

# NSW4018-8 Small Size Sub

By Matt Marcum, Eminence Speaker LLC  
Thermally limited to 1600W; F3 of 40Hz. Use steep high pass filter set to 32Hz  
Place ports symmetrically about the 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 = 4.5 cu.ft  
V(total) = 5.162 cu.ft  
Fb = 40 Hz  
QL = 6.679  
F3 = 40.53 Hz  
Fill = minimal

--Vents--

No. of Vents = 4  
Vent shape = round  
Vent ends = one flush  
Dv = 4 in  
Lv = 13.91 in

## Driver Properties

--Description--

Name: NSW4018-8  
Type: Standard one-way driver  
Company: Eminence Speaker

--Configuration--

**No. of Drivers = 1**

--Mechanical Parameters--

Fs = 35.9 Hz  
Qms = 8.46  
Vas = 164.5 liters  
Cms = 0.08 mm/N  
Mms = 236.6 g  
Rms = 6.31 kg/s  
Xmax = 15.2 mm  
Xmech = 31.5 mm  
P-Dia = 391.4 mm  
Sd = 1217 sq.cm  
P-Vd = 1.829 liters

--Electrical Parameters--

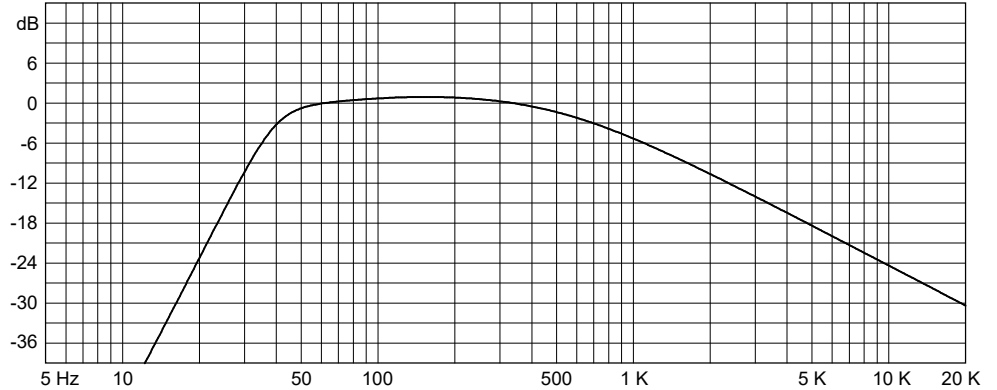
Qes = 0.39  
Re = 5.86 ohms  
Le = 1.54 mH  
Z = 8 ohms  
BL = 28.24 Tm  
Pe = 1600 watts

--Electromech. Parameters--

Qts = 0.38  
no = 1.882 %  
1-W SPL = 94.89 dB  
2.83-V SPL = 96.24 dB

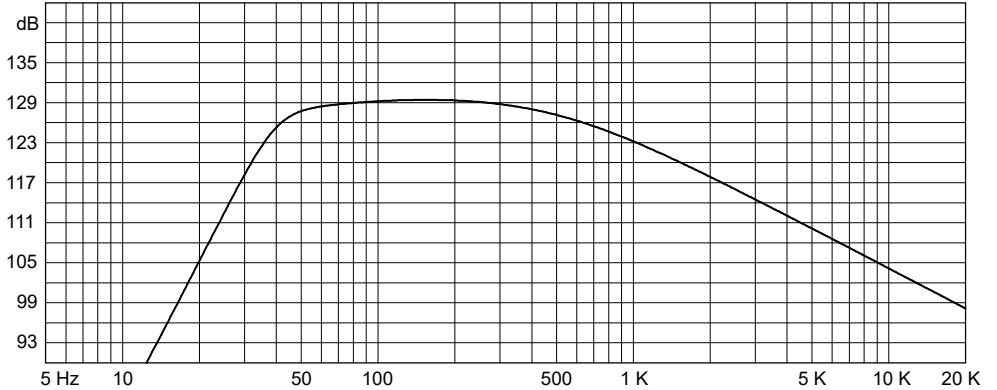
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



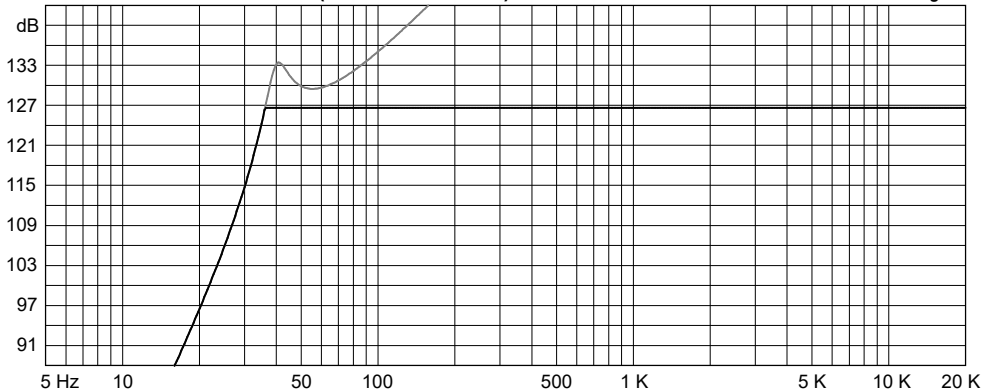
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 1600 watts

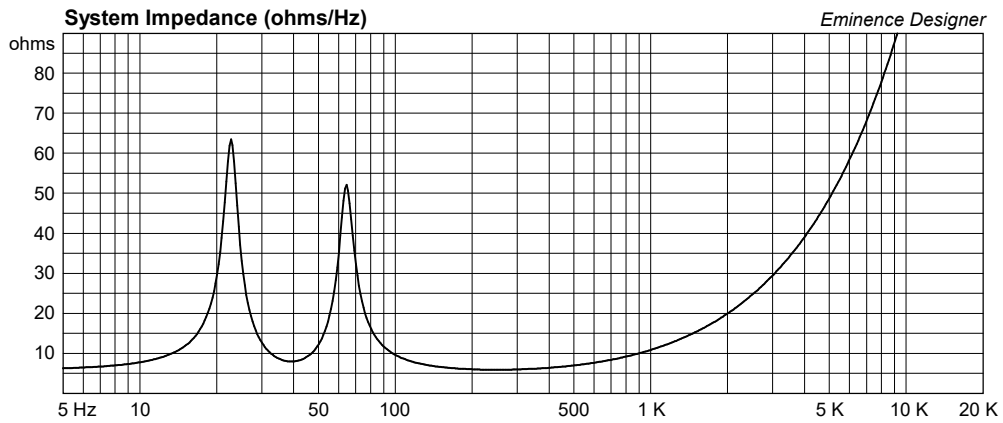
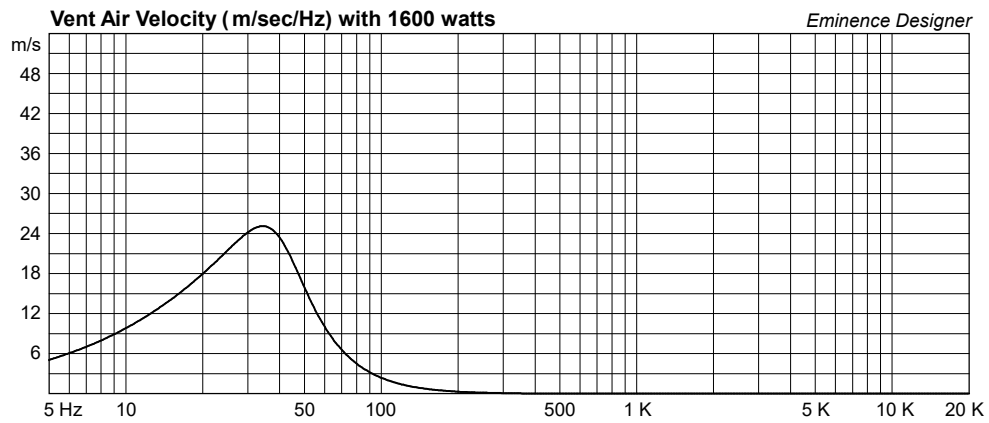
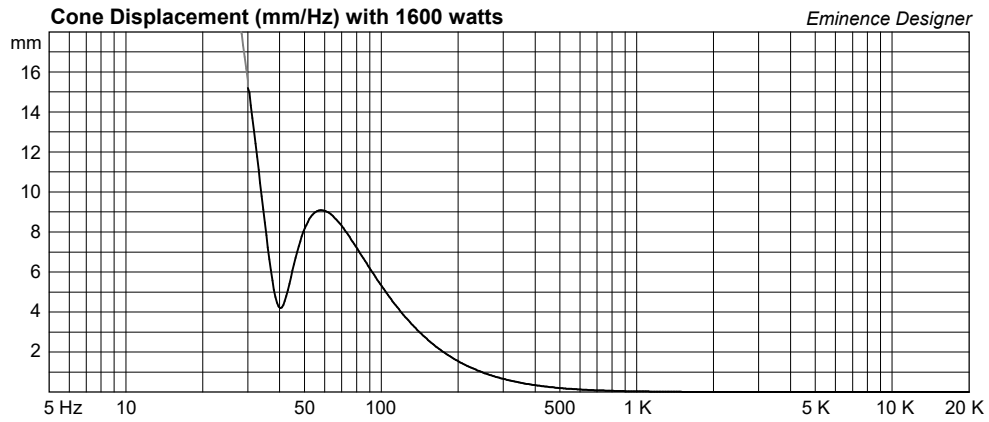
Eminence Designer



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

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# NSW4018-8 Medium Size Sub

By Matt Marcum, Eminence Speaker LLC

Thermally limited to 1600W; F3 of 35Hz. Use steep high pass filter set to 30Hz  
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 = 6.5 cu.ft  
V(total) = 7.101 cu.ft  
Fb = 35 Hz  
QL = 6.679  
F3 = 34.92 Hz  
Fill = minimal

--Vents--

No. of Vents = 4  
Vent shape = round  
Vent ends = one flush  
Dv = 4 in  
Lv = 12.04 in

## Driver Properties

--Description--

Name: NSW4018-8  
Type: Standard one-way driver  
Company: Eminence Speaker

--Configuration--

**No. of Drivers = 1**

--Mechanical Parameters--

Fs = 35.9 Hz  
Qms = 8.46  
Vas = 164.5 liters  
Cms = 0.08 mm/N  
Mms = 236.6 g  
Rms = 6.31 kg/s  
Xmax = 15.2 mm  
Xmech = 38 mm  
P-Dia = 391.4 mm  
Sd = 1217 sq.cm  
P-Vd = 1.829 liters

--Electrical Parameters--

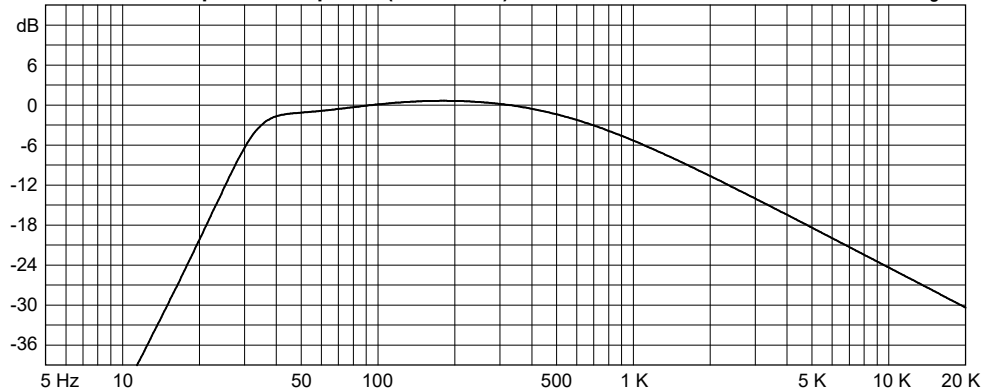
Qes = 0.39  
Re = 5.86 ohms  
Le = 1.54 mH  
Z = 8 ohms  
BL = 28.24 Tm  
Pe = 1600 watts

--Electromech. Parameters--

Qts = 0.38  
no = 1.882 %  
1-W SPL = 94.89 dB  
2.83-V SPL = 96.24 dB

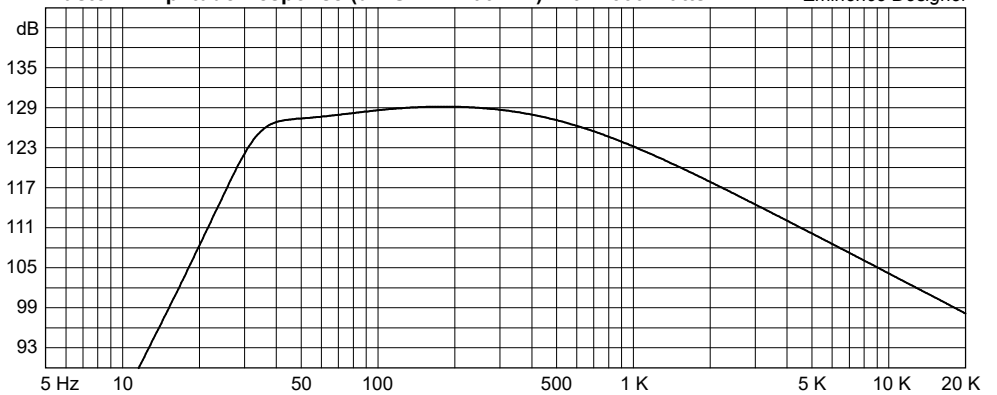
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



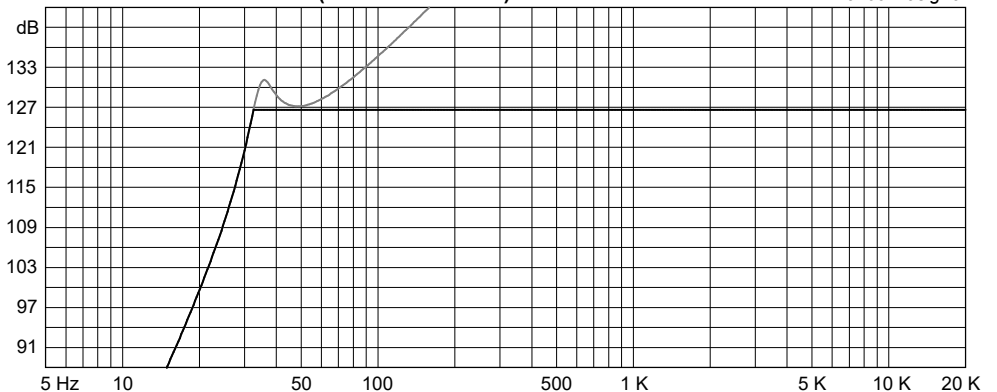
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 1600 watts

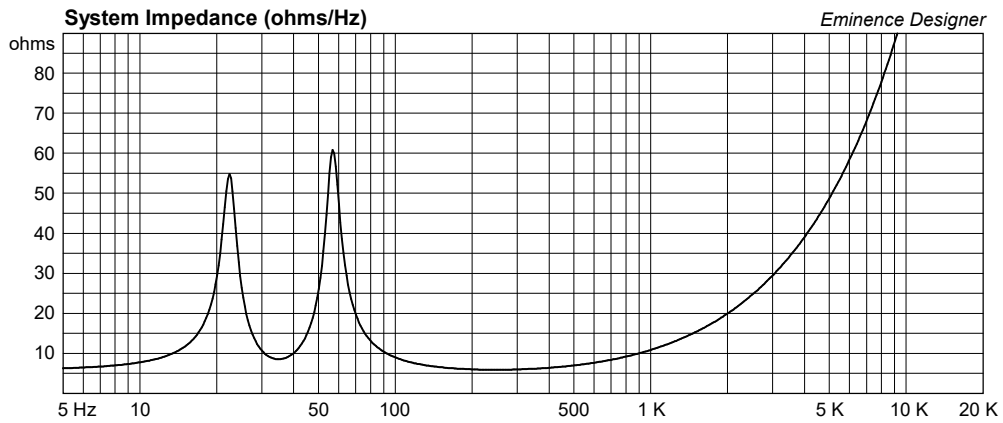
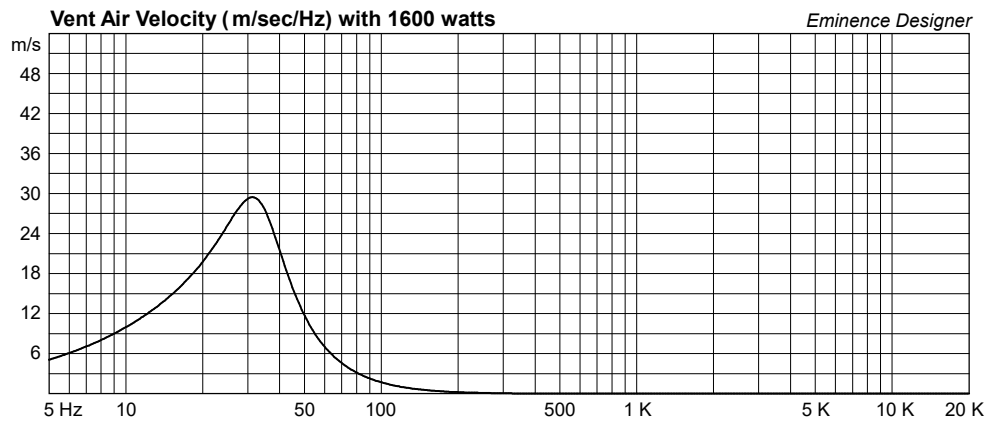
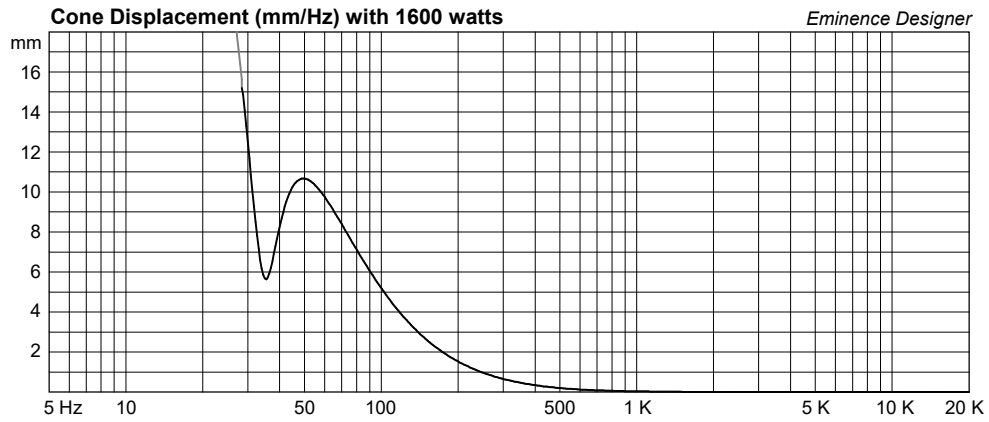
Eminence Designer



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

Eminence Designer





# NSW4018-8 Large Size Sub

By Matt Marcum, Eminence Speaker LLC

Thermally limited to 1600W; F3 of 27Hz. 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 3

Type: Vented Box

Shape: Prism, square

Company: Eminence Speaker LLC

--Box Parameters--

Vb = 12.5 cu.ft

V(total) = 14.25 cu.ft

Fb = 27 Hz

QL = 6.679

F3 = 27.32 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = rectangle

Vent ends = one flush

Hv = 2 in

Wv = 24 in

Lv = 24.53 in

## Driver Properties

--Description--

Name: NSW4018-8

Type: Standard one-way driver

Company: Eminence Speaker

--Configuration--

**No. of Drivers = 1**

--Mechanical Parameters--

Fs = 35.9 Hz

Qms = 8.46

Vas = 164.5 liters

Cms = 0.08 mm/N

Mms = 236.6 g

Rms = 6.31 kg/s

Xmax = 15.2 mm

Xmech = 38 mm

P-Dia = 391.4 mm

Sd = 1217 sq.cm

P-Vd = 1.829 liters

--Electrical Parameters--

Qes = 0.39

Re = 5.86 ohms

Le = 1.54 mH

Z = 8 ohms

BL = 28.24 Tm

Pe = 1600 watts

--Electromech. Parameters--

Qts = 0.38

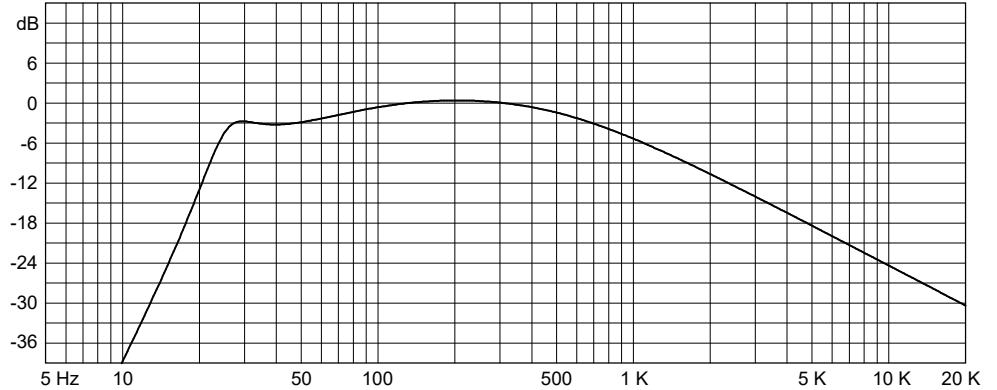
no = 1.882 %

1-W SPL = 94.89 dB

2.83-V SPL = 96.24 dB

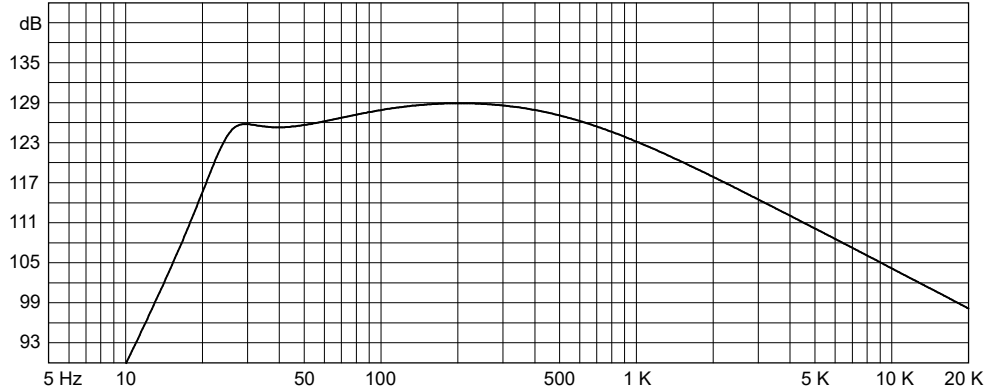
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



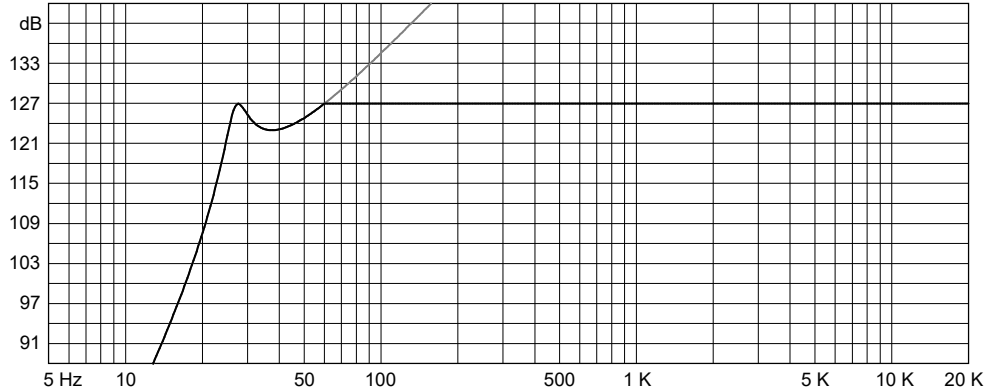
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 1600 watts

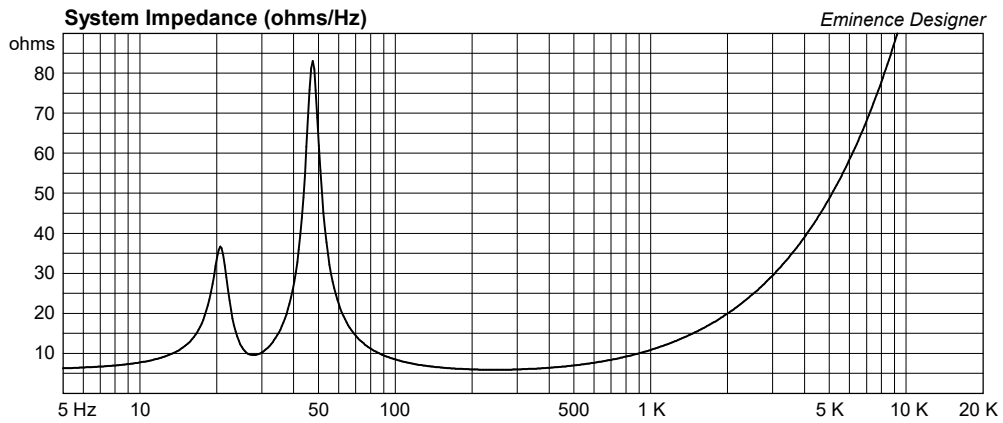
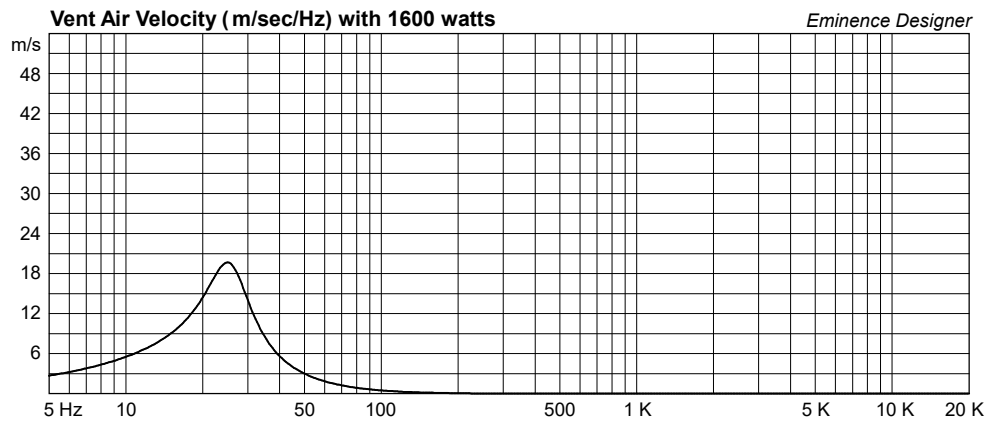
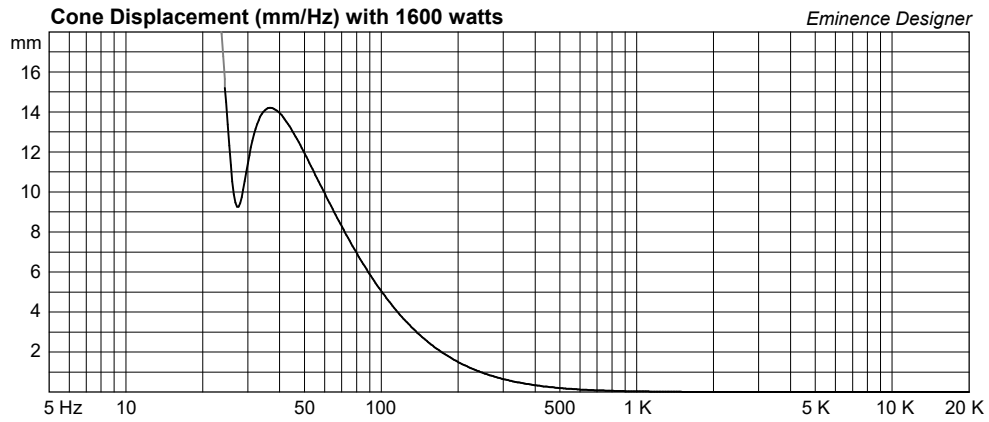
Eminence Designer



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

Eminence Designer





# NSW4018-8 Dual 18 Sub

By Matt Marcum, Eminence Speaker LLC  
Thermally limited to 3200W; F3 of 33Hz. Use steep high pass filter set to 27Hz  
Place ports symmetrically about the woofer 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 = 15 cu.ft  
V(total) = 16.1 cu.ft  
Fb = 33 Hz  
QL = 6.679  
F3 = 33.02 Hz  
Fill = minimal

--Vents--

No. of Vents = 8  
Vent shape = round  
Vent ends = one flush  
Dv = 3.999 in  
Lv = 10.52 in

## Driver Properties

--Description--

Name: NSW4018-8  
Type: Standard one-way driver  
Company: Eminence Speaker

--Configuration--

**No. of Drivers =**  
Mounting = Standard  
Wiring = Parallel  
Drivers sum coherently = Yes

--Mechanical Parameters--

Fs = 35.9 Hz  
Qms = 8.46  
Vas = 164.5 liters 329  
Cms = 0.08 mm/N 0.04  
Mms = 236.6 g 473.2  
Rms = 6.31 kg/s 12.62  
Xmax = 15.2 mm  
Xmech = 38 mm  
P-Dia = 391.4 mm 553.5  
Sd = 1217 sq.cm 2434  
P-Vd = 1.829 liters 3.658

--Electrical Parameters--

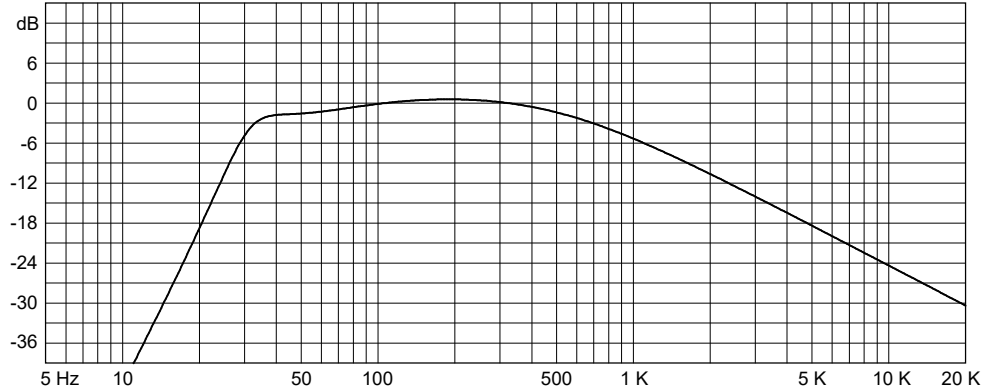
Qes = 0.39  
Re = 5.86 ohms 2.93  
Le = 1.54 mH 0.77  
Z = 8 ohms 4  
BL = 28.24 Tm 28.32  
Pe = 1600 watts 3200

--Electromech. Parameters--

Qts = 0.38  
no = 1.882 % 3.763  
1-W SPL = 94.89 dB 97.9  
2.83-V SPL = 96.24 dB 102.3

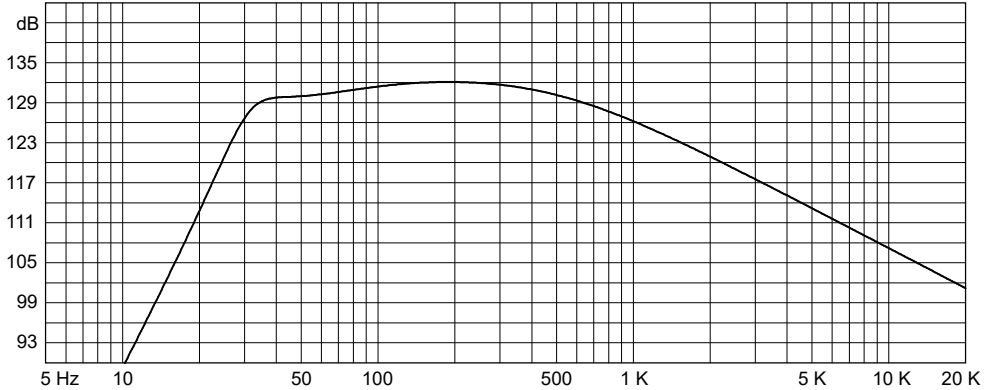
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 1600 watts

Eminence Designer



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

Eminence Designer

