

## Specification

Nominal Basket Diameter	10", 254mm
Nominal Impedance*	8 ohms
Power Rating**	
Watts	250W
Music Program	500W
Resonance	53Hz
Usable Frequency Range***	60Hz-4kHz
Sensitivity	97.3
Magnet Weight	7 oz
Gap Height	0.275", 7mm
Voice Coil Diameter	2.5", 63.5mm

## Thiele & Small Parameters

Resonant Frequency (fs)	53Hz
DC Resistance (Re)	5.06
Coil Inductance (Le)	0.40mH
Mechanical Q (Qms)	5.76
Electromagnetic Q (Qes)	0.45
Total Q (Qts)	0.42
Compliance Equivalent Volume (Vas)	52.5 ltr/1.9 cu. ft.
Peak Diaphragm Displacement Volume (Vd)	147cc
Mechanical Compliance of Suspension (Cms)	0.30mm/N
BL Product (BL)	10.6 T-M
Diaphragm Mass inc. Airload (Mms)	31 grams
Efficiency Bandwidth Product (EBP)	117
Maximum Linear Excursion (Xmax)	4.2mm
Surface Area of Cone (Sd)	350.1cm <sup>2</sup>
Maximum Mechanical Limit (Xlim)	8.0mm

## Mounting Information

Recommended Enclosure Volume	
Sealed	12.7-17 ltr/0.45-0.6 cu. ft.
Vented	17-39.6 ltr/0.6-1.4 cu. ft.
Overall Diameter	10.25", 260.4mm
Baffle Hole Diameter	9.15", 232.4mm
Front Sealing Gasket	Fitted as Standard
Rear Sealing Gasket	Fitted as Standard
Mounting Holes Diameter	0.28", 7mm
Mounting Holes B.C.D.	9.73", 247.1mm
Depth	4.9", 123.8mm
Net Weight	4.6 lbs, 2.1 kg
Shipping Weight	5.7 lbs, 2.6 kg

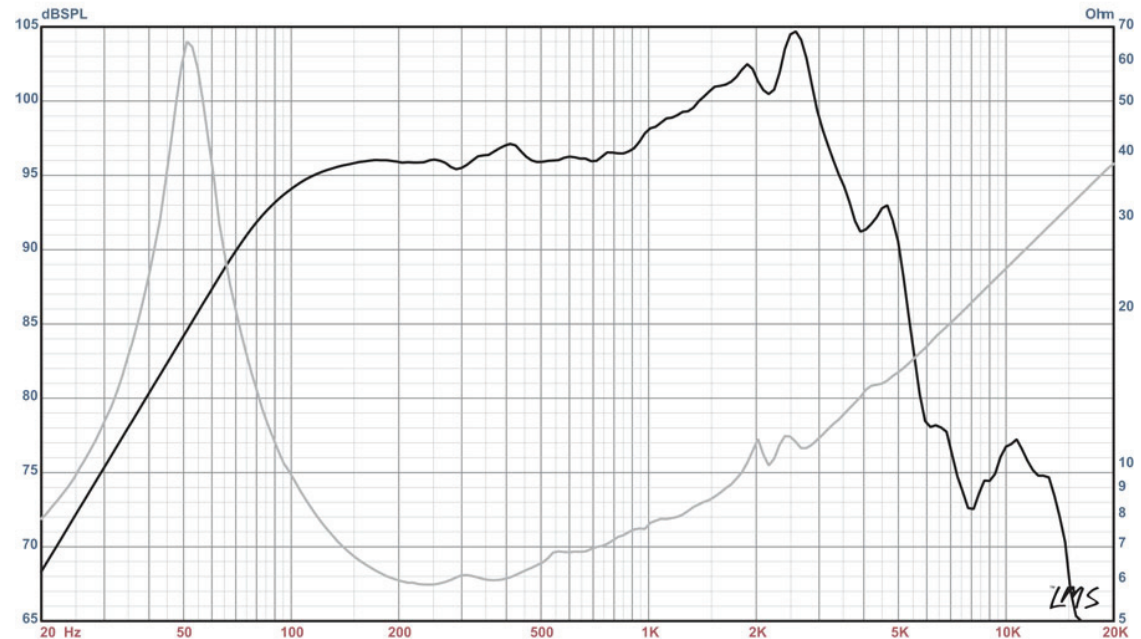
## Materials of Construction

Coil Construction	Aluminum
Coil	Polyimide
Magnet Composition	Neodymium
Core Details	Vented
Basket Materials	Die-Cast Aluminum/Heatsink
Cone Composition	Paper
Cone Edge Composition	Cloth
Dust Cap Composition	Solid Composition Paper



## DELTALITE® II 2510 Neodymium

Recommended for professional audio as a mid/hi or full-range and monitor; also for bass guitar. Works well in sealed or vented enclosures.



\* Please inquire about alternative impedances.

\*\* Multiple units exceed published rating evaluated under EIA 426A noise source and test standard while in a free-air, nontemperature-controlled environment.

\*\*\* The average output across the usable frequency range when applying 1W/1m into the nominal impedance. I.e: 2.83 V/8 ohms, 4 V/16 ohms.

Eminence response curves are measured under the following conditions: All speakers are tested at 1W/1m using a variety of test set-ups for the appropriate impedance | LMS using 0.25" supplied microphone (software calibrated) mounted 1m from wall/baffle | 2 ft. X 2 ft. baffle is built into the wall with the speaker mounted flush against a steel ring for minimum diffraction | Hafler P1500 Trans-Nova amplifier | 2700 cu.ft. chamber with fiberglass on all six surfaces (three with custom-made wedges)

# DeltaLite-II 2510 Larger Vented Cab, Low Pwr FR PA

By Jerry McNutt, Eminence Speaker LLC

Displacement Limited to 100 Watts if used down to 55 Hz. F3 of 60 Hz. Can handle more power if crossed over higher.

## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 1.25 cu.ft

V(total) = 1.366 cu.ft

Fb = 58 Hz

QL = 7

F3 = 59.67 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 4.377 in

## Driver Properties

--Description--

Name:

Type: Standard one-way driver

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 52.51 Hz

Qms = 5.76

Vas = 52.51 liters

Xmax = 4.2 mm

Sd = 350.1 sq.cm

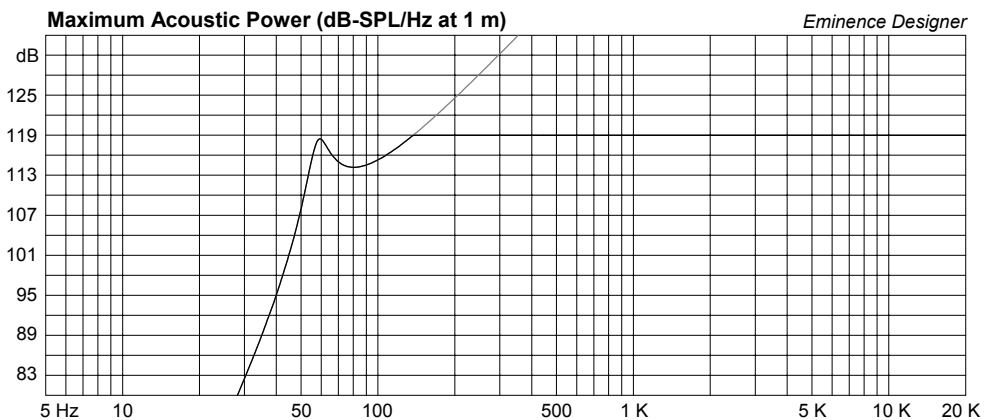
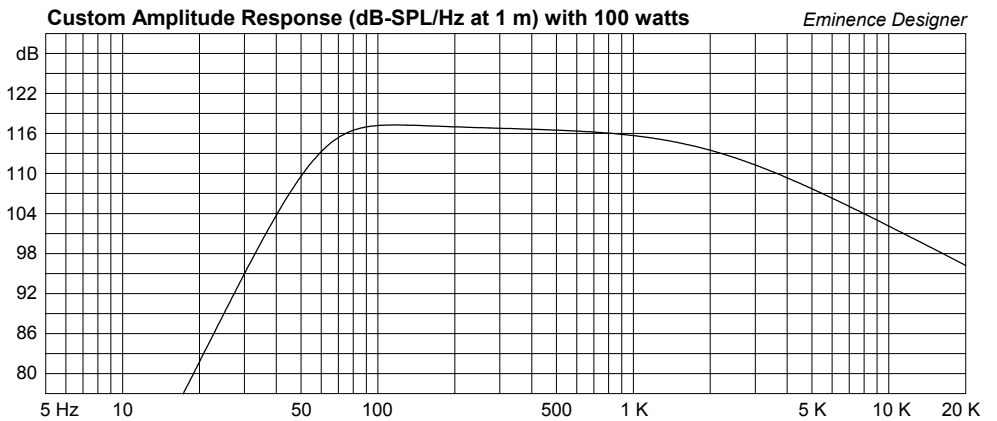
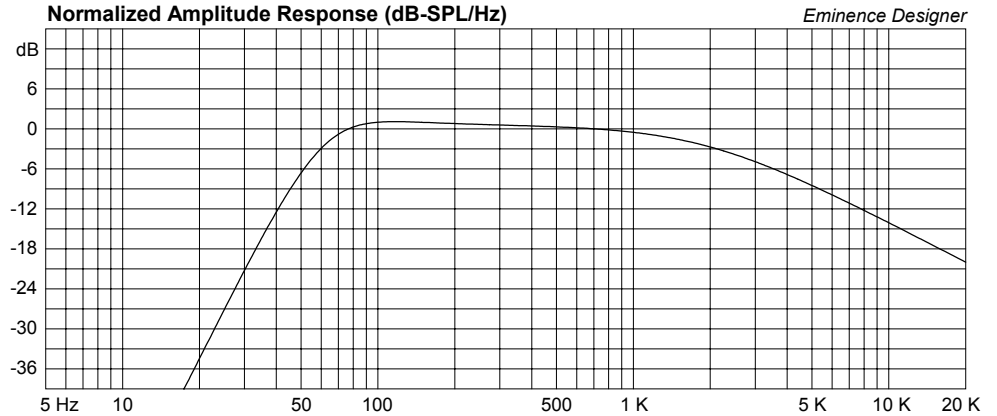
Qes = 0.45

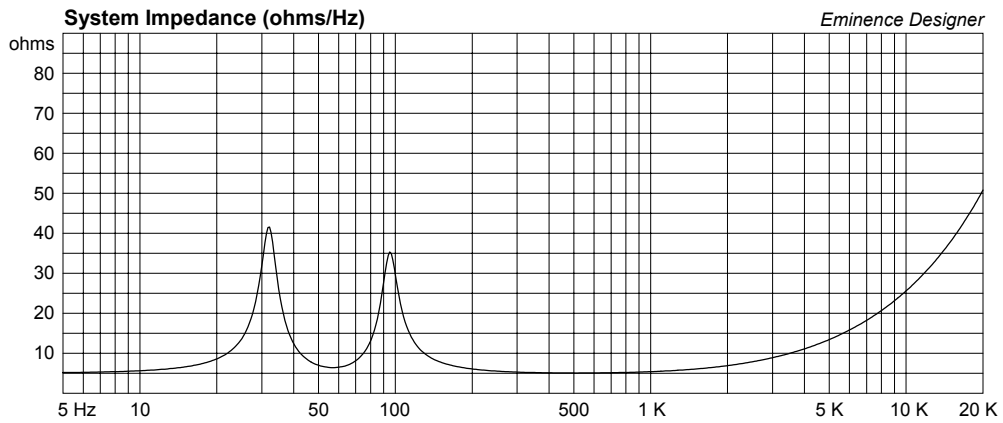
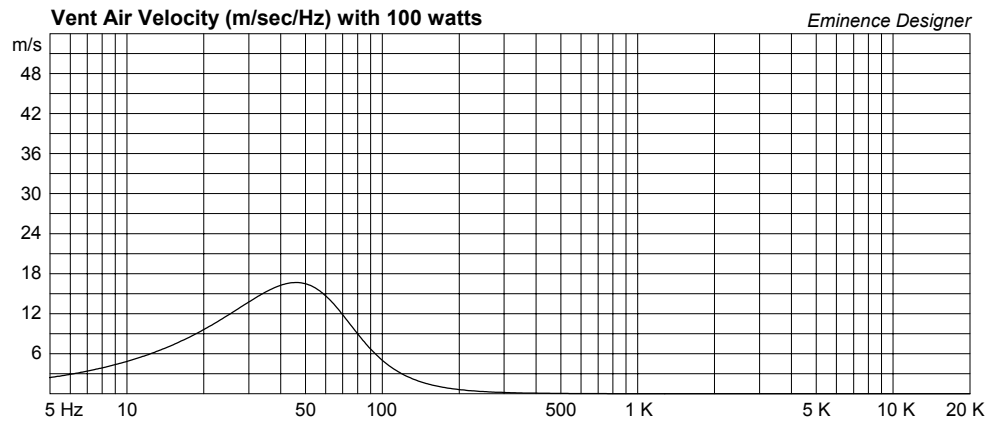
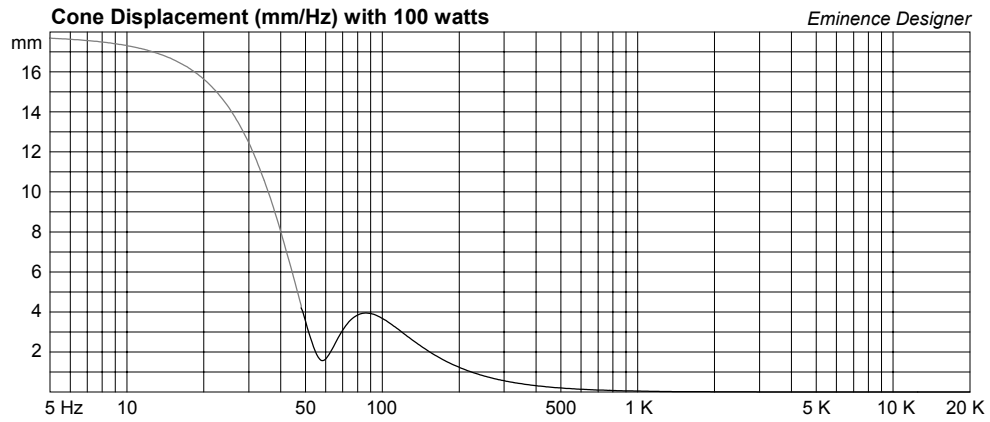
Re = 5.06 ohms

Le = 0.4 mH

Z = 8 ohms

Pe = 300 watts





# DeltaLite-II 2510 Med Vented Cabinet

By Jerry McNutt, Eminence Speaker LLC

Displacement Limited to 200 Watts if used down to 80 Hz. If used only above 100 Hz then it is Thermally limited to 300 Watts. F3 of 81 Hz.

## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 0.6 cu.ft

V(total) = 0.733 cu.ft

Fb = 75 Hz

QL = 7

F3 = 81.14 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 6.437 in

## Driver Properties

--Description--

Name:

Type: Standard one-way driver

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 52.51 Hz

Qms = 5.76

Vas = 52.51 liters

Xmax = 4.2 mm

Sd = 350.1 sq.cm

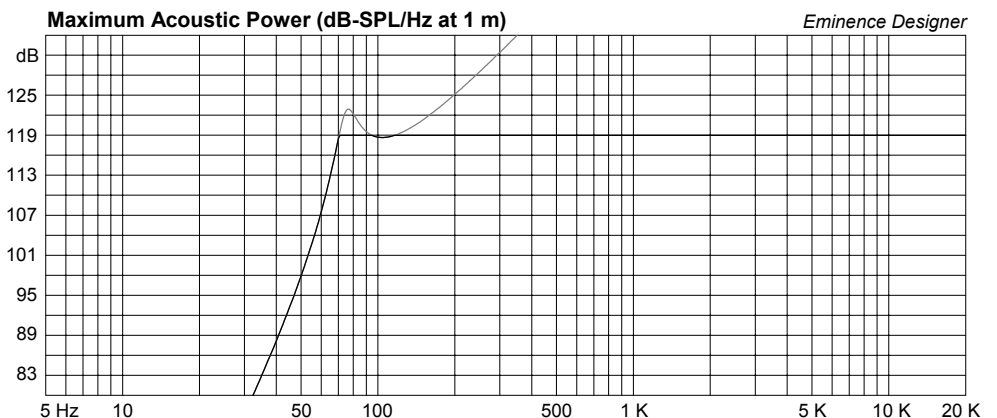
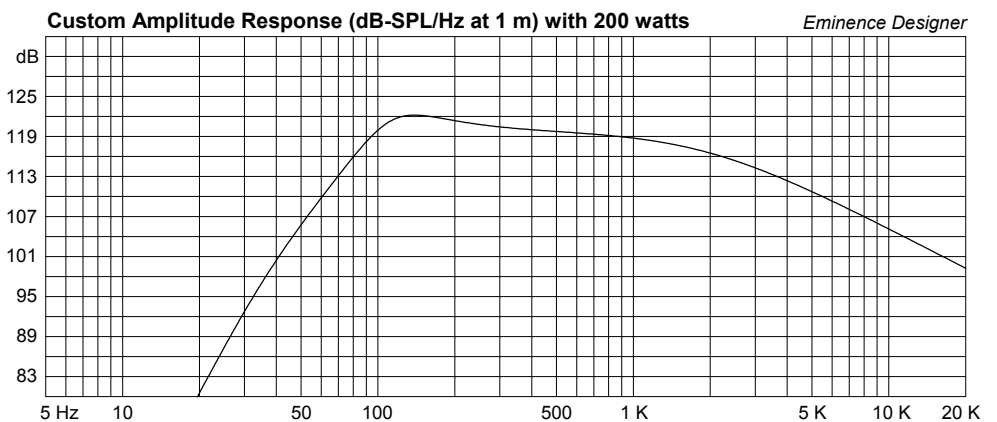
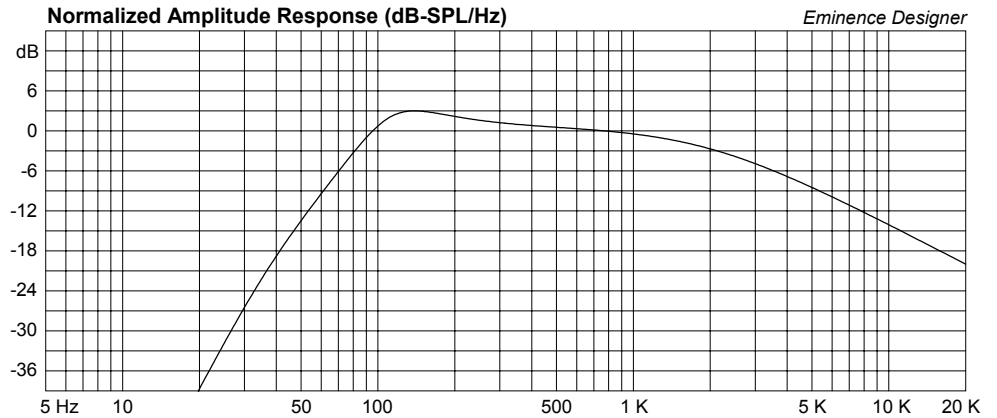
Qes = 0.45

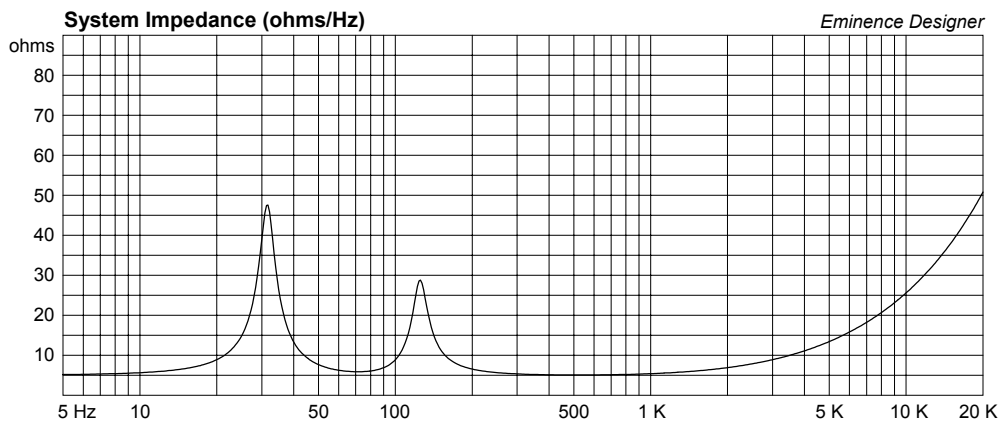
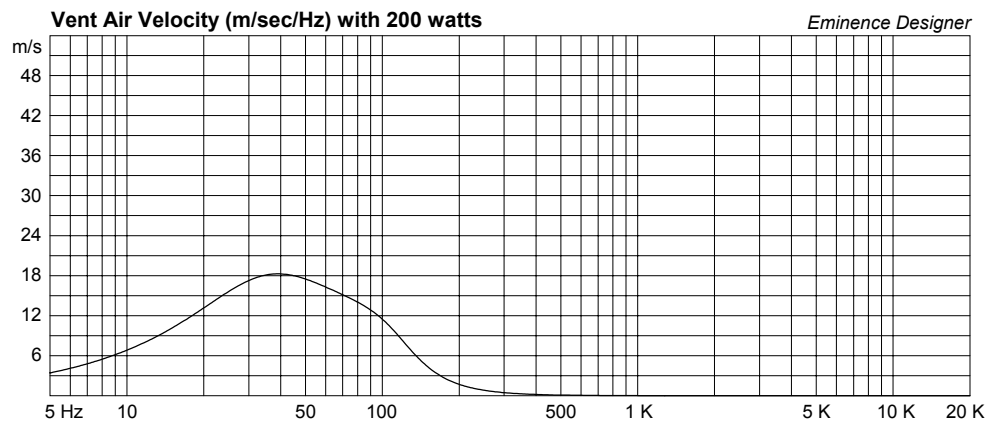
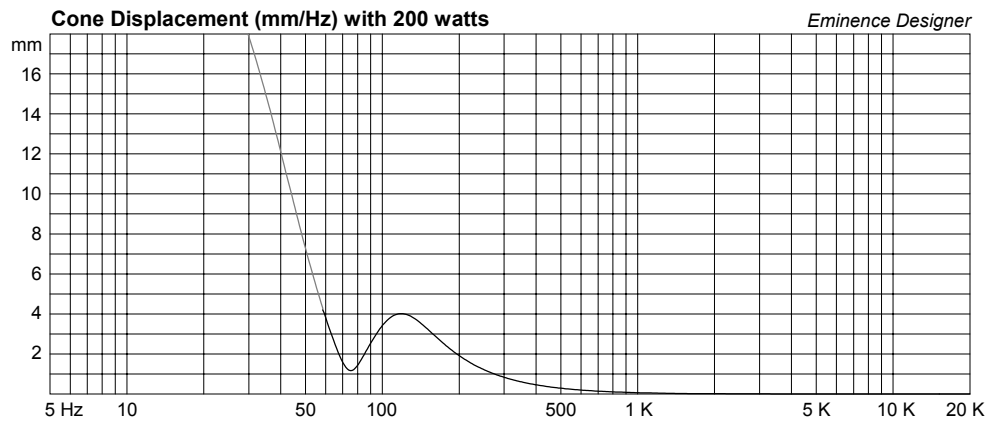
Re = 5.06 ohms

Le = 0.4 mH

Z = 8 ohms

Pe = 300 watts





# DeltaLite-II 2510 Small Sealed Mid/Hi or Vocal Wedge

By Jerry McNutt, Eminence Speaker LLC

Limited to 200 Watts; use a steep high pass filter set to 150 Hz or higher.

## Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 0.42 cu.ft

V(total) = 0.5 cu.ft

Qtc = 0.74

QL = 20

F3 = 109.1 Hz

Fill = heavy

## Driver Properties

--Description--

Name:

Type: Standard one-way driver

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 52.51 Hz

Qms = 5.76

Vas = 52.51 liters

Xmax = 4.2 mm

Sd = 350.1 sq.cm

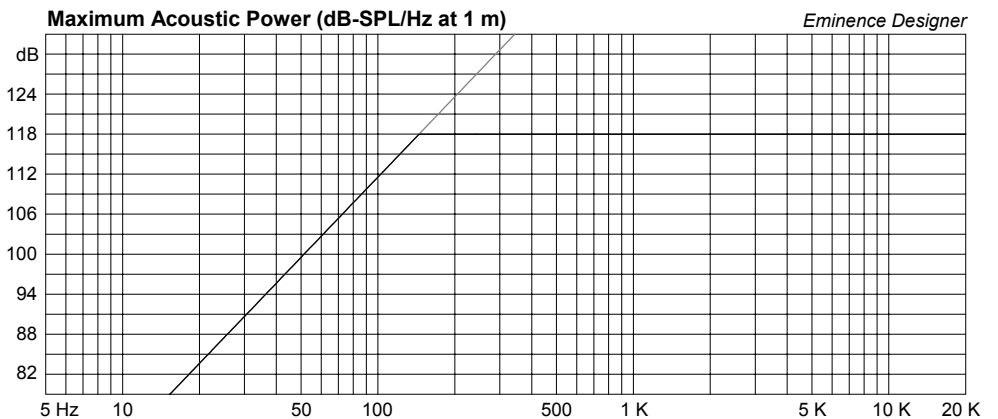
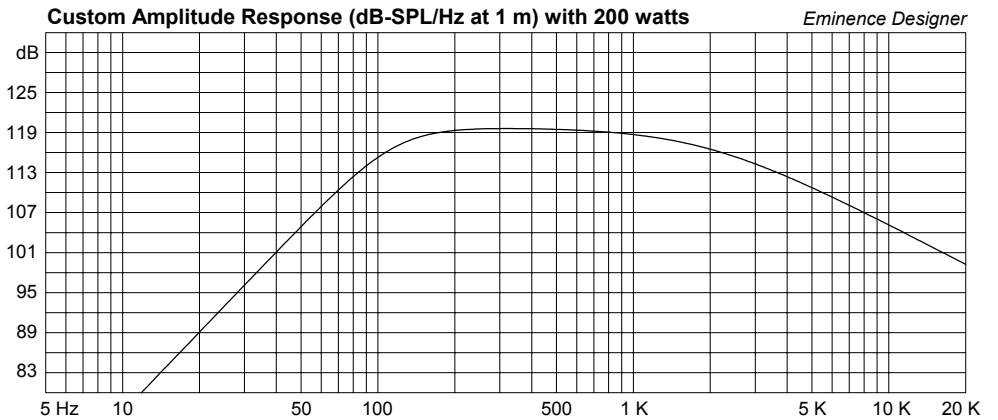
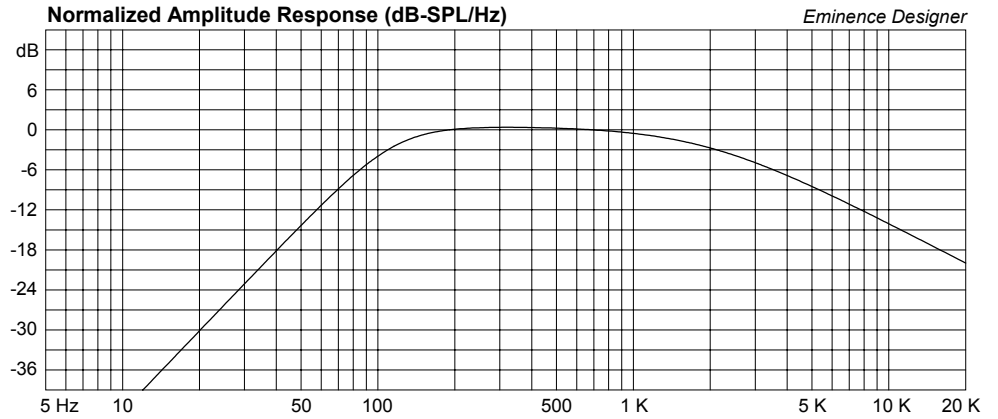
Qes = 0.45

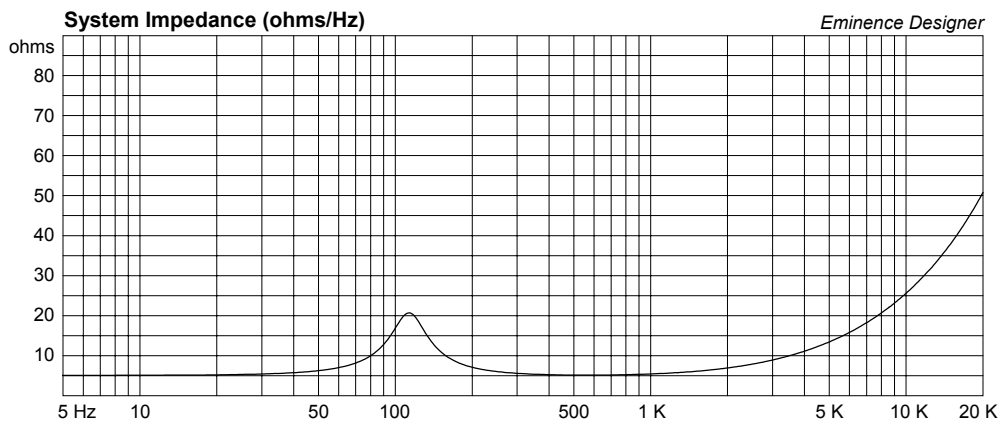
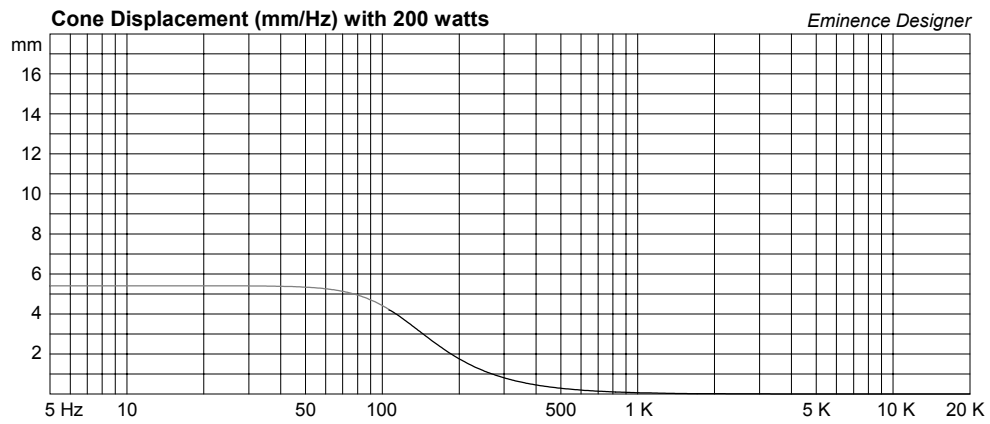
Re = 5.06 ohms

Le = 0.4 mH

Z = 8 ohms

Pe = 250 watts





# DeltaLite-II 2510 Small Vented Cabinet

By Jerry McNutt, Eminence Speaker LLC

Thermally Limited to 250 Watts; F3 of 90 Hz. Use a steep high pass filter set to 100 Hz or higher.

## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 0.5 cu.ft

V(total) = 0.618 cu.ft

Fb = 90 Hz

QL = 7

F3 = 90.19 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 4.697 in

## Driver Properties

--Description--

Name:

Type: Standard one-way driver

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 52.51 Hz

Qms = 5.76

Vas = 52.51 liters

Xmax = 4.2 mm

Sd = 350.1 sq.cm

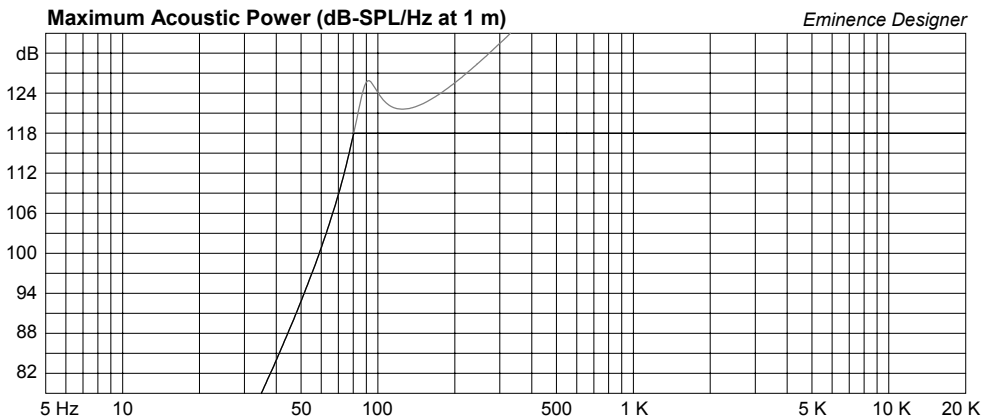
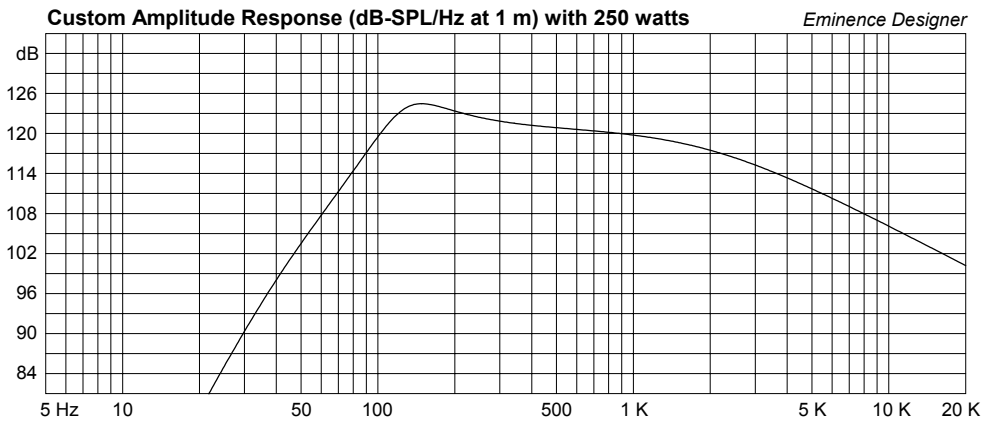
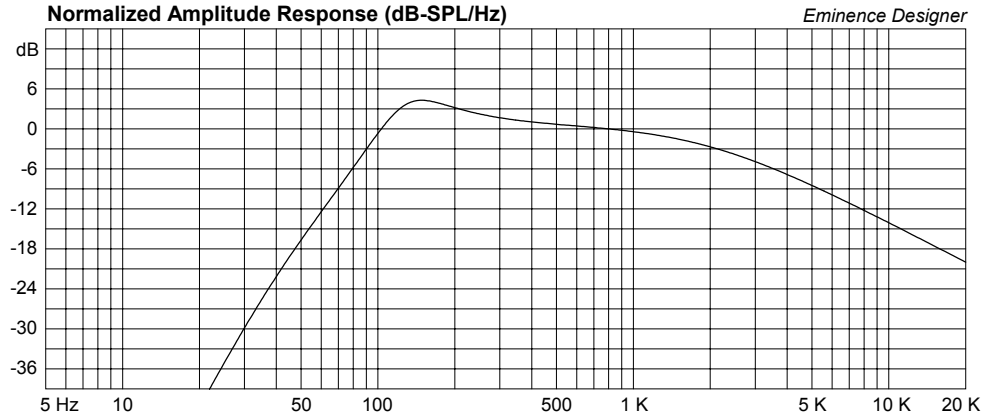
Qes = 0.45

Re = 5.06 ohms

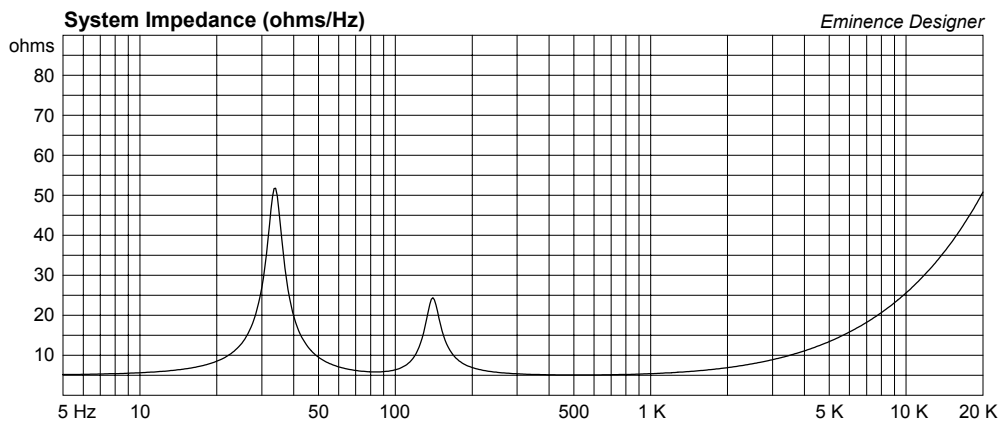
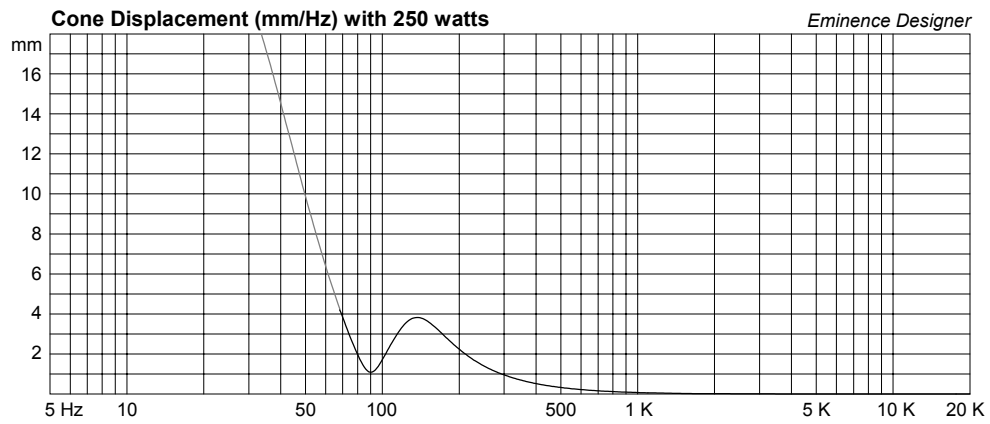
Le = 0.4 mH

Z = 8 ohms

Pe = 250 watts







# DeltaLite-II 2510 Med Vented 1x10 Bass Cabinet

By Jerry McNutt, Eminence Speaker LLC

Displacement Limited to 150 Watts; F3 of 72 Hz. Use a High Pass Filter set to 50 Hz or higher.

## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 0.8 cu.ft

V(total) = 0.969 cu.ft

Fb = 62 Hz

QL = 7

F3 = 71.63 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 9.318 in

## Driver Properties

--Description--

Name:

Type: Standard one-way driver

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 52.51 Hz

Qms = 5.76

Vas = 52.51 liters

Xmax = 4.2 mm

Sd = 350.1 sq.cm

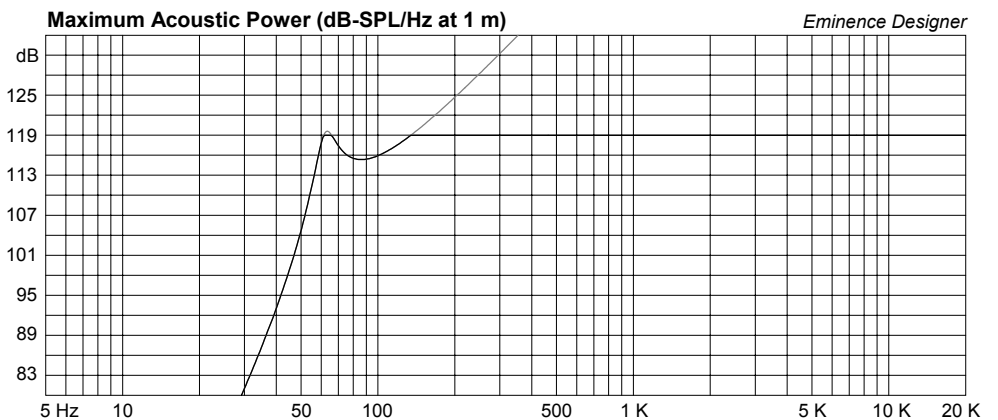
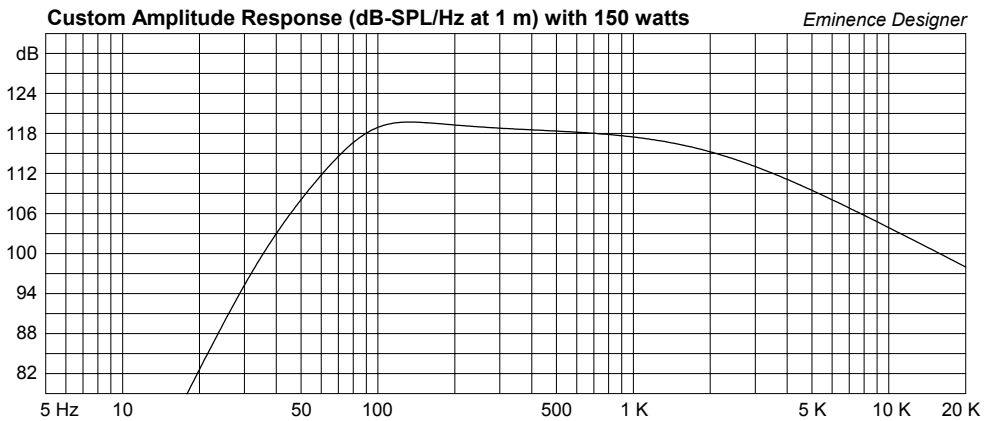
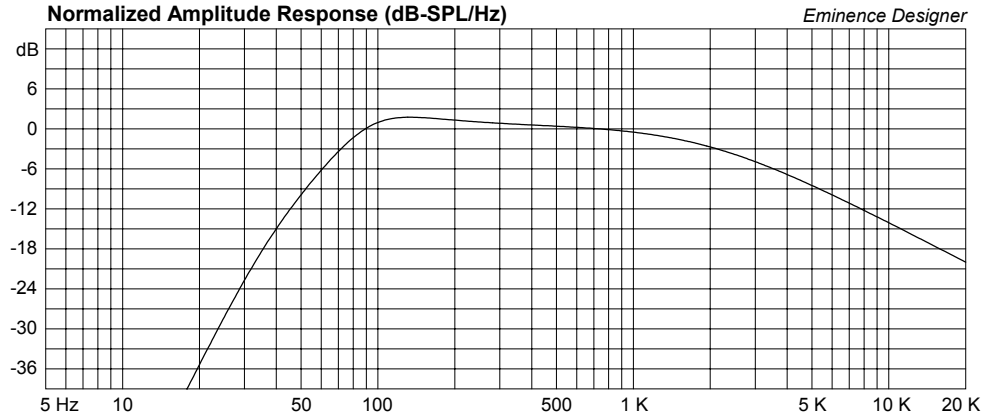
Qes = 0.45

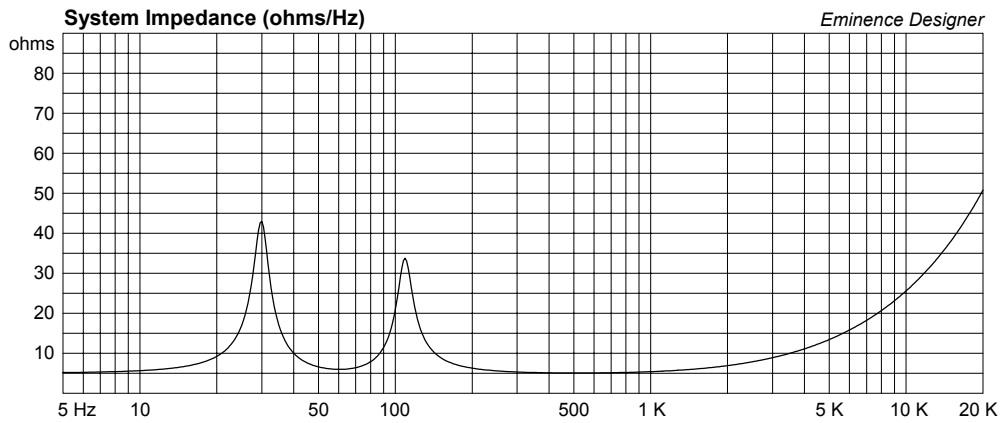
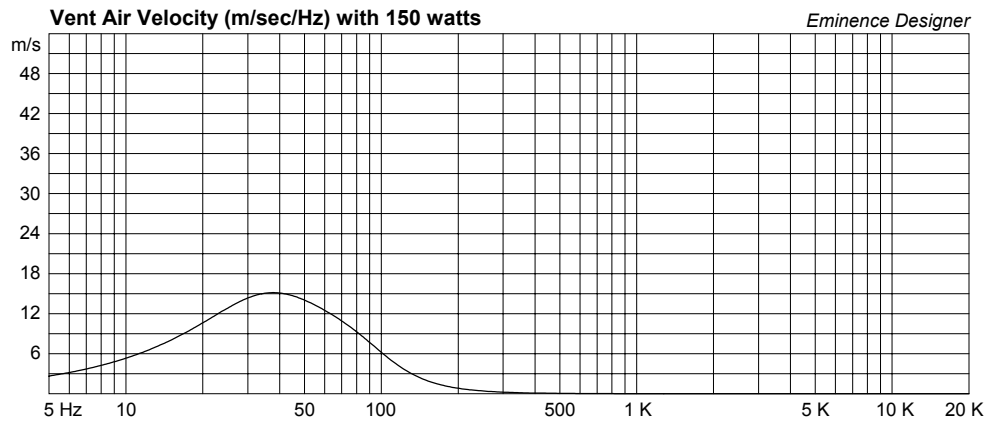
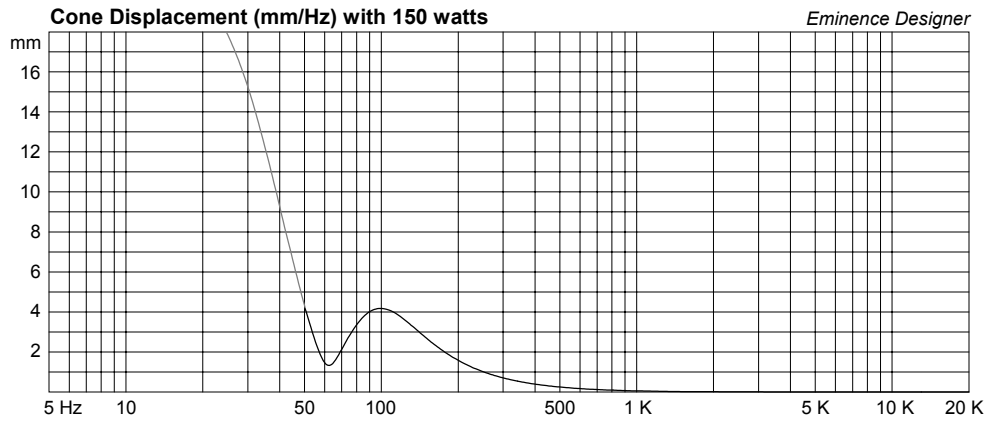
Re = 5.06 ohms

Le = 0.4 mH

Z = 8 ohms

Pe = 300 watts





# DeltaLite-II 2510 Med Vented 2x10 Bass Guitar Cabinet

By Jerry McNutt, Eminence Speaker LLC

Displacement Limited to 200 Watts; F3 of 58 Hz. Use a High Pass Filter set to 40 Hz.

## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 2.75 cu.ft

V(total) = 3.038 cu.ft

Fb = 51.38 Hz

QL = 7

F3 = 58.08 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 6.676 in

## Driver Properties

--Description--

Name:

Type: Standard one-way driver

--Configuration--

**No. of Drivers = 2**

Mounting = Standard

Wiring = Parallel

Drivers sum coherently = Yes

--Driver Parameters--

Fs = 52.51 Hz

Qms = 5.76

Vas = 52.51 liters [105]

Xmax = 4.2 mm

Sd = 350.1 sq.cm [700.2]

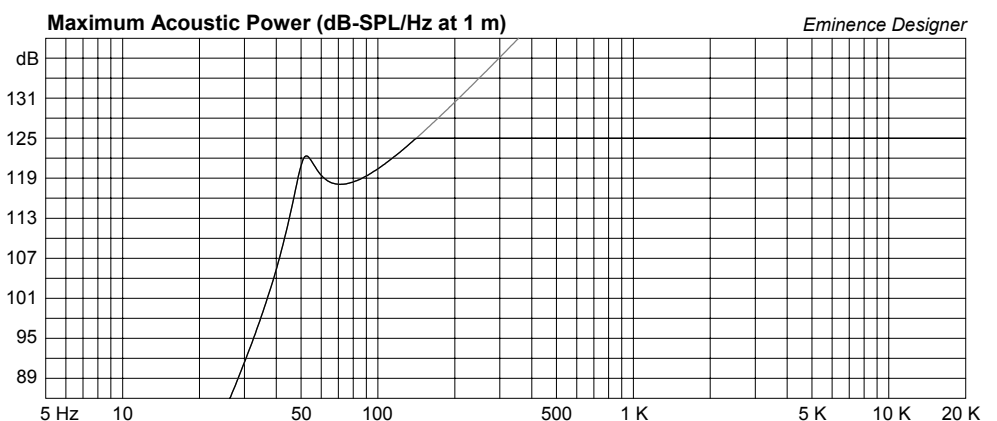
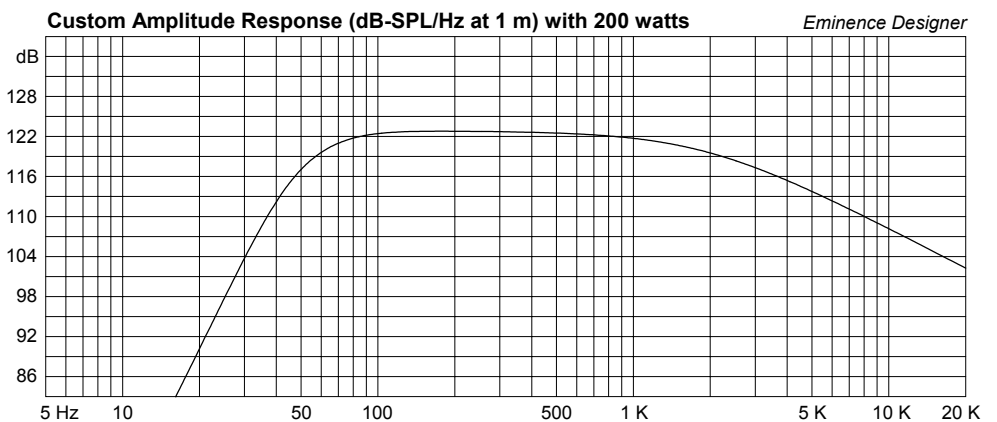
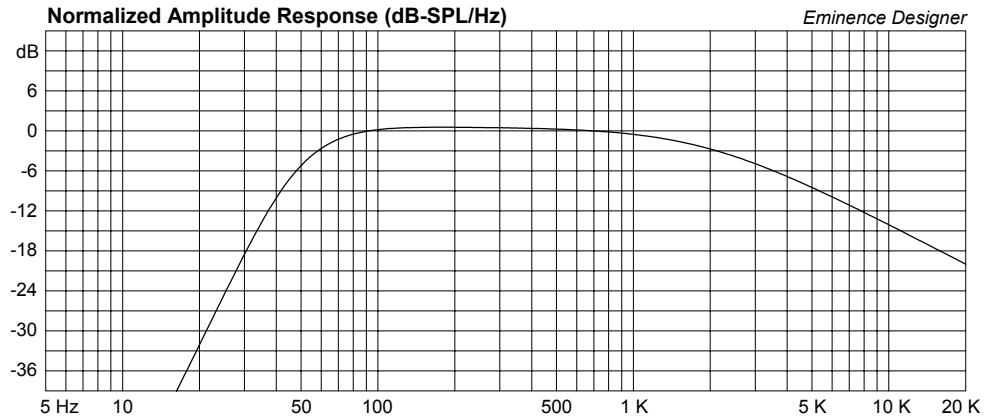
Qes = 0.45

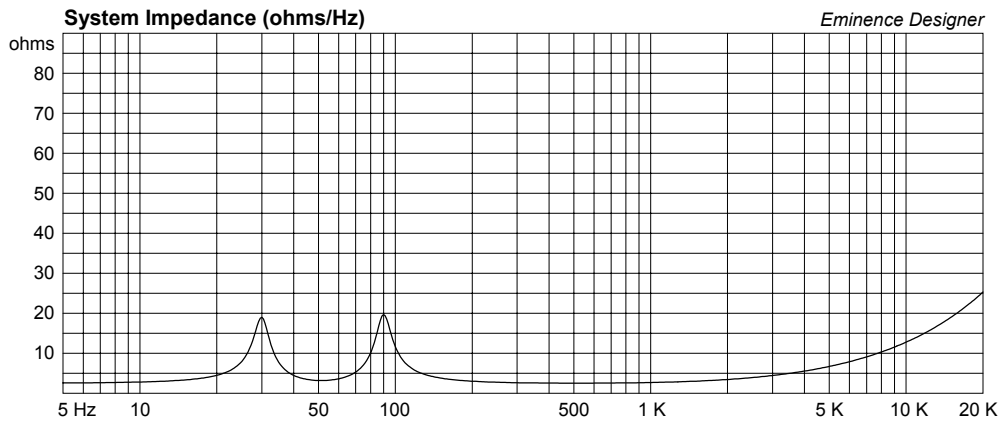
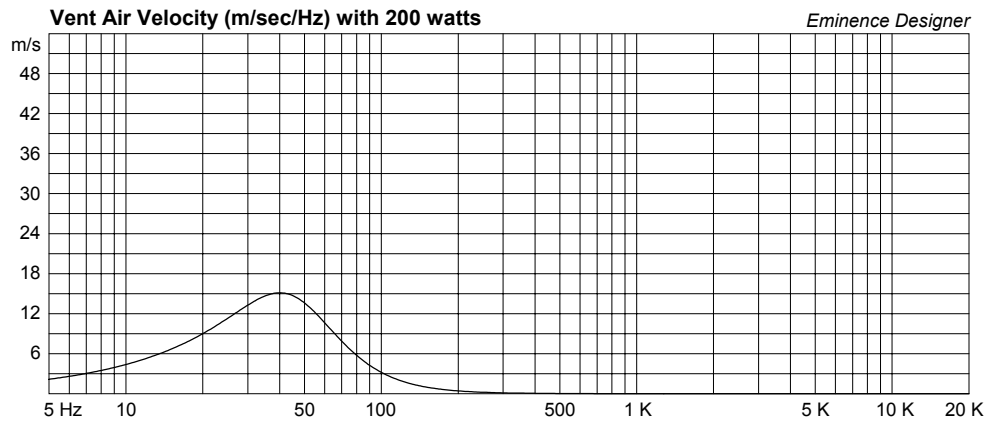
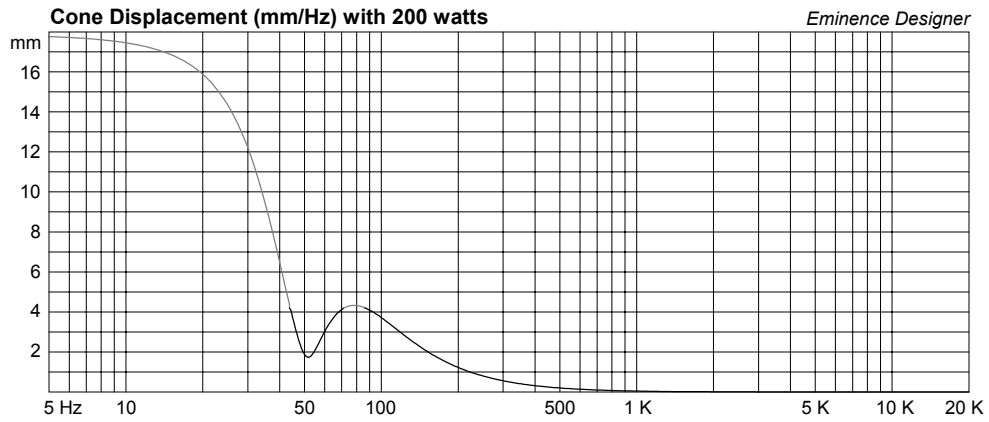
Re = 5.06 ohms [2.53]

Le = 0.4 mH [0.2]

Z = 8 ohms [4]

Pe = 300 watts [600]





# DeltaLite-II 2510 4x10 Bass Guitar Cabinet

By Jerry McNutt, Eminence Speaker LLC

Displacement Limited to 400 Watts; F3 of 61 Hz. Use a High Pass Filter set to 40 Hz.

## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 4.8 cu.ft

V(total) = 5.272 cu.ft

Fb = 53.42 Hz

QL = 7

F3 = 61.3 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 4.63 in

## Driver Properties

--Description--

Name:

Type: Standard one-way driver

--Configuration--

**No. of Drivers = 4**

Mounting = Standard

Wiring = Series-Parallel

Drivers sum coherently = Yes

--Driver Parameters--

Fs = 52.51 Hz

Qms = 5.76

Vas = 52.51 liters [210]

Xmax = 4.2 mm

Sd = 350.1 sq.cm [1400]

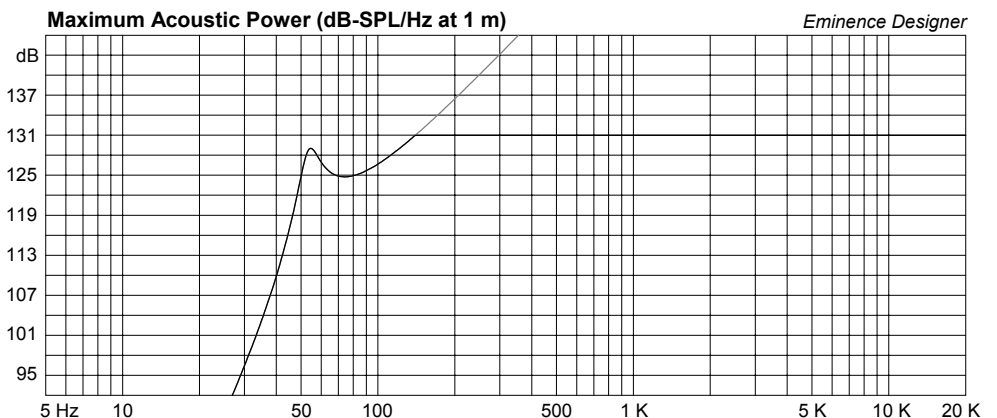
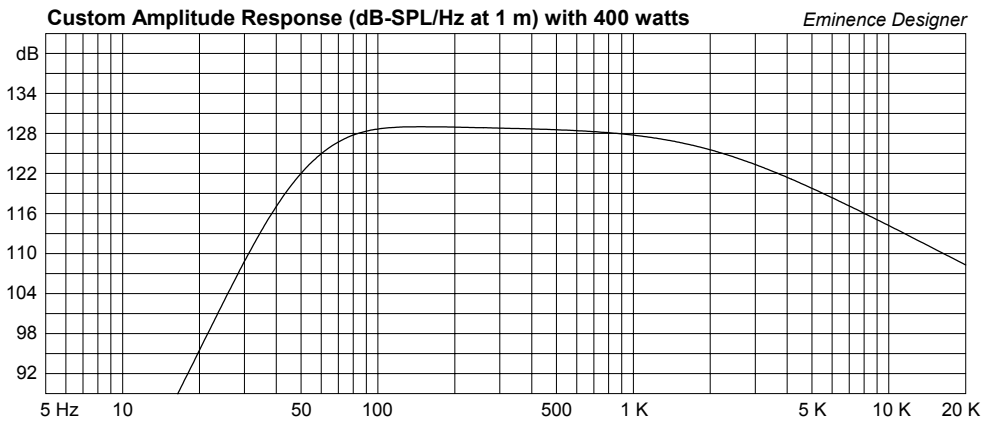
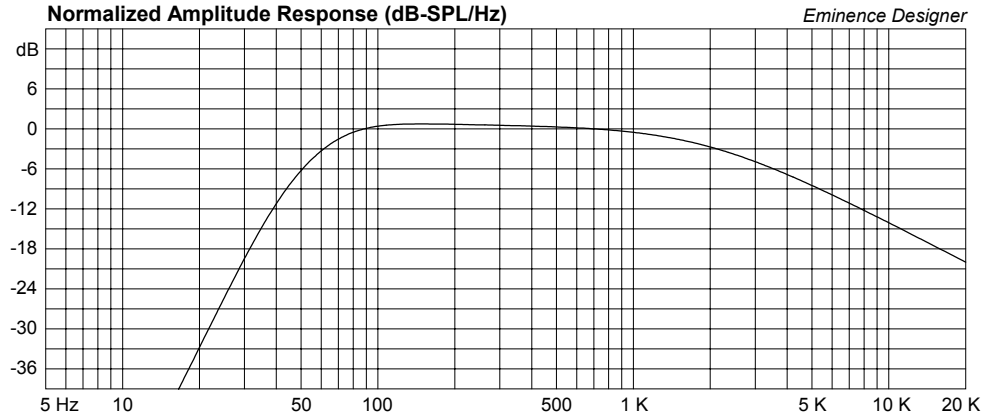
Qes = 0.45

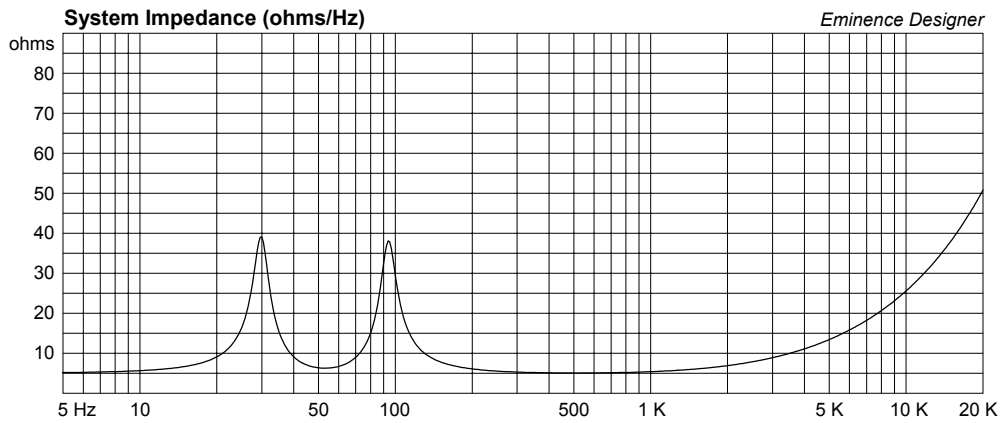
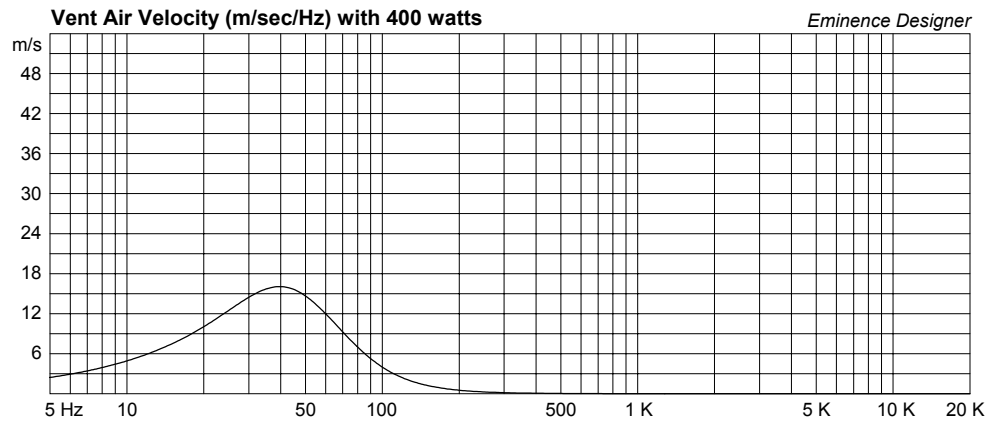
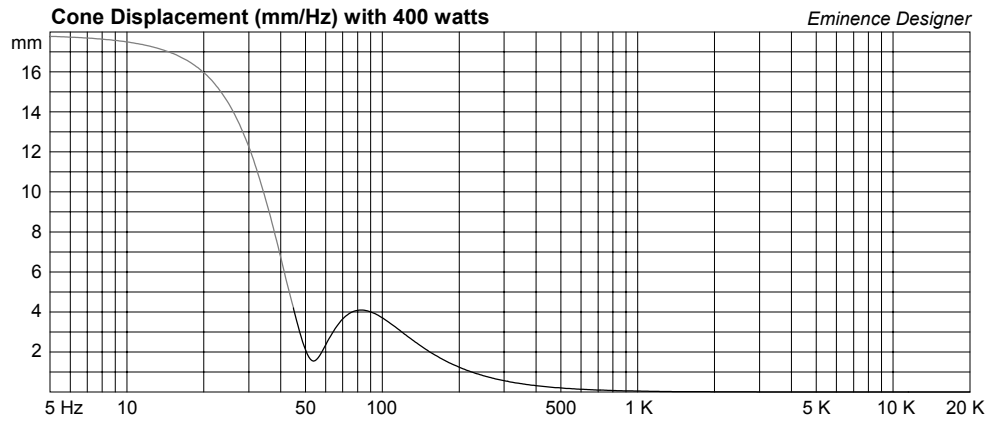
Re = 5.06 ohms [5.06]

Le = 0.4 mH [0.4]

Z = 8 ohms [8]

Pe = 300 watts [1200]





# DeltaLite-II 2510 Small 2x10 Bass Guitar Mid/High Cabinet

By Jerry McNutt, Eminence Speaker LLC

Displacement Limited to 500 Watts; F3 of 85 Hz. Use a High Pass Filter set to 120 Hz. Use on top of a 15" or 18" Sub cabinet.

## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 1.007 cu.ft

V(total) = 1.248 cu.ft

Fb = 85 Hz

QL = 7

F3 = 88.58 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 4.925 in

## Driver Properties

--Description--

Name:

Type: Standard one-way driver

--Configuration--

**No. of Drivers = 2**

Mounting = Standard

Wiring = Parallel

Drivers sum coherently = Yes

--Driver Parameters--

Fs = 52.51 Hz

Qms = 5.76

Vas = 52.51 liters [105]

Xmax = 4.2 mm

Sd = 350.1 sq.cm [700.2]

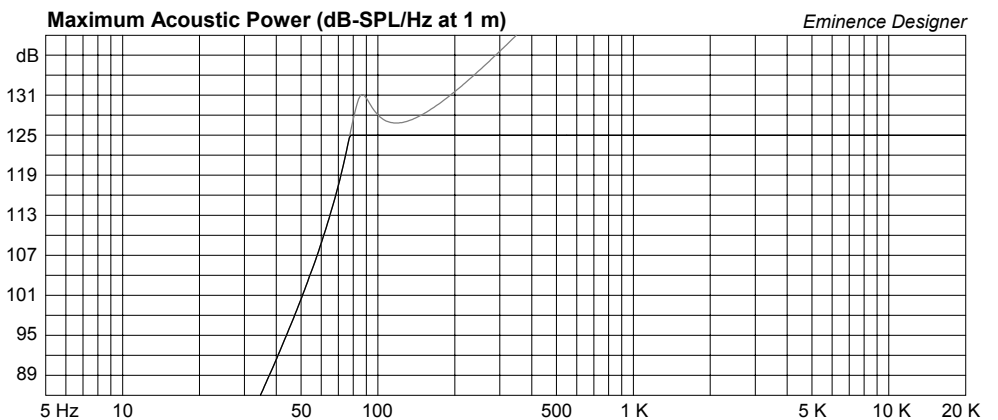
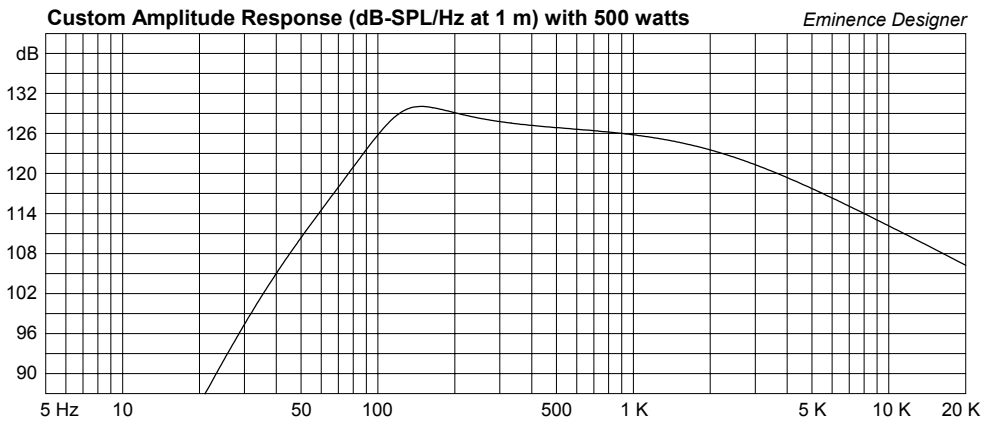
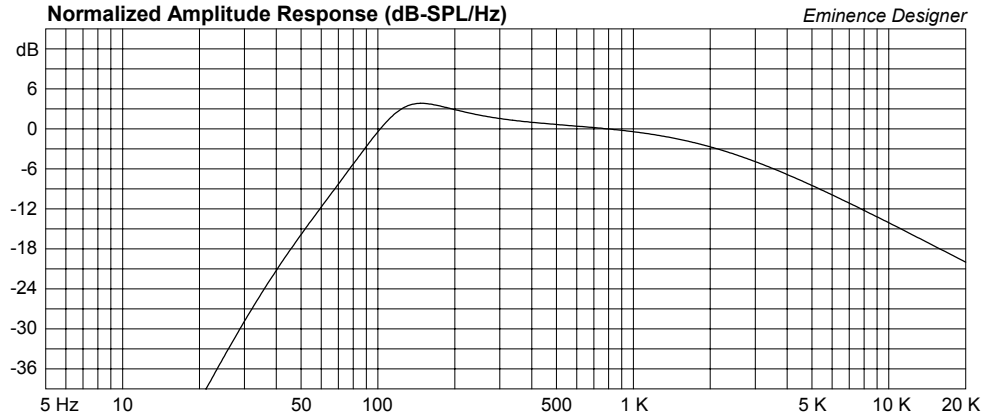
Qes = 0.45

Re = 5.06 ohms [2.53]

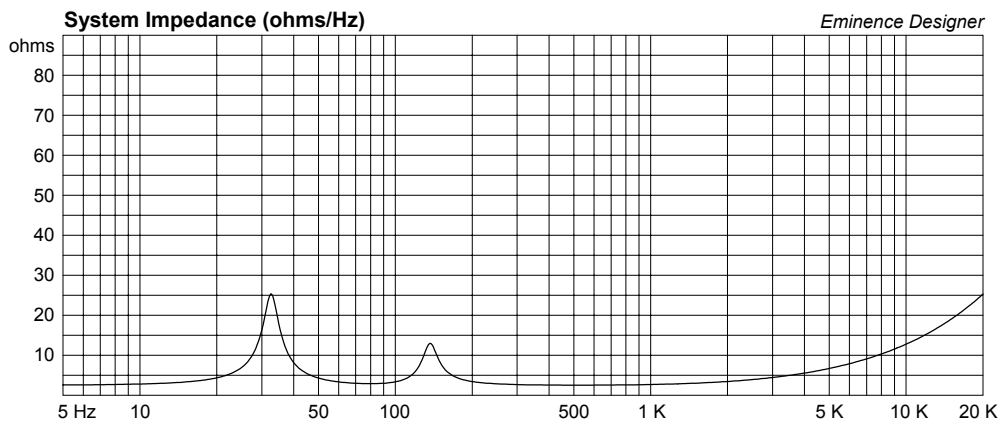
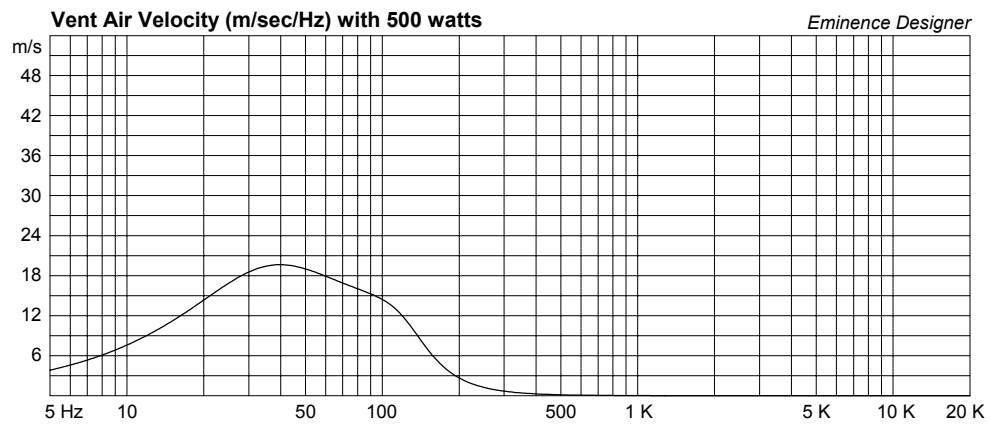
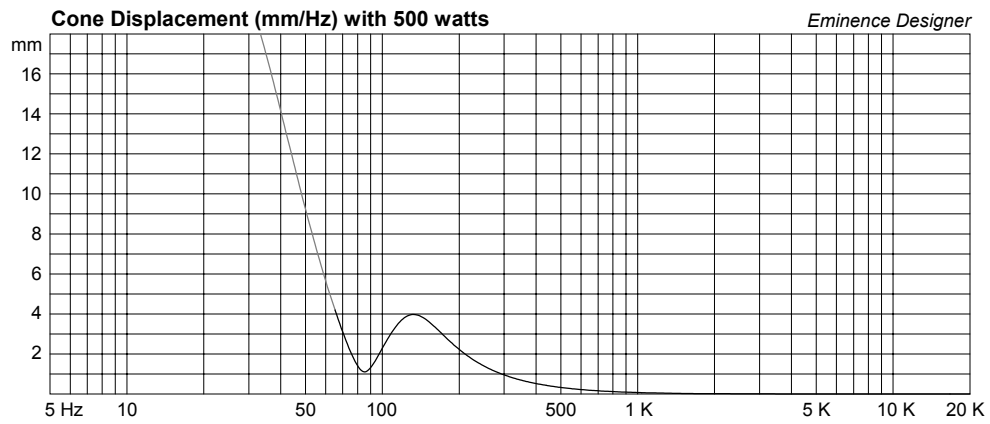
Le = 0.4 mH [0.2]

Z = 8 ohms [4]

Pe = 300 watts [600]







# DeltaLite-II 2510 4x10 Bass Guitar Hi Pwr Mid/High Cabinet

By Jerry McNutt, Eminence Speaker LLC

Displacement Limited to 800 Watts; F3 of 85 Hz. Use a High Pass Filter set to 100 Hz. Use this on top of a double 15" or 18" Cabinet.

## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 2.2 cu.ft

V(total) = 2.662 cu.ft

Fb = 80 Hz

QL = 7

F3 = 84.75 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 4.35 in

## Driver Properties

--Description--

Name:

Type: Standard one-way driver

--Configuration--

**No. of Drivers = 4**

Mounting = Standard

Wiring = Series-Parallel

Drivers sum coherently = Yes

--Driver Parameters--

Fs = 52.51 Hz

Qms = 5.76

Vas = 52.51 liters [210]

Xmax = 4.2 mm

Sd = 350.1 sq.cm [1400]

Qes = 0.45

Re = 5.06 ohms [5.06]

Le = 0.4 mH [0.4]

Z = 8 ohms [8]

Pe = 300 watts [1200]

