

DefiniMax 4012ULF Small Vented Subwoofer

By Jerry McNutt, Eminence Speaker LLC
1000 Watt Limit. F3 of 47 Hz. Use a Steep High Pass at 45 Hz.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 1.75 cu.ft

V(total) = 2.035 cu.ft

Fb = 55 Hz

QL = 7

F3 = 47.26 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = rectangle

Vent ends = one flush

Hv = 5.5 in

Wv = 5.5 in

Lv = 9.802 in

Driver Properties

--Description--

Name: DefiniMax 4012ULF

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Subwoofer

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 39.87 Hz

Qms = 12.13

Vas = 41.3 liters

Cms = 0.1 mm/N

Mms = 152.8 g

Rms = 3.15 kg/s

Xmax = 6.7 mm

Xmech = 15.5 mm

P-Dia = 262 mm

Sd = 545.4 sq.cm

P-Vd = 0.361 liters

--Electrical Parameters--

Qes = 0.32

Re = 6.2 ohms

Le = 4.32 mH

Z = 8 ohms

BL = 27.38 Tm

Pe = 1200 watts

--Electromech. Parameters--

Qts = 0.312

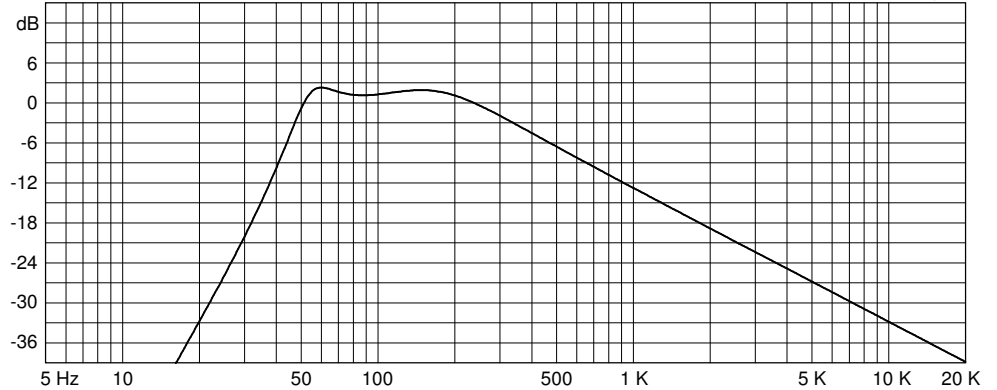
no = 0.789 %

1-W SPL = 91.12 dB

2.83-V SPL = 92.22 dB

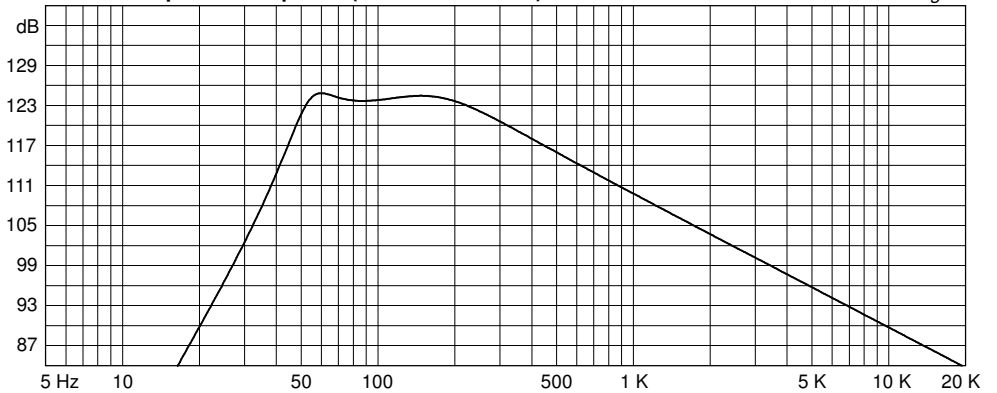
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



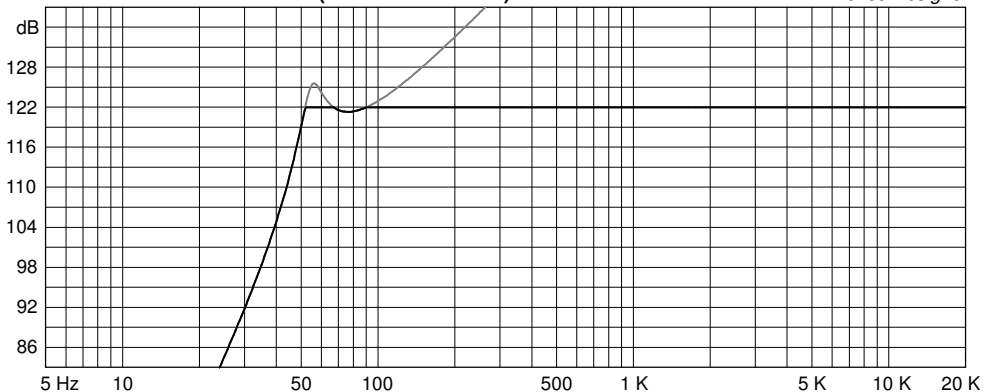
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 1000 watts

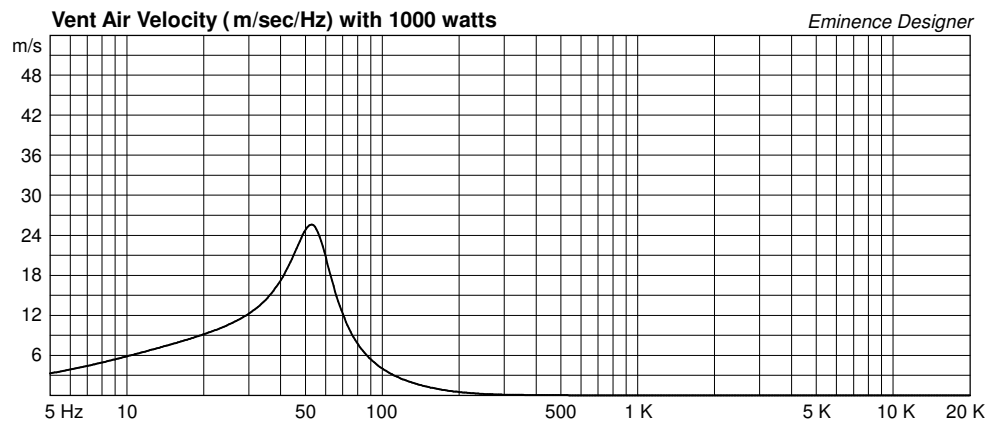
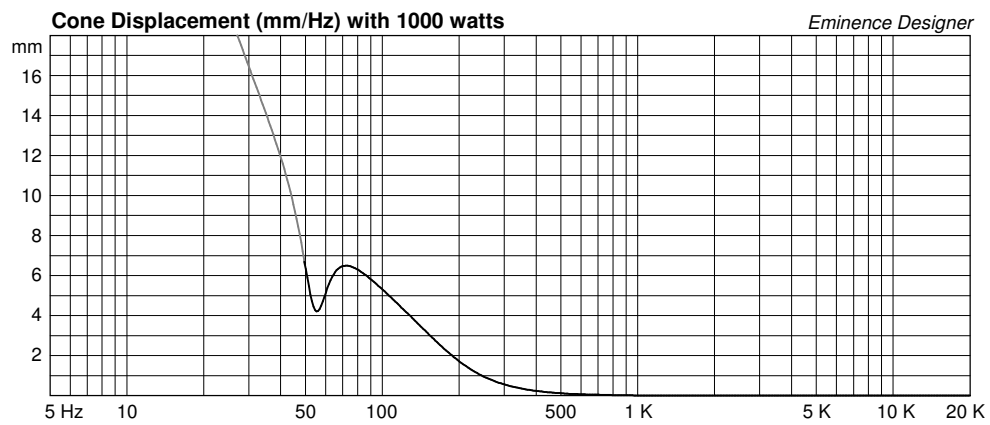
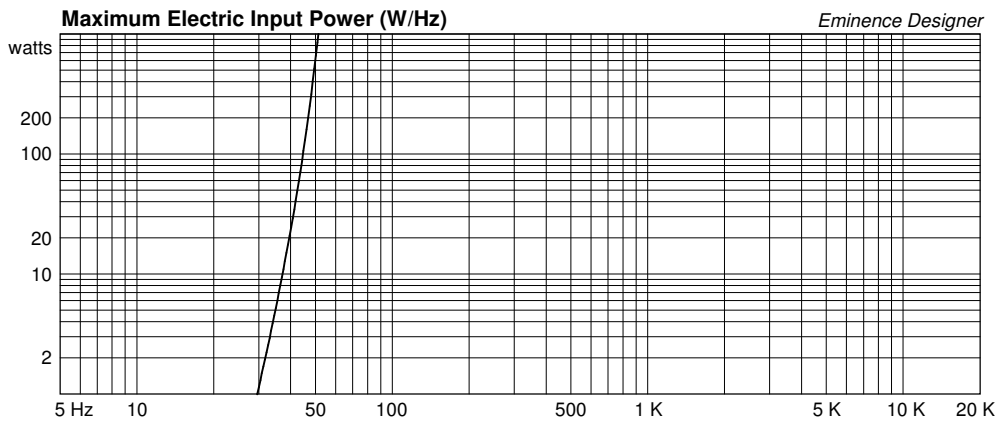
Eminence Designer

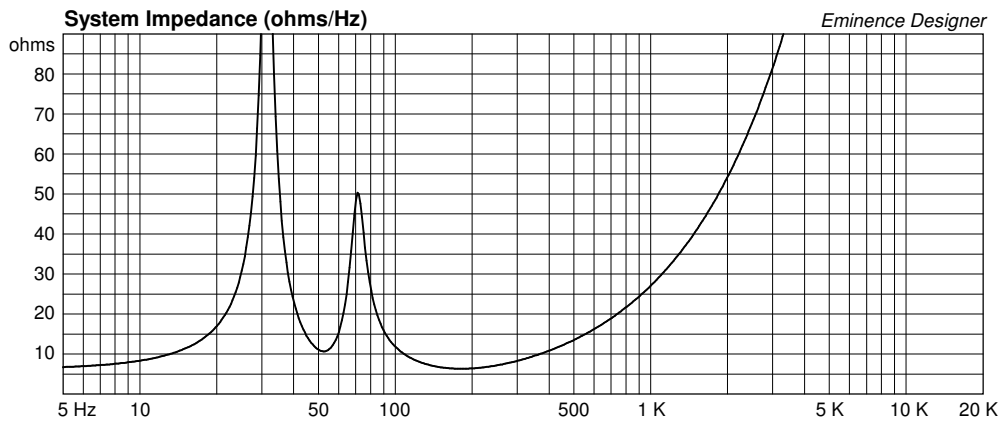


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







DefiniMax4012ULF Medium Vented Subwoofer

By Jerry McNutt, Eminence Speaker LLC
750 Watt Limit. F3 of 42 Hz. Use a Steep High Pass at 40 Hz.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 2.75 cu.ft

V(total) = 3.051 cu.ft

Fb = 48 Hz

QL = 7

F3 = 41.6 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = rectangle

Vent ends = one flush

Hv = 6 in

Wv = 6 in

Lv = 9.146 in

Driver Properties

--Description--

Name: DefiniMax 4012ULF

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Subwoofer

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 39.87 Hz

Qms = 12.13

Vas = 41.3 liters

Cms = 0.1 mm/N

Mms = 152.8 g

Rms = 3.15 kg/s

Xmax = 6.7 mm

Xmech = 15.5 mm

P-Dia = 262 mm

Sd = 545.4 sq.cm

P-Vd = 0.361 liters

--Electrical Parameters--

Qes = 0.32

Re = 6.2 ohms

Le = 4.32 mH

Z = 8 ohms

BL = 27.38 Tm

Pe = 1200 watts

--Electromech. Parameters--

Qts = 0.312

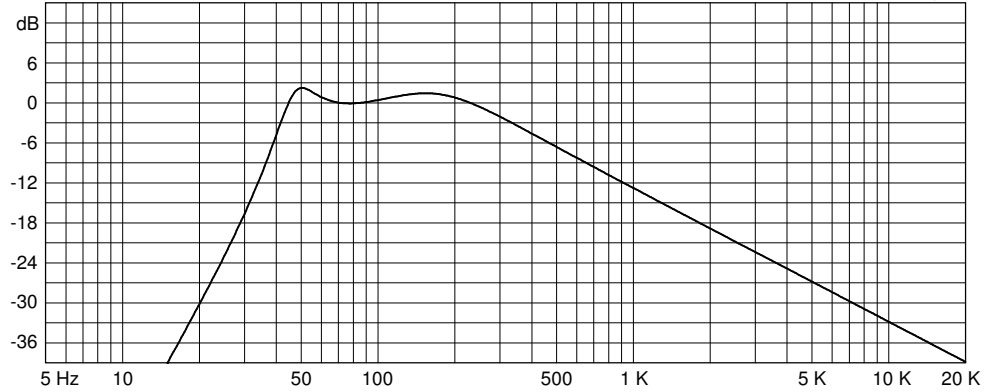
no = 0.789 %

1-W SPL = 91.12 dB

2.83-V SPL = 92.22 dB

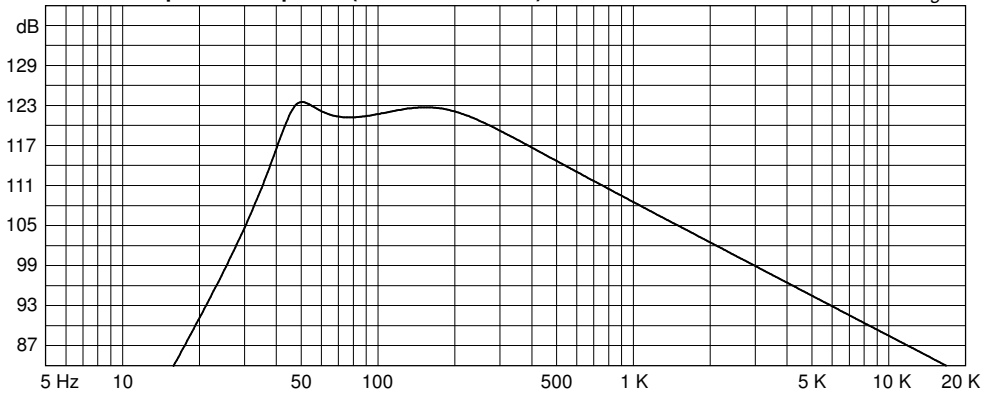
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



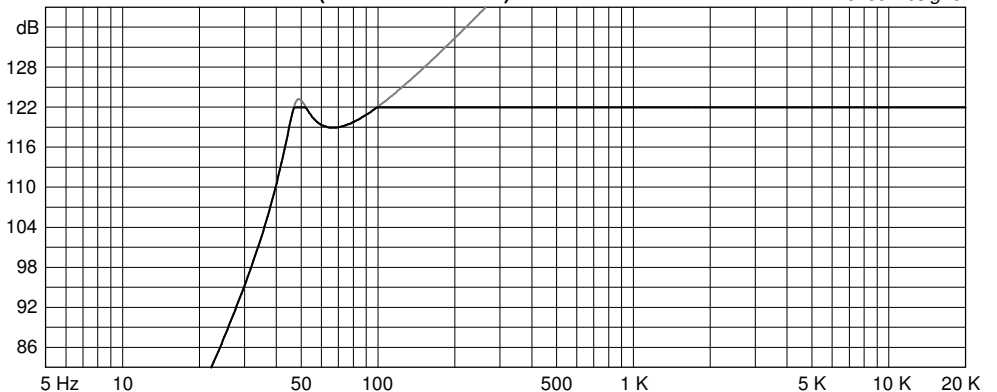
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 750 watts

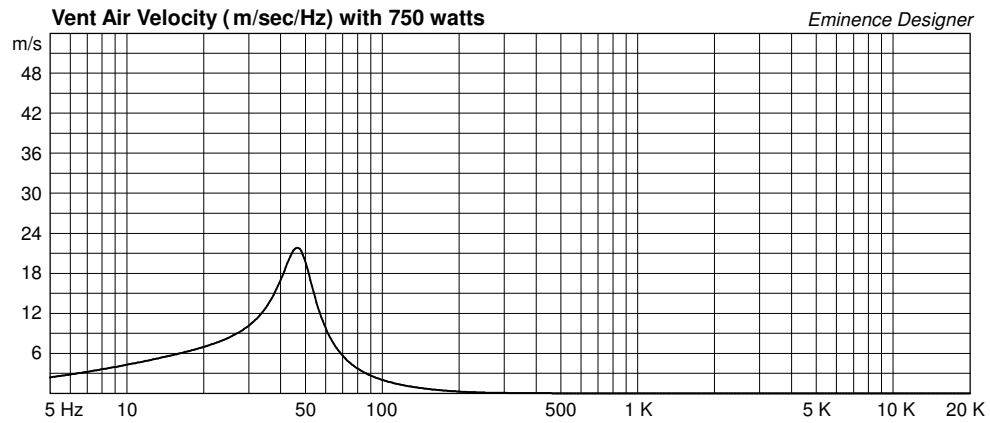
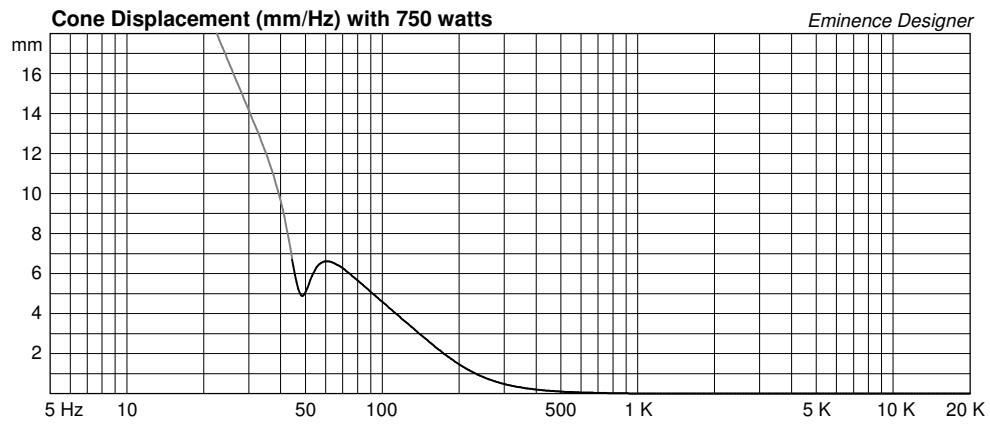
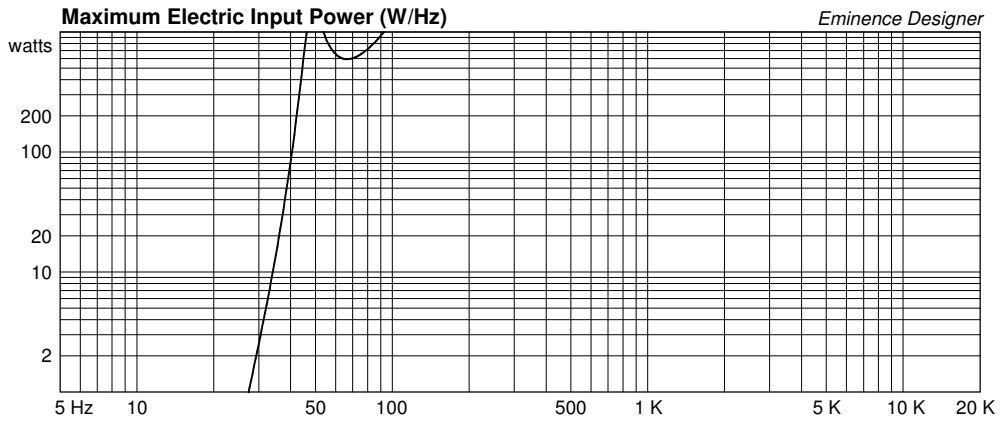
Eminence Designer

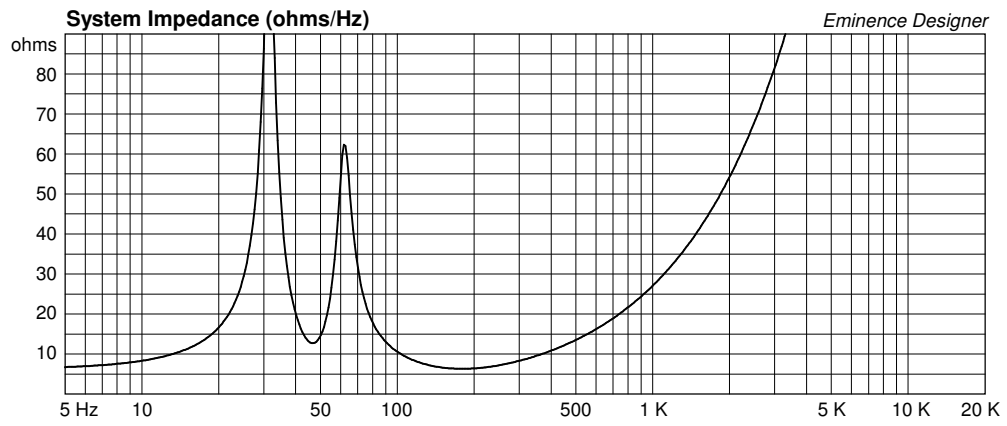


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







DefiniMax4012ULF Large Vented Subwoofer

By Jerry McNutt, Eminence Speaker LLC
500 Watt Limit. F3 of 37 Hz. Use a Steep High Pass at 35 Hz.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 3.25 cu.ft

V(total) = 3.589 cu.ft

Fb = 42 Hz

QL = 7

F3 = 37.25 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = rectangle

Vent ends = one flush

Hv = 6 in

Wv = 6 in

Lv = 10.82 in

Driver Properties

--Description--

Name: DefiniMax 4012ULF

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Subwoofer

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 39.87 Hz

Qms = 12.13

Vas = 41.3 liters

Cms = 0.1 mm/N

Mms = 152.8 g

Rms = 3.15 kg/s

Xmax = 6.7 mm

Xmech = 15.5 mm

P-Dia = 262 mm

Sd = 545.4 sq.cm

P-Vd = 0.361 liters

--Electrical Parameters--

Qes = 0.32

Re = 6.2 ohms

Le = 4.32 mH

Z = 8 ohms

BL = 27.38 Tm

Pe = 1200 watts

--Electromech. Parameters--

Qts = 0.312

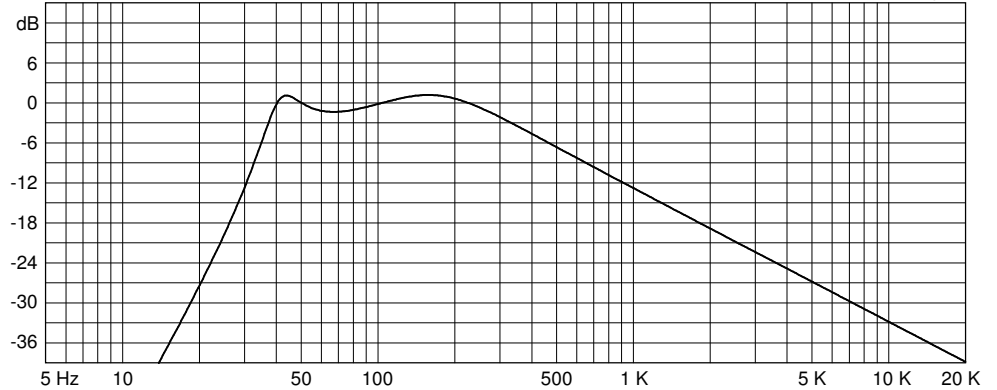
no = 0.789 %

1-W SPL = 91.12 dB

2.83-V SPL = 92.22 dB

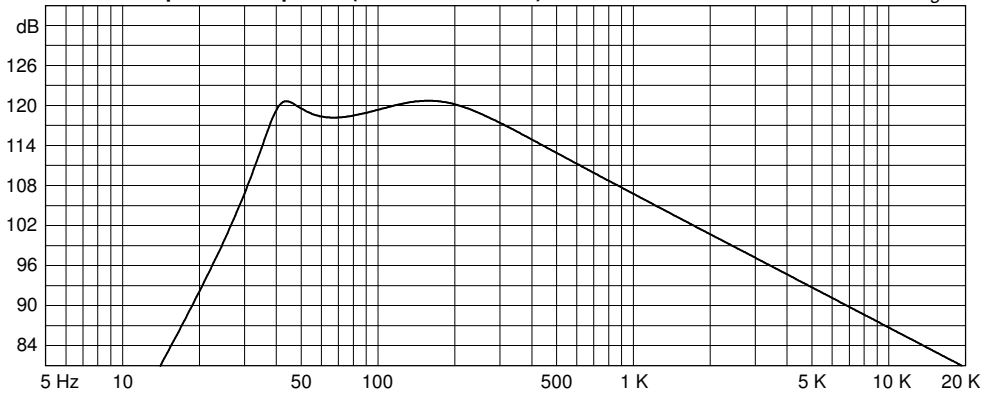
Normalized Amplitude Response (dB-SPL/Hz)

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

