

# DeltaPro-12-450A Large Vented Design

By Jerry McNutt, Eminence Speaker LLC

Limit to 150 Watts; F3 at 61 Hz. Use a steep high pass filter at 45 Hz or higher.

Medium power PA box.



## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 3.082 cu.ft

V(total) = 3.259 cu.ft

Fb = 55 Hz

QL = 7

F3 = 60.75 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 2.799 in

## Driver Properties

--Description--

Name: DeltaPro-12-450A

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: High Power Woofer

--Configuration--

**No. of Drivers = 1**

--Mechanical Parameters--

Fs = 44.37 Hz

Qms = 7.59

Vas = 141.7 liters

Cms = 0.36 mm/N

Mms = 36.07 g

Rms = 1.33 kg/s

Xmax = 5.1 mm

Xmech = 13.7 mm

P-Dia = 258.9 mm

Sd = 532.4 sq.cm

P-Vd = 0.268 liters

--Electrical Parameters--

Qes = 0.39

Re = 5.04 ohms

Le = 0.54 mH

Z = 8 ohms

BL = 11.47 Tm

Pe = 375 watts

--Electromech. Parameters--

Qts = 0.371

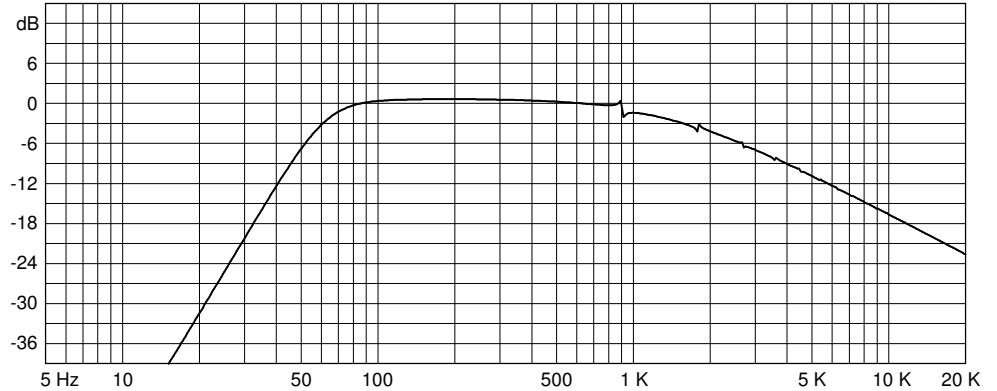
no = 3.059 %

1-W SPL = 97 dB

2.83-V SPL = 99.01 dB

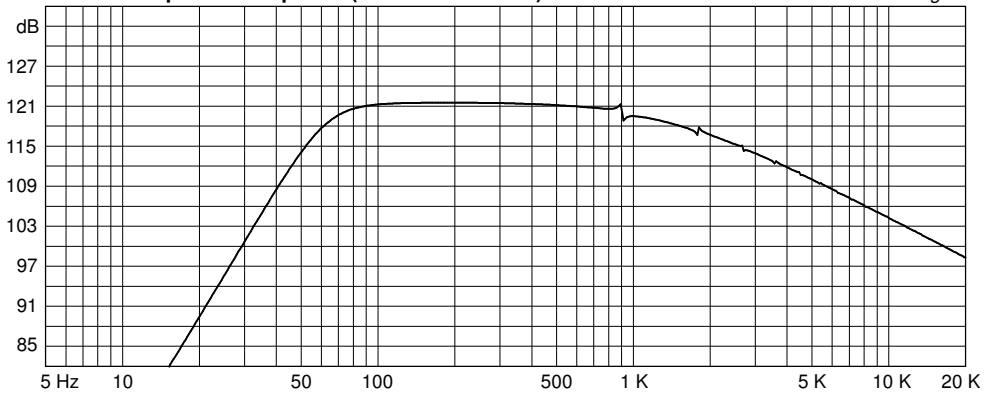
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



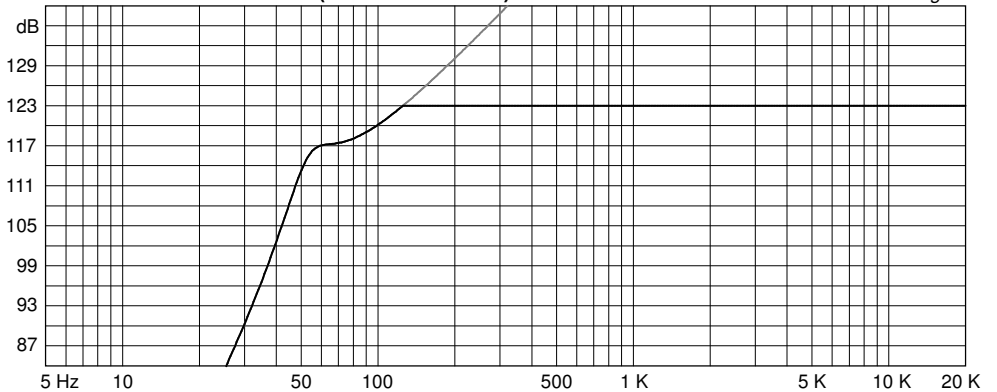
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 150 watts

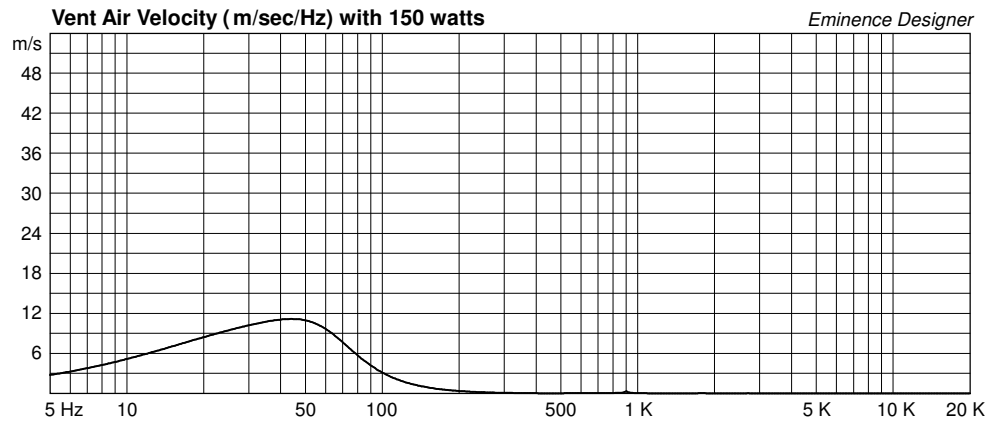
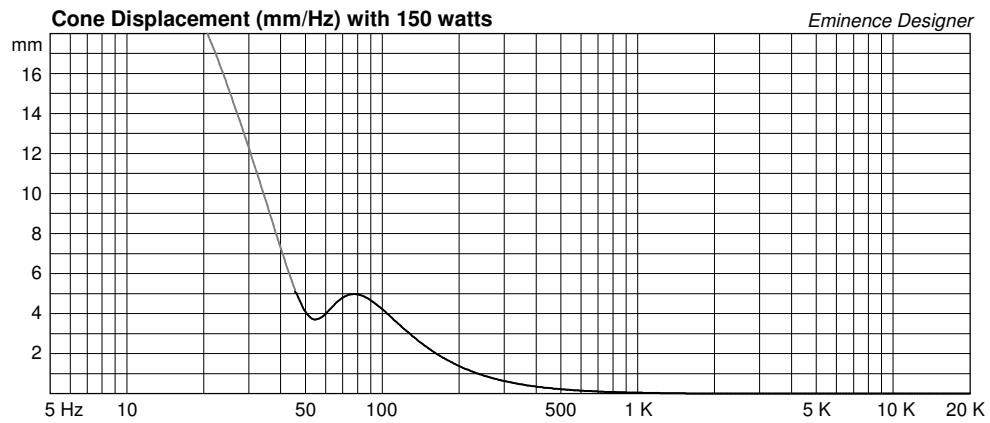
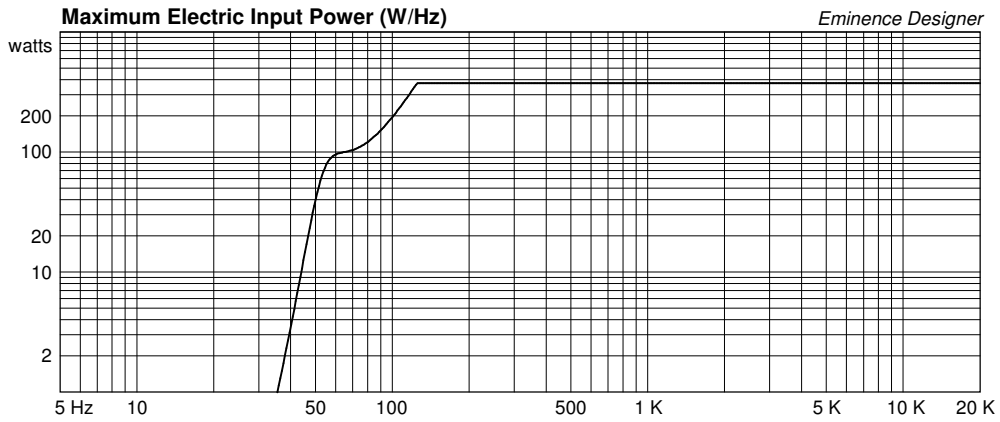
Eminence Designer

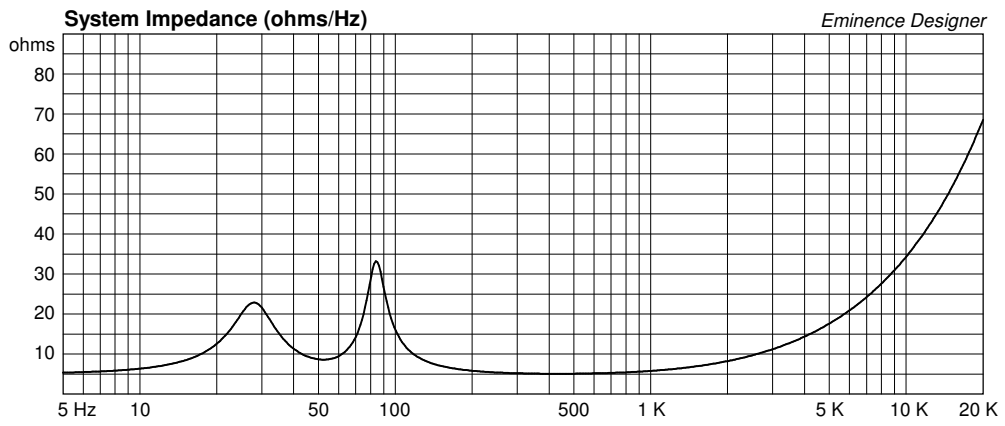


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







# DeltaPro-12-450A Medium Vented Design

By Jerry McNutt, Eminence Speaker LLC

Limit to 200 Watts; F3 at 67 Hz. Use a steep high pass filter at 50 Hz or higher.

Great for a medium power floor wedge or PA top box.



## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 2.3 cu.ft

V(total) = 2.472 cu.ft

Fb = 65 Hz

QL = 7

F3 = 67.07 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 2.493 in

## Driver Properties

--Description--

Name: DeltaPro-12-450A

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: High Power Woofer

--Configuration--

**No. of Drivers = 1**

--Mechanical Parameters--

Fs = 44.37 Hz

Qms = 7.59

Vas = 141.7 liters

Cms = 0.36 mm/N

Mms = 36.07 g

Rms = 1.33 kg/s

Xmax = 5.1 mm

Xmech = 13.7 mm

P-Dia = 258.9 mm

Sd = 532.4 sq.cm

P-Vd = 0.268 liters

--Electrical Parameters--

Qes = 0.39

Re = 5.04 ohms

Le = 0.54 mH

Z = 8 ohms

BL = 11.47 Tm

Pe = 375 watts

--Electromech. Parameters--

Qts = 0.371

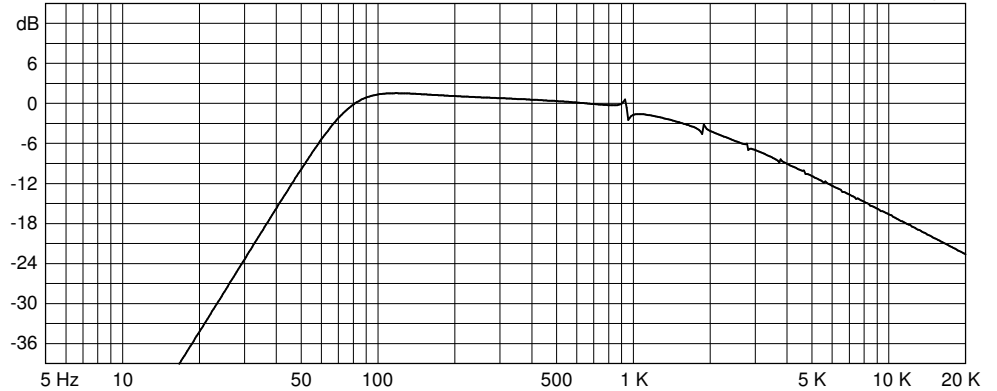
no = 3.059 %

1-W SPL = 97 dB

2.83-V SPL = 99.01 dB

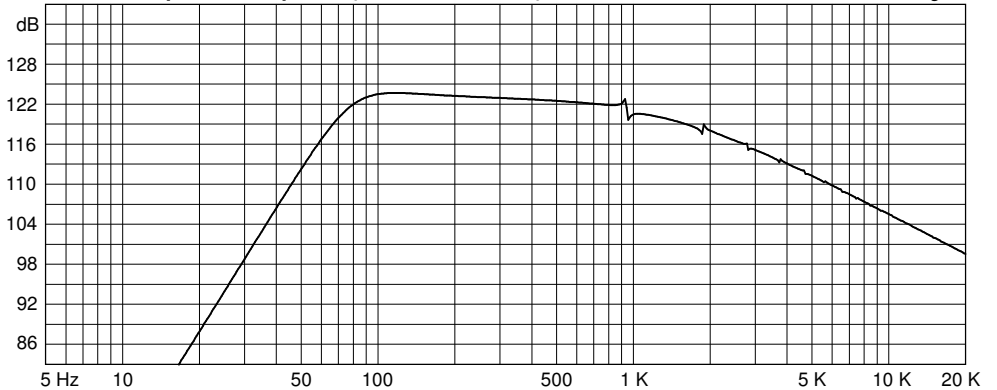
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



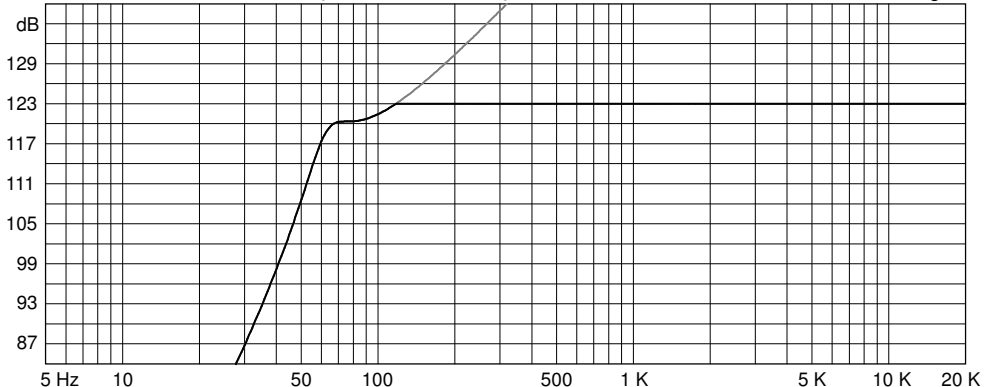
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 200 watts

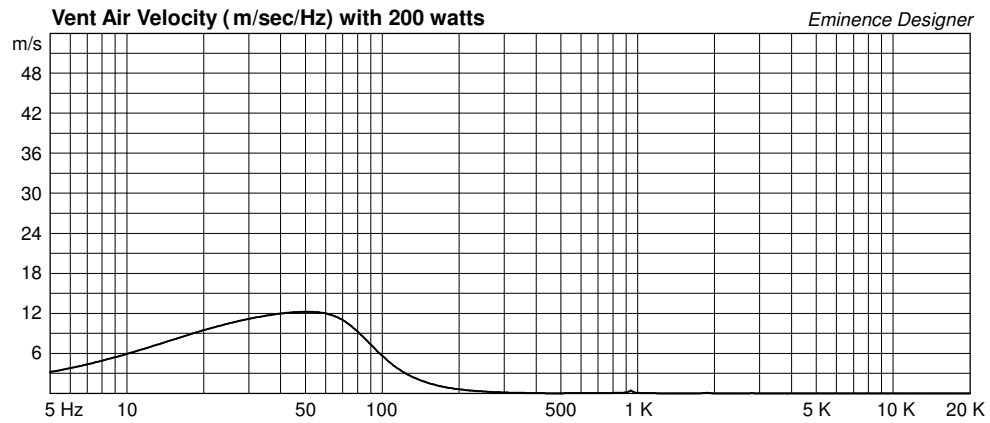
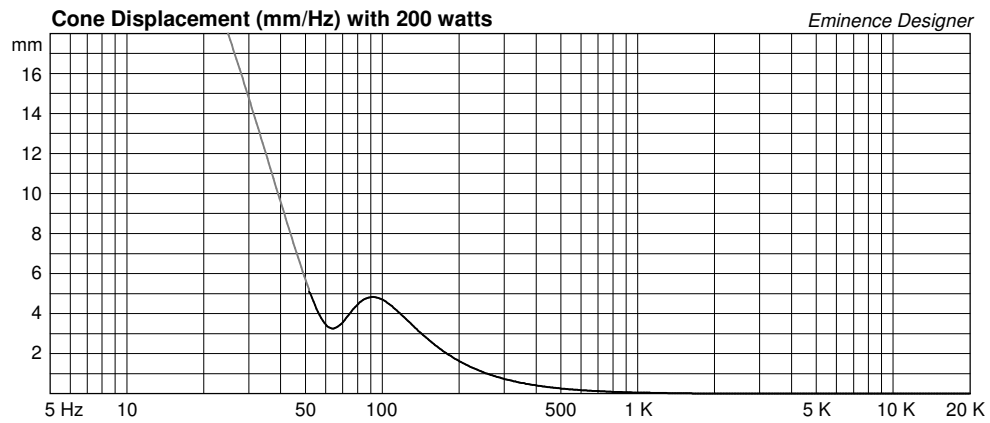
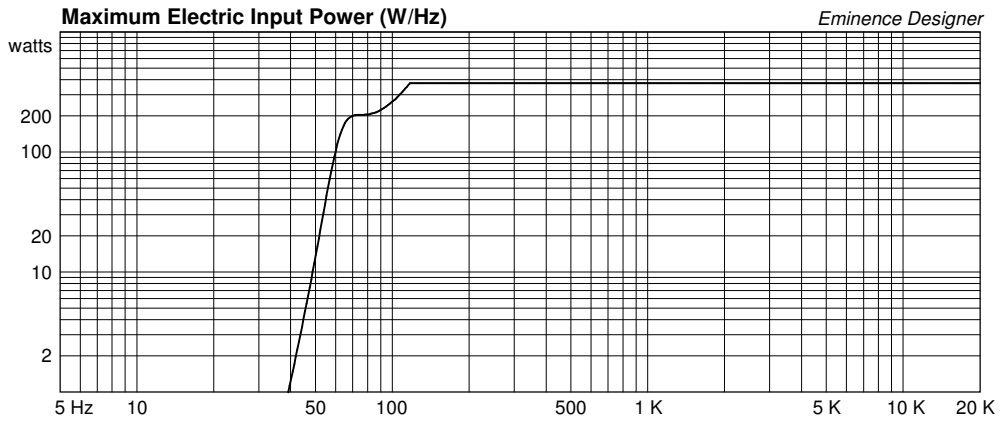
Eminence Designer

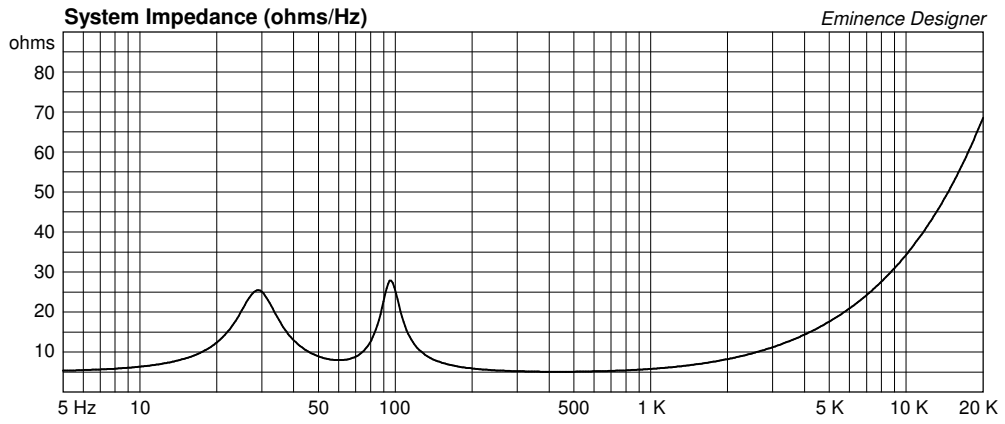


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







# DeltaPro-12-450A Small Vented Design

By Jerry McNutt, Eminence Speaker LLC

Limit to 350 Watts; F3 at 85 Hz. Use a steep high pass filter at 55 Hz or higher.

Great for high power PA top box when used above 100 Hz.



## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 1.2 cu.ft

V(total) = 1.341 cu.ft

Fb = 75 Hz

QL = 7

F3 = 84.71 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 1.218 in

## Driver Properties

--Description--

Name: DeltaPro-12-450A

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: High Power Woofer

--Configuration--

**No. of Drivers = 1**

--Mechanical Parameters--

Fs = 44.37 Hz

Qms = 7.59

Vas = 141.7 liters

Cms = 0.36 mm/N

Mms = 36.07 g

Rms = 1.33 kg/s

Xmax = 5.1 mm

Xmech = 13.7 mm

P-Dia = 258.9 mm

Sd = 532.4 sq.cm

P-Vd = 0.268 liters

--Electrical Parameters--

Qes = 0.39

Re = 5.04 ohms

Le = 0.54 mH

Z = 8 ohms

BL = 11.47 Tm

Pe = 375 watts

--Electromech. Parameters--

Qts = 0.371

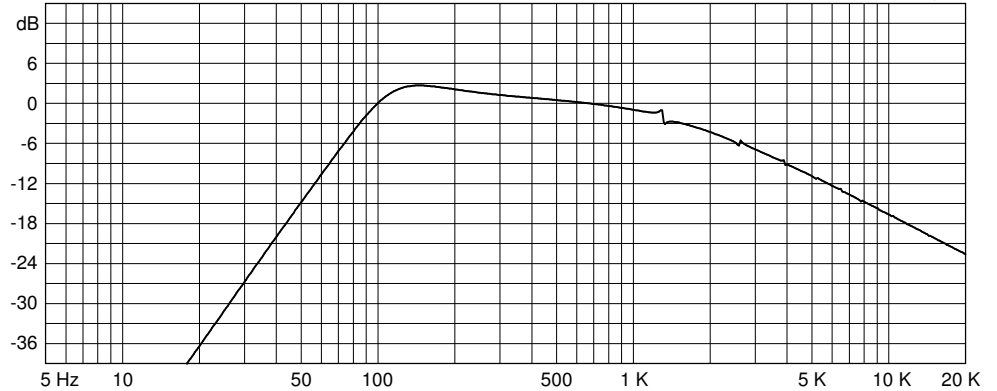
no = 3.059 %

1-W SPL = 97 dB

2.83-V SPL = 99.01 dB

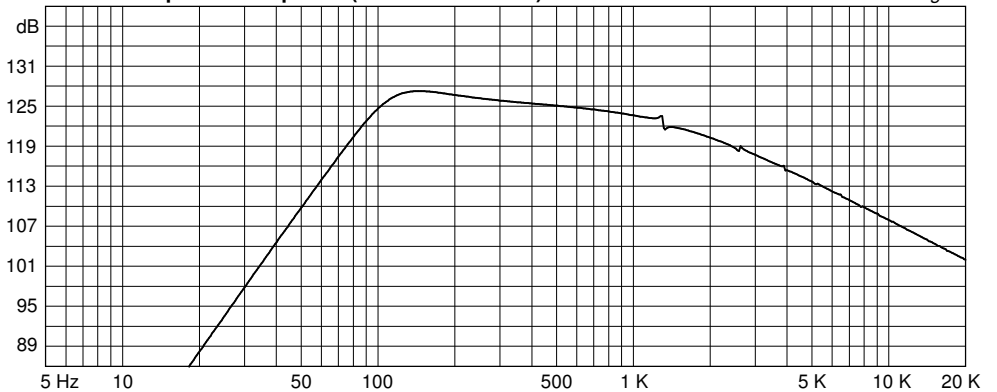
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 350 watts

Eminence Designer



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

Eminence Designer

