

# Large Vented Box Design

By Anthony Lucas, Eminence Speaker

Displacement limited to 375W, high-pass filter suggested at 45Hz.

Flat response down to 45Hz. Good for bass guitar or satellite with no sub.



## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 3.6 cu.ft

V(total) = 3.816 cu.ft

Fb = 45 Hz

QL = 7

F3 = 45.05 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 4.907 in

## Driver Properties

--Description--

Name:

Type: Two-way coaxial driver

--Configuration--

**No. of Drivers = 1**

--Mechanical Parameters--

Fs = 42.12 Hz

Qms = 8.37

Vas = 111.5 liters

Cms = 0.27 mm/N

Mms = 53.52 g

Rms = 1.69 kg/s

Xmax = 7.47 mm

Xmech = 17.84 mm

P-Dia = 262 mm

Sd = 545.4 sq.cm

P-Vd = 0.403 liters

--Electrical Parameters--

Qes = 0.31

Re = 5.7 ohms

Le = 0.61 mH

Z = 8 ohms

BL = 16.02 Tm

Pe = 400 watts

--Electromech. Parameters--

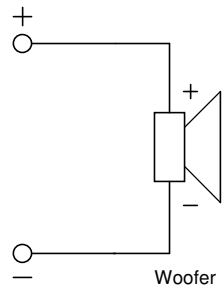
Qts = 0.3

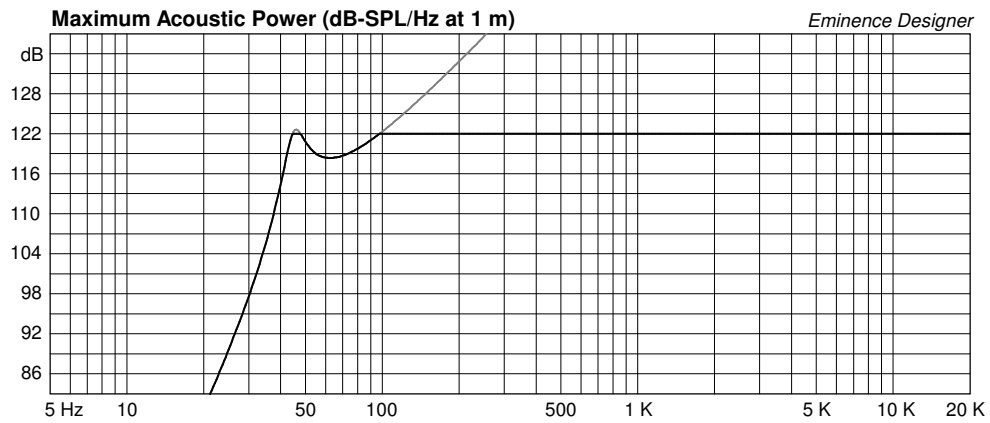
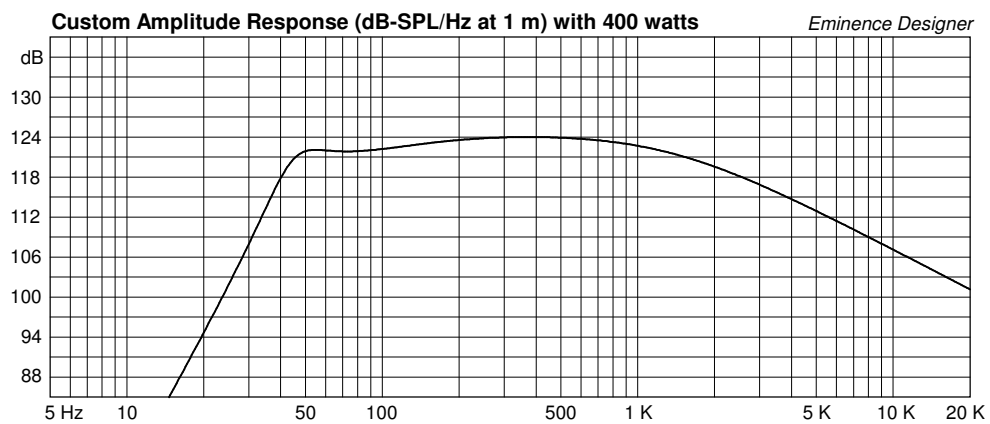
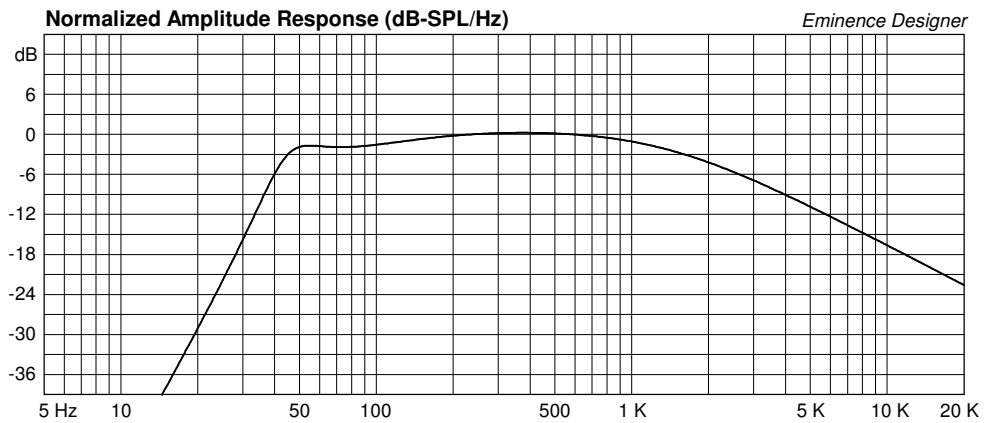
no = 2.591 %

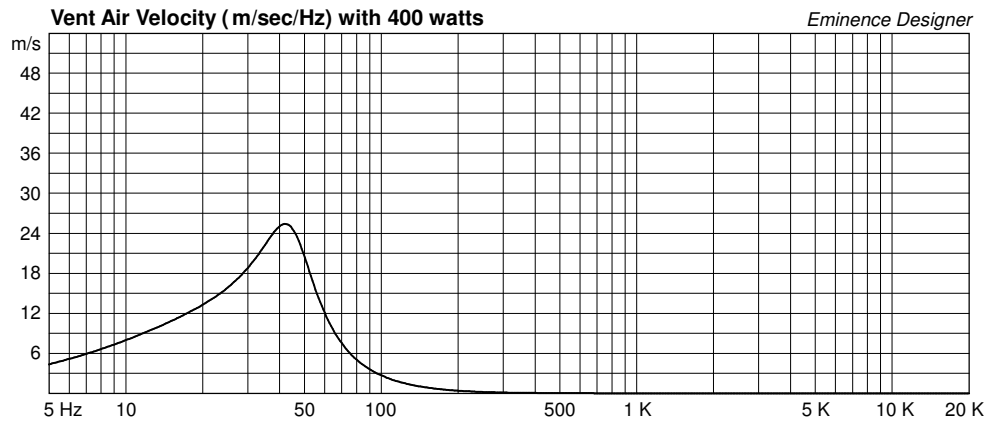
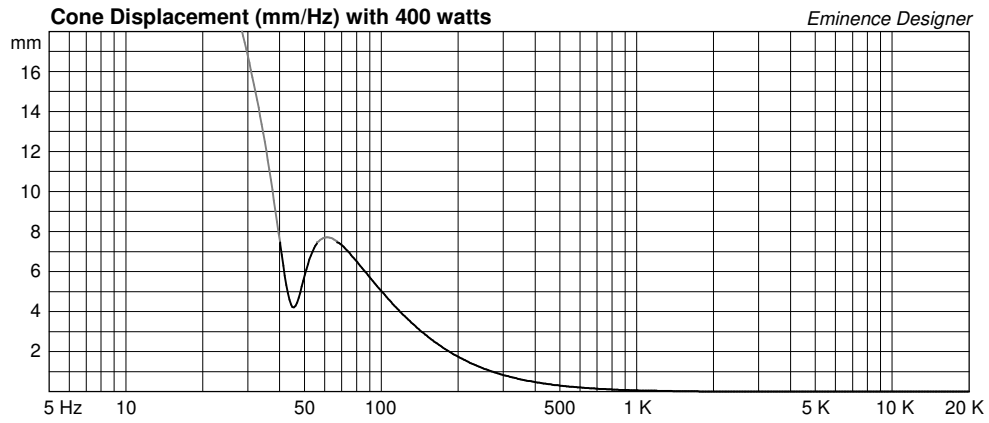
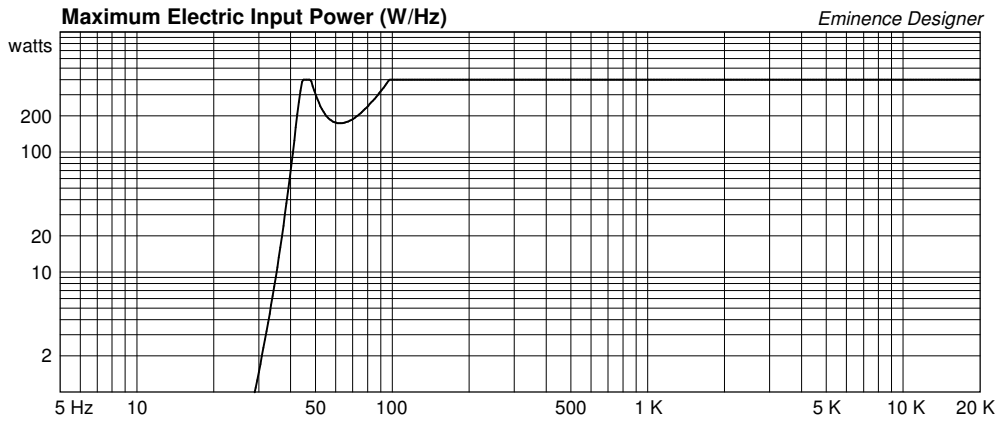
1-W SPL = 96.28 dB

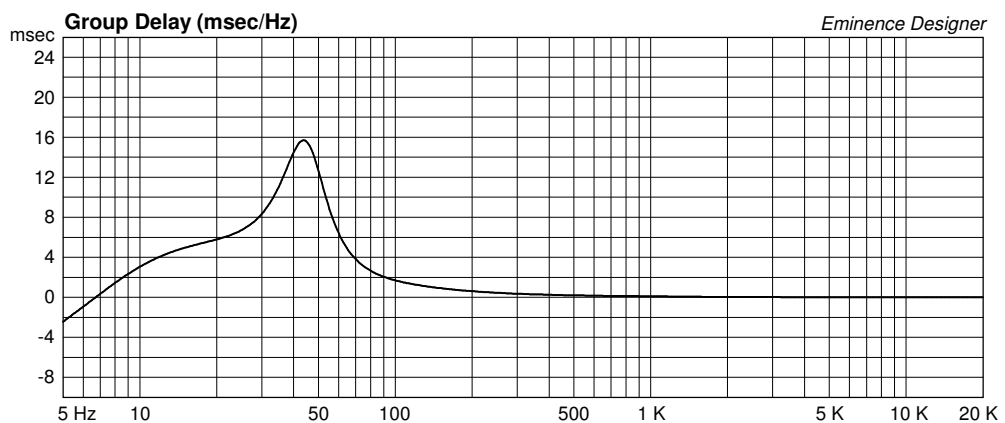
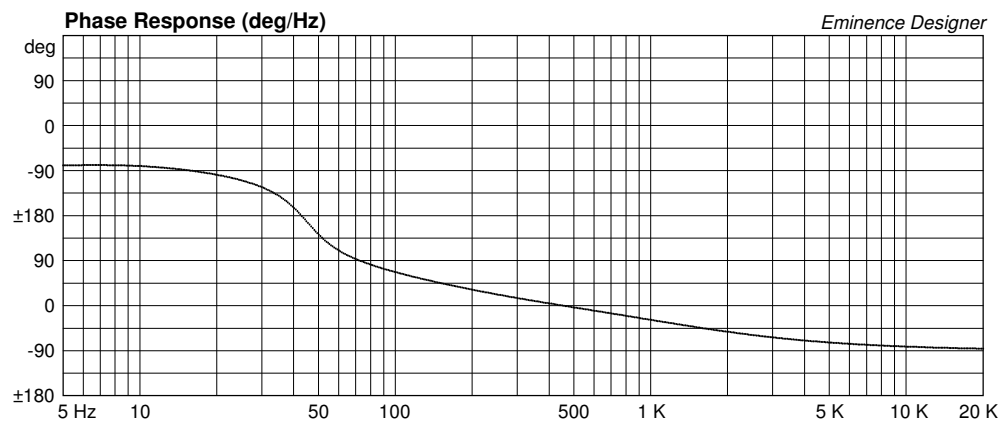
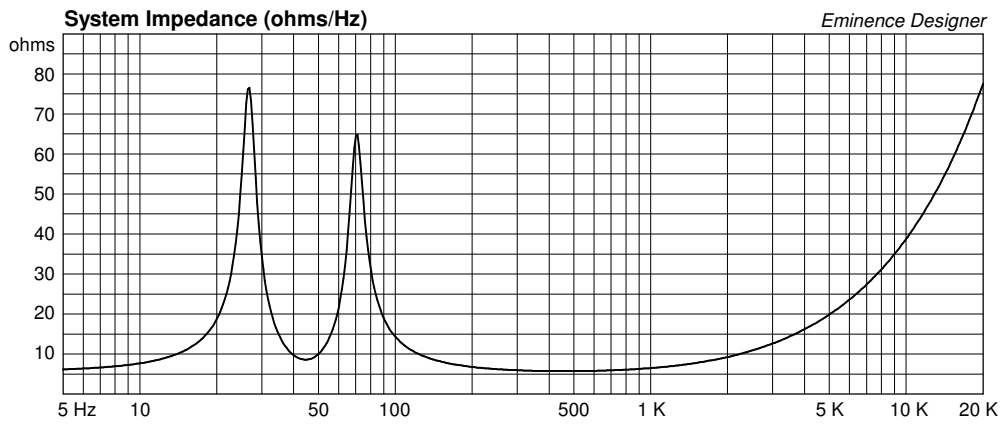
2.83-V SPL = 97.75 dB

### Wiring Diagram









# Medium Vented Bass Guitar

By Anthony Lucas, Eminence Speaker  
400 watts, high-pass filter suggested @ 50Hz.  
Designed specifically for bass guitar

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## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 2.5 cu.ft

V(total) = 2.71 cu.ft

Fb = 55 Hz

QL = 7

F3 = 53.11 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 4.559 in

## Driver Properties

--Description--

Name:

Type: Two-way coaxial driver

--Configuration--

**No. of Drivers = 1**

--Mechanical Parameters--

Fs = 42.12 Hz

Qms = 8.37

Vas = 111.5 liters

Cms = 0.27 mm/N

Mms = 53.52 g

Rms = 1.69 kg/s

Xmax = 7.47 mm

Xmech = 17.84 mm

P-Dia = 262 mm

Sd = 545.4 sq.cm

P-Vd = 0.403 liters

--Electrical Parameters--

Qes = 0.31

Re = 5.7 ohms

Le = 0.61 mH

Z = 8 ohms

BL = 16.02 Tm

Pe = 400 watts

--Electromech. Parameters--

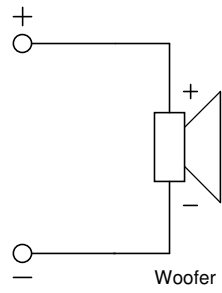
Qts = 0.3

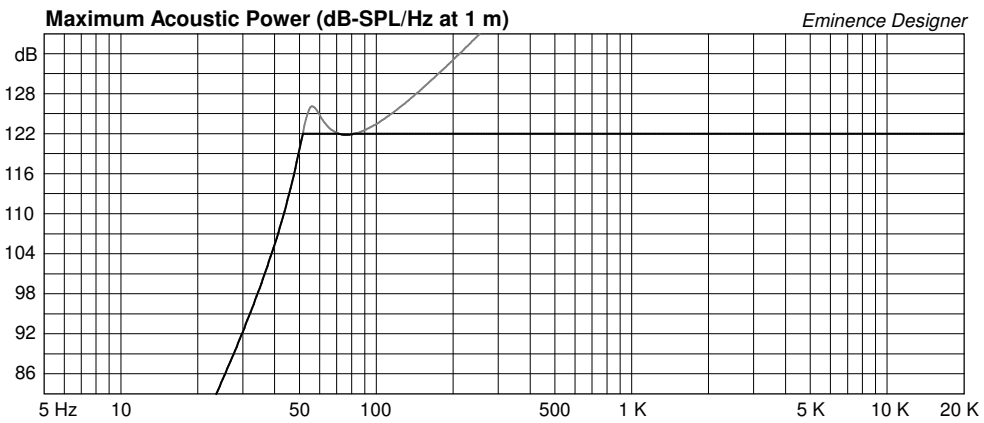
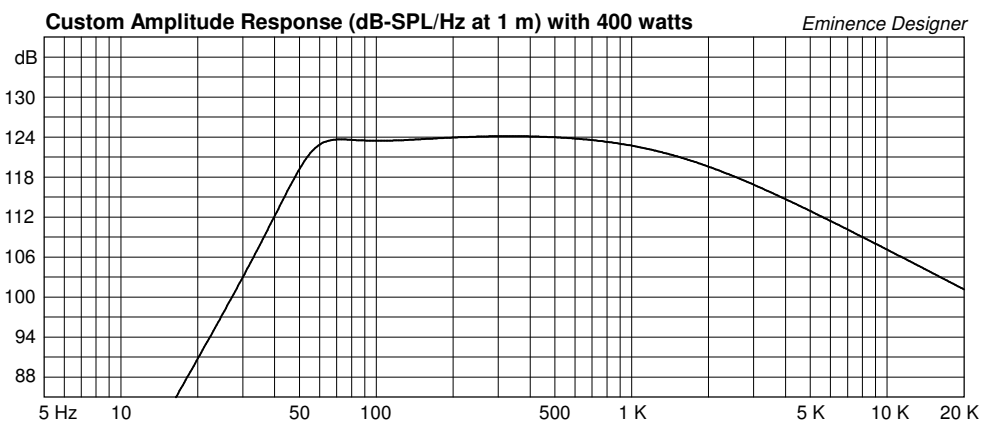
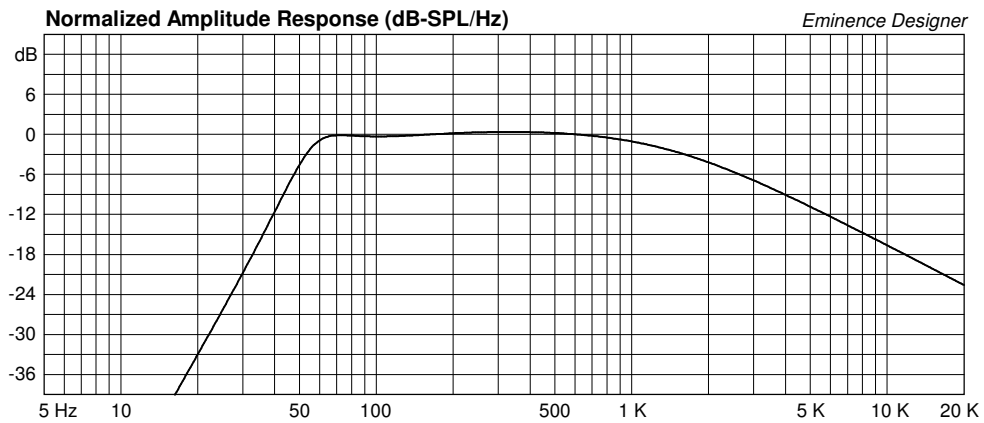
no = 2.591 %

1-W SPL = 96.28 dB

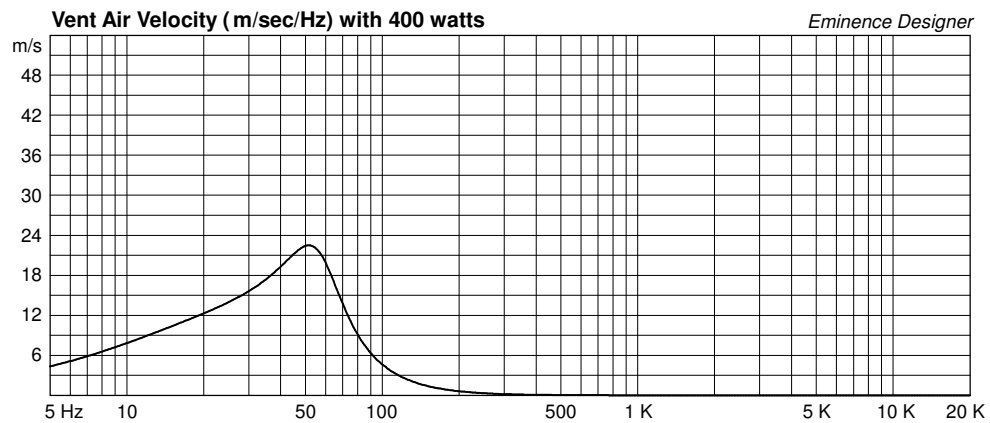
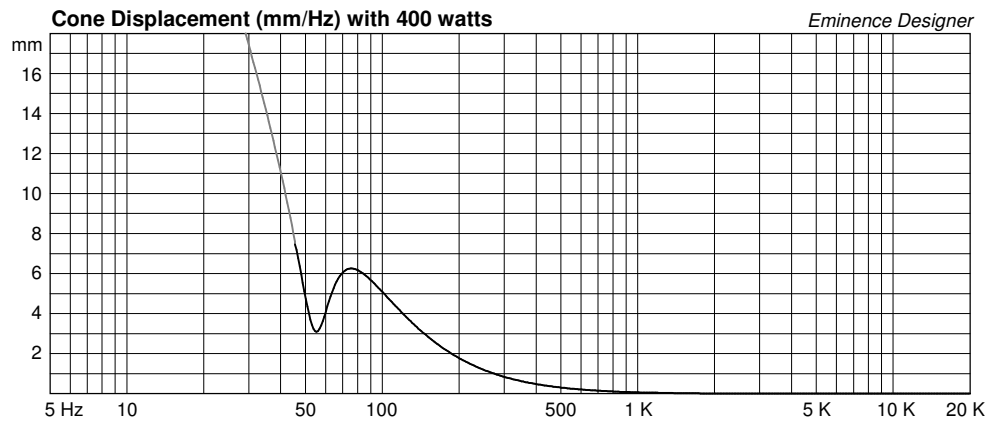
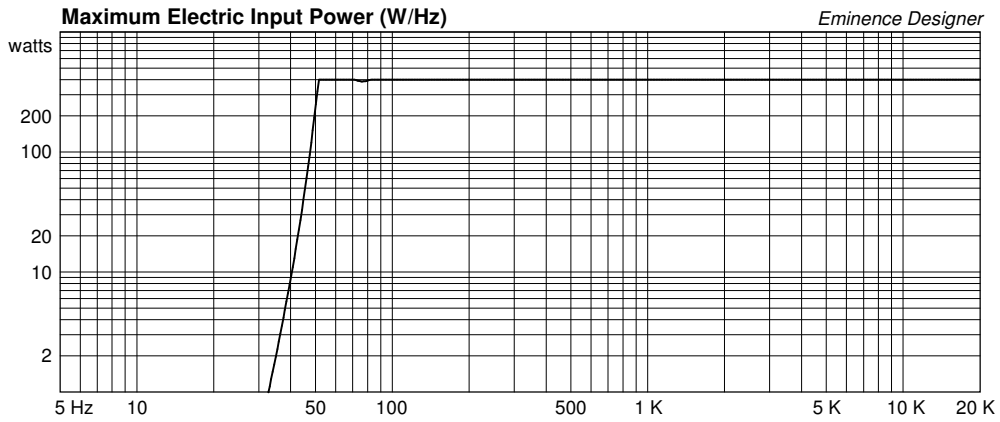
2.83-V SPL = 97.75 dB

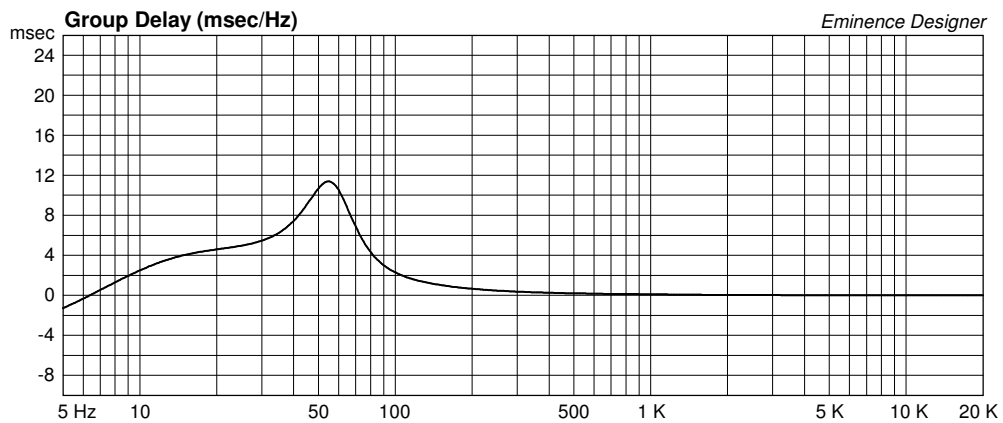
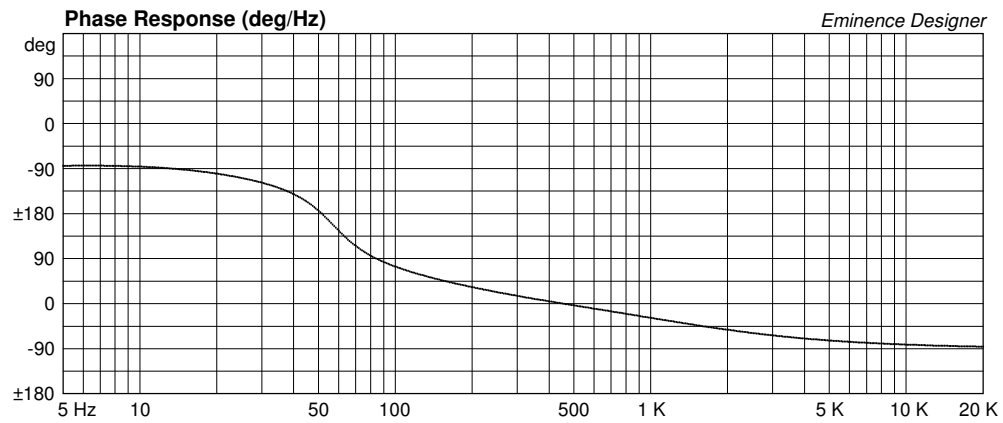
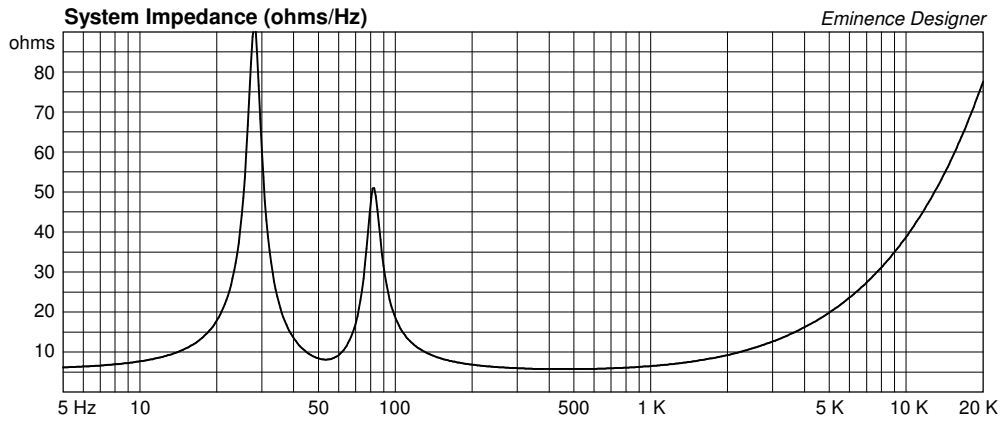
### Wiring Diagram











# Medium Vented Design

By Anthony Lucas, Eminence Speaker  
400 watts, F3 @ 60Hz, high-pass filter suggested @ 55Hz.  
Great monitor or satellite down to 60Hz.

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## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 2 cu.ft

V(total) = 2.194 cu.ft

Fb = 65 Hz

QL = 7

F3 = 60.37 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 3.58 in

## Driver Properties

--Description--

Name:

Type: Two-way coaxial driver

--Configuration--

**No. of Drivers = 1**

--Mechanical Parameters--

Fs = 42.12 Hz

Qms = 8.37

Vas = 111.5 liters

Cms = 0.27 mm/N

Mms = 53.52 g

Rms = 1.69 kg/s

Xmax = 7.47 mm

Xmech = 17.84 mm

P-Dia = 262 mm

Sd = 545.4 sq.cm

P-Vd = 0.403 liters

--Electrical Parameters--

Qes = 0.31

Re = 5.7 ohms

Le = 0.61 mH

Z = 8 ohms

BL = 16.02 Tm

Pe = 400 watts

--Electromech. Parameters--

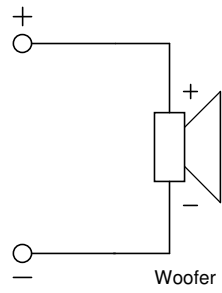
Qts = 0.3

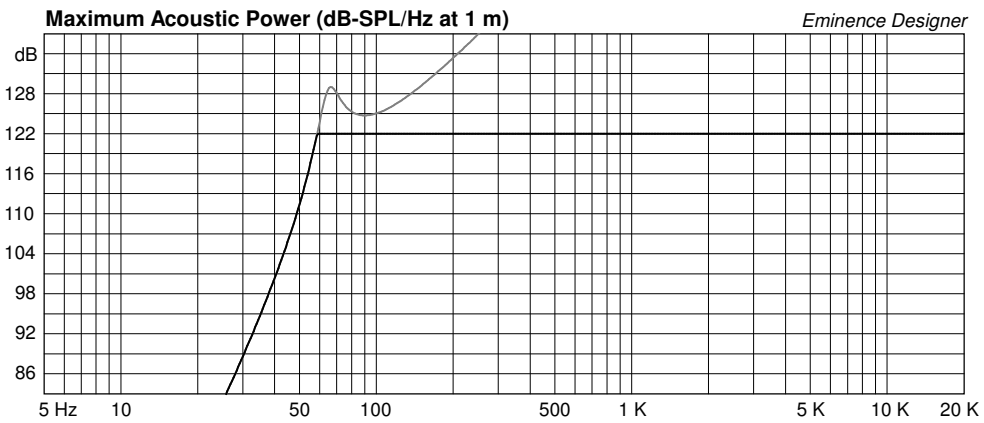
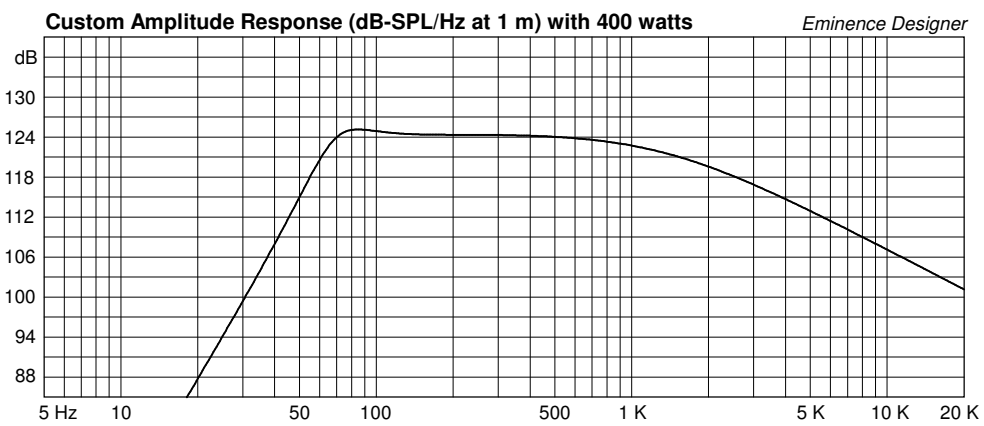
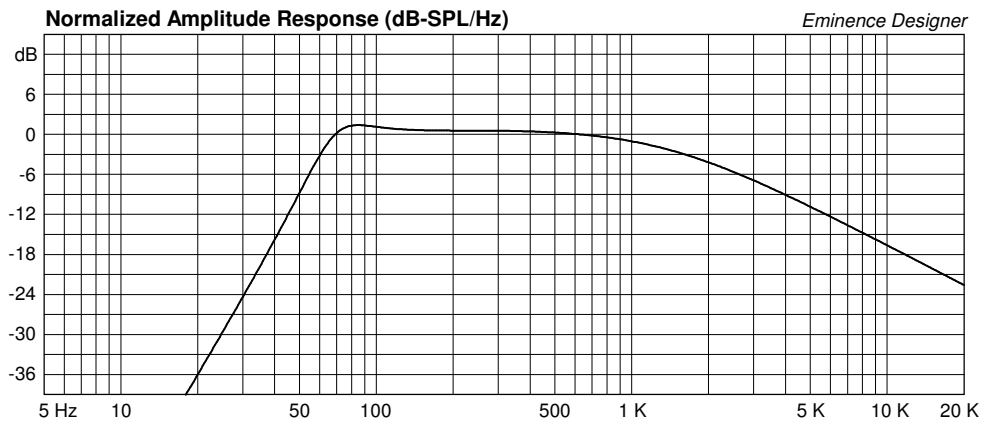
no = 2.591 %

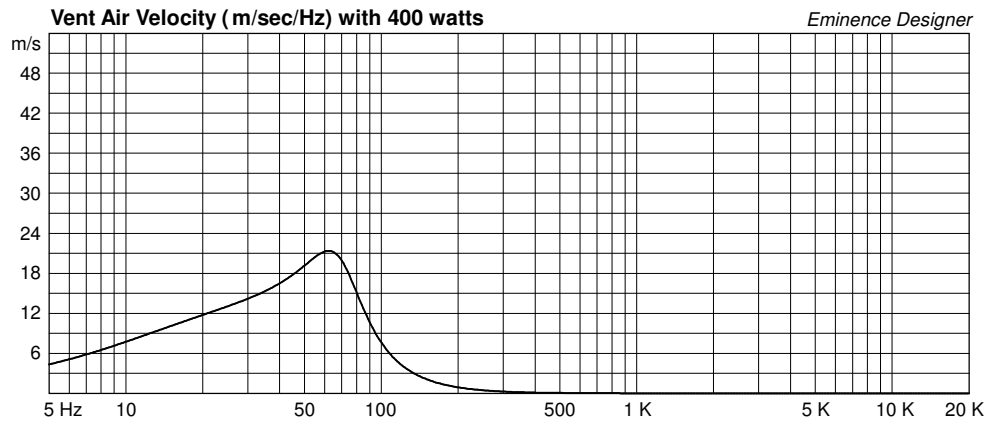
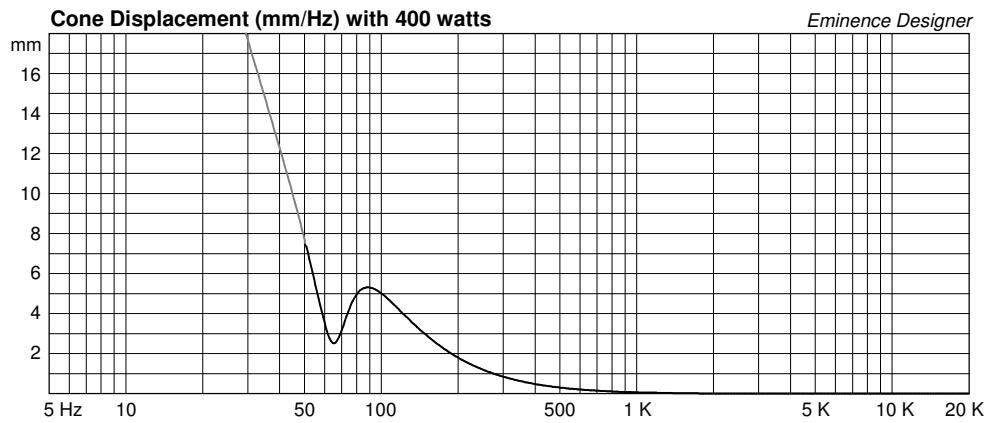
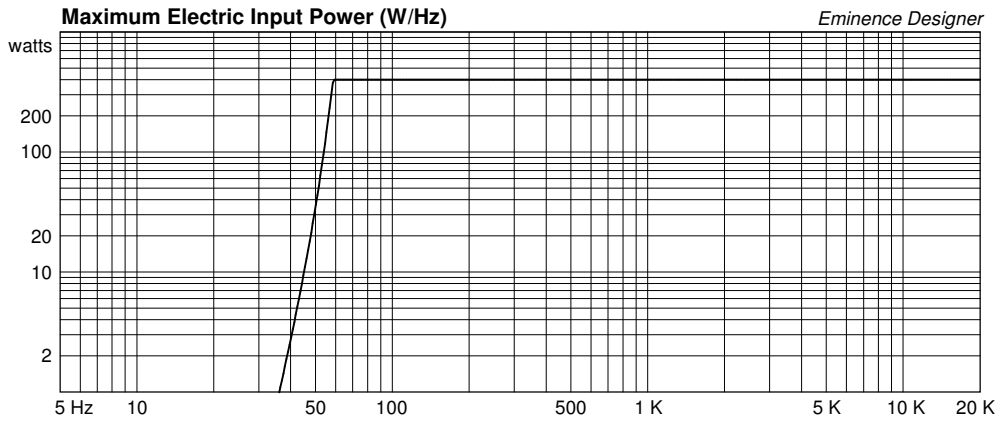
1-W SPL = 96.28 dB

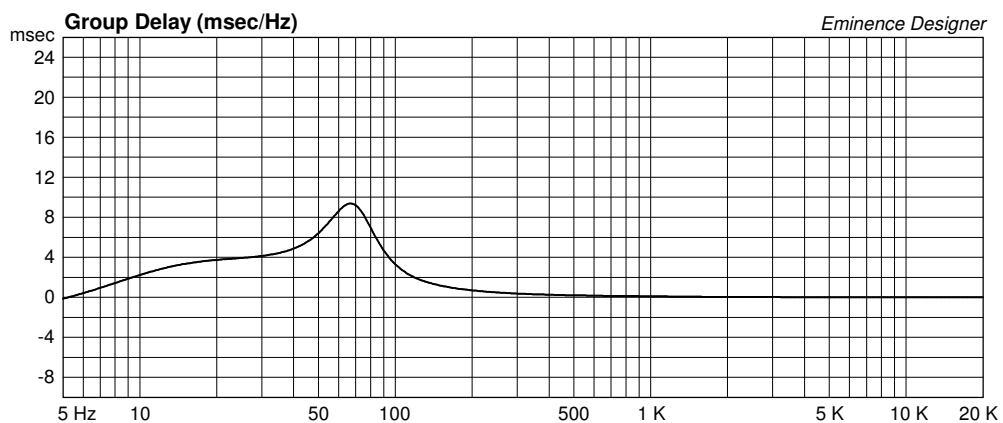
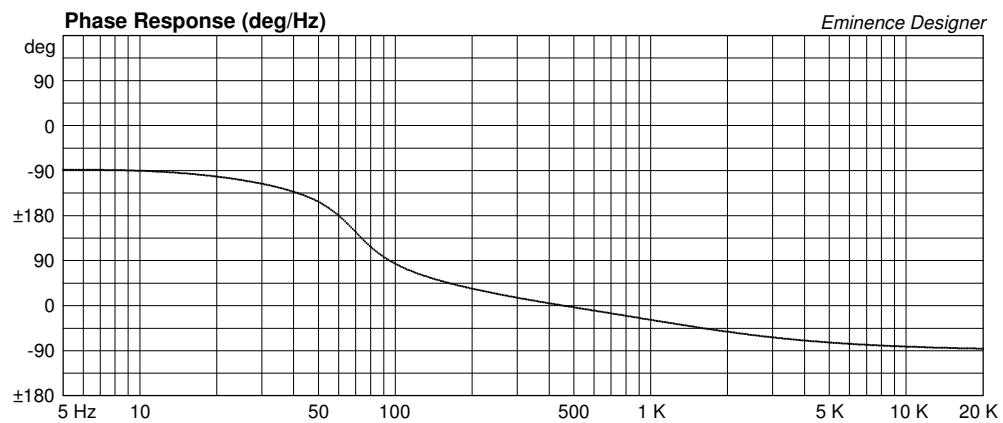
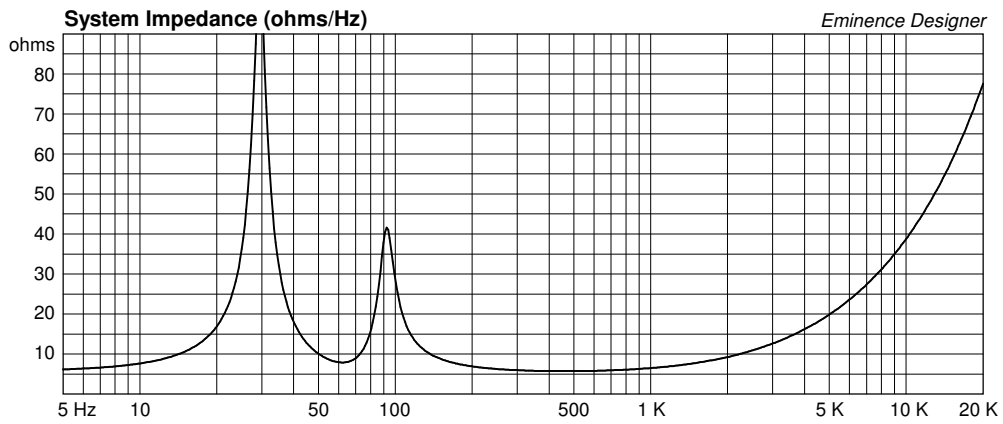
2.83-V SPL = 97.75 dB

### Wiring Diagram









# Small Vented Cab Design

By Anthony Lucas, Eminence Speaker  
400 watts, high-pass filter suggested @ 50Hz.  
Small box great for monitor or satellite.



## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 1.25 cu.ft

V(total) = 1.526 cu.ft

Fb = 65 Hz

QL = 7

F3 = 68.88 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 8.582 in

## Driver Properties

--Description--

Name:

Type: Two-way coaxial driver

--Configuration--

**No. of Drivers = 1**

--Mechanical Parameters--

Fs = 42.12 Hz

Qms = 8.37

Vas = 111.5 liters

Cms = 0.27 mm/N

Mms = 53.52 g

Rms = 1.69 kg/s

Xmax = 7.47 mm

Xmech = 17.84 mm

P-Dia = 262 mm

Sd = 545.4 sq.cm

P-Vd = 0.403 liters

--Electrical Parameters--

Qes = 0.31

Re = 5.7 ohms

Le = 0.61 mH

Z = 8 ohms

BL = 16.02 Tm

Pe = 400 watts

--Electromech. Parameters--

Qts = 0.3

no = 2.591 %

1-W SPL = 96.28 dB

2.83-V SPL = 97.75 dB



### Wiring Diagram

