

NSW6021-6 Small Size Sub

By Matt Marcum, Eminence Speaker LLC

Thermally limited to 2500W; F3 of 35Hz. Use steep high pass filter set to 27Hz

Place ports symmetrically about woofer to reduce chance of cone rock.



Box Properties

--Description--

Name: Vented Box 1

Type: Vented Box

Shape: Prism, square

Company: Eminence Speaker LLC

--Box Parameters--

Vb = 6.551 cu.ft

V(total) = 7.721 cu.ft

Fb = 38.16 Hz

QL = 6.36

F3 = 35.07 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = rectangle

Vent ends = one flush

Hv = 18 in

Wv = 2 in

Lv = 16.5 in

Driver Properties

--Description--

Name: NSW6021-6

Type: Standard one-way driver

Company: Eminence Speaker LLC

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 29.35 Hz

Qms = 15.35

Vas = 224.6 liters

Cms = 0.06 mm/N

Mms = 507.5 g

Rms = 5.888 kg/s

Xmax = 21.01 mm

Xmech = 50 mm

P-Dia = 454.6 mm

Sd = 1642 sq.cm

P-Vd = 3.411 liters

--Electrical Parameters--

Qes = 0.31

Re = 3.8 ohms

Le = 1.35 mH

Z = 6 ohms

BL = 33.79 Tm

Pe = 2500 watts

--Electromech. Parameters--

Qts = 0.31

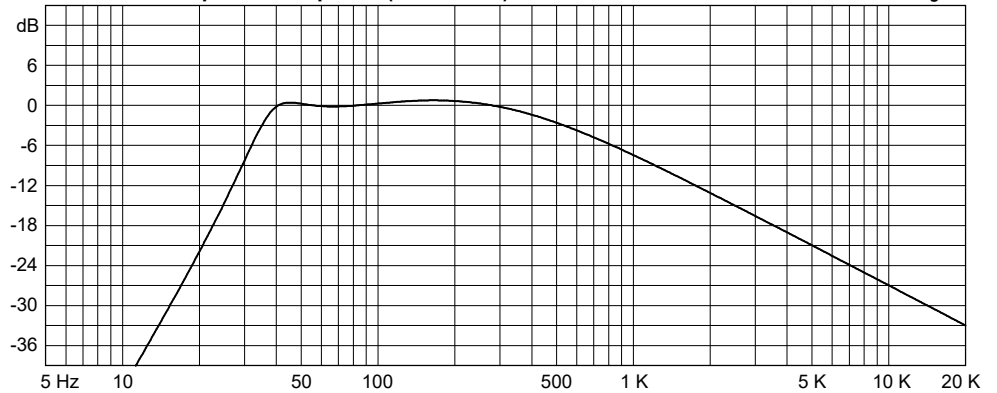
no = 1.766 %

1-W SPL = 94.62 dB

2.83-V SPL = 97.85 dB

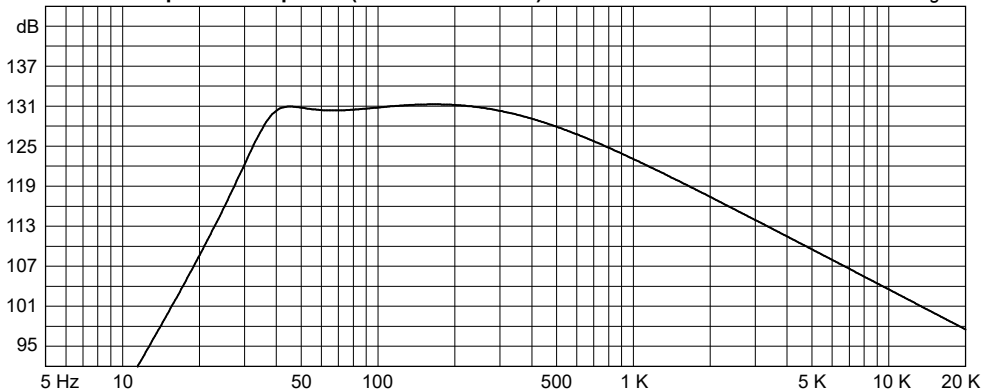
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



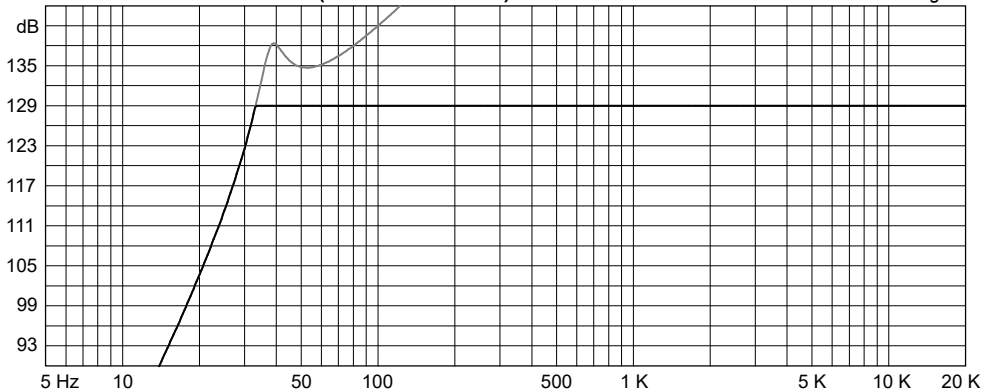
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 2500 watts

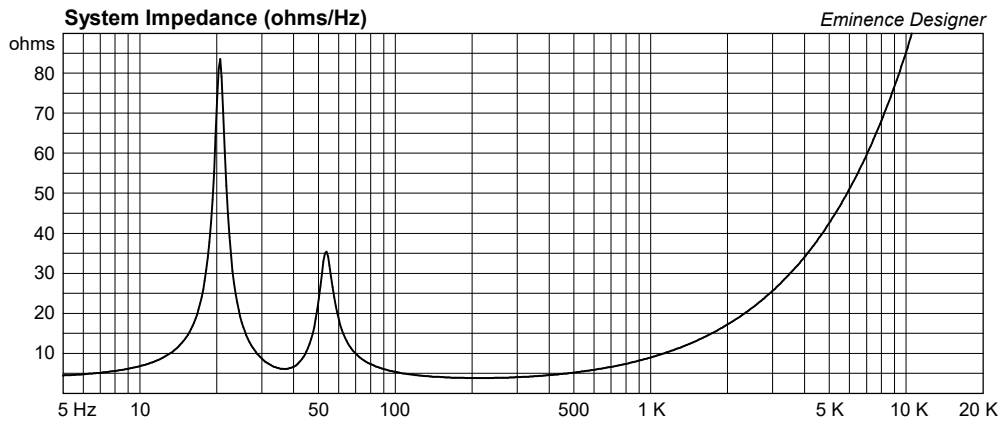
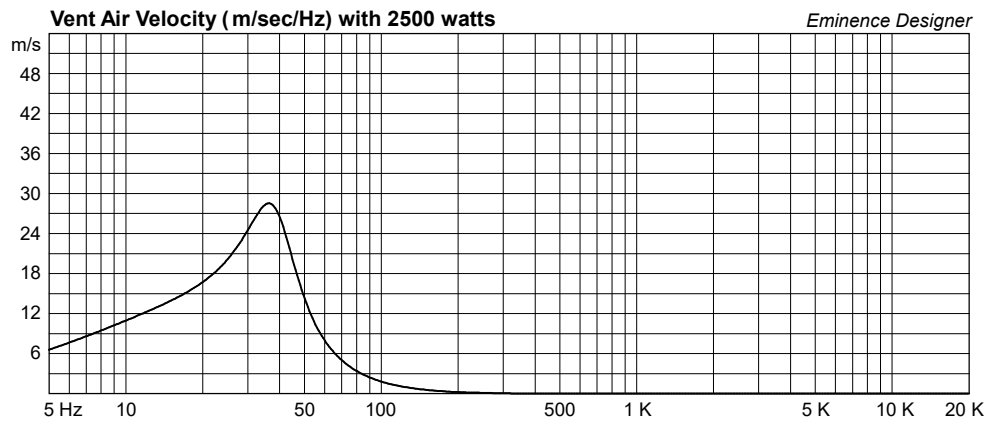
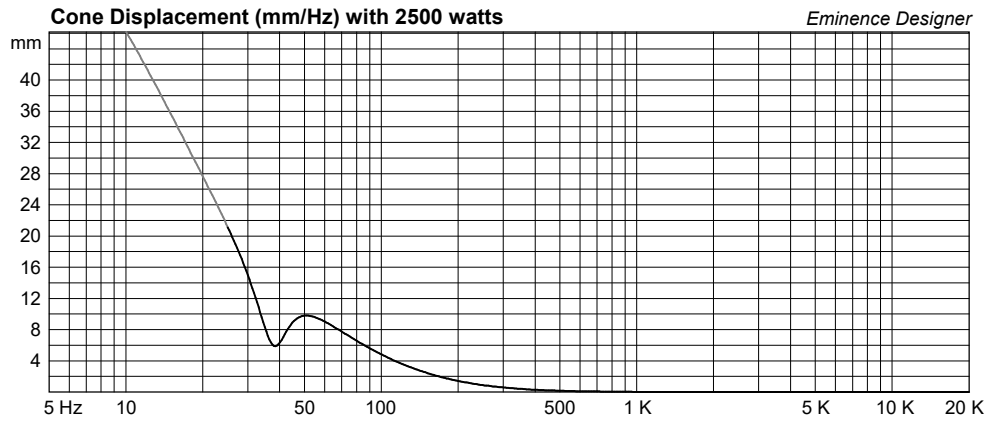
Eminence Designer



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

Eminence Designer





NSW6021-6 Medium Size Sub

By Matt Marcum, Eminence Speaker LLC

Thermally limited to 2500W; F3 of 30Hz. Use steep high pass filter set to 25Hz

Place ports symmetrically about the woofer to reduce chance of cone rock.



Box Properties

--Description--

Name: Vented Box 2

Type: Vented Box

Shape: Prism, square

Company: Eminence Speaker LLC

--Box Parameters--

Vb = 8.477 cu.ft

V(total) = 9.914 cu.ft

Fb = 31.26 Hz

QL = 6.36

F3 = 30.21 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = rectangle

Vent ends = one flush

Hv = 19 in

Wv = 2 in

Lv = 21 in

Driver Properties

--Description--

Name: NSW6021-6

Type: Standard one-way driver

Company: Eminence Speaker LLC

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 29.35 Hz

Qms = 15.35

Vas = 224.6 liters

Cms = 0.06 mm/N

Mms = 507.5 g

Rms = 5.888 kg/s

Xmax = 21.01 mm

Xmech = 50 mm

P-Dia = 454.6 mm

Sd = 1642 sq.cm

P-Vd = 3.411 liters

--Electrical Parameters--

Qes = 0.31

Re = 3.8 ohms

Le = 1.35 mH

Z = 6 ohms

BL = 33.79 Tm

Pe = 2500 watts

--Electromech. Parameters--

Qts = 0.31

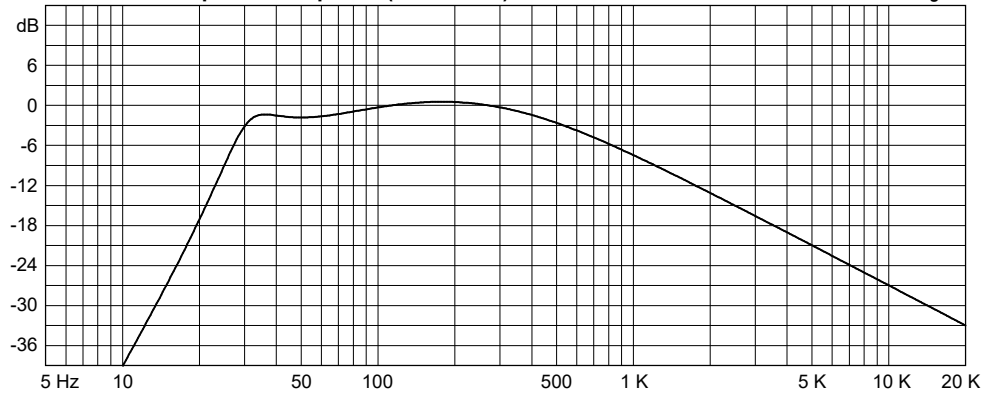
no = 1.766 %

1-W SPL = 94.62 dB

2.83-V SPL = 97.85 dB

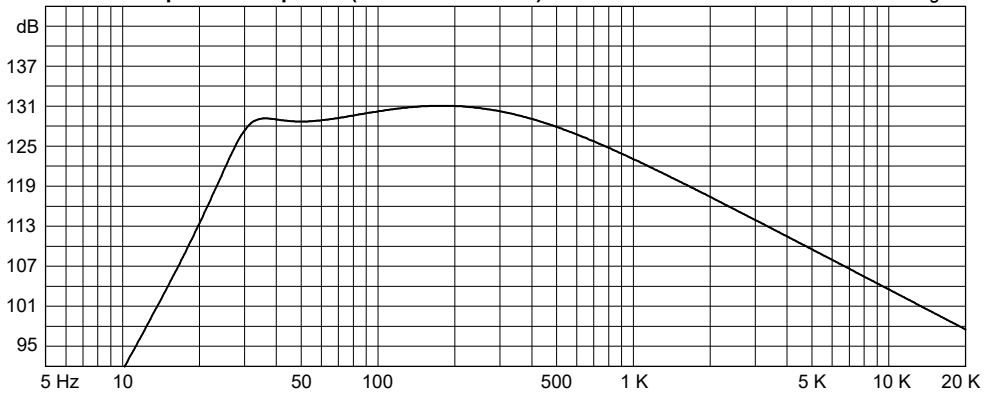
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



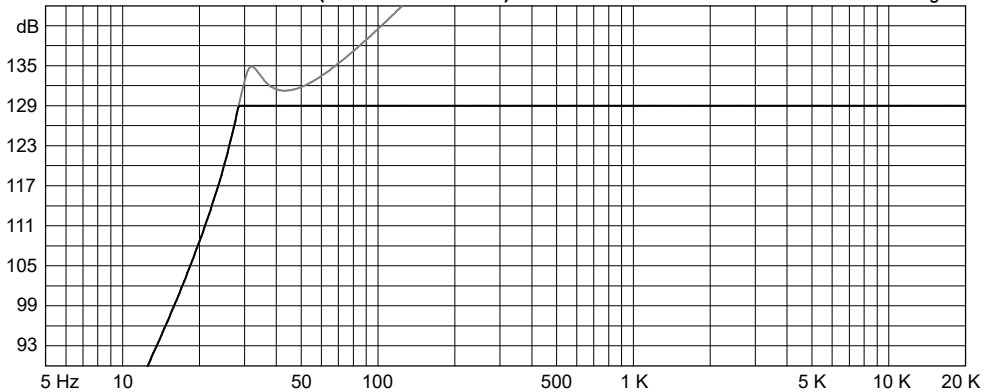
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 2500 watts

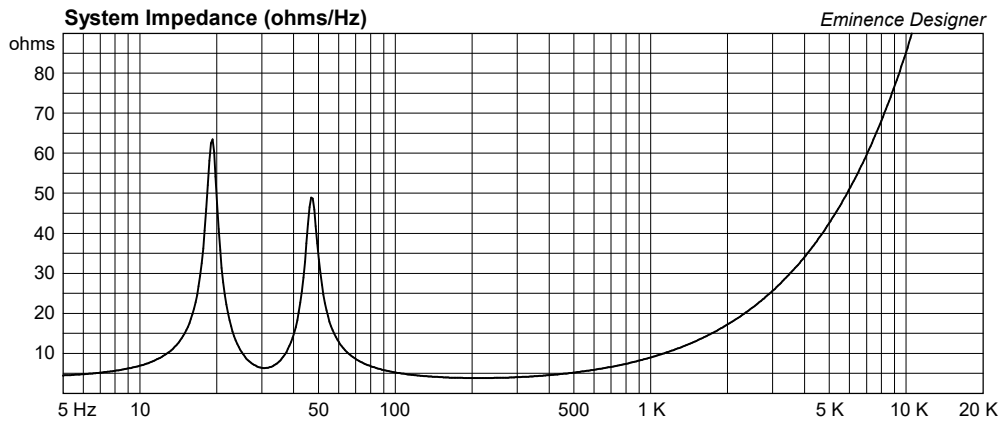
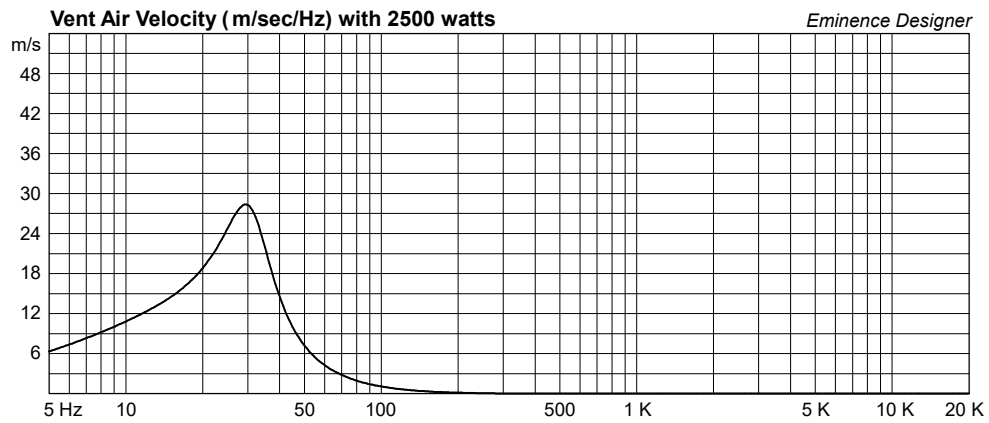
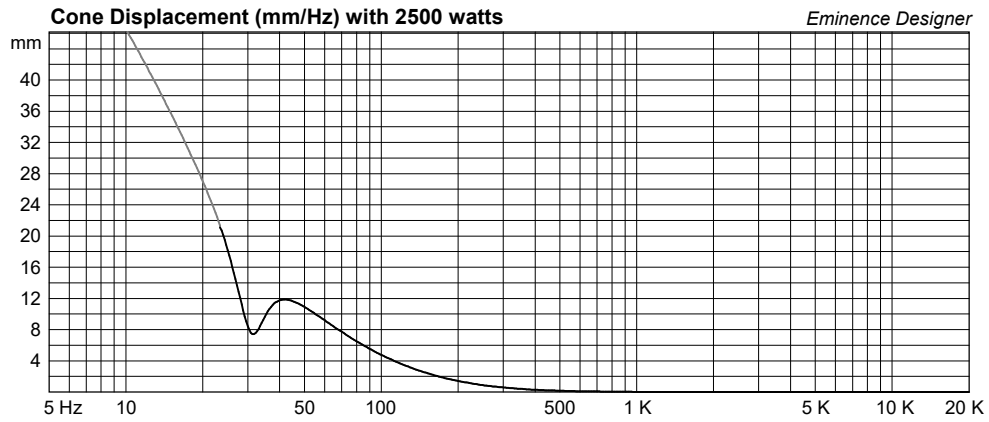
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Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer





NSW6021-6 Large Size Sub

By Matt Marcum, Eminence Speaker LLC
Thermally limited to 2500W; F3 of 25Hz. Use steep high pass filter set to 21Hz
Place ports symmetrically about the woofer to reduce chance of cone rock



Box Properties

--Description--

Name: Vented Box 3
Type: Vented Box
Shape: Prism, square
Company: Eminence Speaker LLC

--Box Parameters--

Vb = 13.13 cu.ft
V(total) = 14.98 cu.ft
Fb = 25.52 Hz
QL = 6.36
F3 = 25.47 Hz
Fill = minimal

--Vents--

No. of Vents = 4
Vent shape = round
Vent ends = one flush
Dv = 5.709 in
Lv = 25.5 in

Driver Properties

--Description--

Name: NSW6021-6
Type: Standard one-way driver
Company: Eminence Speaker LLC

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 29.35 Hz
Qms = 15.35
Vas = 224.6 liters
Cms = 0.06 mm/N
Mms = 507.5 g
Rms = 5.888 kg/s
Xmax = 21.01 mm
Xmech = 50 mm
P-Dia = 454.6 mm
Sd = 1642 sq.cm
P-Vd = 3.411 liters

--Electrical Parameters--

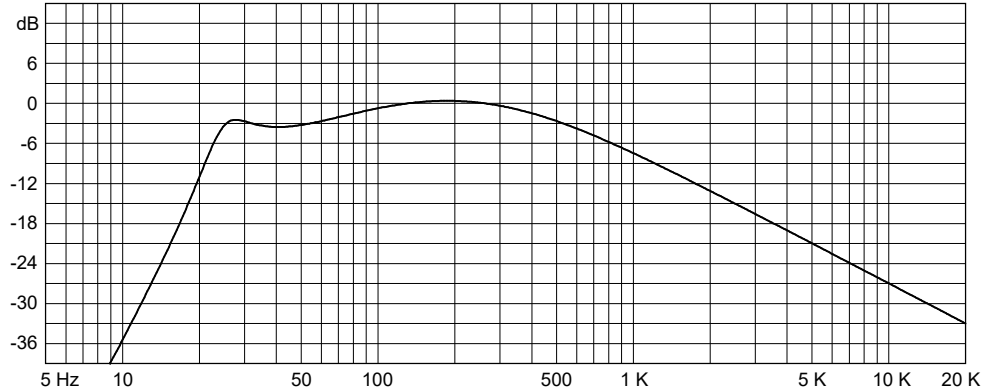
Qes = 0.31
Re = 3.8 ohms
Le = 1.35 mH
Z = 6 ohms
BL = 33.79 Tm
Pe = 2500 watts

--Electromech. Parameters--

Qts = 0.31
no = 1.766 %
1-W SPL = 94.62 dB
2.83-V SPL = 97.85 dB

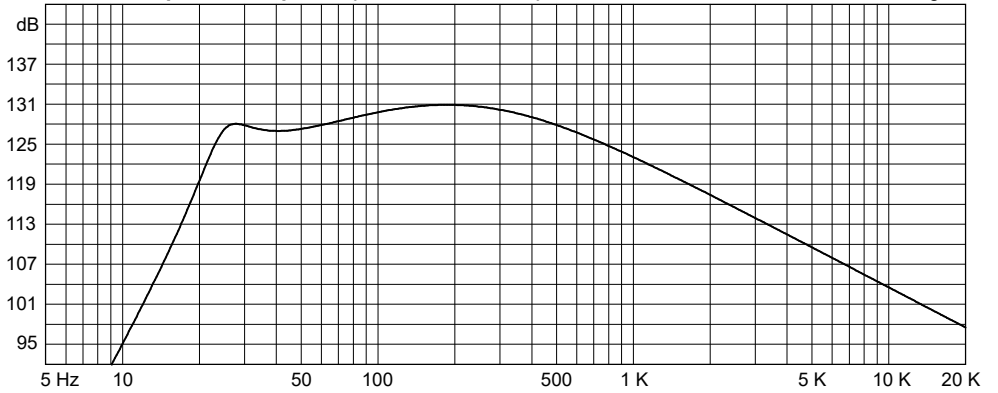
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



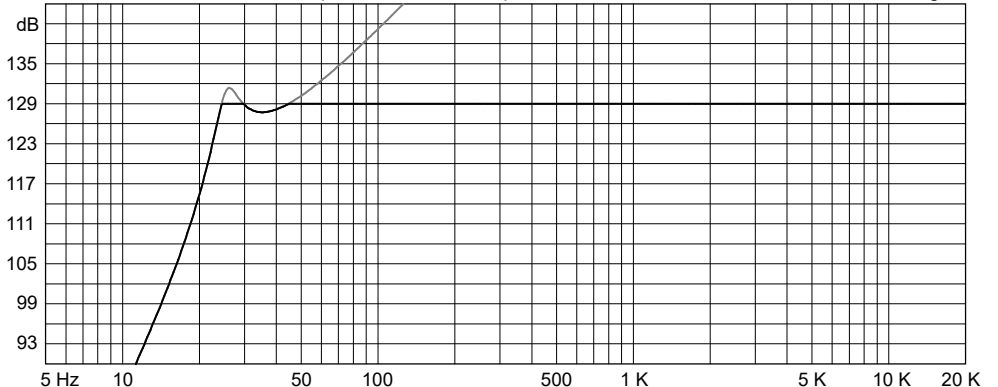
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 2500 watts

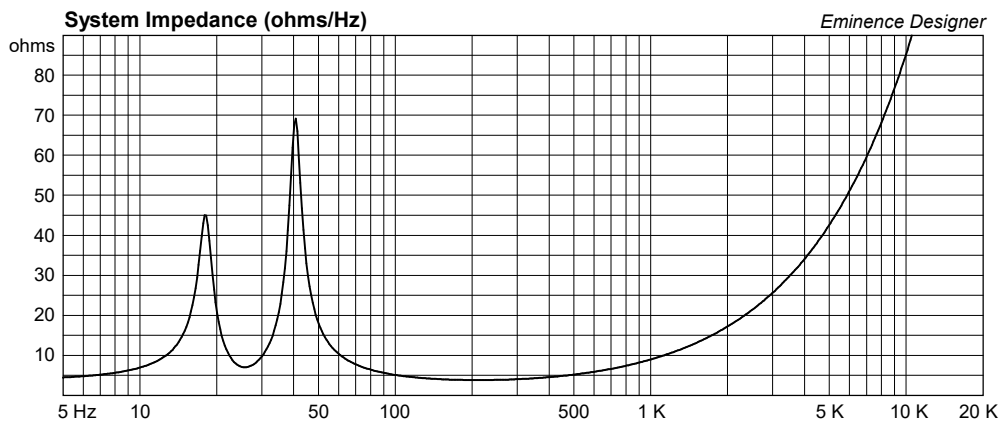
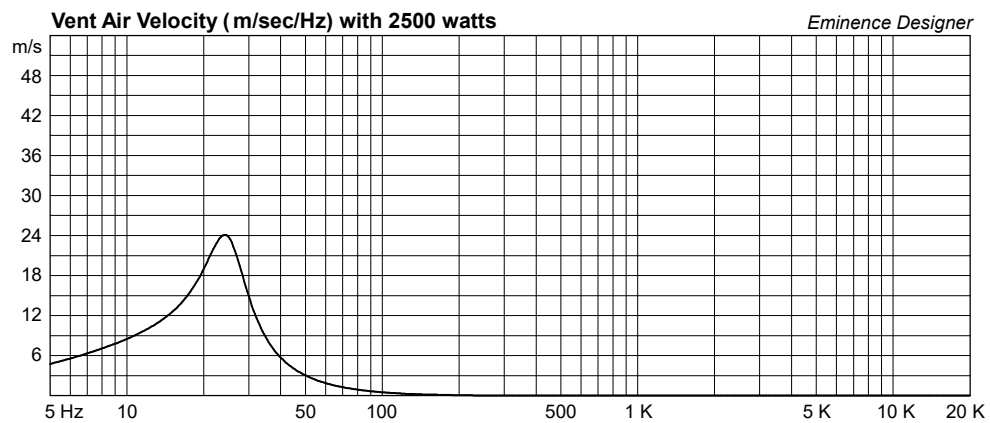
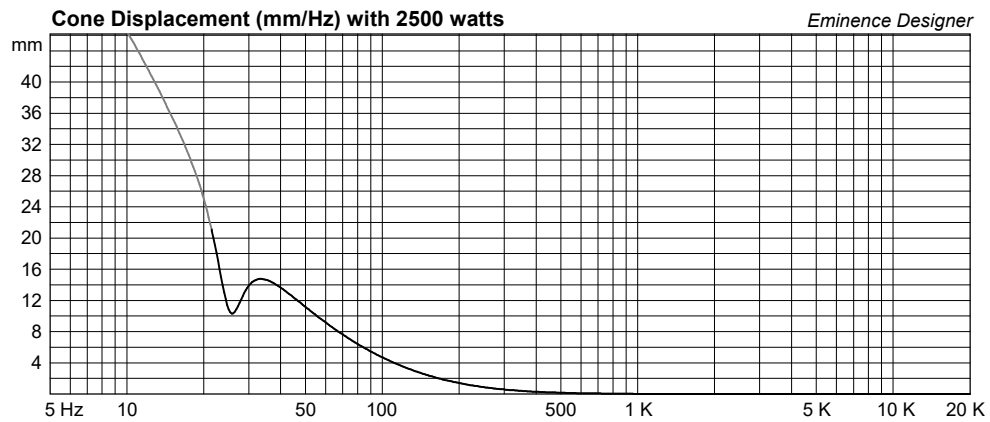
Eminence Designer



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

Eminence Designer





NSW6021-6 Dual 21" Sub

By Matt Marcum, Eminence Speaker LLC
Thermally limited to 5000W; F3 of 29Hz. Use steep high pass filter set to 24Hz
Place ports symmetrically about woofers to reduce chance of cone rock



Box Properties

--Description--

Name: Vented Box 4
Type: Vented Box
Shape: Prism, square
Company: Eminence Speaker LLC

--Box Parameters--

Vb = 21.27 cu.ft
V(total) = 24.53 cu.ft
Fb = 29.22 Hz
QL = 5.578
F3 = 28.56 Hz
Fill = minimal

--Vents--

No. of Vents = 8
Vent shape = round
Vent ends = one flush
Dv = 5.709 in
Lv = 22 in

Driver Properties

--Description--

Name: NSW6021-6
Type: Standard one-way driver
Company: Eminence Speaker LLC

--Configuration--

No. of Drivers = 2

Mounting = Standard
Wiring = Parallel
Drivers sum coherently = Yes

--Mechanical Parameters--

Fs = 29.35 Hz
Qms = 15.35
Vas = 224.6 liters 449.2
Cms = 0.06 mm/N 0.03
Mms = 507.5 g 1015
Rms = 5.888 kg/s 11.78
Xmax = 21.01 mm
Xmech = 50 mm
P-Dia = 454.6 mm 642.9
Sd = 1642 sq.cm 3284
P-Vd = 3.411 liters 6.822

--Electrical Parameters--

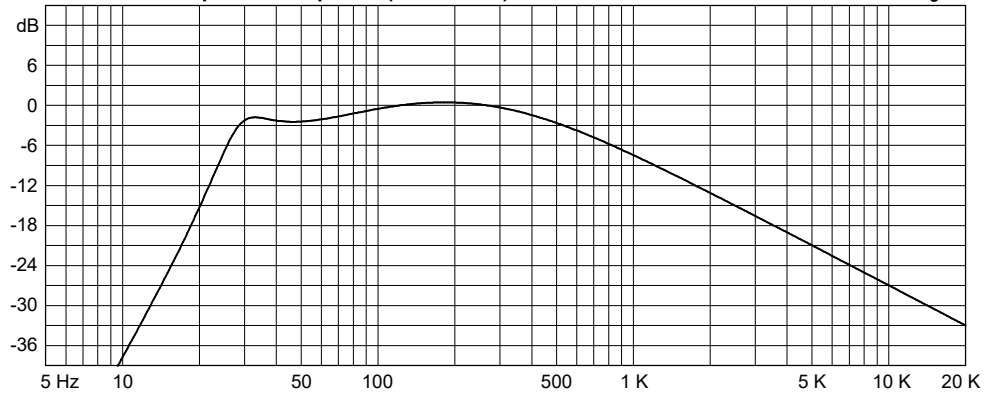
Qes = 0.31
Re = 3.8 ohms 1.9
Le = 1.35 mH 0.675
Z = 6 ohms 3
BL = 33.79 Tm 33.87
Pe = 2500 watts 5000

--Electromech. Parameters--

Qts = 0.31
no = 1.766 % 3.532
1-W SPL = 94.62 dB 97.63
2.83-V SPL = 97.85 dB 103.9

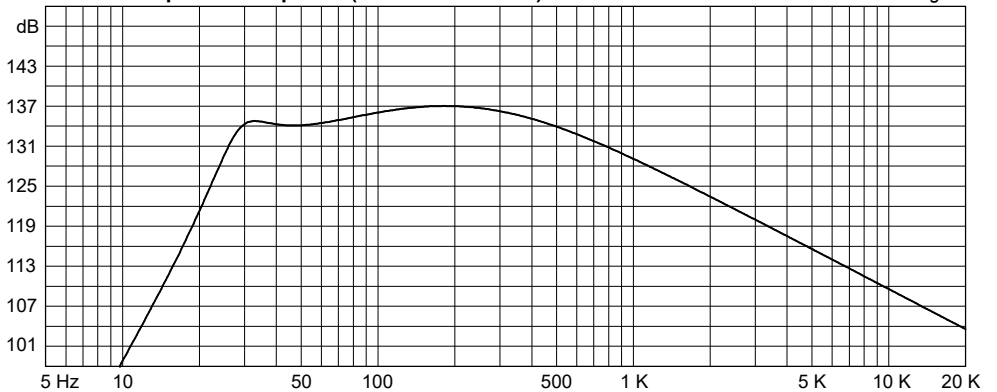
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 5000 watts

Eminence Designer



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

Eminence Designer

