Eminence Speaker LLC

Great For Bass Guitar. Displacement Limited to 150 Watts.

Small Vented Cabinet.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 1.75 cu.ft

V(total) = 1.894 cu.ft

Fb = 54.15 Hz

QL = 7

F3 = 64.18 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 4.154 in

Driver Properties

--Description--

Name:

Type: Standard one-way driver

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 46.8 Hz

Qms = 6

Vas = 120.1 liters

Xmax = 4.4 mm

Sd = 538.9 sq.cm

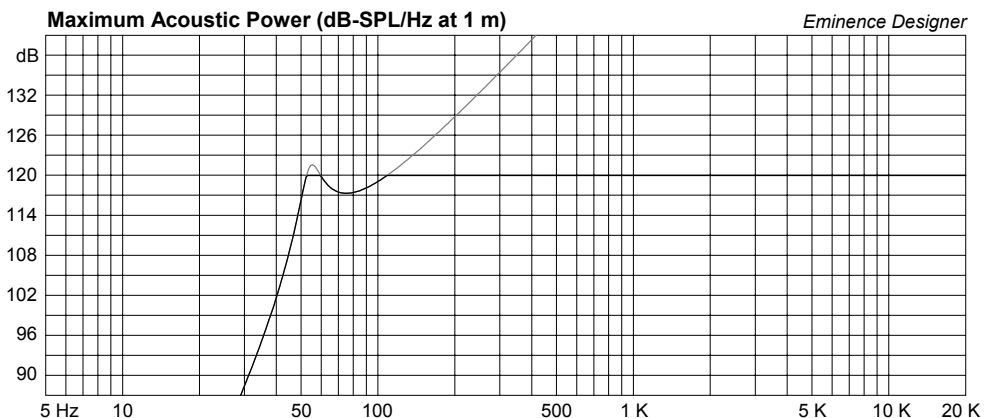
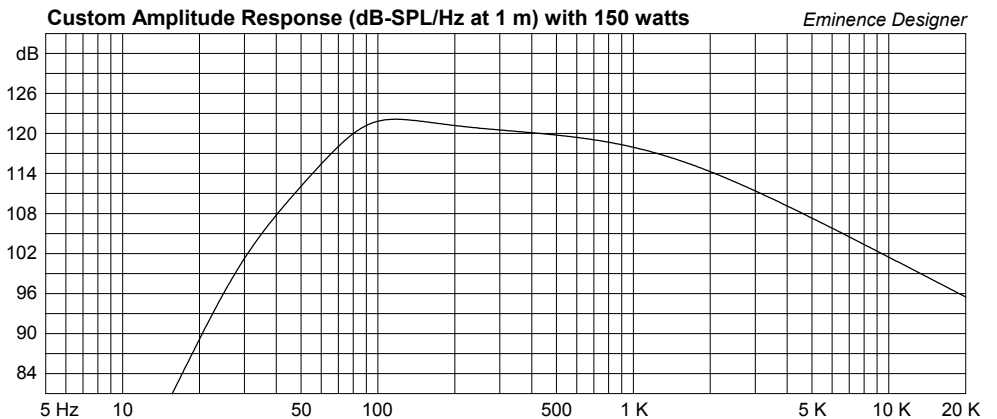
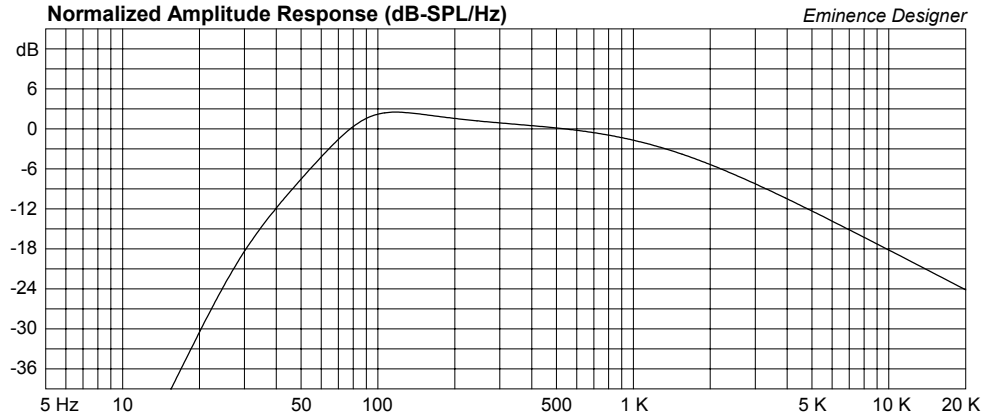
Qes = 0.5

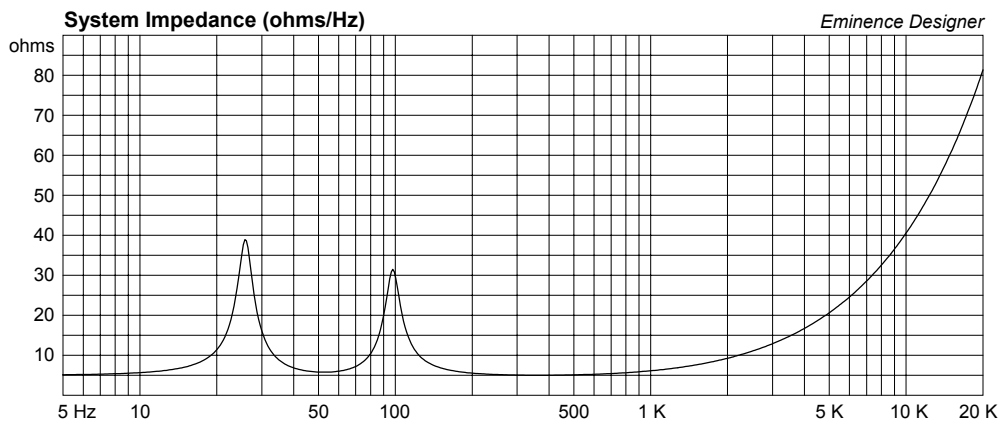
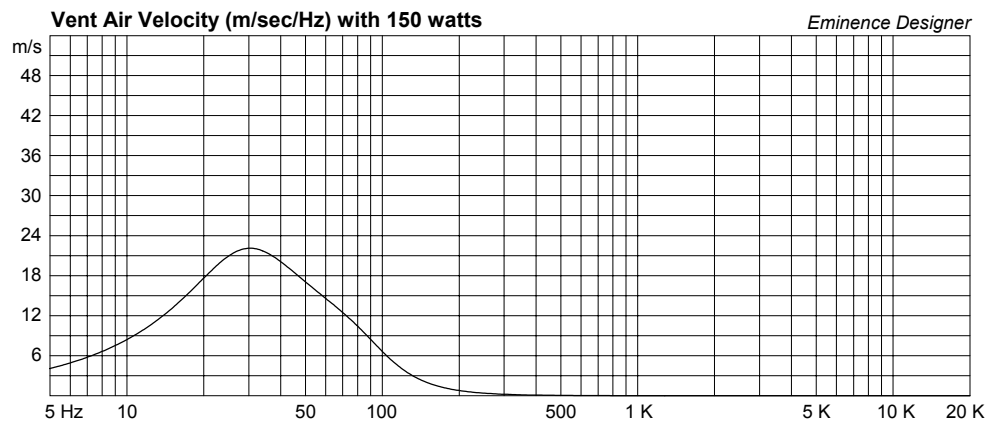
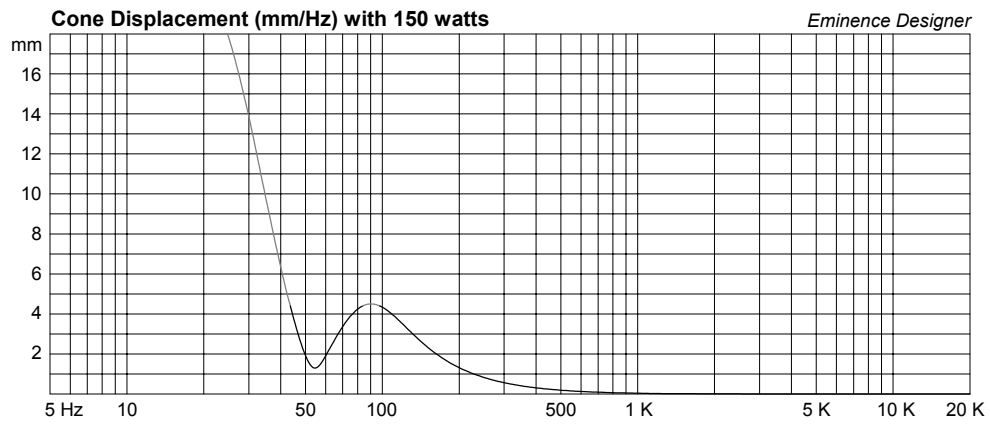
Re = 5 ohms

Le = 0.64 mH

Z = 8 ohms

Pe = 250 watts





Beta12A-2 Large Low Tuned Bass Guitar Cabinet

By Jerry McNutt, Eminence Speaker LLC

This cabinet is large and goes low. Classic smooth, deep, and rich sound.
Power is displacement limited to 75 Watts, but it reaches down low.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 4.75 cu.ft

V(total) = 4.892 cu.ft

Fb = 45 Hz

QL = 7

F3 = 42.69 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 2.567 in

Driver Properties

--Description--

Name:

Type: Standard one-way driver

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 46.8 Hz

Qms = 6

Vas = 120.1 liters

Xmax = 4.4 mm

Sd = 538.9 sq.cm

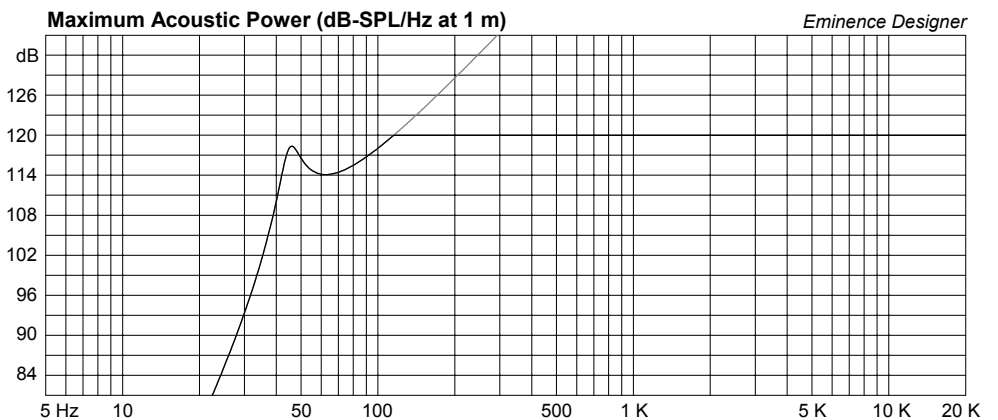
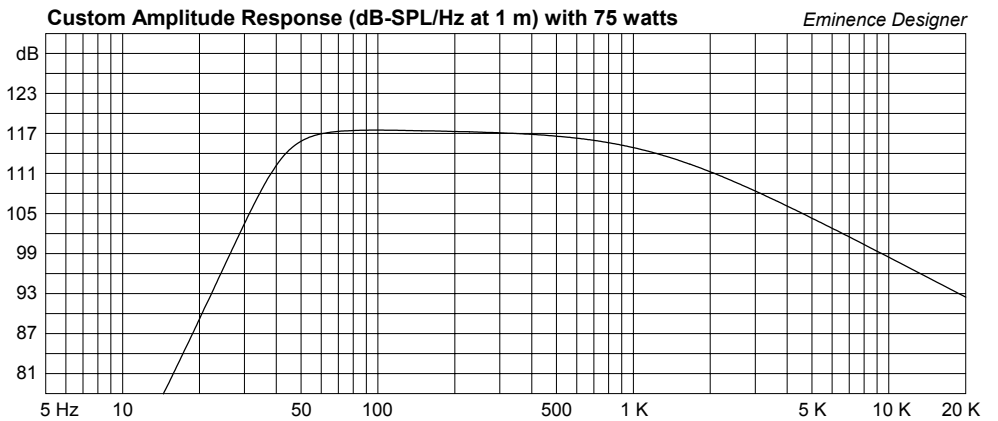
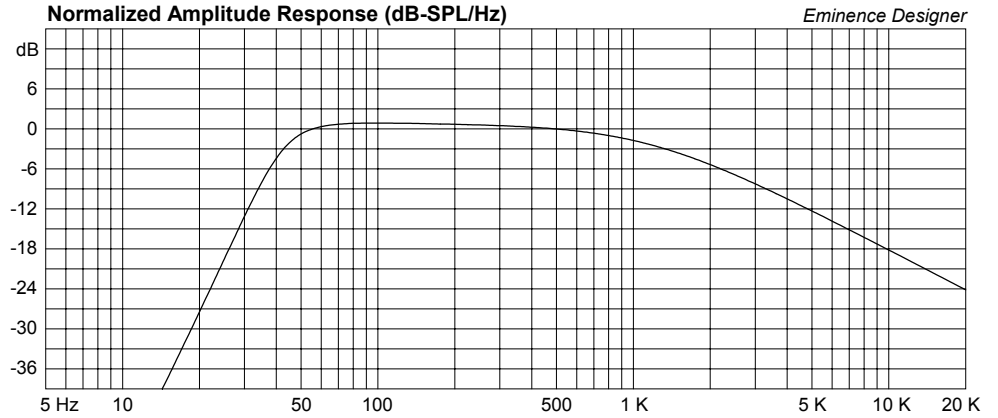
Qes = 0.5

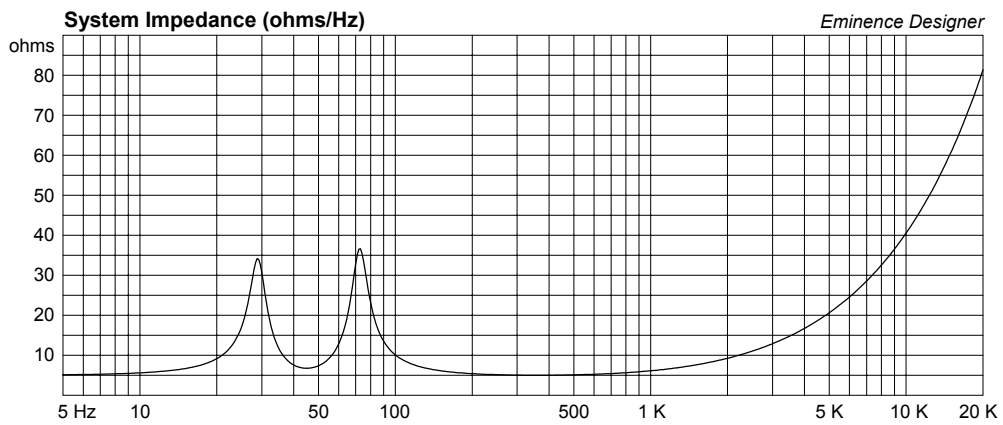
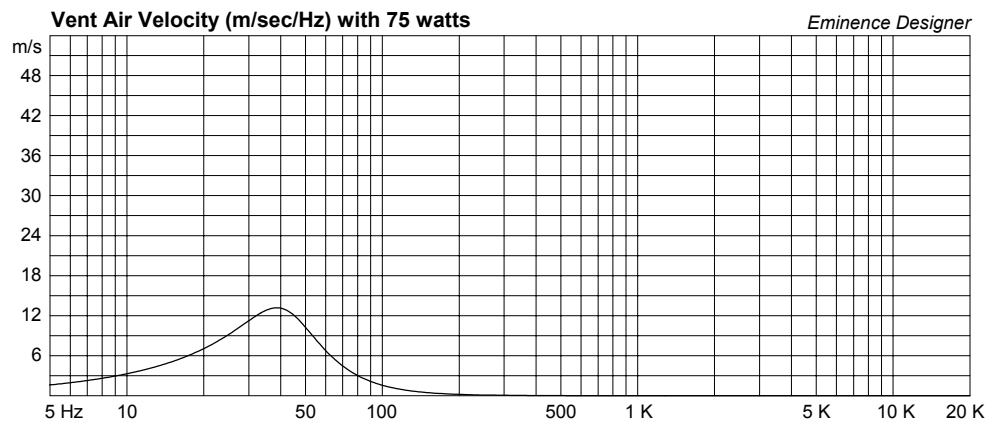
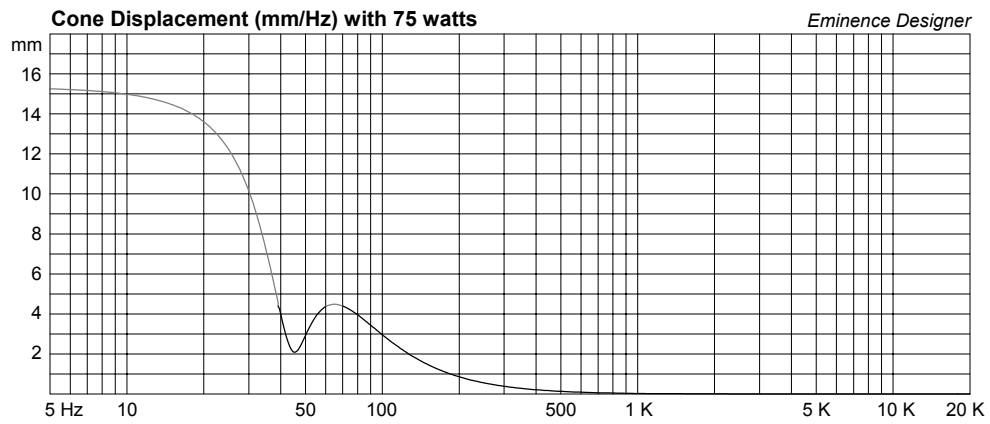
Re = 5 ohms

Le = 0.64 mH

Z = 8 ohms

Pe = 250 watts





Beta12A-2, Small Sealed Box

By Jerry McNutt, Eminence Speaker LLC

Great for Floor Monitors and small PA's when used with Subs.

High pass at 120 Hz; thermally limited to 250 Watts.

Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 0.904 cu.ft

V(total) = 1.016 cu.ft

Qtc = 0.812

QL = 19.96

F3 = 92.1 Hz

Fill = heavy

Driver Properties

--Description--

Name:

Type: Standard one-way driver

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 46.8 Hz

Qms = 6

Vas = 120.1 liters

Xmax = 4.4 mm

Sd = 538.9 sq.cm

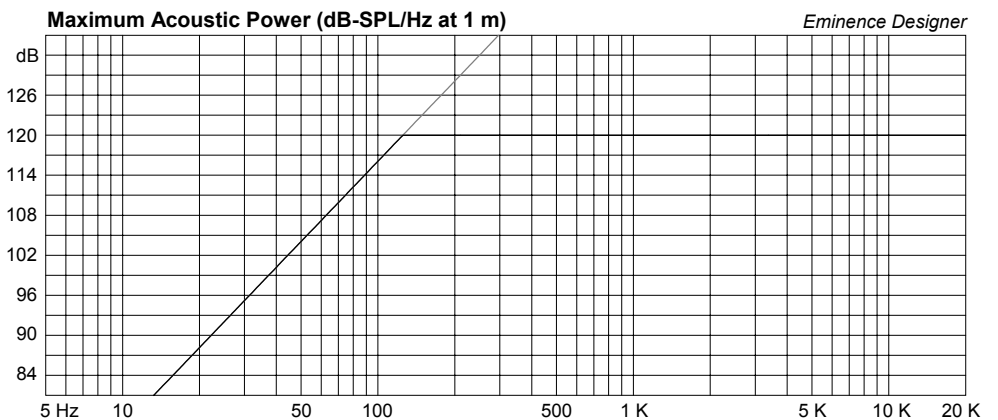
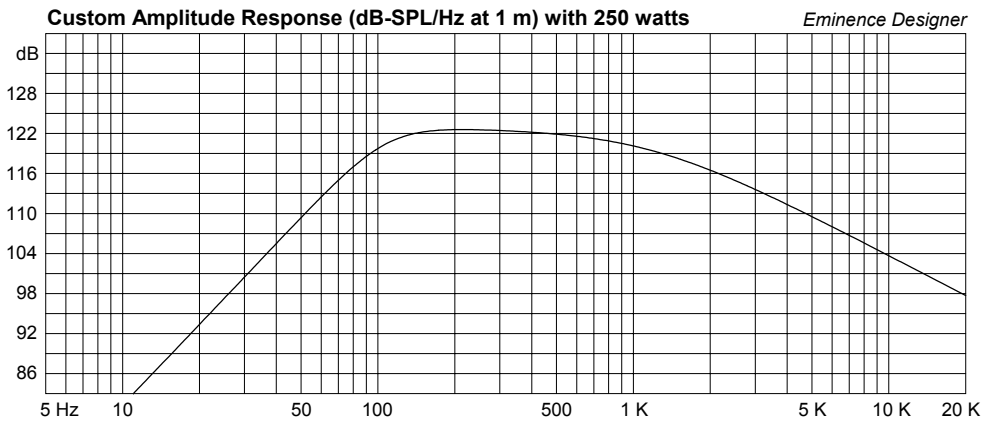
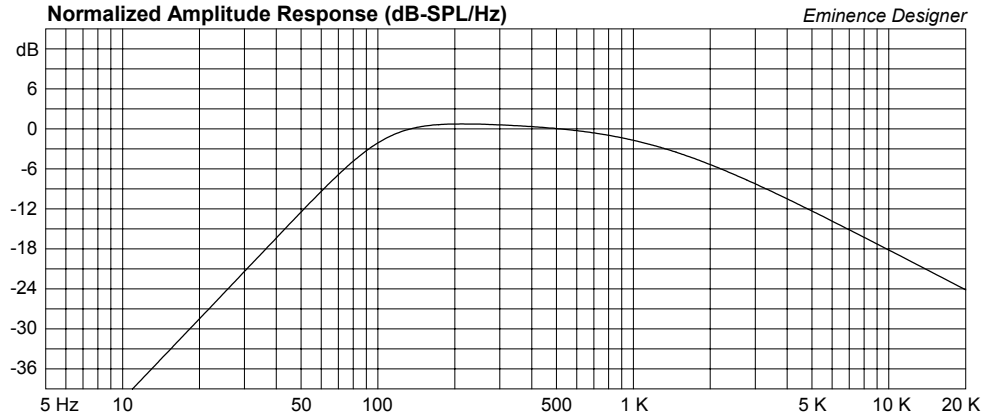
Qes = 0.5

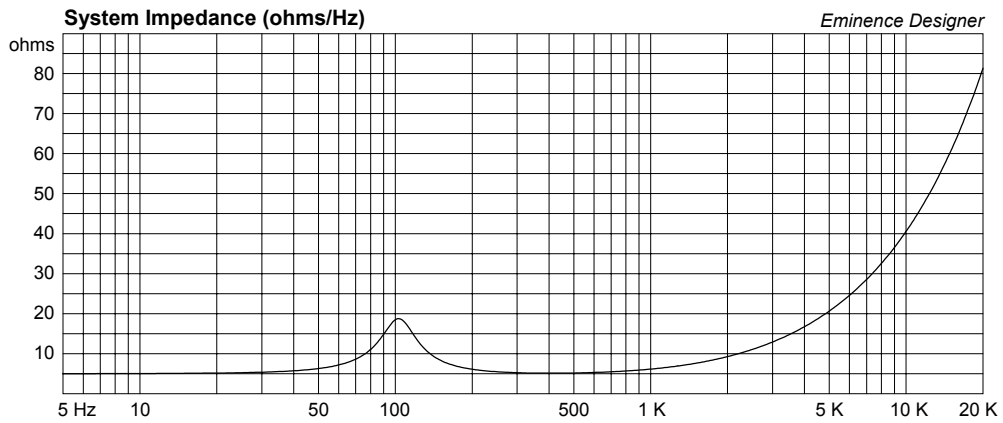
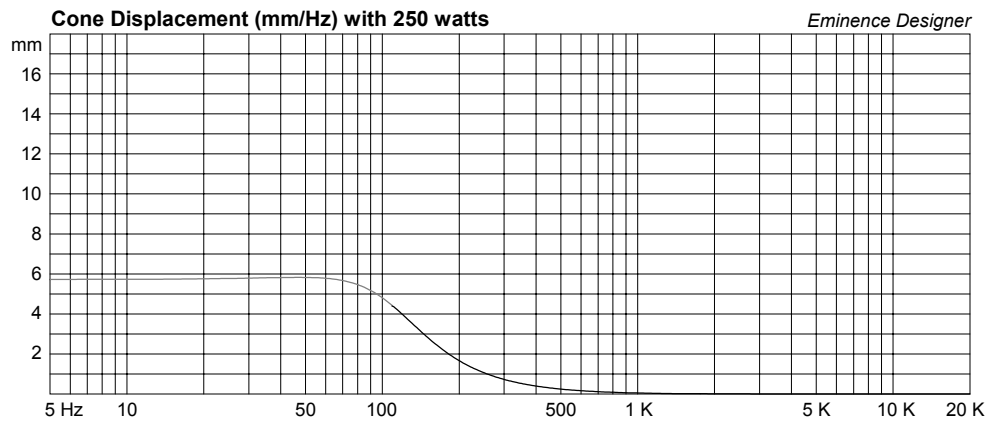
Re = 5 ohms

Le = 0.64 mH

Z = 8 ohms

Pe = 250 watts





Beta12A-2 Small Vented Box

By Jerry McNutt, Eminence Speaker LLC

Great for Small PA Main, PA Side Fill, or Floor Wedge.

High Pass no lower than 80 Hz; displacement limited to 200 Watts

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 1.25 cu.ft

V(total) = 1.405 cu.ft

Fb = 60 Hz

QL = 7

F3 = 73.47 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 5.238 in

Driver Properties

--Description--

Name:

Type: Standard one-way driver

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 46.8 Hz

Qms = 6

Vas = 120.1 liters

Xmax = 4.4 mm

Sd = 538.9 sq.cm

Qes = 0.5

Re = 5 ohms

Le = 0.64 mH

Z = 8 ohms

Pe = 250 watts

