

## Specification

Nominal Basket Diameter	18", 457mm
Nominal Impedance*	4 ohms
Power Rating**	
Watts	500W
Music Program	1000W
Resonance	27.23Hz
Usable Frequency Range***	35Hz -200Hz
Sensitivity	94.4
Magnet Weight	67oz
Gap Height	.38", 9.53mm
Voice Coil Diameter	2.5", 63.5mm

## Thiele & Small Parameters

Resonant Frequency (fs)	27.23Hz
DC Resistance (Re)	3.8
Coil Inductance (Le)	2.65mH
Mechanical Q (Qms)	13.24
Electromagnetic Q (Qes)	.32
Total Q (Qts)	.32
Compliance Equivalent Volume (Vas)	488.81 ltr/17.26 cu. ft.
Peak Diaphragm Displacement Volume (Vd)	796.00cc
Mechanical Compliance of Suspension (Cms)	.25mm/N
BL Product (BL)	16.5 T-M
Diaphragm Mass inc. Airload (Mms)	136.9 grams
Efficiency Bandwidth Product (EBP)	84
Maximum Linear Excursion (Xmax)	6.7mm
Surface Area of Cone (Sd)	1188.0cm <sup>2</sup>
Maximum Mechanical Limit (Xlim)	15.0mm

## Mounting Information

Recommended Enclosure Volume	
Sealed	N/A
Vented	85-283 ltr/3.0-10.0 cu. ft.
Overall Diameter	18.00", 457.20mm
Baffle Hole Diameter	16.57", 420.88mm
Front Sealing Gasket	Fitted as Standard
Rear Sealing Gasket	Fitted as Standard
Mounting Holes Diameter	.28", 7.11mm
Mounting Holes B.C.D.	17.25", 438.15mm
Depth	8.13", 206.50mm
Net Weight	17.00 lbs, 7.71 kg
Shipping Weight	20.5 lbs, 9.3 kg

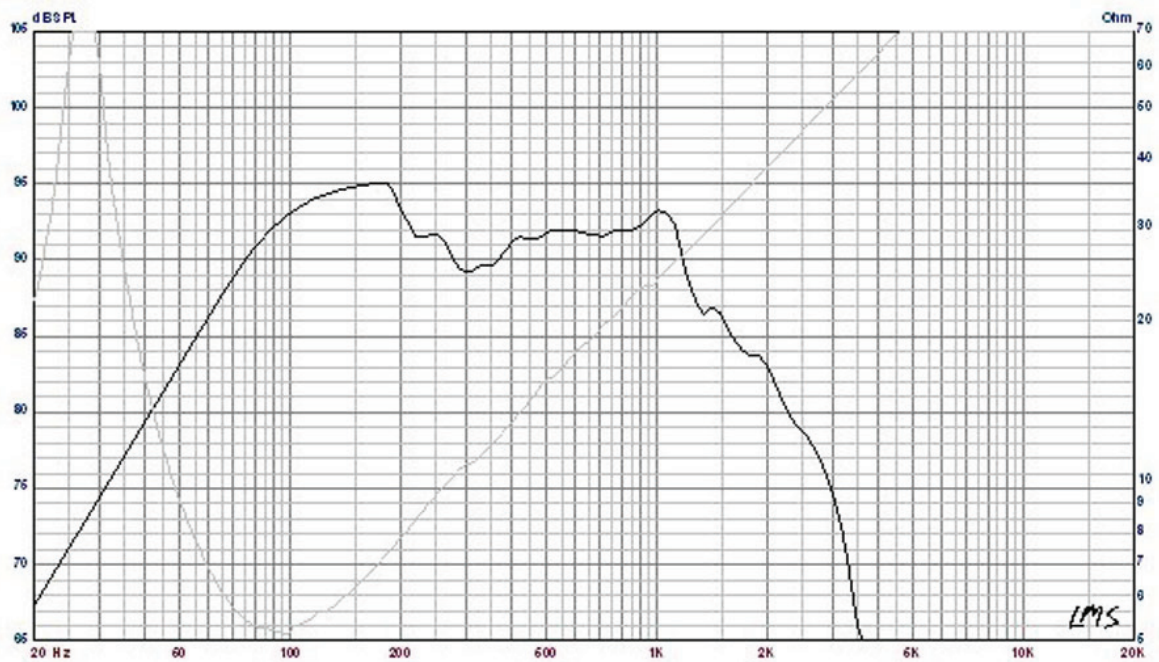
## Materials of Construction

Coil Construction	Copper
Coil	Polyimide
Magnet Composition	Ferrite
Core Details	Vented and Extended
Basket Materials	Aluminum
Cone Composition	Treated Paper
Cone Edge Composition	Sealed Cloth Edge
Dust Cap Composition	Treated Paper



## DELTA PRO-18C Professional Series

Long Throw Subwoofer for small vented cabinets. Oversize top plate and large pole vent help keep the voice coil cool.



\* 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. le: 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)

# Delta Pro-18C Large Vented Subwoofer

By Jerry McNutt, Eminence Speaker LLC

Limit to 400 Watts; F3 of 35 Hz. Use steep high pass at 30 Hz.



## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 10 cu.ft

V(total) = 10.45 cu.ft

Fb = 35 Hz

QL = 7

F3 = 35.06 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 5.845 in

## Driver Properties

--Description--

Name: Delta Pro-18C

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Long Throw Sub Driver

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 27.23 Hz

Qms = 13.24

Vas = 17.46 cu.ft

Xmax = 0.264 in

Sd = 184.1 sq.in

Qes = 0.32

Re = 3.75 ohms

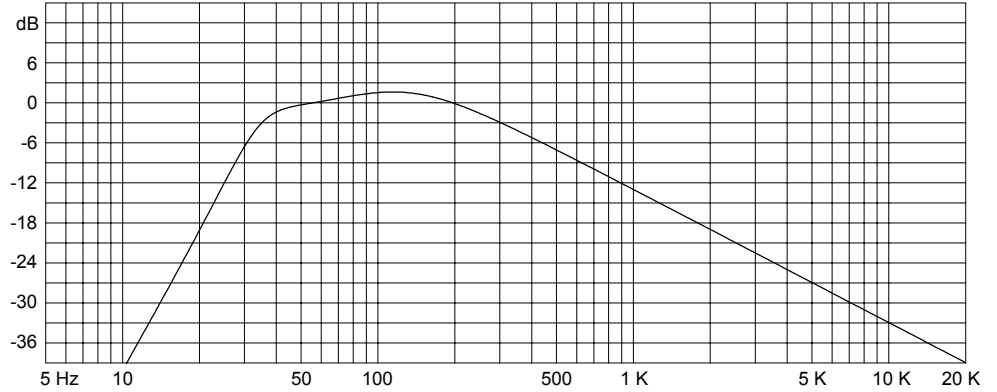
Le = 2.65 mH

Z = 4 ohms

Pe = 500 watts

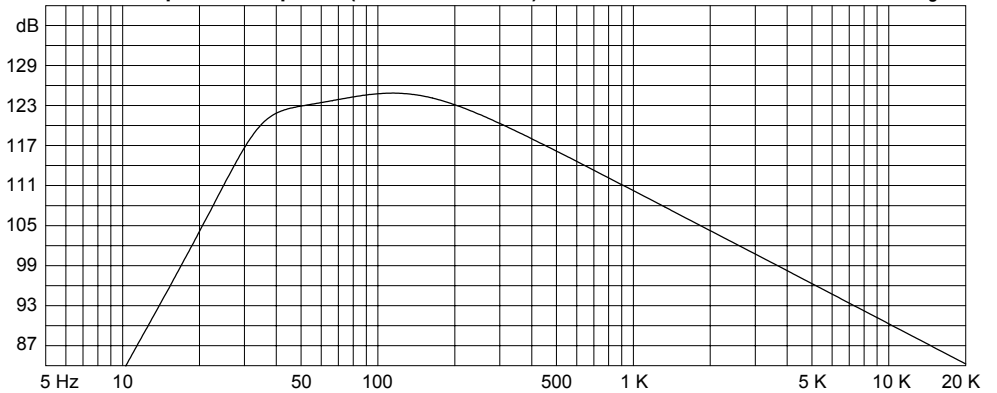
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



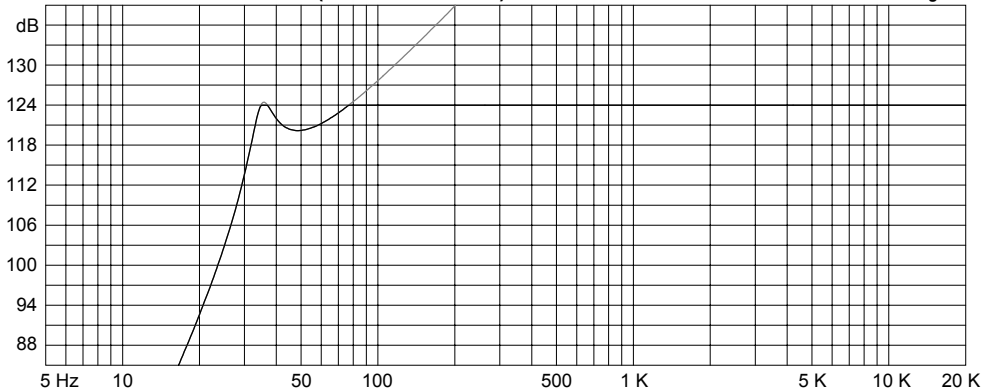
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 400 watts

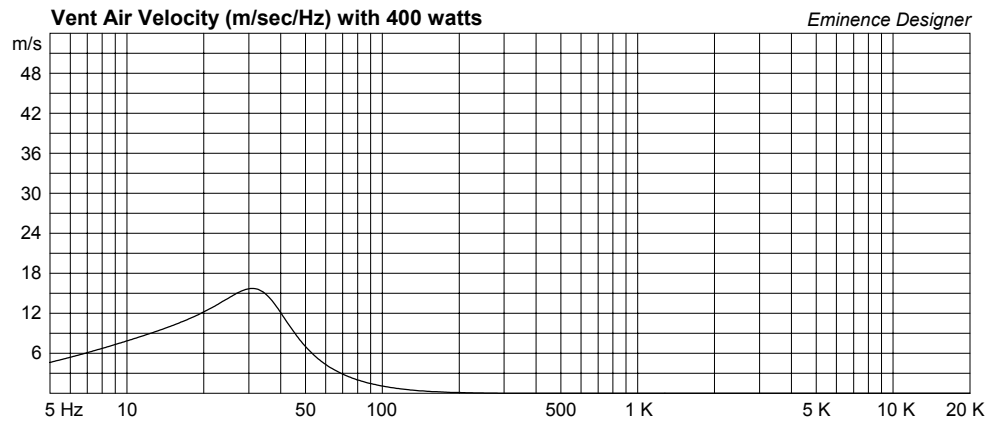
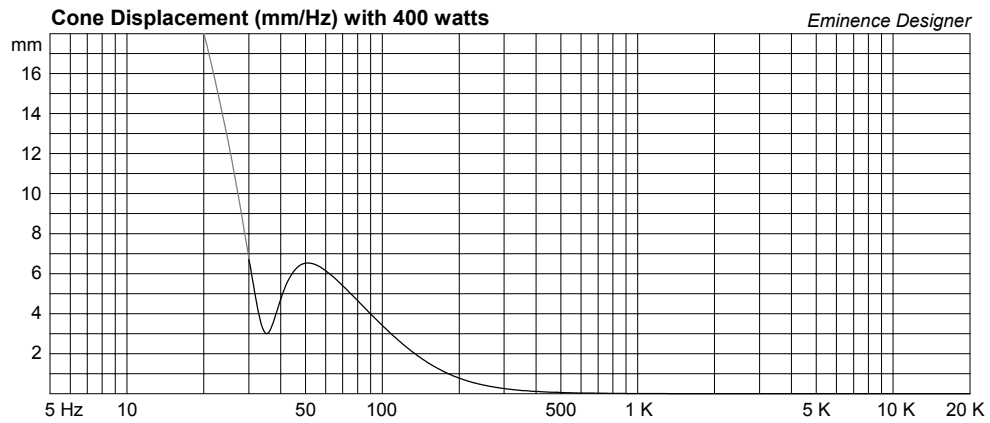
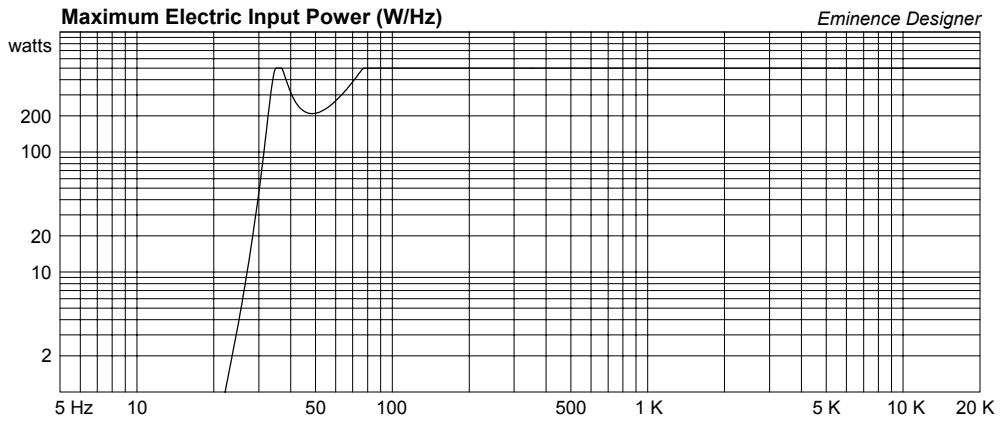
Eminence Designer

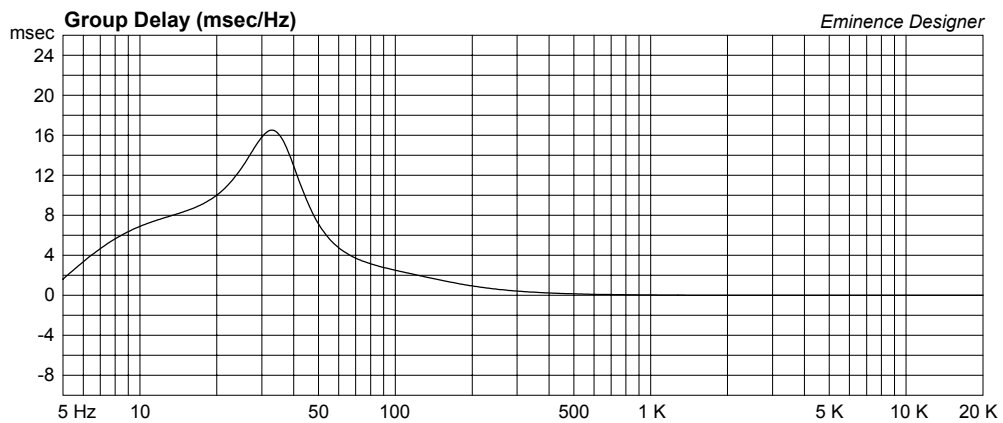
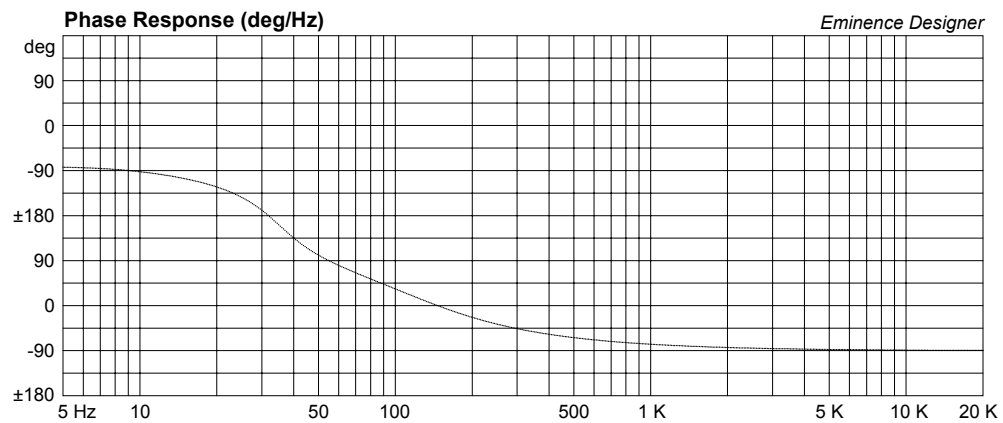
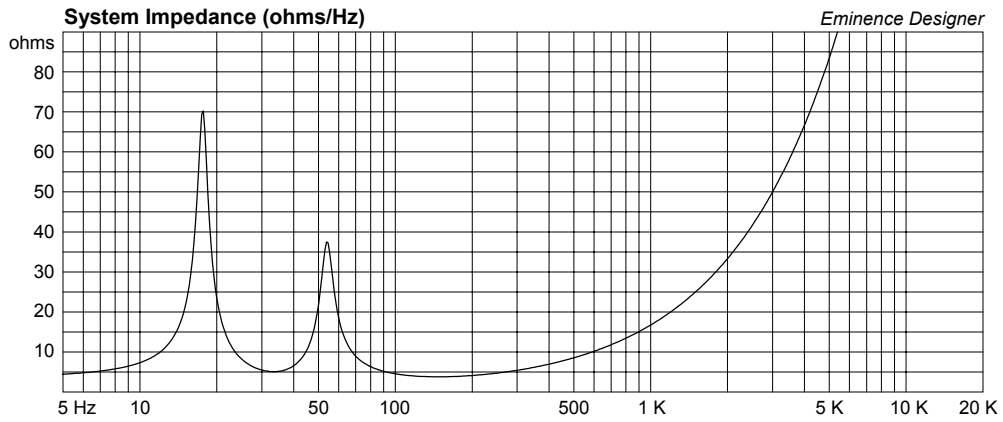


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







# Delta Pro-18C Med Vented Subwoofer Cabinet

By Jerry McNutt, Eminence Speaker LLC

Limit to 500 Watts; F3 of 49 Hz. Use steep high pass at 35 Hz.



## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 4.6 cu.ft

V(total) = 5.17 cu.ft

Fb = 45 Hz

QL = 7

F3 = 48.63 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 9.469 in

## Driver Properties

--Description--

Name: Delta Pro-18C

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Long Throw Sub Driver

--Configuration--

**No. of Drivers = 1**

--Driver Parameters--

Fs = 27.23 Hz

Qms = 13.24

Vas = 17.46 cu.ft

Xmax = 0.264 in

Sd = 184.1 sq.in

Qes = 0.32

Re = 3.75 ohms

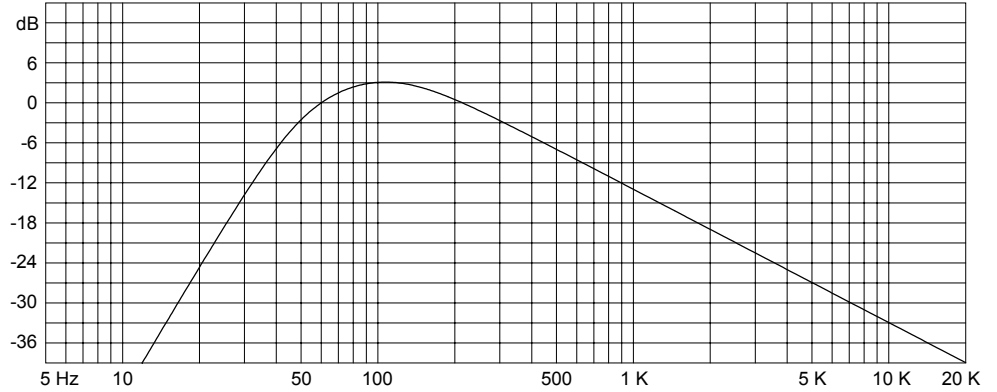
Le = 2.65 mH

Z = 4 ohms

Pe = 500 watts

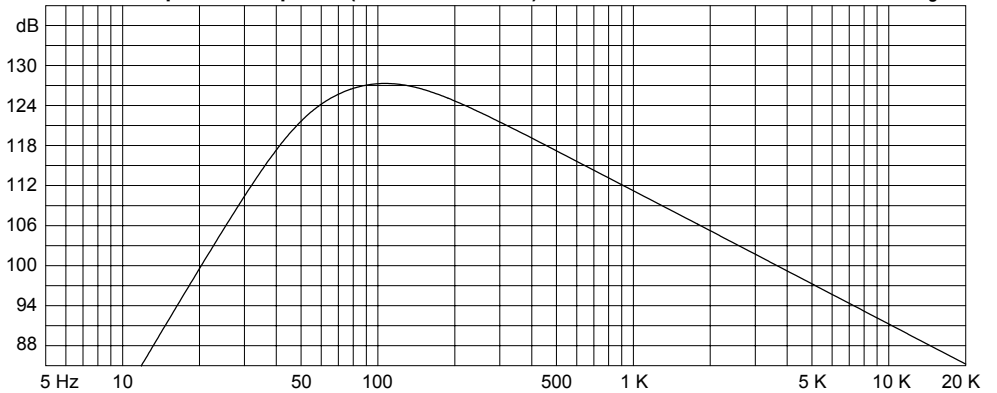
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



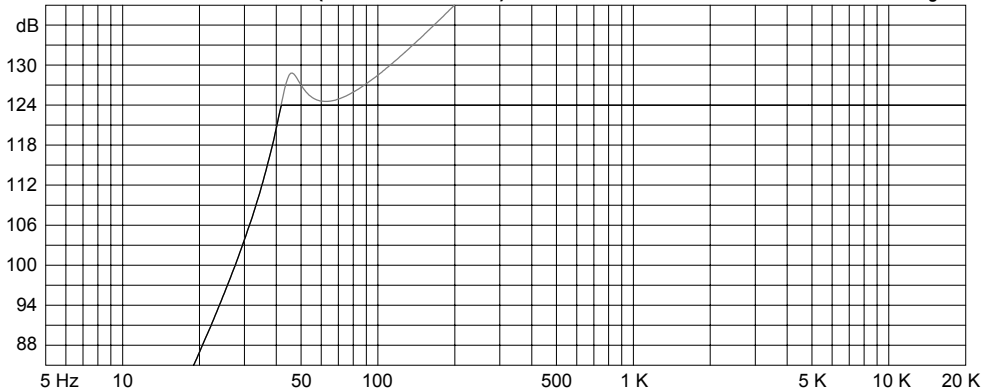
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 500 watts

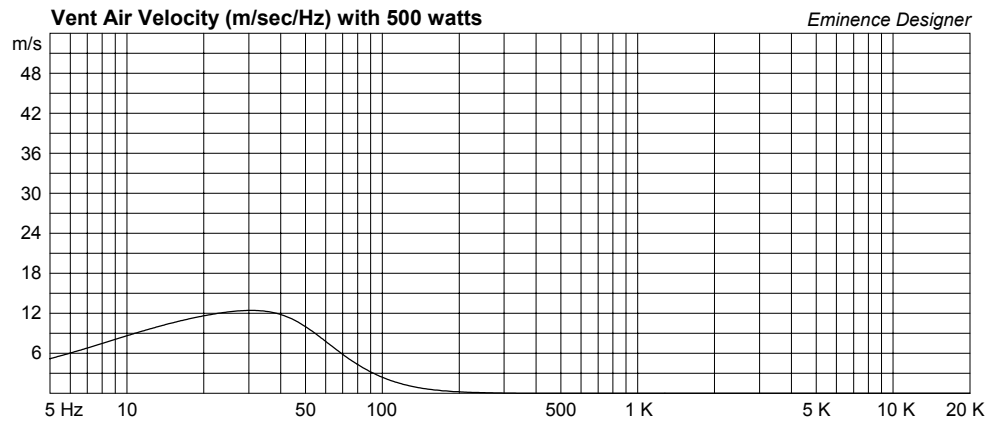
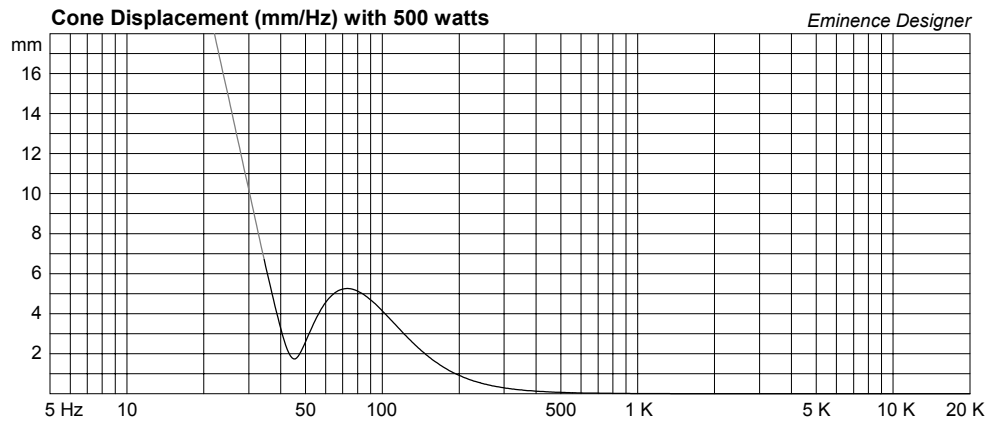
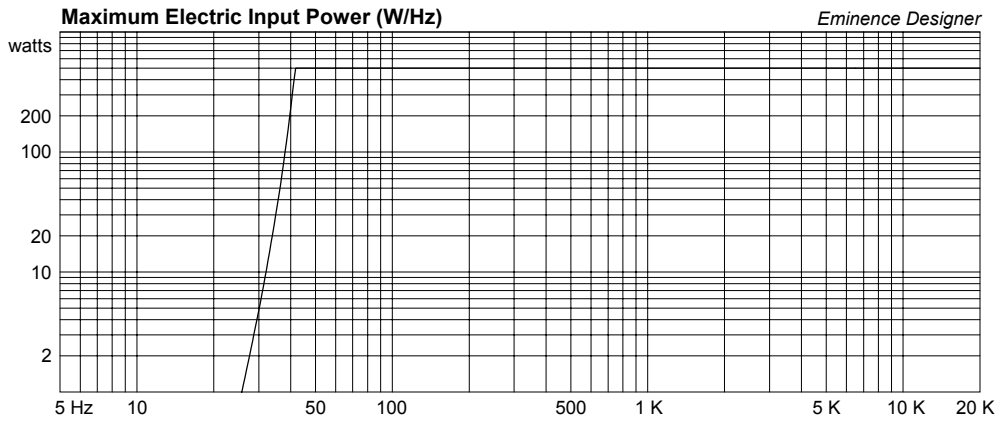
Eminence Designer

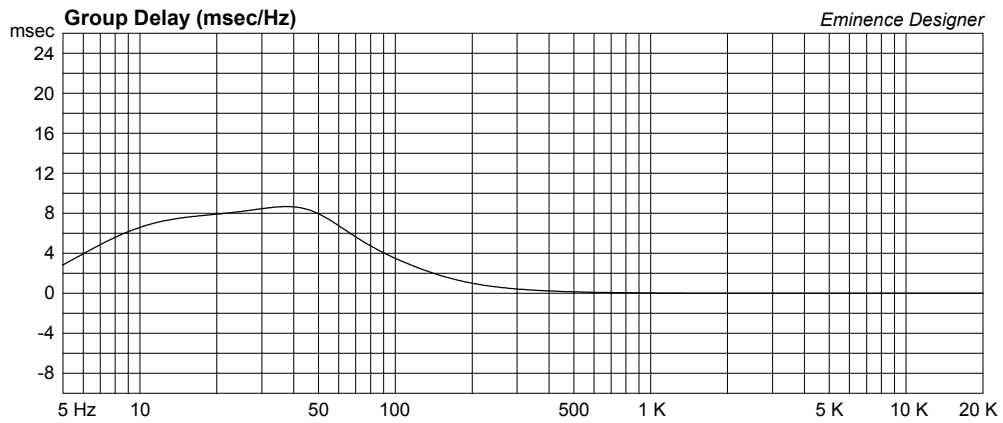
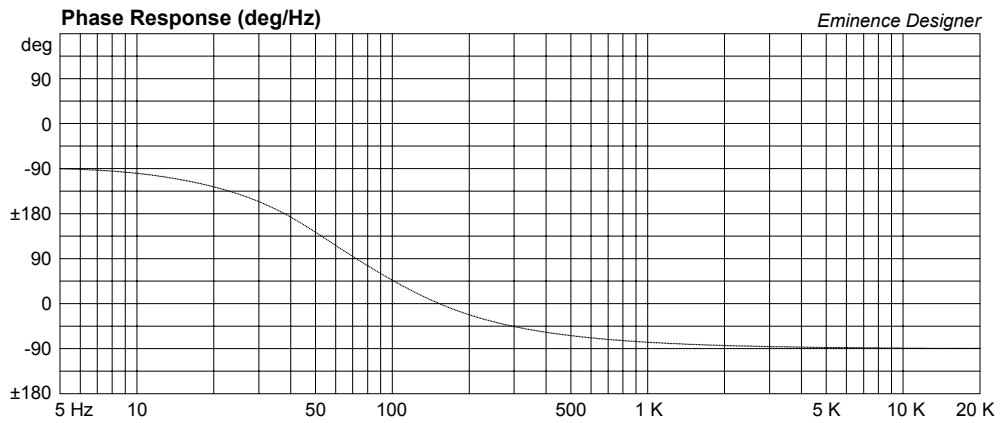
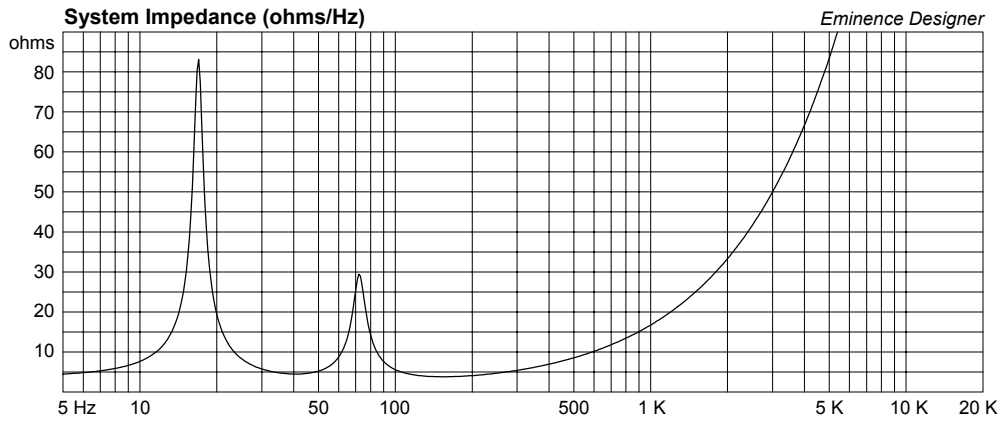


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







# Delta Pro-18C Subwoofer Cabinet

By Jerry McNutt, Eminence Speaker LLC  
Limit to 500 Watts; F3 of 44 Hz. Use steep high pass at 35 Hz.



## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 6 cu.ft

V(total) = 6.454 cu.ft

Fb = 45 Hz

QL = 7

F3 = 44.07 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 5.939 in

## Driver Properties

--Description--

Name: Delta Pro-18C

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Long Throw Sub Driver

--Configuration--

**No. of Drivers = 1**

--Driver Parameters--

Fs = 27.23 Hz

Qms = 13.24

Vas = 17.46 cu.ft

Xmax = 0.264 in

Sd = 184.1 sq.in

Qes = 0.32

Re = 3.75 ohms

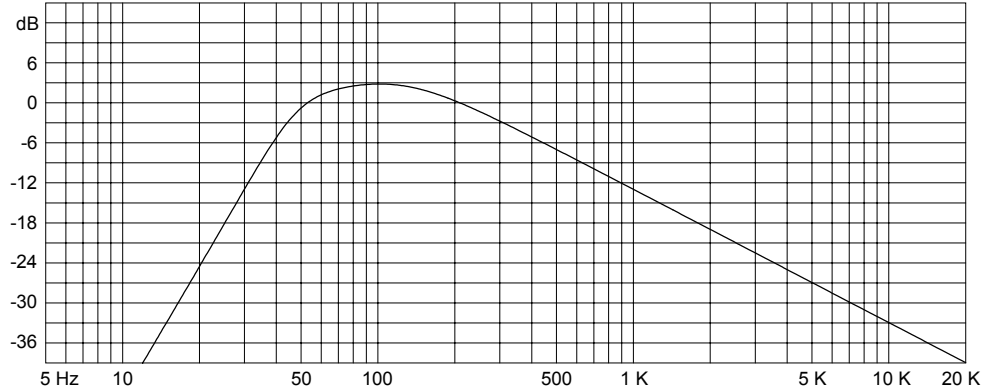
Le = 2.65 mH

Z = 4 ohms

Pe = 500 watts

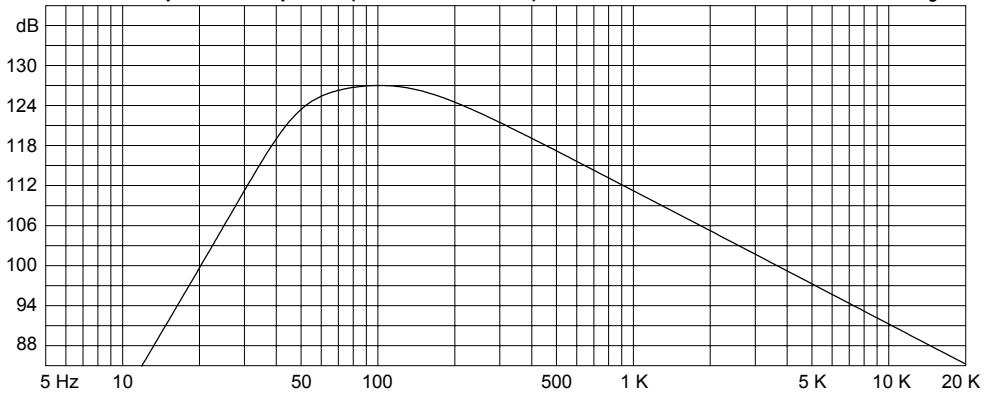
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



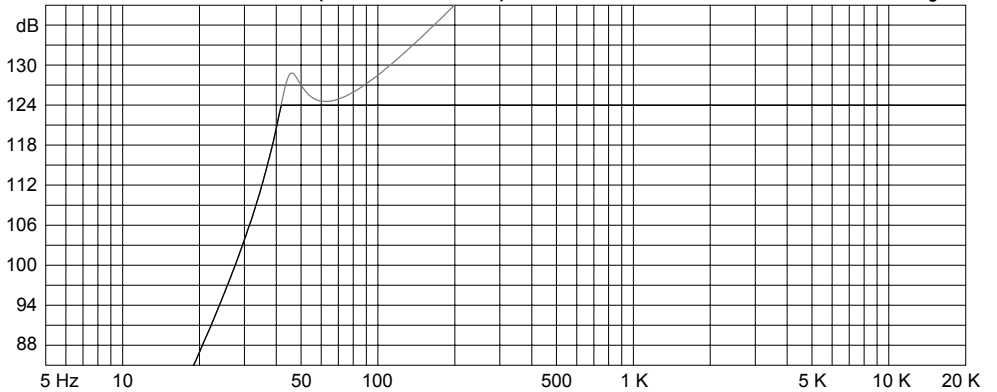
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 500 watts

Eminence Designer

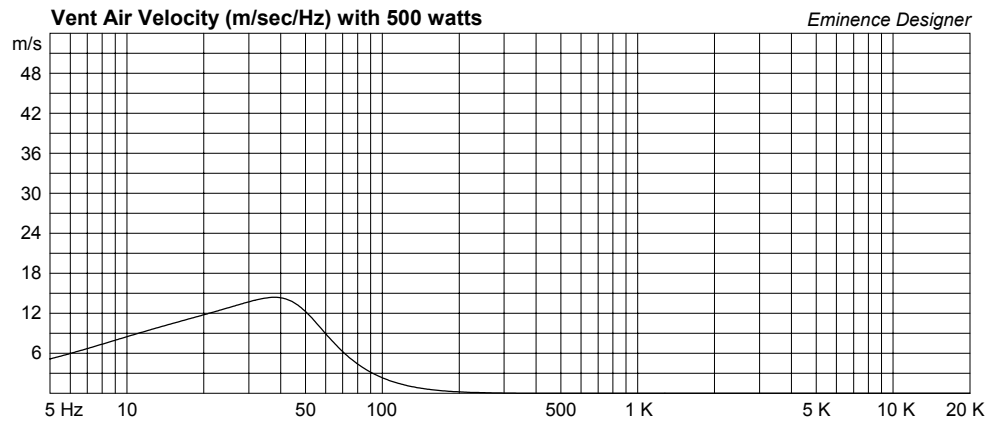
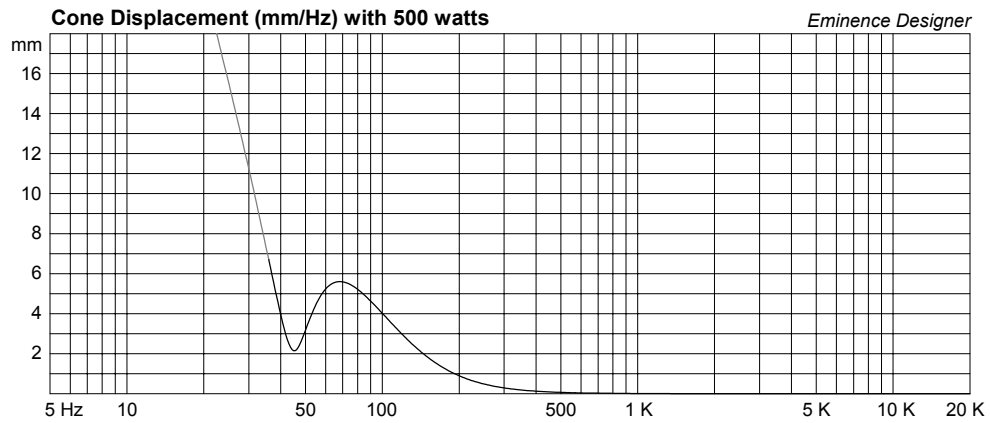
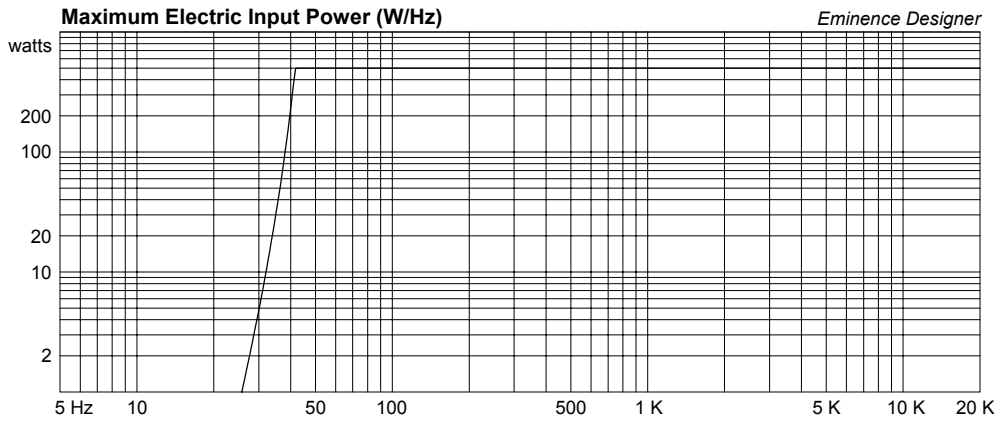


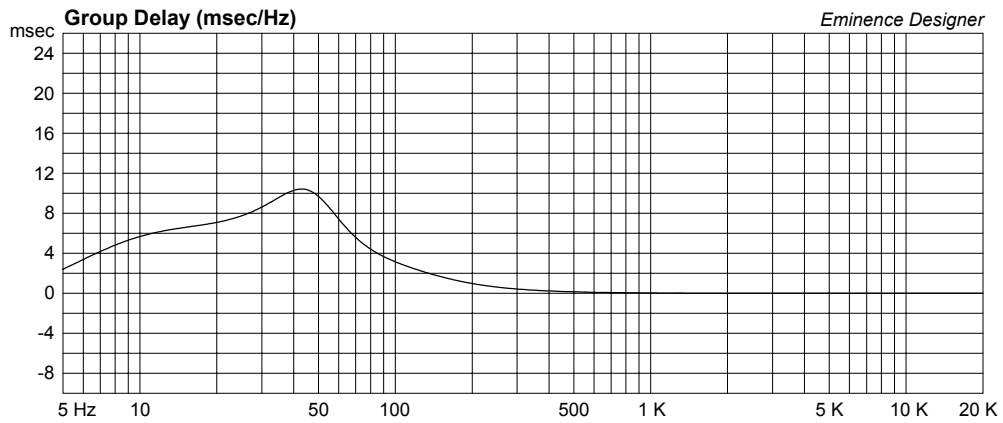
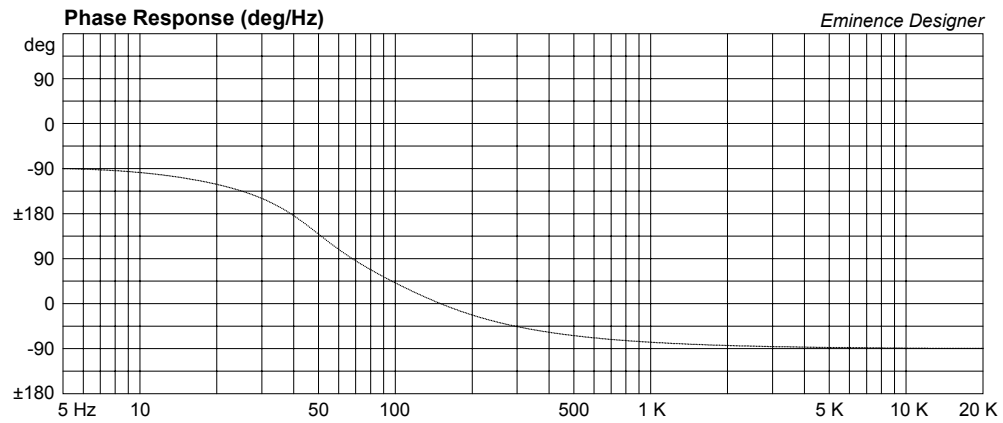
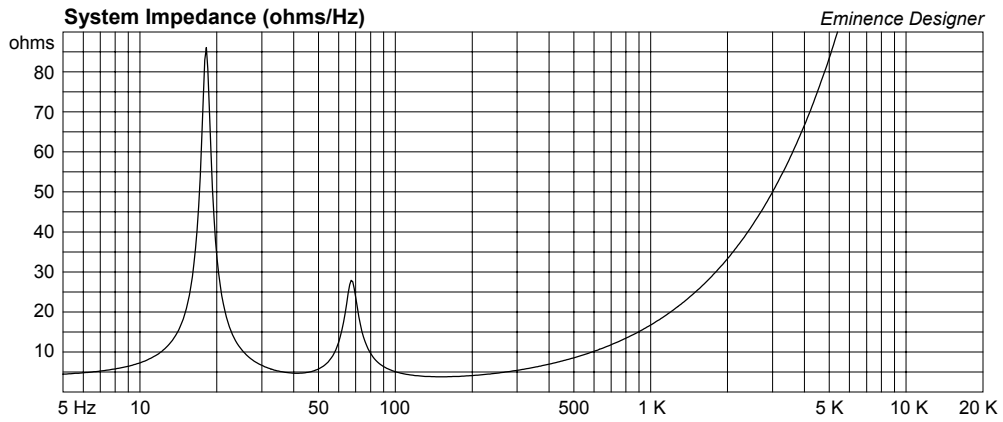
Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer









# Delta Pro-18C Small Vented Woofer Box

By Jerry McNutt, Eminence Speaker LLC

Limit to 500 Watts; F3 of 61 Hz. Use steep high pass at 40 Hz.



## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 2.7 cu.ft

V(total) = 3.034 cu.ft

Fb = 55 Hz

QL = 7

F3 = 61.39 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 3.869 in

## Driver Properties

--Description--

Name: Delta Pro-18C

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Long Throw Sub Driver

--Configuration--

**No. of Drivers = 1**

--Driver Parameters--

Fs = 27.23 Hz

Qms = 13.24

Vas = 17.46 cu.ft

Xmax = 0.264 in

Sd = 184.1 sq.in

Qes = 0.32

Re = 3.75 ohms

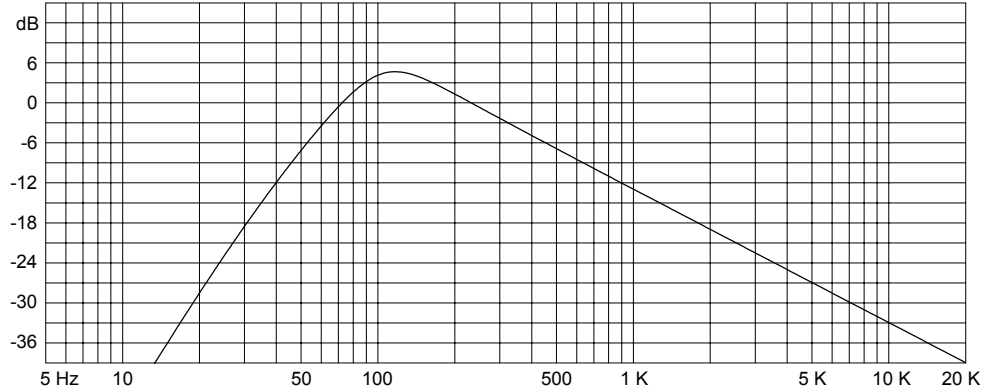
Le = 2.65 mH

Z = 4 ohms

Pe = 500 watts

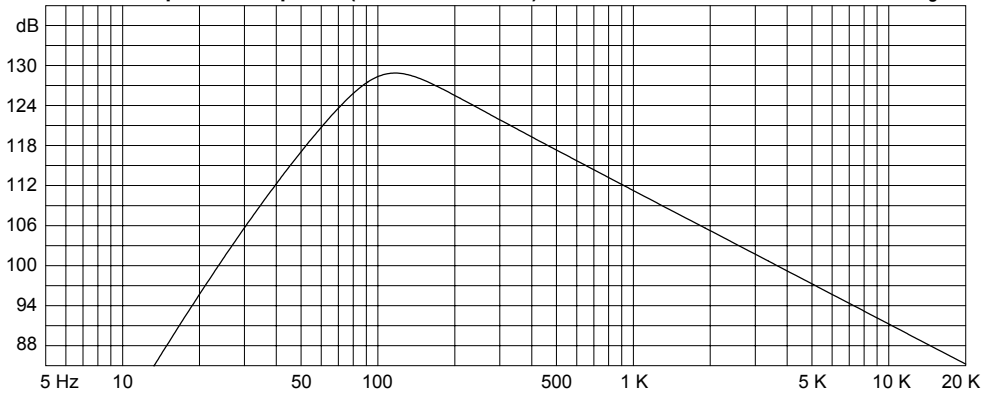
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 500 watts

Eminence Designer



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

Eminence Designer

