Specification

Nominal Basket Diameter	12”, 304.8mm
Nominal Impedance*	8 ohms
Power Rating**	
Watts	250W
Music Program	500W
Resonance	37Hz
Usable Frequency Range***	48Hz-4kHz
Sensitivity	99.9
Magnet Weight	7 oz
Gap Height	0.275”, 7mm
Voice Coil Diameter	2.5”, 63.5mm

Thiele & Small Parameters

Resonant Frequency (fs)	37Hz
DC Resistance (Re)	5.04
Coil Inductance (Le)	0.46mH
Mechanical Q (Qms)	3.13
Electromagnetic Q (Qes)	0.44
Total Q (Qts)	0.39
Compliance Equivalent Volume (Vas)	147 ltr/5.2 cu. ft.
Peak Diaphragm Displacement Volume (Vd)	255cc
Mechanical Compliance of Suspension (Cms)	0.38mm/N
BL Product (BL)	11.3 T-M
Diaphragm Mass inc. Airload (Mms)	49 grams
Efficiency Bandwidth Product (EBP)	84
Maximum Linear Excursion (Xmax)	4.9mm
Surface Area of Cone (Sd)	519.5cm^2
Maximum Mechanical Limit (Xlim)	8.5mm

Mounting Information

Recommended Enclosure Volume	
Sealed	23-28 ltr/0.8-1 cu. ft.
Vented	33-85 ltr/1.2-3 cu. ft.
Overall Diameter	12.38”, 314.5mm
Baffle Hole Diameter	11.06”, 280.9mm
Front Sealing Gasket	Fitted as Standard
Rear Sealing Gasket	Fitted as Standard
Mounting Holes Diameter	0.28”, 7mm
Mounting Holes B.C.D.	11.62”, 295.1mm
Depth	6.06”, 154mm
Net Weight	5.1 lbs, 2.3 kg
Shipping Weight	6.8 lbs, 3.1 kg

Materials of Construction

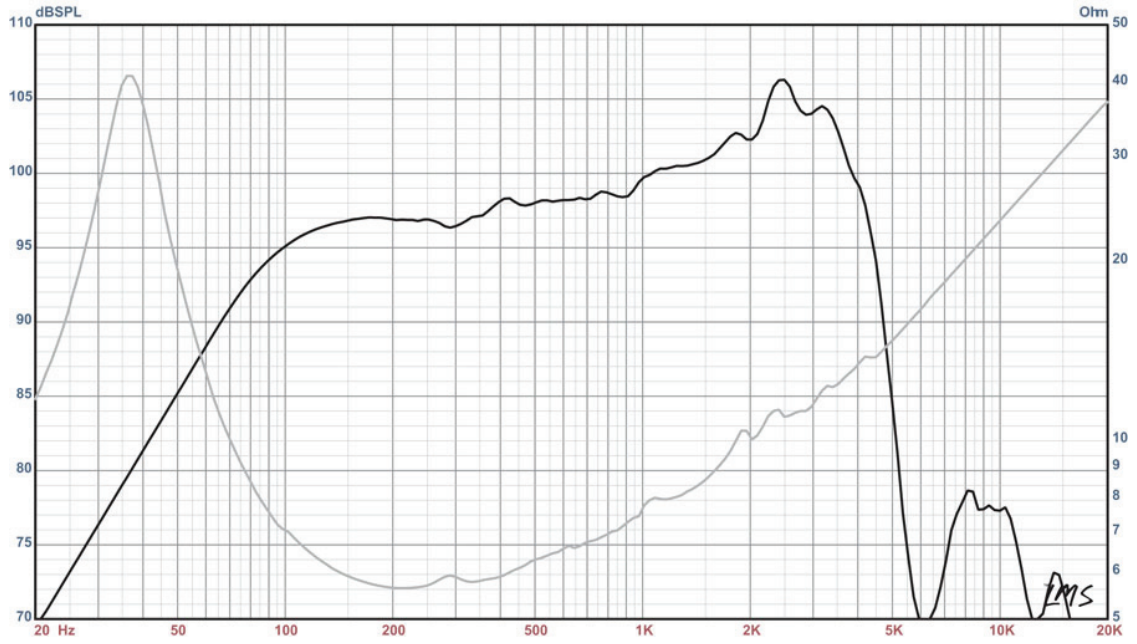
Coil Construction	Aluminum
Coil	Polyimide
Magnet Composition	Neodymium
Core Details	Vented
Basket Materials	Die-Cast Aluminum/Heatsink
Cone Composition	Paper
Cone Edge Composition	Cloth
Dust Cap Composition	Solid Composition Paper

EMINENCE®

The Art and Science of Sound

DELTALITE®-II 2512 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. Ie: 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 2512 Larger Vented Cab/FR PA, or Bass Guitar

By Jerry McNutt, Eminence Speaker LLC
Displacement Limited to 125 Watts; F3 of 48 Hz. Use a steep high pass filter set to 40 Hz to protect woofer from overexcursion.

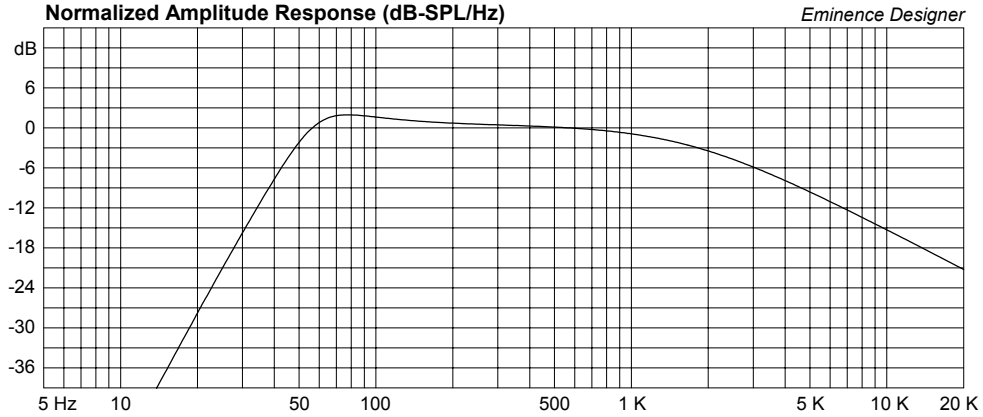
Box Properties

--Description--
Name:
Type: Vented Box
Shape: Prism, square
--Box Parameters--
Vb = 2.75 cu.ft
V(total) = 2.969 cu.ft
Fb = 50 Hz
QL = 7
F3 = 48.12 Hz
Fill = minimal
--Vents--
No. of Vents = 2
Vent shape = round
Vent ends = one flush
Dv = 4 in
Lv = 5.49 in

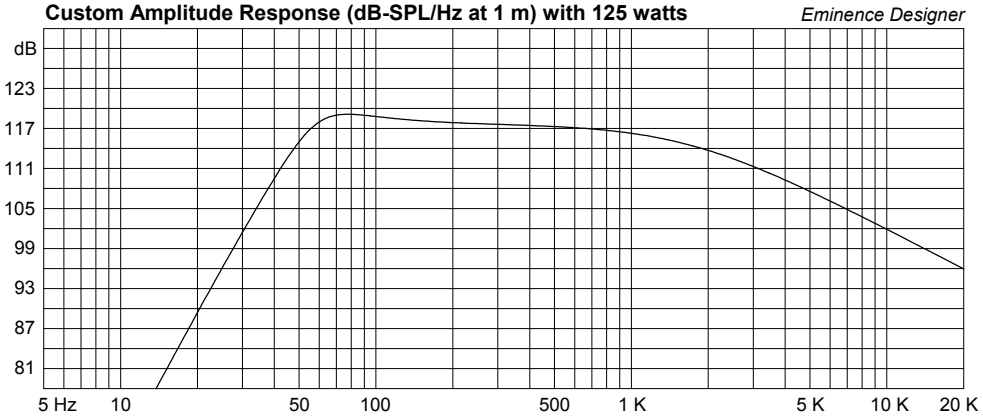
Driver Properties

--Description--
Name:
Type: Standard one-way driver
--Configuration--
No. of Drivers = 1
--Driver Parameters--
Fs = 36.98 Hz
Qms = 3.13
Vas = 146.6 liters
Xmax = 4.9 mm
Sd = 519.5 sq.cm
Qes = 0.44
Re = 5.04 ohms
Le = 0.46 mH
Z = 8 ohms
Pe = 300 watts

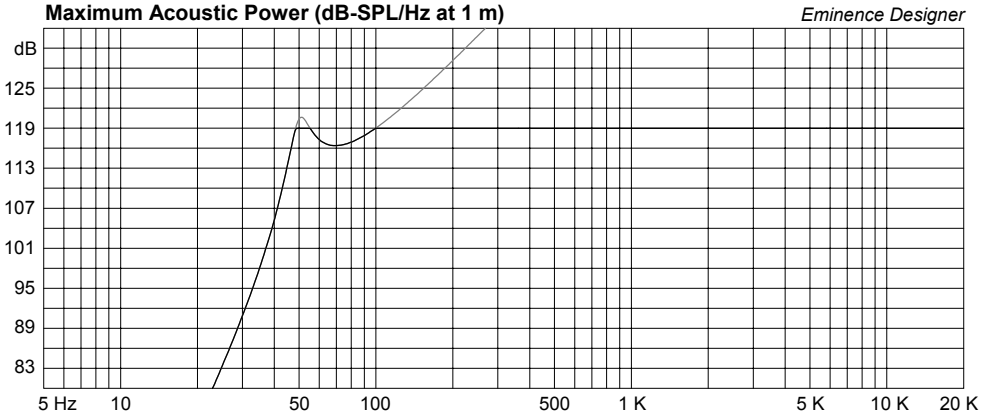
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 125 watts *Eminence Designer*

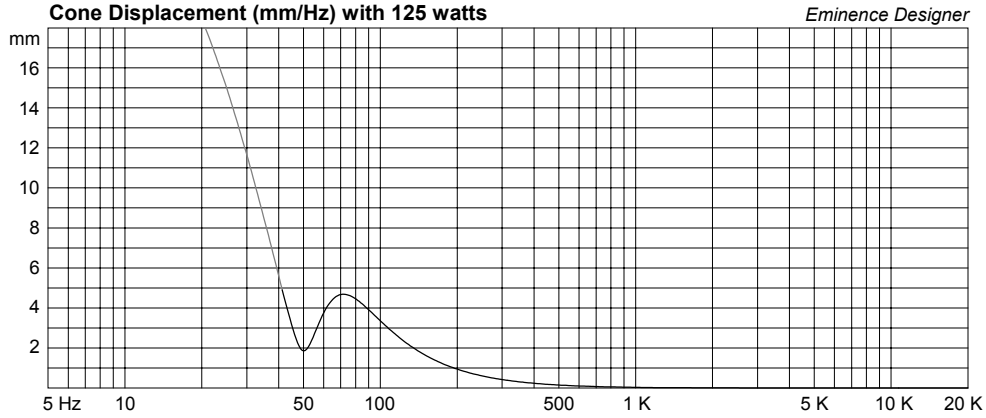


Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



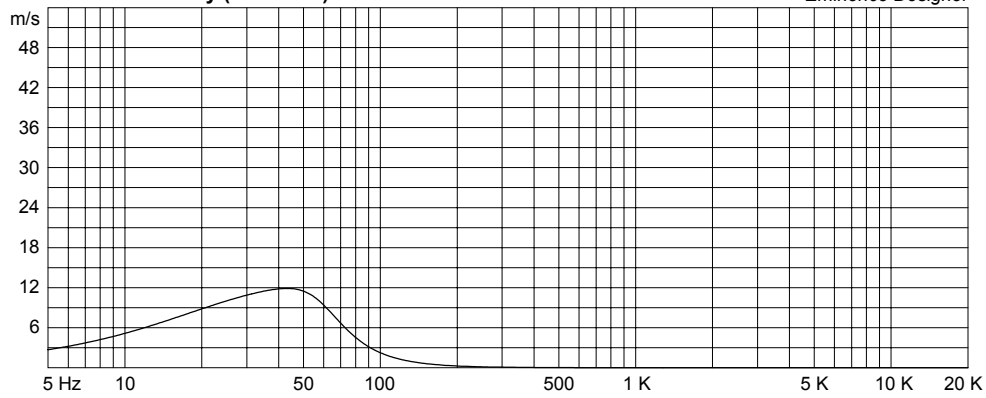
Cone Displacement (mm/Hz) with 125 watts

Eminence Designer



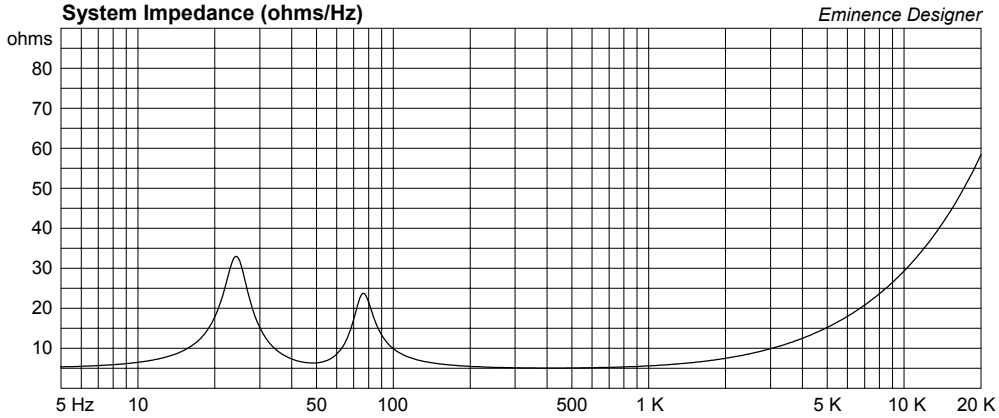
Vent Air Velocity (m/sec/Hz) with 125 watts

Eminence Designer



System Impedance (ohms/Hz)

Eminence Designer



DeltaLite-II 2512 Med Vented Box/Med Pwr FR PA

By Jerry McNutt, Eminence Speaker LLC
Displacement Limited to 200 Watts; F3 57Hz. Use a steep high pass filter set to 50 Hz to protect woofer from overexcursion.

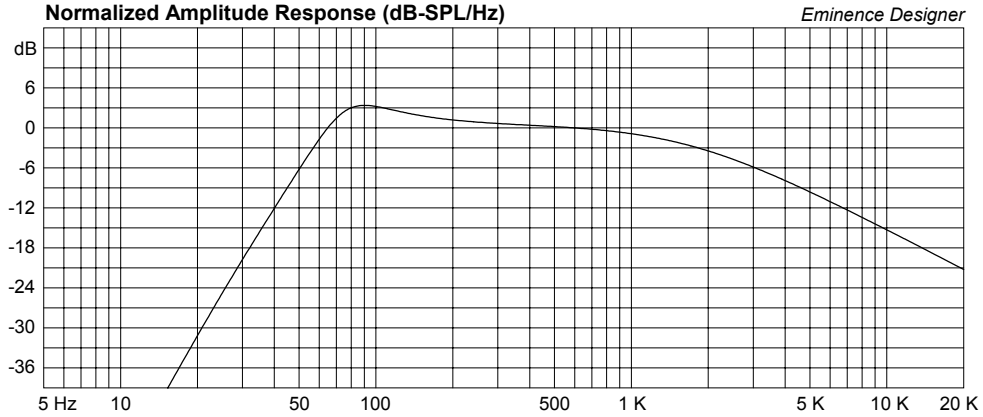
Box Properties

--Description--
Name:
Type: Vented Box
Shape: Prism, square
--Box Parameters--
Vb = 1.95 cu.ft
V(total) = 2.166 cu.ft
Fb = 60 Hz
QL = 7
F3 = 56.79 Hz
Fill = minimal
--Vents--
No. of Vents = 2
Vent shape = round
Vent ends = one flush
Dv = 4 in
Lv = 5.278 in

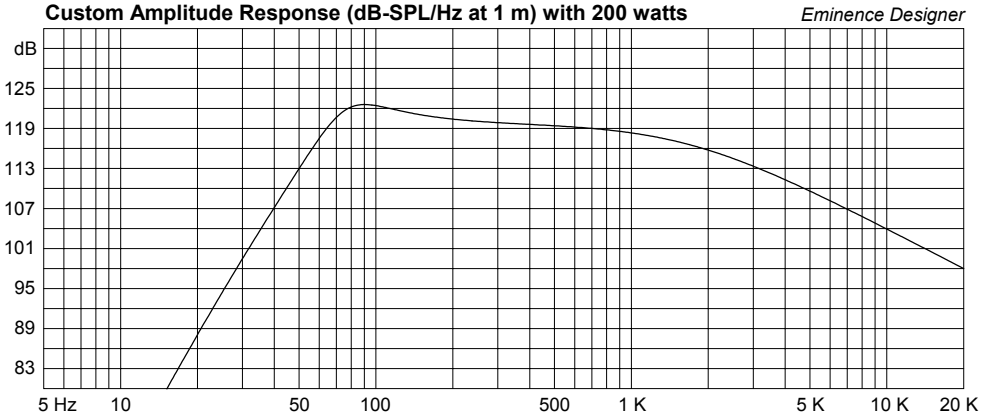
Driver Properties

--Description--
Name:
Type: Standard one-way driver
--Configuration--
No. of Drivers = 1
--Driver Parameters--
Fs = 36.98 Hz
Qms = 3.13
Vas = 146.6 liters
Xmax = 4.9 mm
Sd = 519.5 sq.cm
Qes = 0.44
Re = 5.04 ohms
Le = 0.46 mH
Z = 8 ohms
Pe = 300 watts

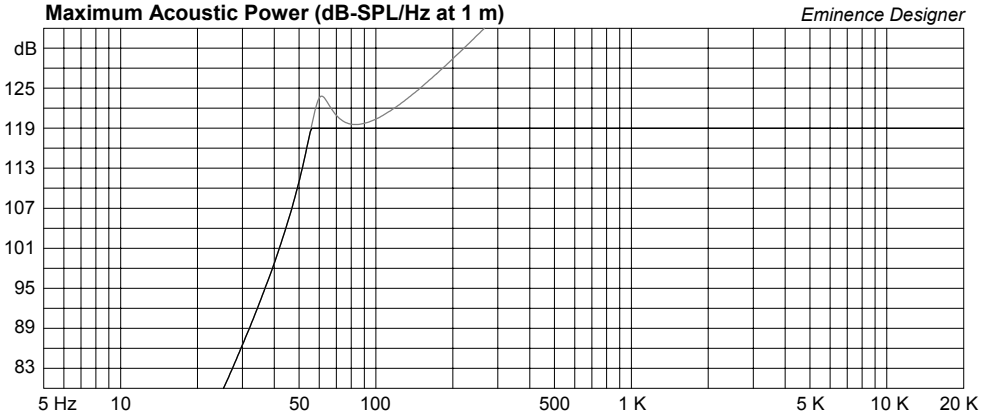
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 200 watts *Eminence Designer*

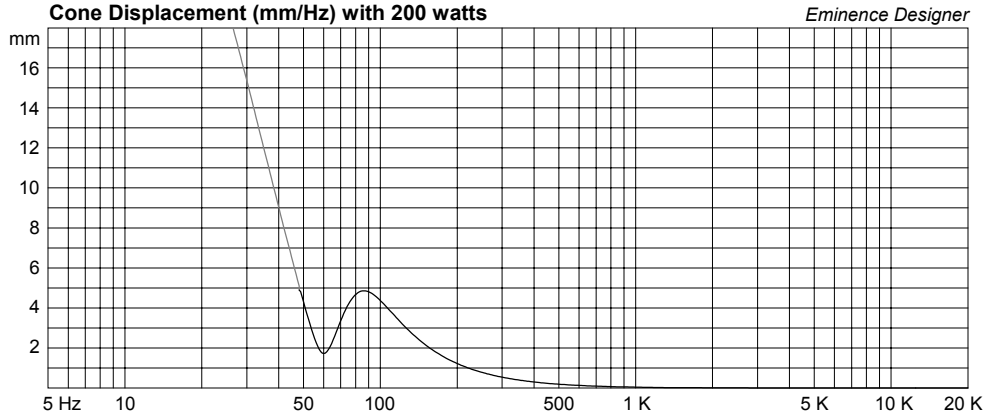


Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



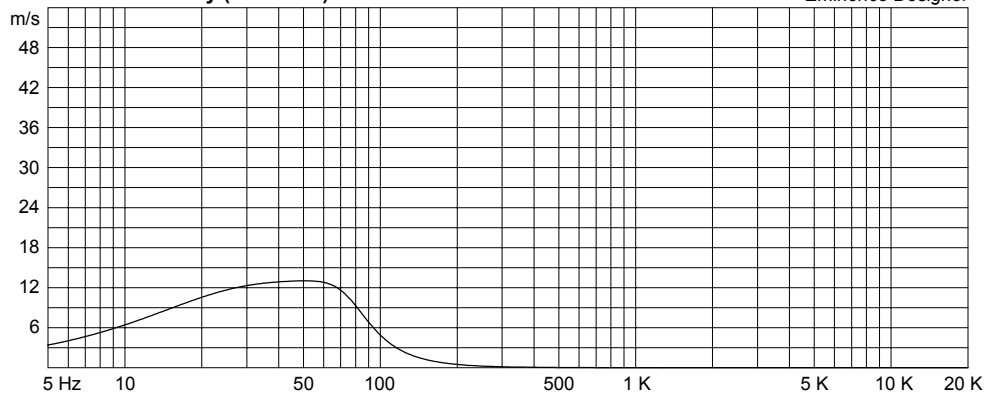
Cone Displacement (mm/Hz) with 200 watts

Eminence Designer



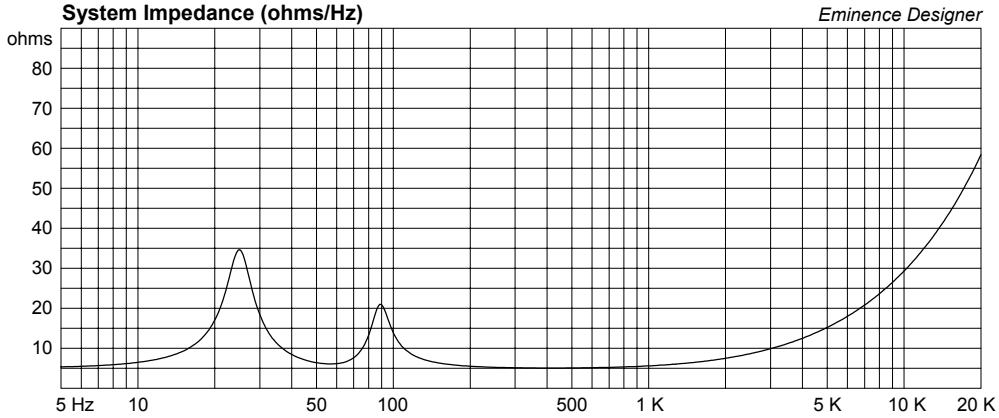
Vent Air Velocity (m/sec/Hz) with 200 watts

Eminence Designer



System Impedance (ohms/Hz)

Eminence Designer



DeltaLite-II 2512 Small Sealed Mid/Hi Sat or Vocal Wedge

By Jerry McNutt, Eminence Speaker LLC
Limited to 200 Watts. Use a steep high pass filter set to 120 Hz or above.

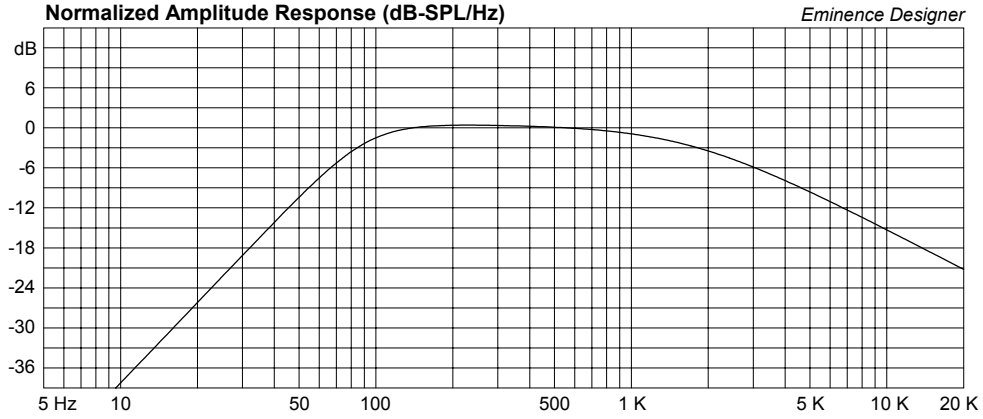
Box Properties

--Description--
Name:
Type: Closed Box
Shape: Prism, square
--Box Parameters--
Vb = 0.861 cu.ft
V(total) = 0.861 cu.ft
Qtc = 0.772
QL = 20
F3 = 84.28 Hz
Fill = heavy

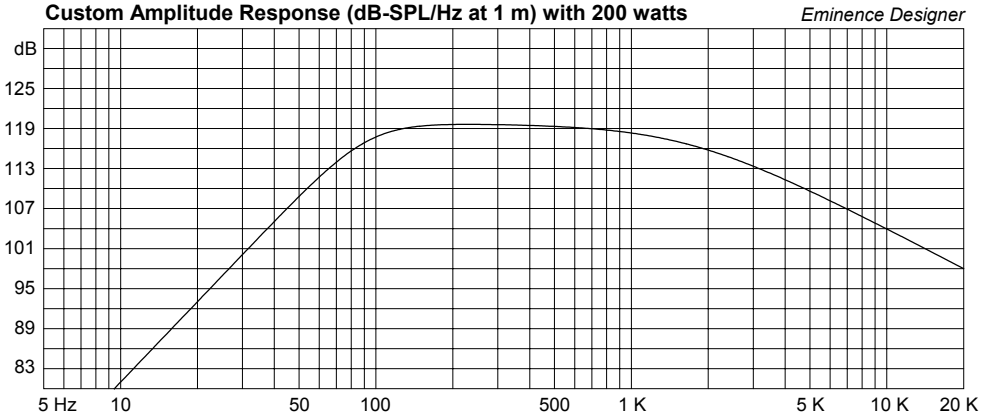
Driver Properties

--Description--
Name:
Type: Standard one-way driver
--Configuration--
No. of Drivers = 1
--Driver Parameters--
Fs = 36.98 Hz
Qms = 3.13
Vas = 146.6 liters
Xmax = 4.9 mm
Sd = 519.5 sq.cm
Qes = 0.44
Re = 5.04 ohms
Le = 0.46 mH
Z = 8 ohms
Pe = 250 watts

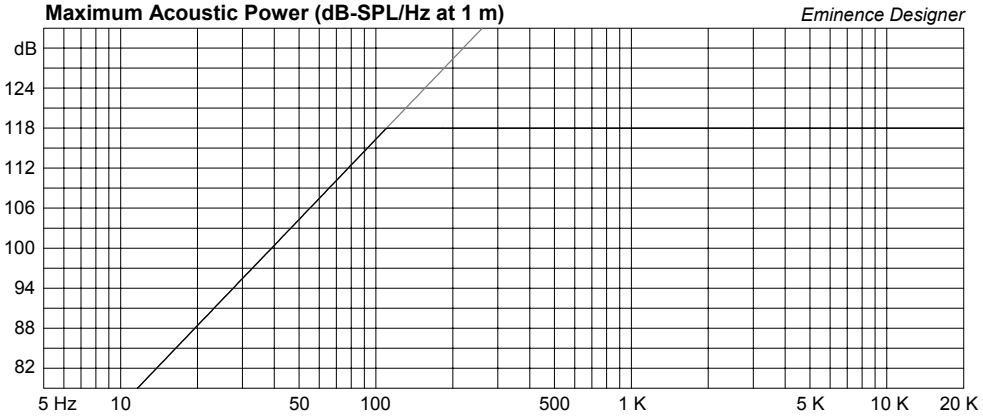
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 200 watts *Eminence Designer*

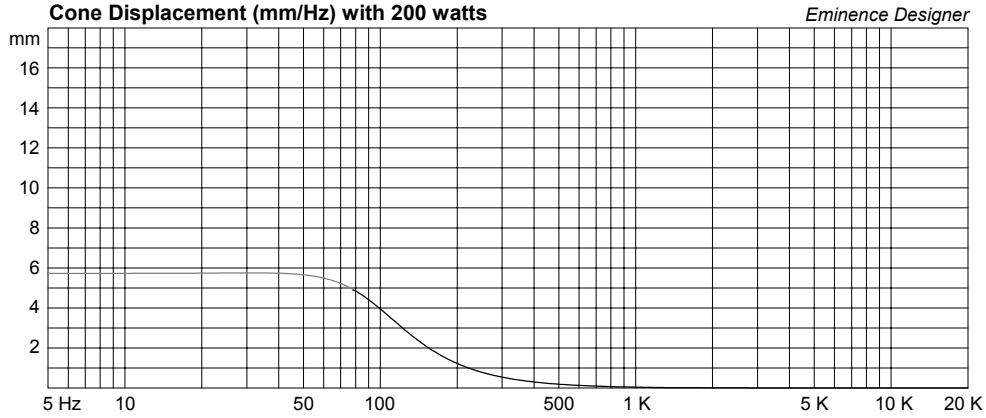


Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



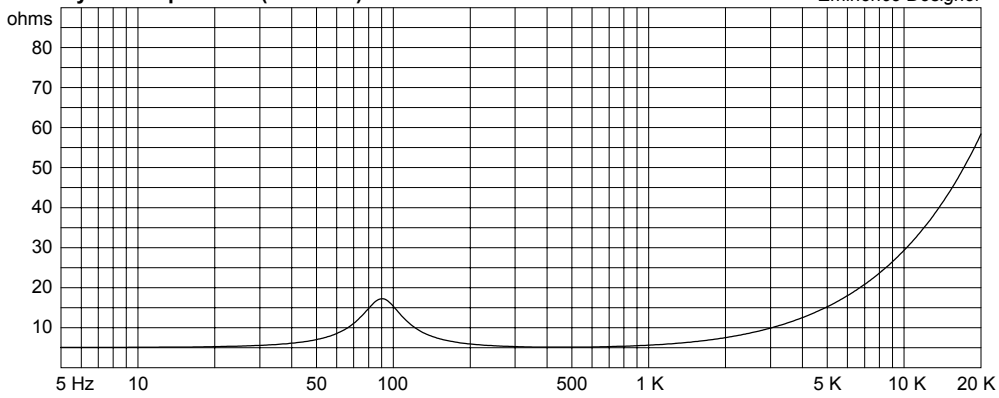
Cone Displacement (mm/Hz) with 200 watts

Eminence Designer



System Impedance (ohms/Hz)

Eminence Designer



DeltaLite-II 2512 Small Vented Hi Pwr Sat or Vocal Monitor

By Jerry McNutt, Eminence Speaker LLC
Thermally Limited to 250 Watts; F3 of 72 Hz. For Semi FR use 60 Hz High Pass.
For Hi Pwr Sat of Vocal Wedge use 100 Hz high pass filter.

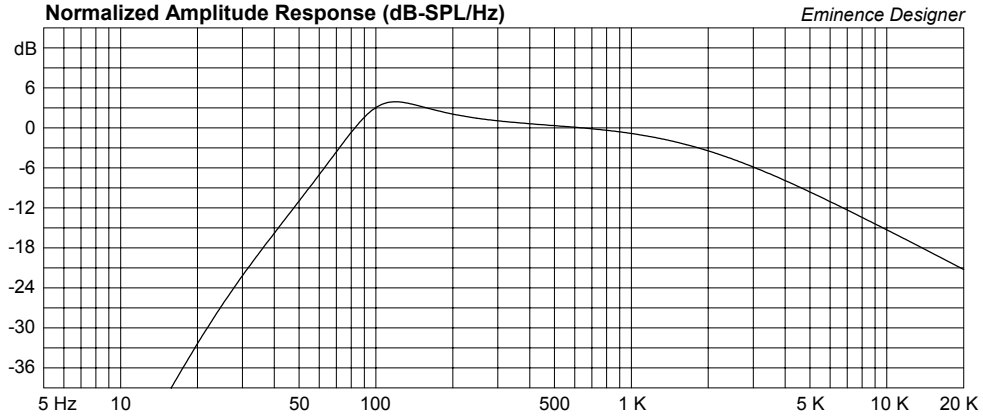
Box Properties

--Description--
Name:
Type: Vented Box
Shape: Prism, square
--Box Parameters--
Vb = 1 cu.ft
V(total) = 1.165 cu.ft
Fb = 65 Hz
QL = 7
F3 = 71.84 Hz
Fill = minimal
--Vents--
No. of Vents = 1
Vent shape = round
Vent ends = one flush
Dv = 4 in
Lv = 4.337 in

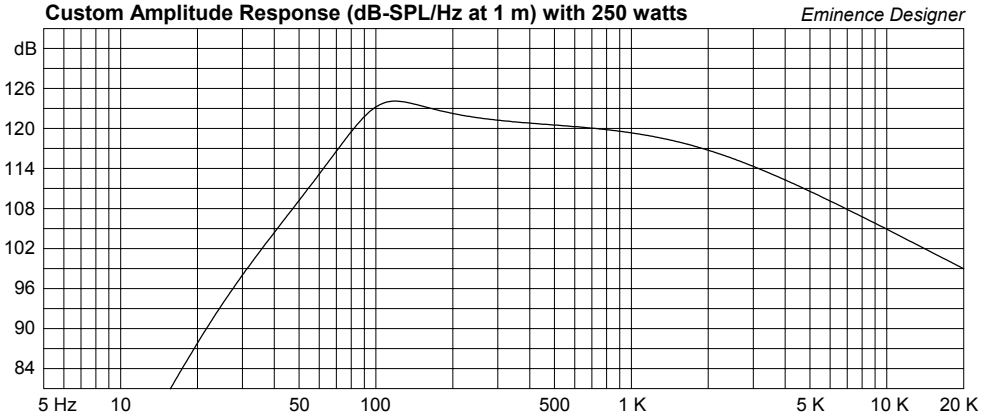
Driver Properties

--Description--
Name:
Type: Standard one-way driver
--Configuration--
No. of Drivers = 1
--Driver Parameters--
Fs = 36.98 Hz
Qms = 3.13
Vas = 146.6 liters
Xmax = 4.9 mm
Sd = 519.5 sq.cm
Qes = 0.44
Re = 5.04 ohms
Le = 0.46 mH
Z = 8 ohms
Pe = 250 watts

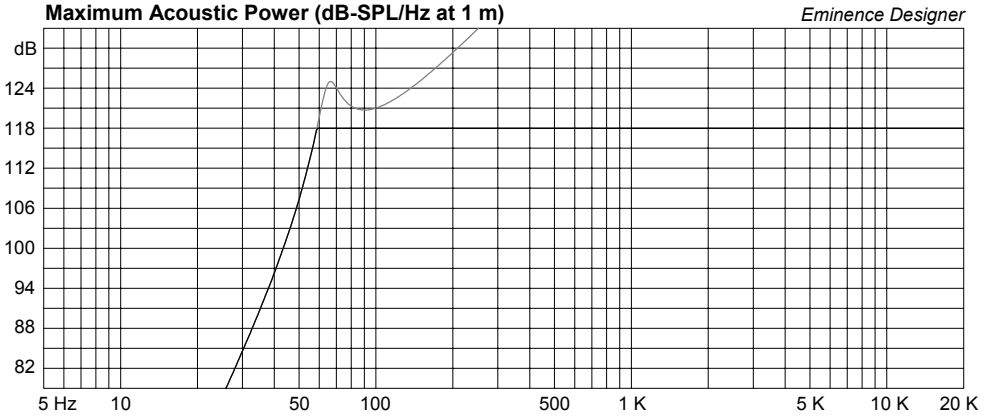
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 250 watts *Eminence Designer*

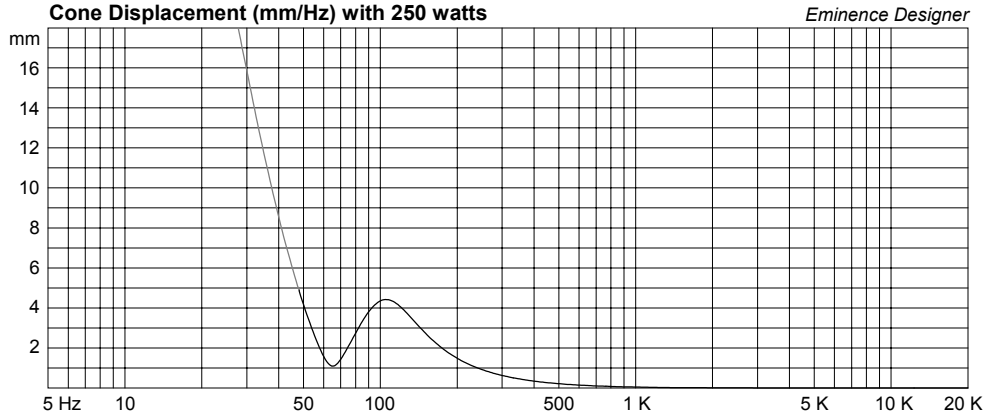


Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



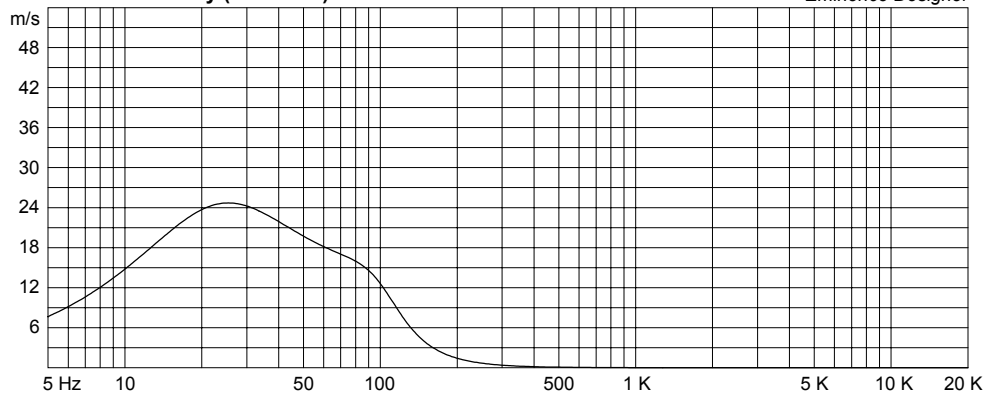
Cone Displacement (mm/Hz) with 250 watts

Eminence Designer



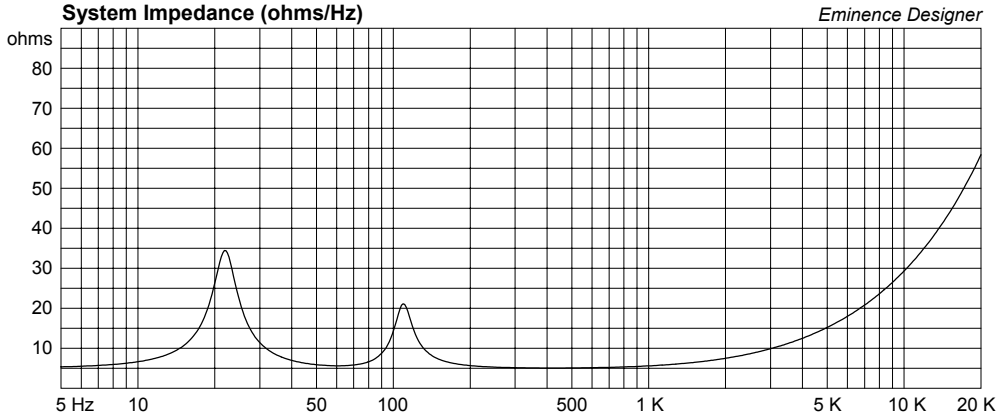
Vent Air Velocity (m/sec/Hz) with 250 watts

Eminence Designer



System Impedance (ohms/Hz)

Eminence Designer



DeltaLite-II 2512 Small 1x12 Bass Guitar Cabinet

By Jerry McNutt, Eminence Speaker LLC
Displacement Limited to 175 Watts; F3 of 62 Hz. Use a steep High Pass Filter set to 40 Hz to protect your woofer.

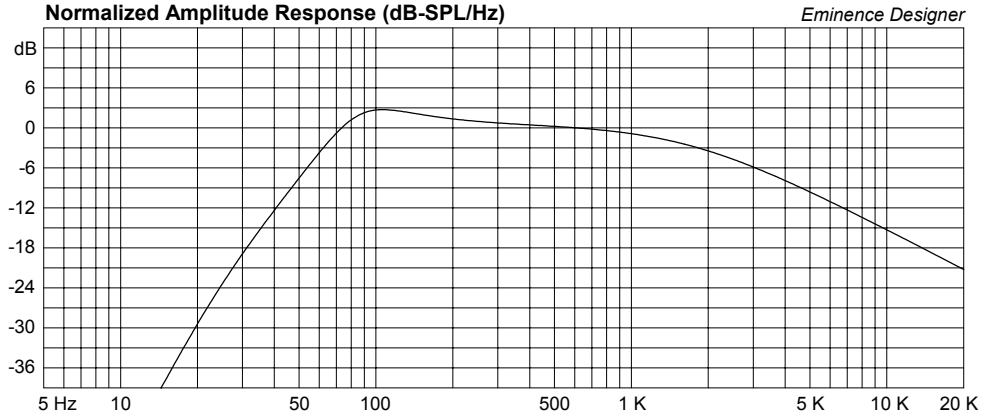
Box Properties

--Description--
Name:
Type: Vented Box
Shape: Prism, square
--Box Parameters--
Vb = 1.38 cu.ft
V(total) = 1.546 cu.ft
Fb = 55 Hz
QL = 7
F3 = 62.15 Hz
Fill = minimal
--Vents--
No. of Vents = 1
Vent shape = round
Vent ends = one flush
Dv = 4 in
Lv = 4.438 in

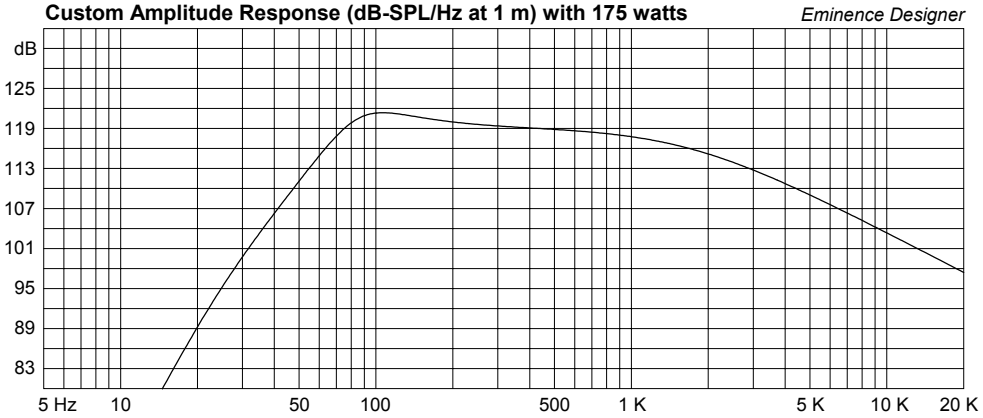
Driver Properties

--Description--
Name:
Type: Standard one-way driver
--Configuration--
No. of Drivers = 1
--Driver Parameters--
Fs = 36.98 Hz
Qms = 3.13
Vas = 146.6 liters
Xmax = 4.9 mm
Sd = 519.5 sq.cm
Qes = 0.44
Re = 5.04 ohms
Le = 0.46 mH
Z = 8 ohms
Pe = 300 watts

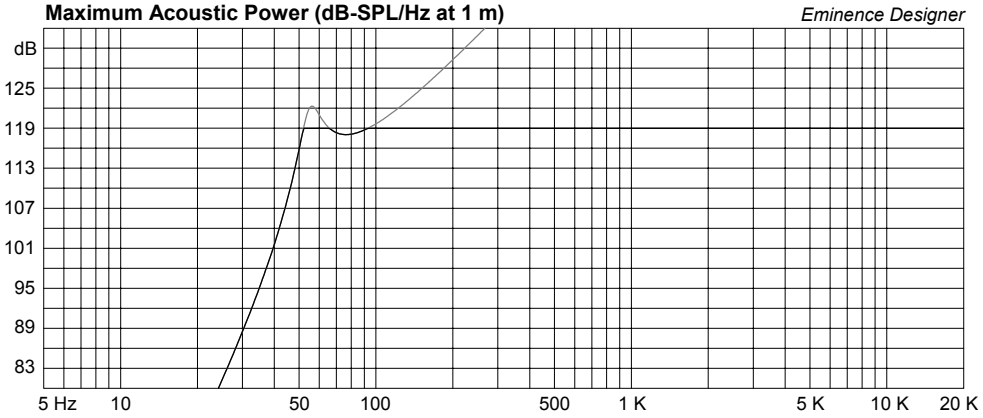
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 175 watts *Eminence Designer*



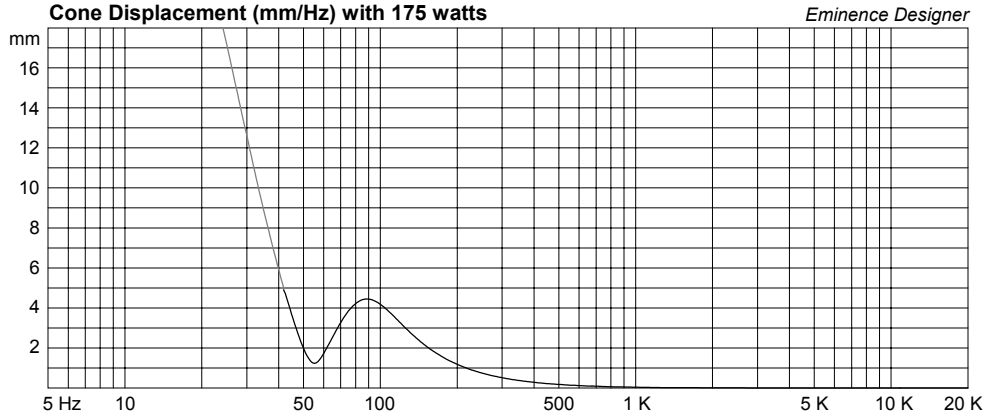
Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



File: DeltaLite-II2512SmallVentedBassGuitarCab175Watts.bb6

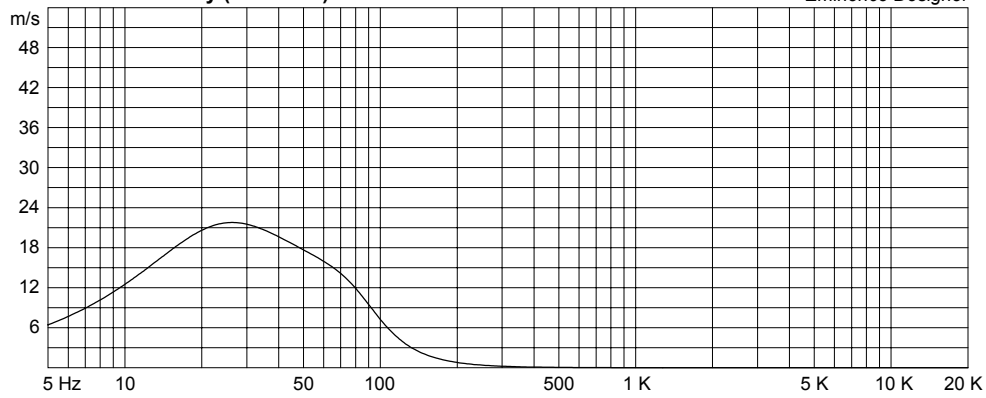
Cone Displacement (mm/Hz) with 175 watts

Eminence Designer



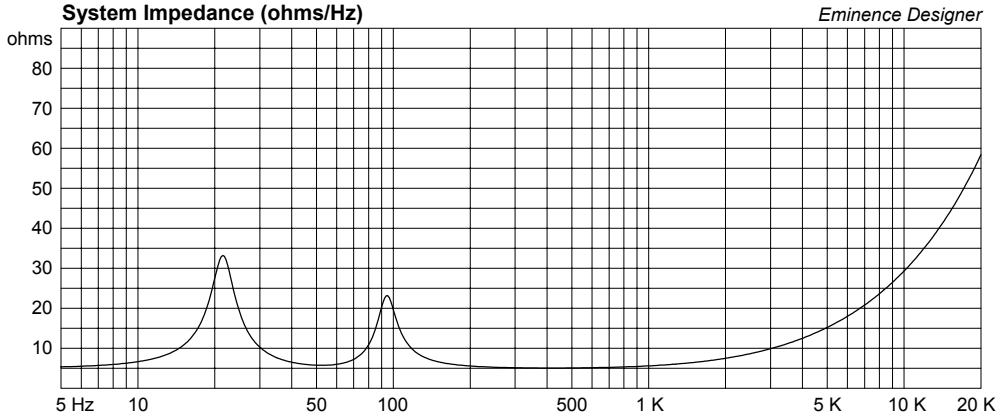
Vent Air Velocity (m/sec/Hz) with 175 watts

Eminence Designer



System Impedance (ohms/Hz)

Eminence Designer



DeltaLite-II 2512 Larger 1x12 Bass Guitar Cabinet

By Jerry McNutt, Eminence Speaker LLC
Displacement Limited to 125 Watts; F3 of 51Hz. Use a steep high pass filter set to 35 Hz to protect your woofer.

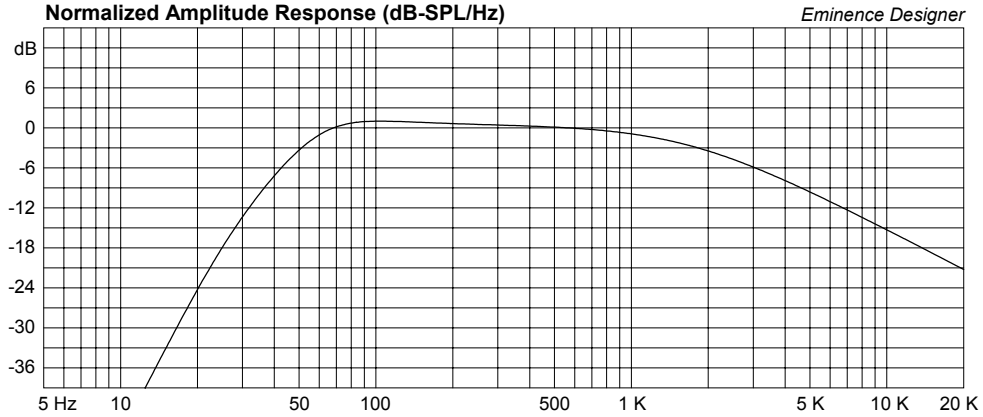
Box Properties

--Description--
Name:
Type: Vented Box
Shape: Prism, square
--Box Parameters--
Vb = 2.25 cu.ft
V(total) = 2.44 cu.ft
Fb = 42.16 Hz
QL = 7
F3 = 51.13 Hz
Fill = minimal
--Vents--
No. of Vents = 2
Vent shape = round
Vent ends = one flush
Dv = 3 in
Lv = 6.34 in

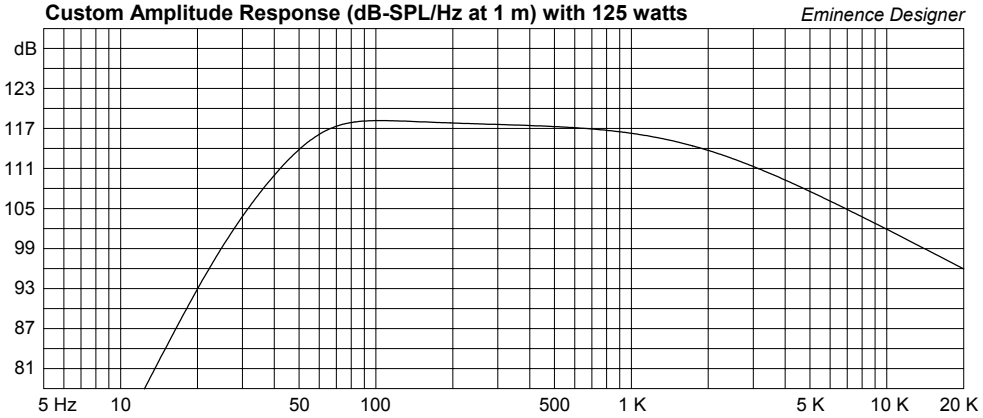
Driver Properties

--Description--
Name:
Type: Standard one-way driver
--Configuration--
No. of Drivers = 1
--Driver Parameters--
Fs = 36.98 Hz
Qms = 3.13
Vas = 146.6 liters
Xmax = 4.9 mm
Sd = 519.5 sq.cm
Qes = 0.44
Re = 5.04 ohms
Le = 0.46 mH
Z = 8 ohms
Pe = 300 watts

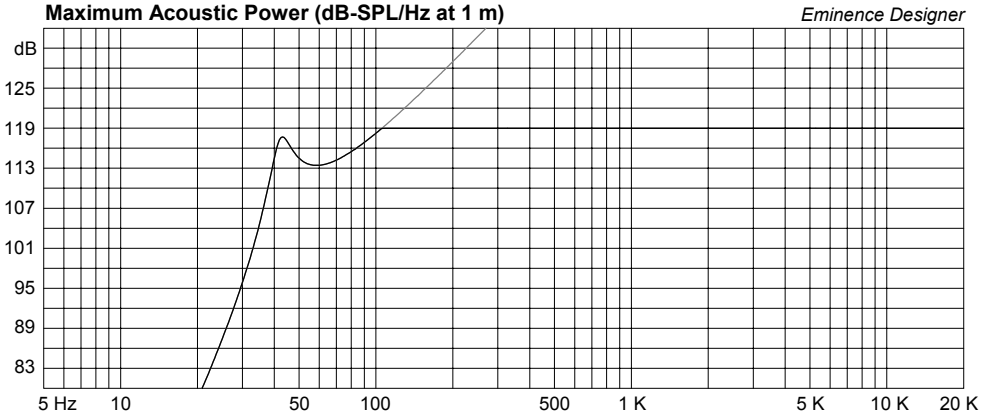
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 125 watts *Eminence Designer*



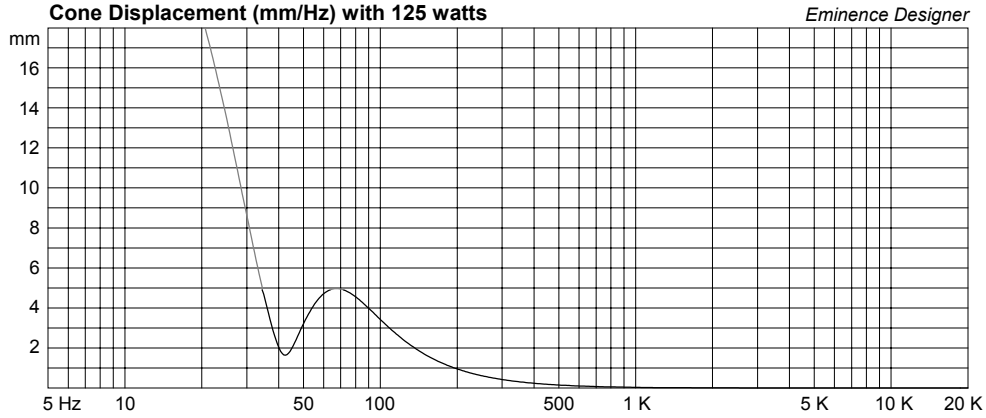
Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



File: DeltaLite-II2512LargerVentedBassGuitarCab125Watts.bb6

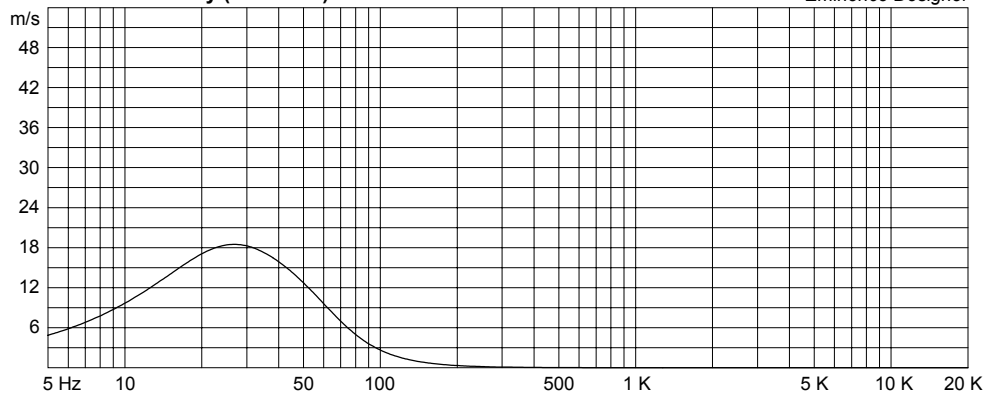
Cone Displacement (mm/Hz) with 125 watts

Eminence Designer



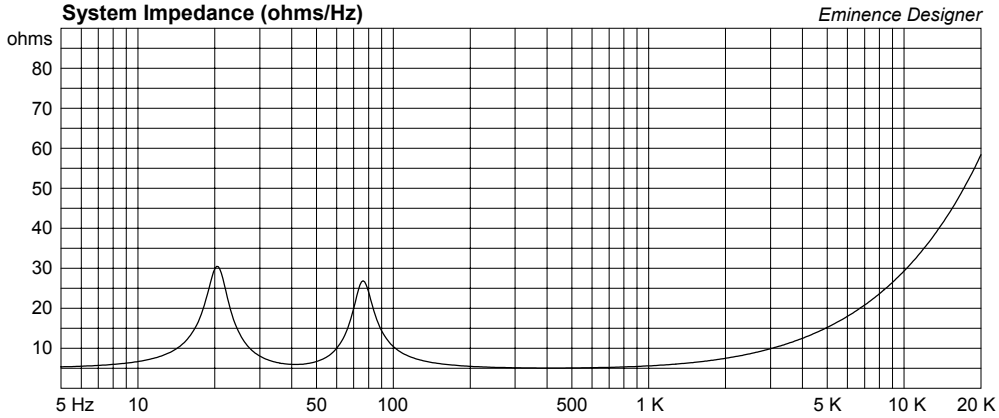
Vent Air Velocity (m/sec/Hz) with 125 watts

Eminence Designer



System Impedance (ohms/Hz)

Eminence Designer



DeltaLite-II 2512 2x12 Bass Guitar Cabinet

By Jerry McNutt, Eminence Speaker LLC
Displacement Limited to 325 Watts; F3 of 55 Hz. Use a steep high pass filter set to 40 Hz to protect your woofer.

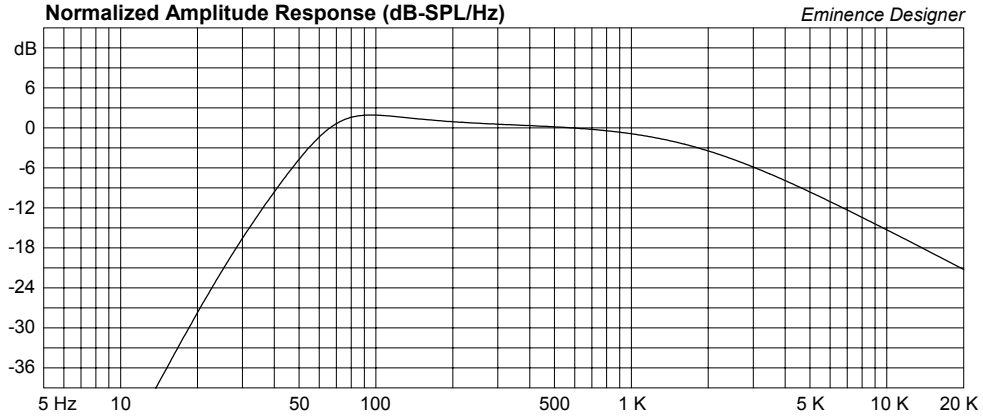
Box Properties

--Description--
Name:
Type: Vented Box
Shape: Prism, square (optimum)
--Box Parameters--
Vb = 3.8 cu.ft
V(total) = 4.137 cu.ft
Fb = 50 Hz
QL = 7
F3 = 54.56 Hz
Fill = minimal
--Vents--
No. of Vents = 4
Vent shape = round
Vent ends = one flush
Dv = 3 in
Lv = 4.1 in

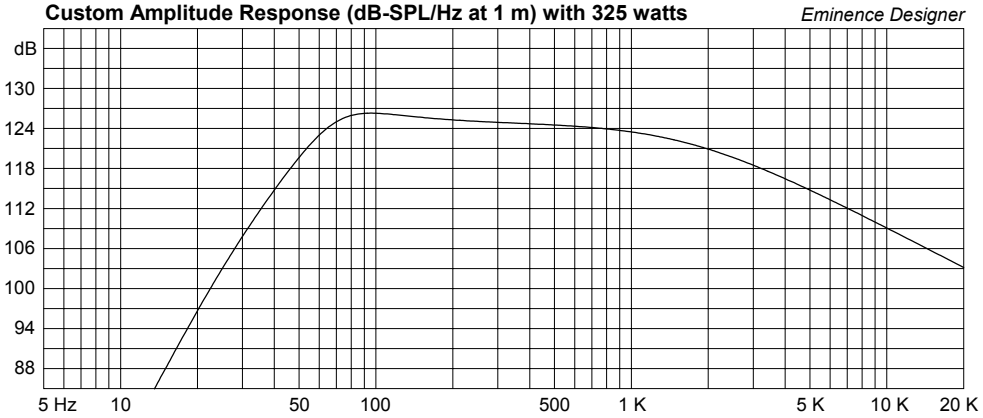
Driver Properties

--Description--
Name:
Type: Standard one-way driver
--Configuration--
No. of Drivers = 2
Mounting = Standard
Wiring = Parallel
Drivers sum coherently = Yes
--Driver Parameters--
Fs = 36.98 Hz
Qms = 3.13
Vas = 146.6 liters [293.3]
Xmax = 4.9 mm
Sd = 519.5 sq.cm [1039]
Qes = 0.44
Re = 5.04 ohms [2.52]
Le = 0.46 mH [0.23]
Z = 8 ohms [4]
Pe = 300 watts [600]

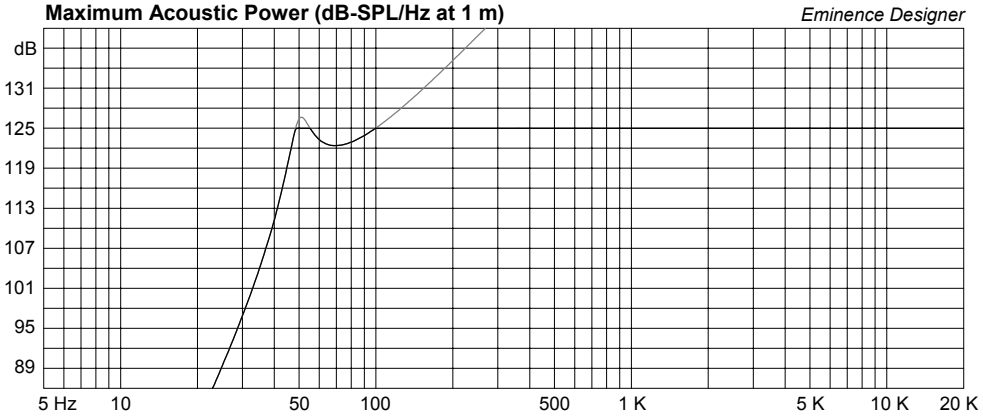
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 325 watts *Eminence Designer*

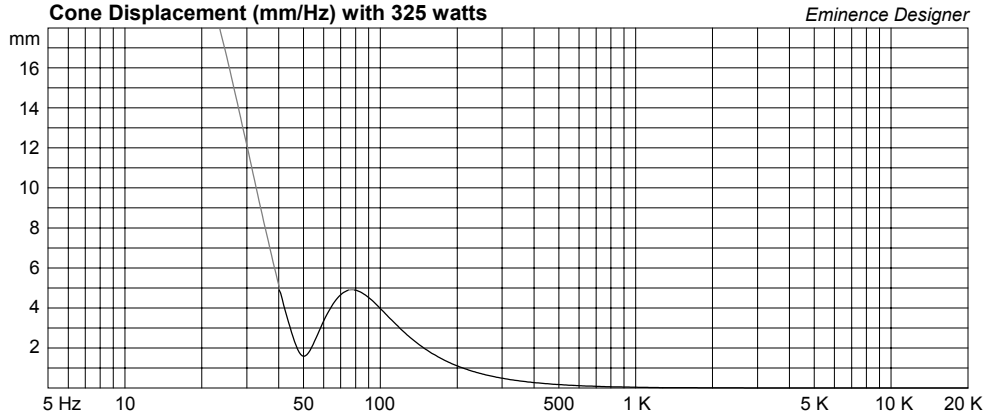


Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



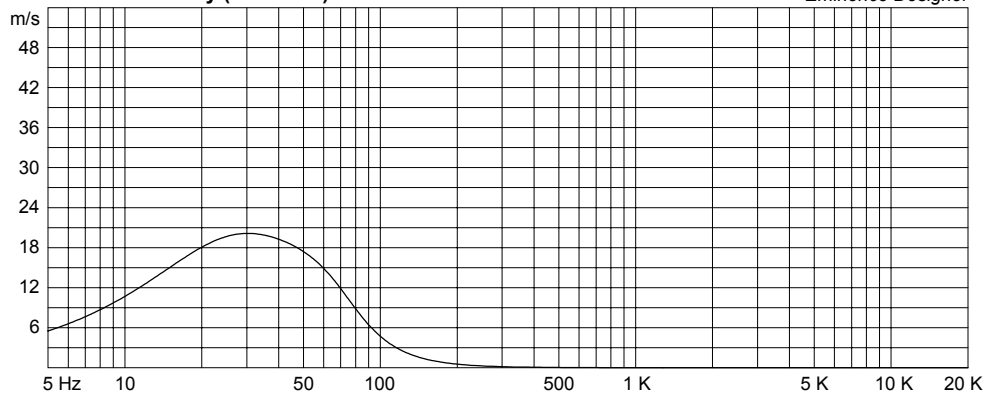
Cone Displacement (mm/Hz) with 325 watts

Eminence Designer



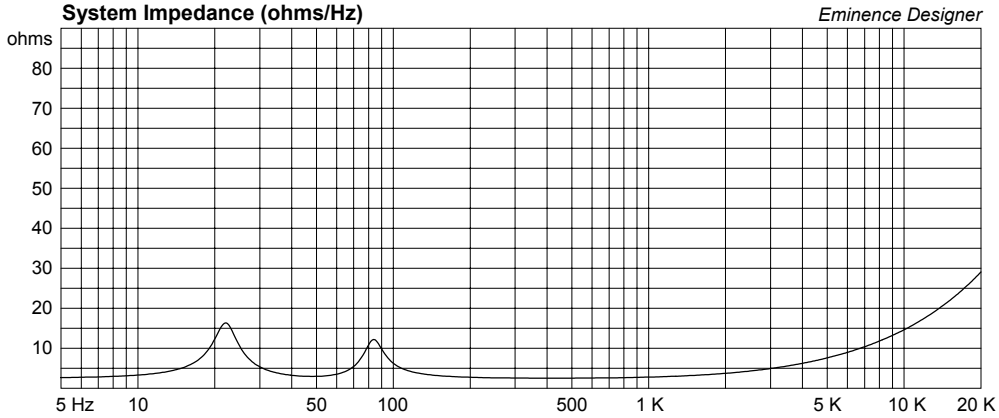
Vent Air Velocity (m/sec/Hz) with 325 watts

Eminence Designer



System Impedance (ohms/Hz)

Eminence Designer



DeltaLite-II 2512 4x12 Bass Cabinet

By Jerry McNutt, Eminence Speaker LLC
Displacement Limited to 650 Watts; F3 of 56 Hz. Use a steep High Pass filter set to 40 Hz to protect your woofers.

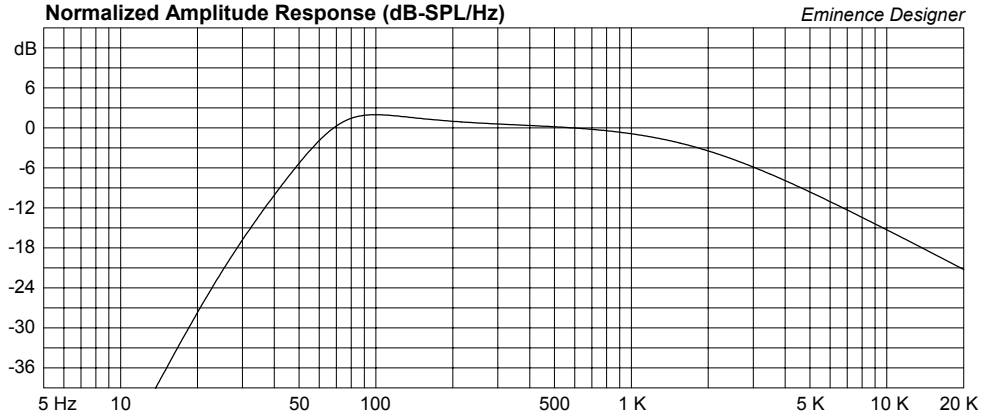
Box Properties

--Description--
Name:
Type: Vented Box
Shape: Prism, square (optimum)
--Box Parameters--
Vb = 7 cu.ft
V(total) = 7.595 cu.ft
Fb = 50 Hz
QL = 7
F3 = 56.31 Hz
Fill = minimal
--Vents--
No. of Vents = 4
Vent shape = round
Vent ends = one flush
Dv = 4 in
Lv = 2.394 in

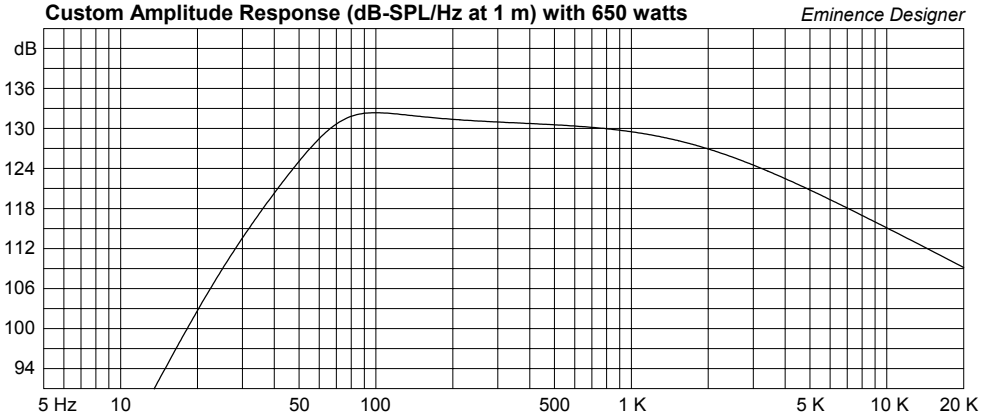
Driver Properties

--Description--
Name:
Type: Standard one-way driver
--Configuration--
No. of Drivers = 4
Mounting = Standard
Wiring = Series-Parallel
Drivers sum coherently = Yes
--Driver Parameters--
Fs = 36.98 Hz
Qms = 3.13
Vas = 146.6 liters [586.6]
Xmax = 4.9 mm
Sd = 519.5 sq.cm [2078]
Qes = 0.44
Re = 5.04 ohms [5.04]
Le = 0.46 mH [0.46]
Z = 8 ohms [8]
Pe = 300 watts [1200]

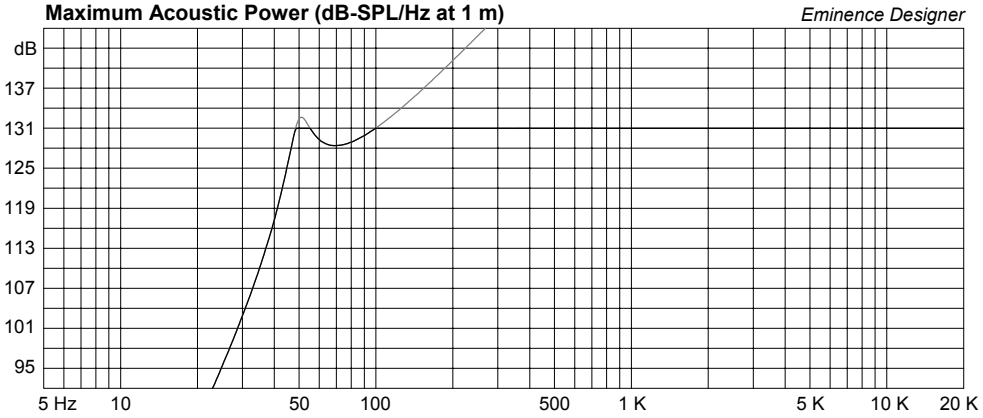
Normalized Amplitude Response (dB-SPL/Hz) *Eminence Designer*



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 650 watts *Eminence Designer*



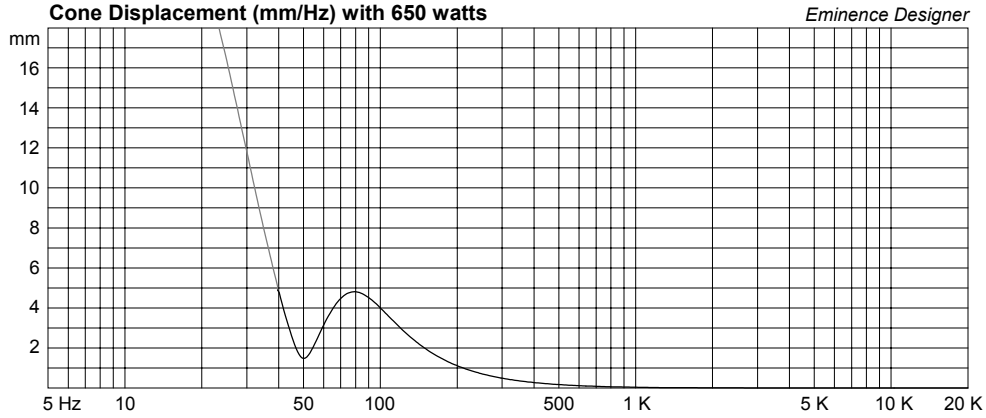
Maximum Acoustic Power (dB-SPL/Hz at 1 m) *Eminence Designer*



File: DeltaLite-II2512Vented4x12BassGuitarCab650Watts.bb6

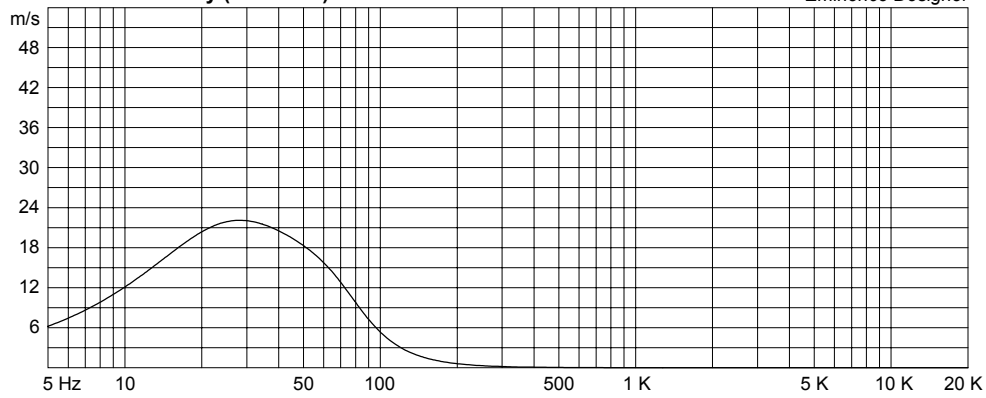
Cone Displacement (mm/Hz) with 650 watts

Eminence Designer



Vent Air Velocity (m/sec/Hz) with 650 watts

Eminence Designer



System Impedance (ohms/Hz)

Eminence Designer