

# DefiniMax 4015ULF Small Vented Subwoofer

By Jerry McNutt, Eminence Speaker LLC  
1200 Watts; F3 at 53 Hz. Use a steep High pass filter at 45 Hz.



## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 1.75 cu.ft

V(total) = 2.116 cu.ft

Fb = 50 Hz

QL = 7

F3 = 52.6 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 11.35 in

## Driver Properties

--Description--

Name: DefiniMax 4015ULF

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Subwoofer

--Configuration--

**No. of Drivers = 1**

--Mechanical Parameters--

Fs = 37.7 Hz

Qms = 10.27

Vas = 101.8 liters

Cms = 0.1 mm/N

Mms = 172.8 g

Rms = 3.98 kg/s

Xmax = 7.3 mm

Xmech = 15.5 mm

P-Dia = 328.3 mm

Sd = 856.3 sq.cm

P-Vd = 0.618 liters

--Electrical Parameters--

Qes = 0.35

Re = 6.19 ohms

Le = 4.43 mH

Z = 8 ohms

BL = 26.79 Tm

Pe = 1200 watts

--Electromech. Parameters--

Qts = 0.34

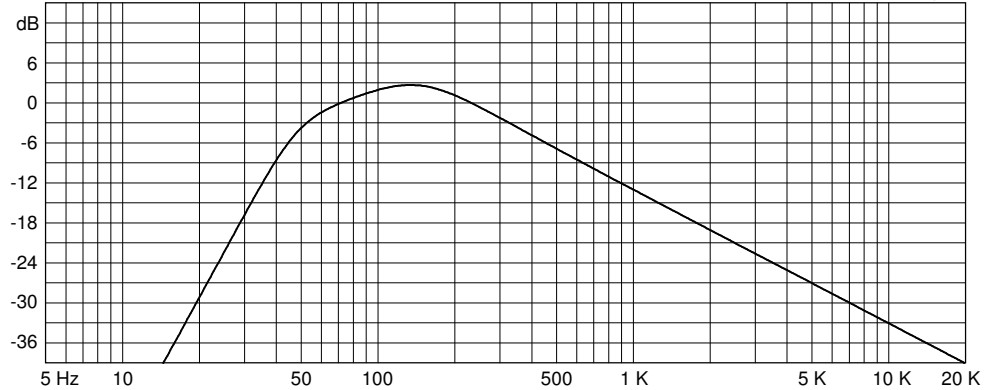
no = 1.502 %

1-W SPL = 93.92 dB

2.83-V SPL = 95.03 dB

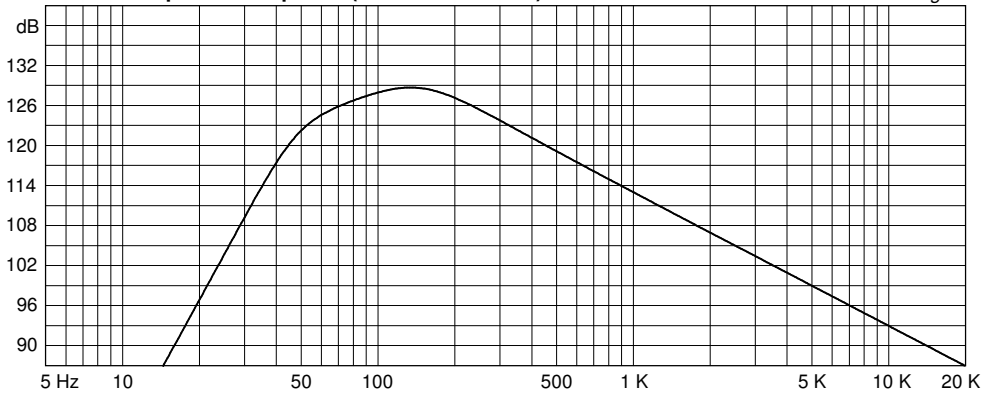
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



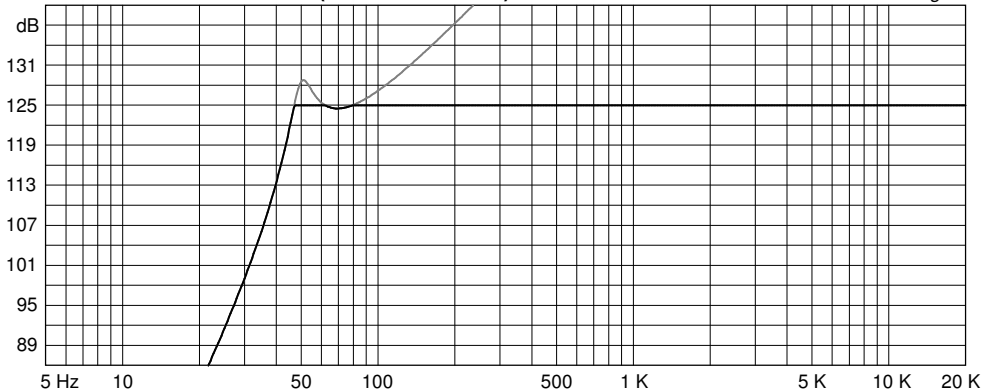
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 1200 watts

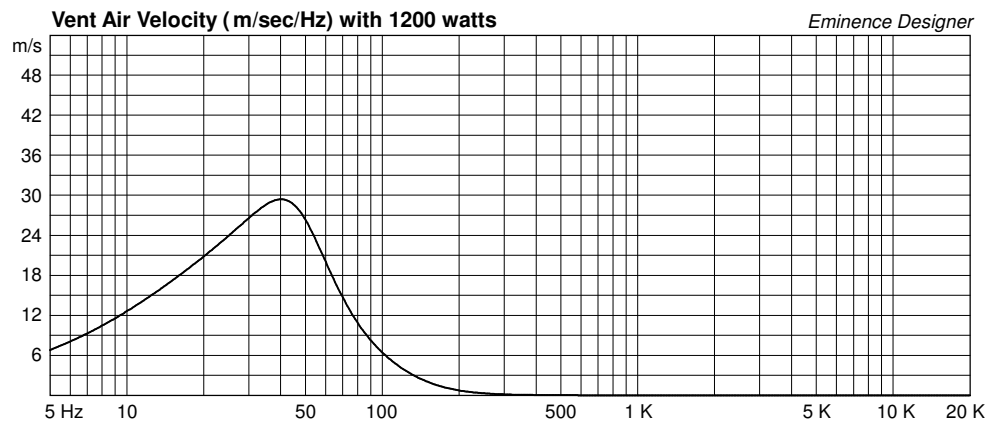
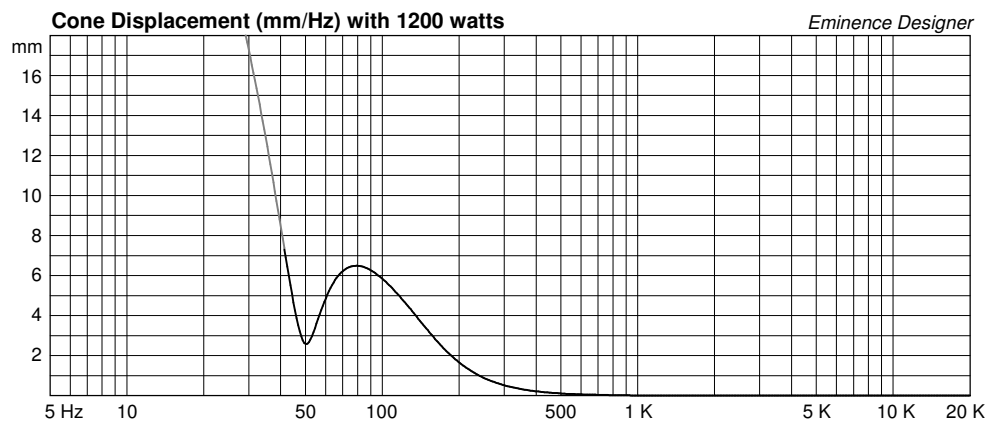
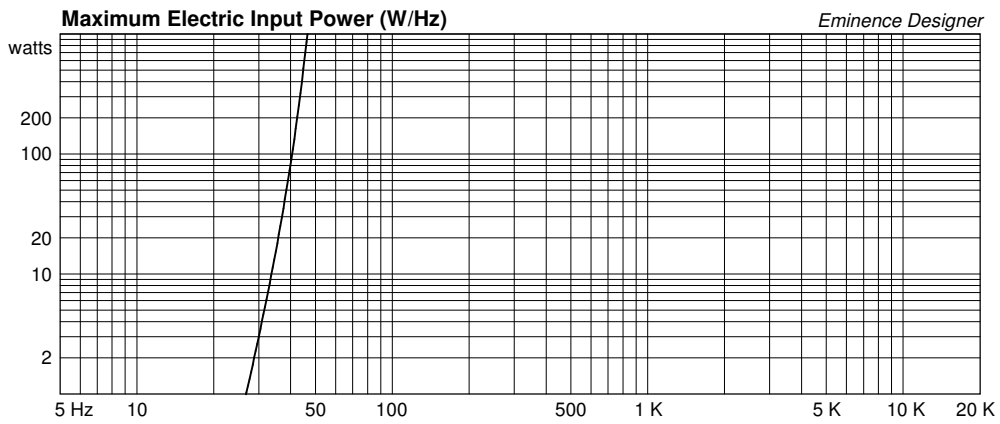
Eminence Designer

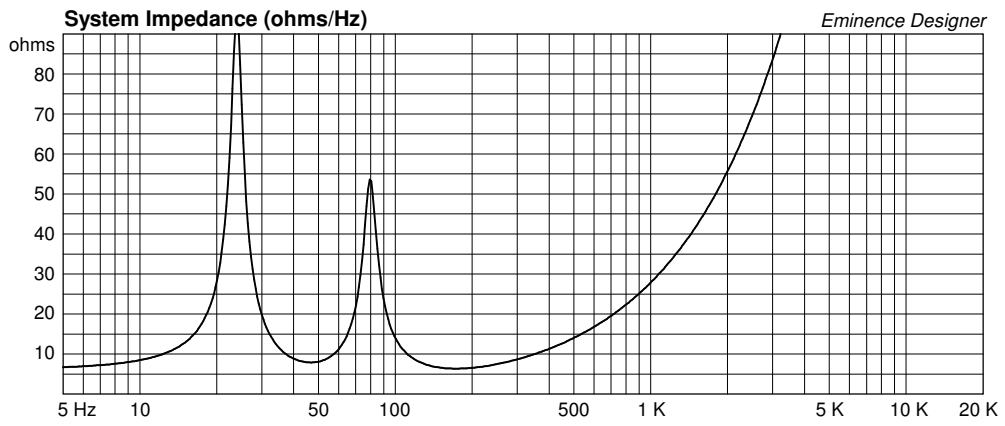


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







# DefiniMax 4015ULF Medium Sized Vented Subwoofer

By Jerry McNutt, Eminence Speaker LLC  
1000 Watts; F3 at 44 Hz. Use a steep High pass filter at 38 Hz.



## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 2.65 cu.ft

V(total) = 3.079 cu.ft

Fb = 44 Hz

QL = 7

F3 = 44.02 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = rectangle

Vent ends = one flush

Hv = 4 in

Wv = 4 in

Lv = 12.11 in

## Driver Properties

--Description--

Name: DefiniMax 4015ULF

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Subwoofer

--Configuration--

**No. of Drivers = 1**

--Mechanical Parameters--

Fs = 37.7 Hz

Qms = 10.27

Vas = 101.8 liters

Cms = 0.1 mm/N

Mms = 172.8 g

Rms = 3.98 kg/s

Xmax = 7.3 mm

Xmech = 15.5 mm

P-Dia = 328.3 mm

Sd = 856.3 sq.cm

P-Vd = 0.618 liters

--Electrical Parameters--

Qes = 0.35

Re = 6.19 ohms

Le = 4.43 mH

Z = 8 ohms

BL = 26.79 Tm

Pe = 1200 watts

--Electromech. Parameters--

Qts = 0.34

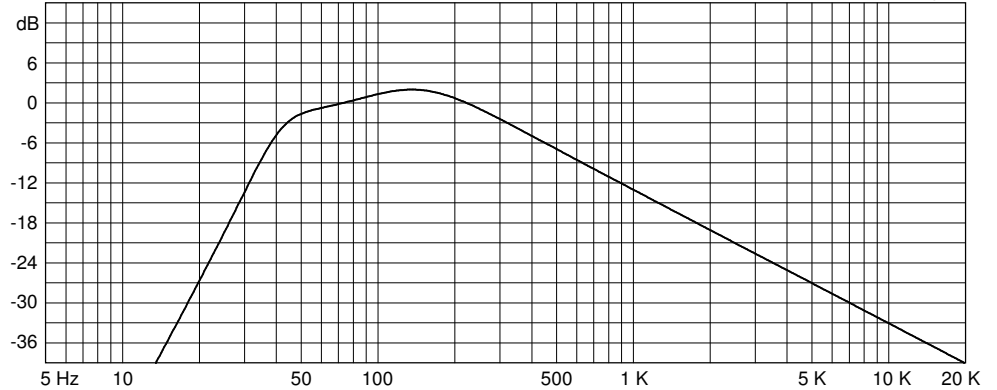
no = 1.502 %

1-W SPL = 93.92 dB

2.83-V SPL = 95.03 dB

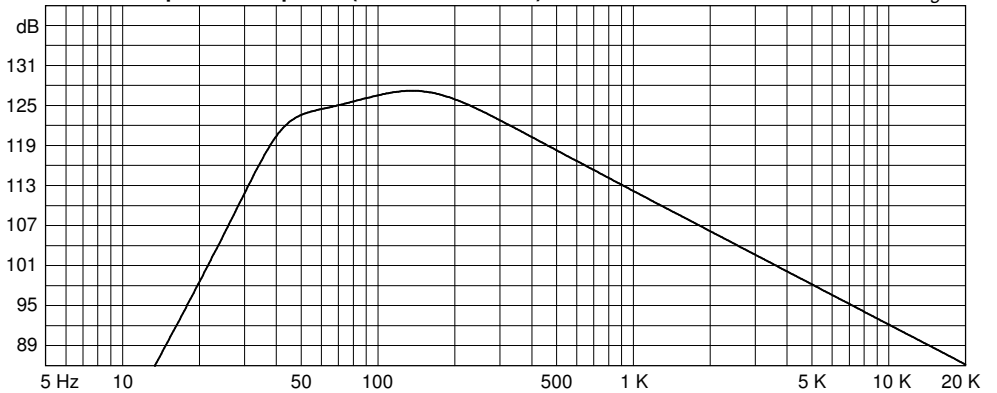
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



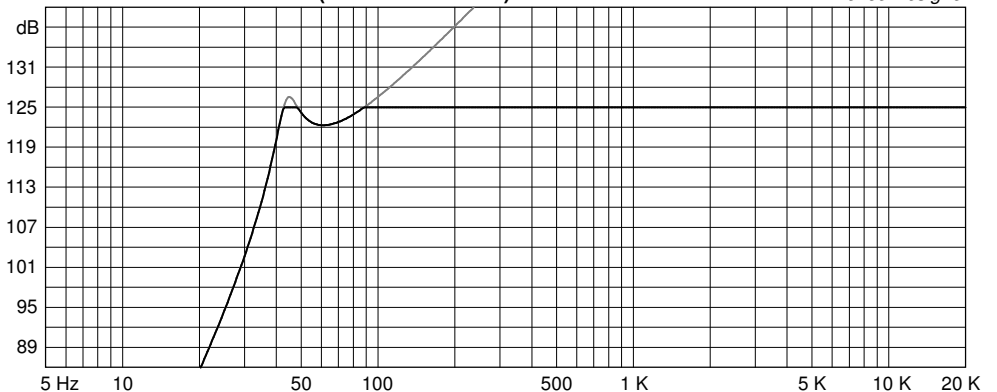
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 1000 watts

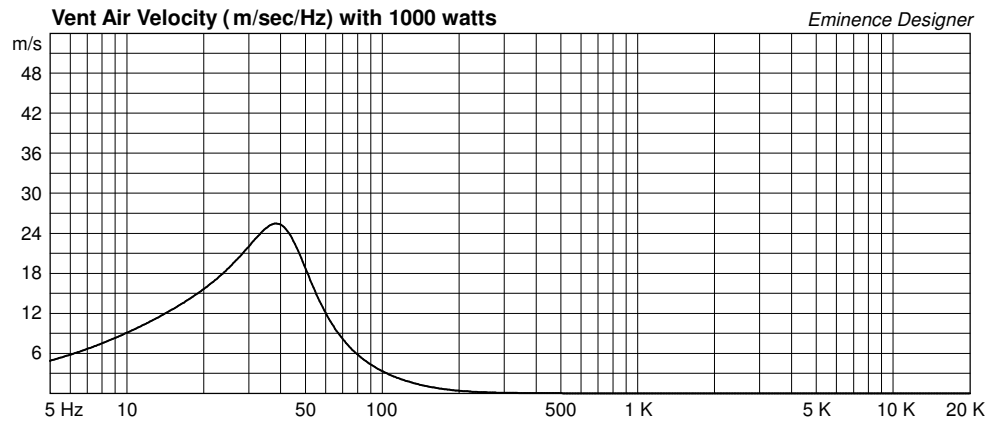
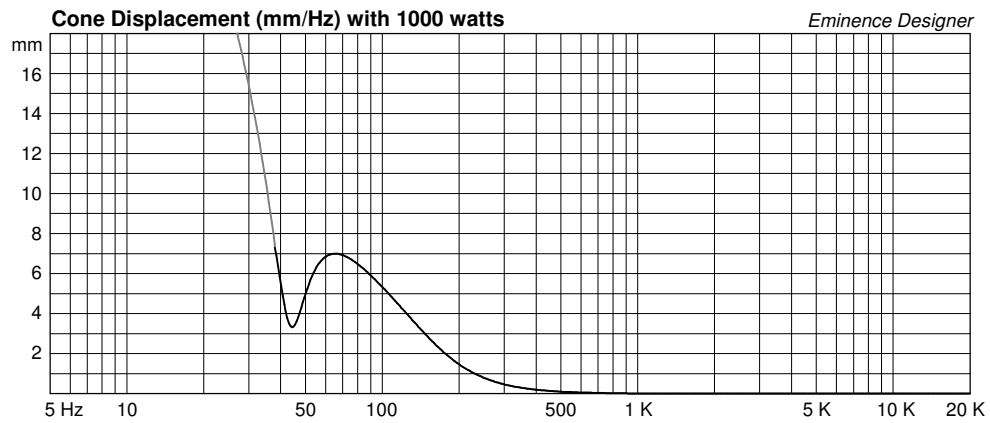
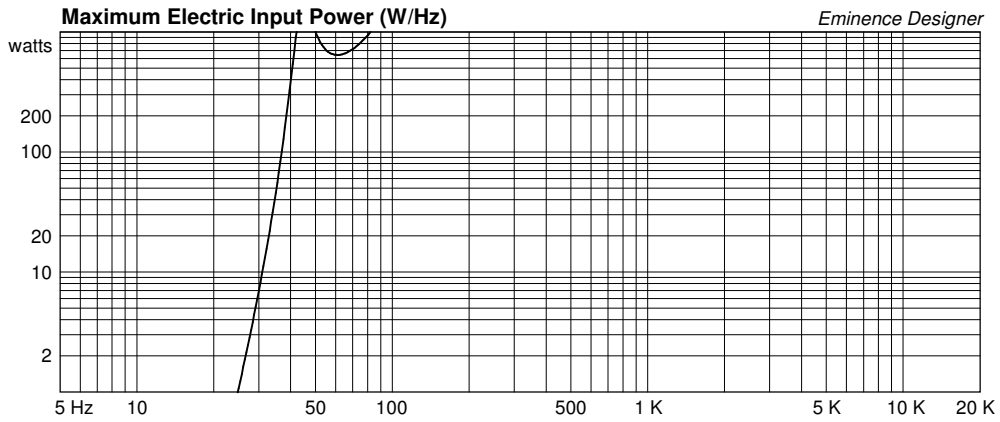
Eminence Designer

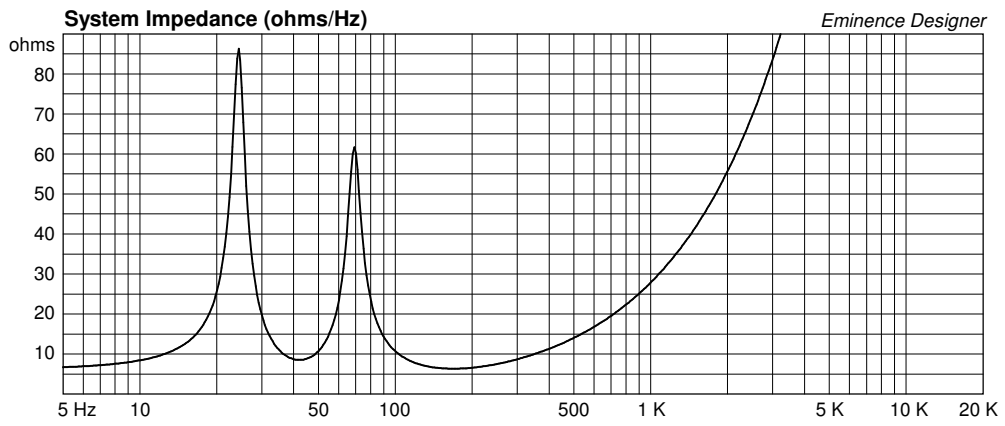


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







# DefiniMax 4015ULF Large Vented Subwoofer

By Jerry McNutt, Eminence Speaker LLC  
700 Watts; F3 at 36 Hz. Use a steep High pass filter at 34 Hz.



## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 4.25 cu.ft

V(total) = 4.677 cu.ft

Fb = 38 Hz

QL = 7

F3 = 36.46 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = rectangle

Vent ends = one flush

Hv = 4.25 in

Wv = 4.25 in

Lv = 10.79 in

## Driver Properties

--Description--

Name: DefiniMax 4015ULF

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Subwoofer

--Configuration--

**No. of Drivers = 1**

--Mechanical Parameters--

Fs = 37.7 Hz

Qms = 10.27

Vas = 101.8 liters

Cms = 0.1 mm/N

Mms = 172.8 g

Rms = 3.98 kg/s

Xmax = 7.3 mm

Xmech = 15.5 mm

P-Dia = 328.3 mm

Sd = 856.3 sq.cm

P-Vd = 0.618 liters

--Electrical Parameters--

Qes = 0.35

Re = 6.19 ohms

Le = 4.43 mH

Z = 8 ohms

BL = 26.79 Tm

Pe = 1200 watts

--Electromech. Parameters--

Qts = 0.34

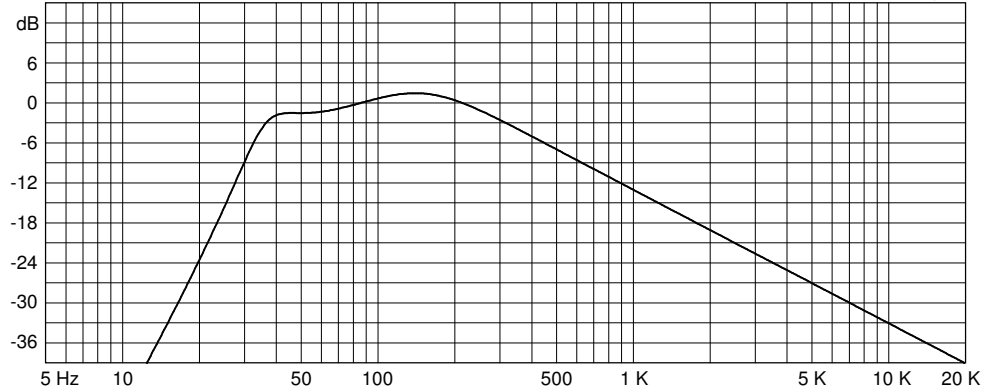
no = 1.502 %

1-W SPL = 93.92 dB

2.83-V SPL = 95.03 dB

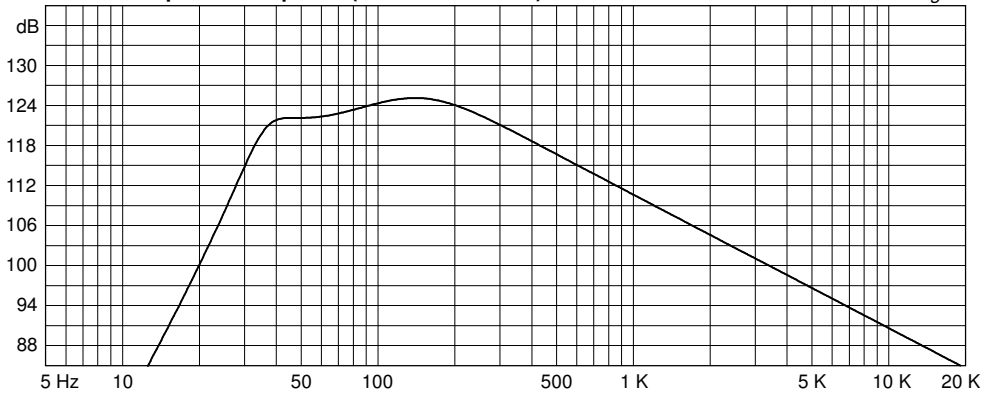
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



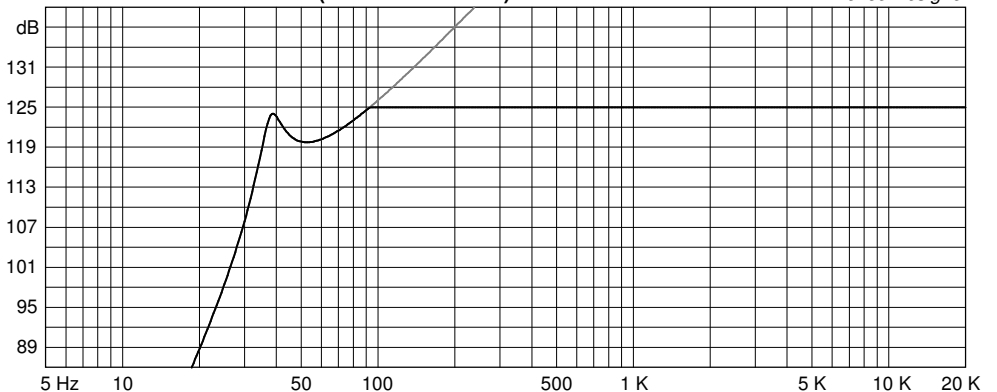
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 700 watts

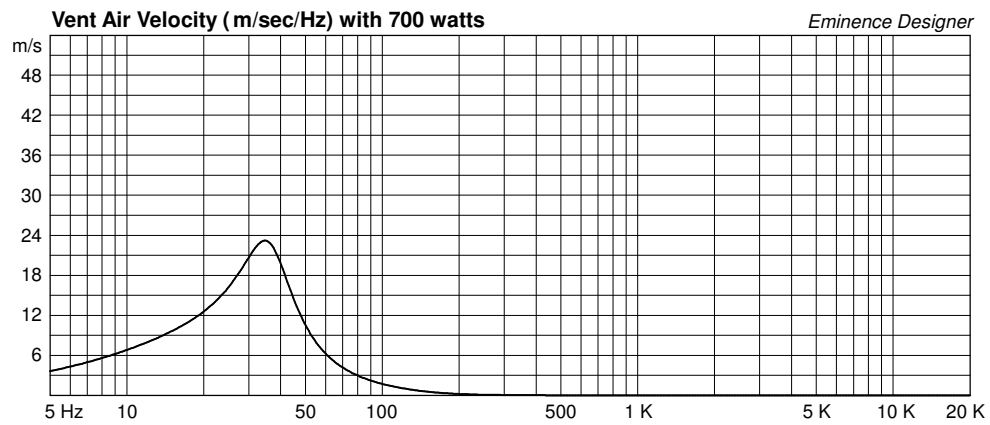
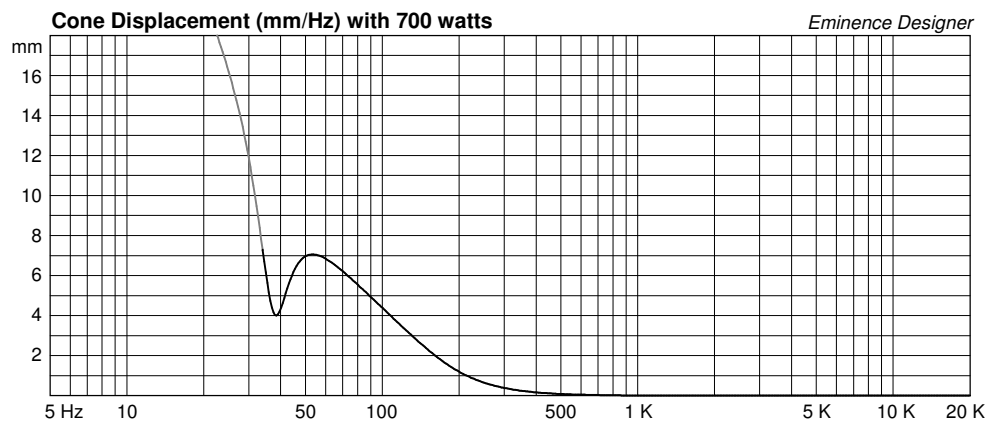
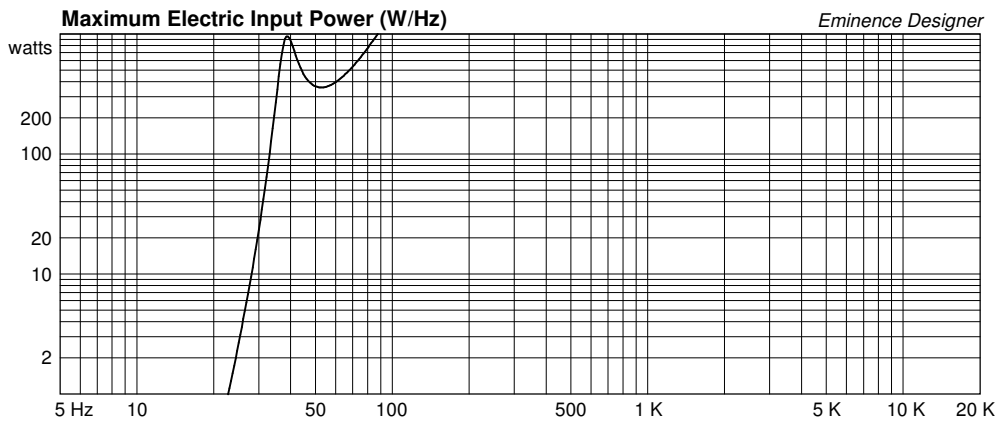
Eminence Designer



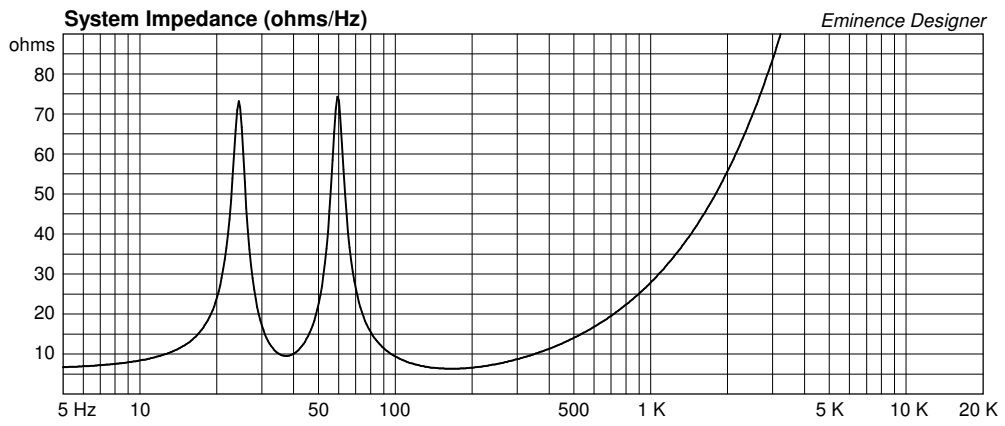
Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer









# DefiniMax 4015ULF Double 15 Club Type of Sub

By Jerry McNutt, Eminence Speaker LLC  
1300 Watts; F3 at 35 Hz. Use a steep High pass filter at 32 Hz.



## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 9.5 cu.ft

V(total) = 10.49 cu.ft

Fb = 37 Hz

QL = 7

F3 = 35.14 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = rectangle

Vent ends = one flush

Hv = 4.5 in

Wv = 4.5 in

Lv = 10.27 in

## Driver Properties

--Description--

Name: DefiniMax 4015ULF

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Subwoofer

--Configuration--

**No. of Drivers = 2**

Mounting = Standard

Wiring = Parallel

Drivers sum coherently = Yes

--Mechanical Parameters--

Fs = 37.7 Hz

Qms = 10.27

Vas = 101.8 liters [203.6]

Cms = 0.1 mm/N [0.05]

Mms = 172.8 g [345.7]

Rms = 3.98 kg/s [7.96]

Xmax = 7.3 mm

Xmech = 15.5 mm

P-Dia = 328.3 mm [464.3]

Sd = 856.3 sq.cm [1713]

P-Vd = 0.618 liters [1.236]

--Electrical Parameters--

Qes = 0.35

Re = 6.19 ohms [3.095]

Le = 4.43 mH [2.215]

Z = 8 ohms [4]

BL = 26.79 Tm [26.91]

Pe = 1200 watts [2400]

--Electromech. Parameters--

Qts = 0.34

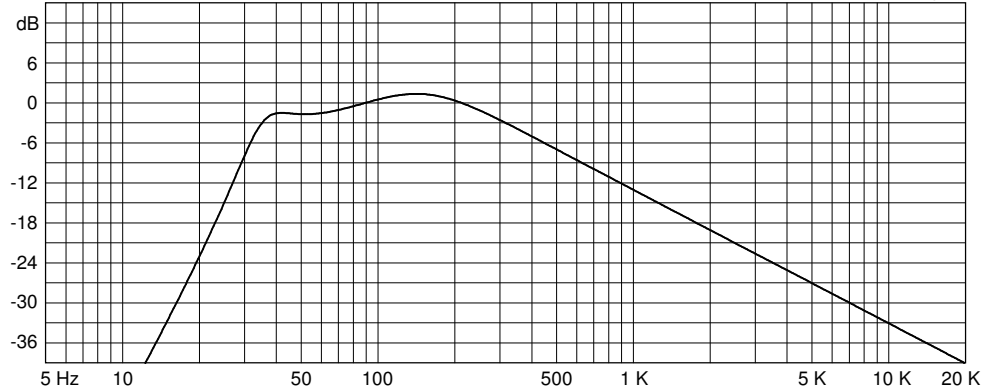
no = 1.502 % [3.005]

1-W SPL = 93.92 dB [96.93]

2.83-V SPL = 95.03 dB [101]

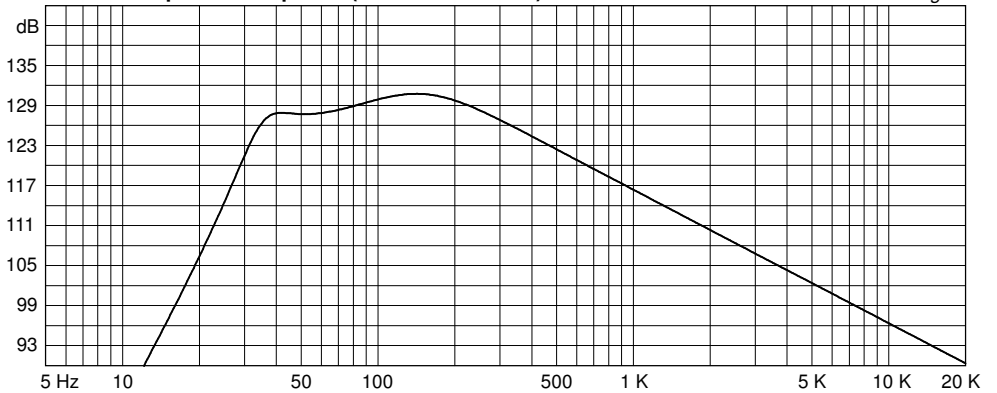
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 1300 watts

Eminence Designer



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

Eminence Designer

