

Specification

Nominal Basket Diameter	18", 457.2mm
Nominal Impedance*	8 ohms
Power Rating**	
Watts	800W
Music Program	1600W
Resonance	32Hz
Usable Frequency Range***	36Hz-200Hz
Sensitivity	95
Magnet Weight	109 oz
Gap Height	0.375", 9.53mm
Voice Coil Diameter	4", 101.6mm

Thiele & Small Parameters

Resonant Frequency (fs)	32Hz
DC Resistance (Re)	6.19
Coil Inductance (Le)	4.78mH
Mechanical Q (Qms)	10.38
Electromagnetic Q (Qes)	0.36
Total Q (Qts)	0.35
Compliance Equivalent Volume (Vas)	237.9 ltr/8.4 cu. ft.
Peak Diaphragm Displacement Volume (Vd)	939cc
Mechanical Compliance of Suspension (Cms)	0.12mm/N
BL Product (BL)	27.0 T-M
Diaphragm Mass inc. Airload (Mms)	211 grams
Efficiency Bandwidth Product (EBP)	89
Maximum Linear Excursion (Xmax)	7.9mm
Surface Area of Cone (Sd)	1188.0cm ²
Maximum Mechanical Limit (Xlim)	15.9mm

Mounting Information

Recommended Enclosure Volume	
Sealed	N/A
Vented	125-210 ltr/4.4-7.4 cu. ft.
Overall Diameter	18", 457.2mm
Baffle Hole Diameter	16.57", 420.9mm
Front Sealing Gasket	Fitted as Standard
Rear Sealing Gasket	Fitted as Standard
Mounting Holes Diameter	0.28", 7mm
Mounting Holes B.C.D.	17.25", 438.2mm
Depth	8.13", 206.4mm
Net Weight	24 lbs, 10.9 kg
Shipping Weight	26 lbs, 11.8 kg

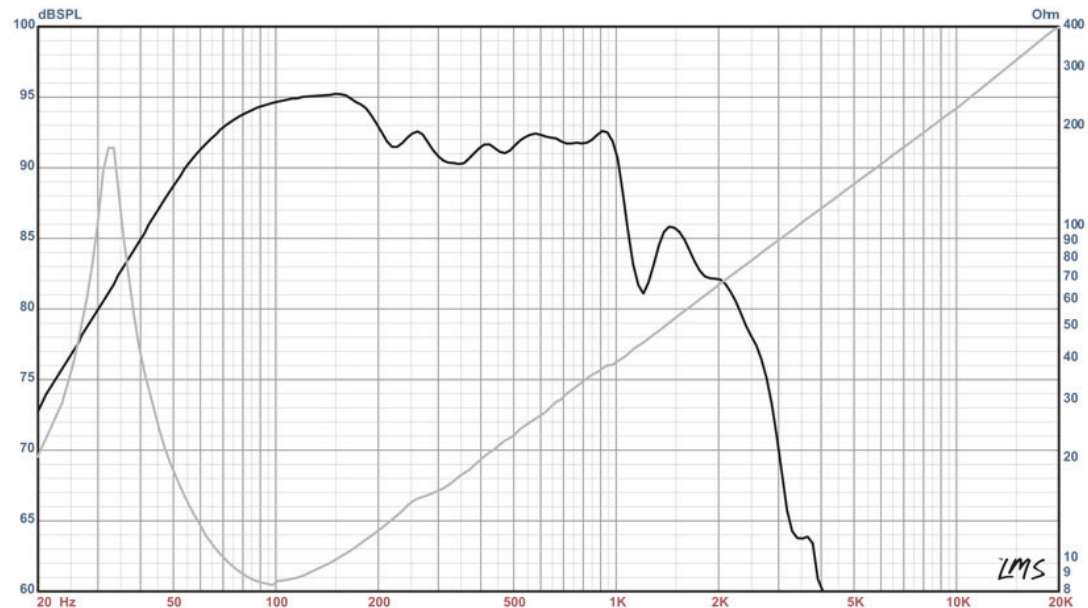
Materials of Construction

Coil Construction	Copper
Coil	Polyimide
Magnet Composition	Ferrite
Core Details	Under cu. With Copper Shorting Ring And Periphery Ventilation
Basket Materials	Die-Cast Aluminum
Cone Composition	Acrylic Wetlook Paper
Cone Edge Composition	Cloth
Dust Cap Composition	Acrylic Wetlook Paper



DEFINIMAX™ 4018LF Professional Series

Recommended for professional audio and bass as a low distortion sub-woofer in single or multi-driver designs.



* Please inquire about alternative impedances.

** Multiple units exceed published rating evaluated under EIA 426A noise source and test standard while in a free-air, nontemperature-controlled environment.

*** The average output across the usable frequency range when applying 1W/1m into the nominal impedance. I.e: 2.83 V/8 ohms, 4 V/16 ohms.

Eminence response curves are measured under the following conditions: All speakers are tested at 1W/1m using a variety of test set-ups for the appropriate impedance | LMS using 0.25" supplied microphone (software calibrated) mounted 1m from wall/baffle | 2 ft. X 2 ft. baffle is built into the wall with the speaker mounted flush against a steel ring for minimum diffraction | Hafler P1500 Trans-Nova amplifier | 2700 cu.ft. chamber with fiberglass on all six surfaces (three with custom-made wedges)

DefiniMax 4018LF Double18 Large Dance Club Sub

By Jerry McNutt, Eminence Speaker LLC

Thermally Limited to 1600 Watts; F3 of 37 Hz. Use a steep high pass filter set to 30 Hz.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 13 cu.ft

V(total) = 14.12 cu.ft

Fb = 40 Hz

QL = 7

F3 = 36.73 Hz

Fill = minimal

--Vents--

No. of Vents = 8

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 6.82 in

Driver Properties

--Description--

Name:

Type: Standard one-way driver

Comment: New Driver For 2006

--Configuration--

No. of Drivers = 2

Mounting = Standard

Wiring = Parallel

Drivers sum coherently = Yes

--Driver Parameters--

Fs = 31.78 Hz

Qms = 10.38

Vas = 237.9 liters [475.9]

Xmax = 7.9 mm

Sd = 1188 sq.cm [2376]

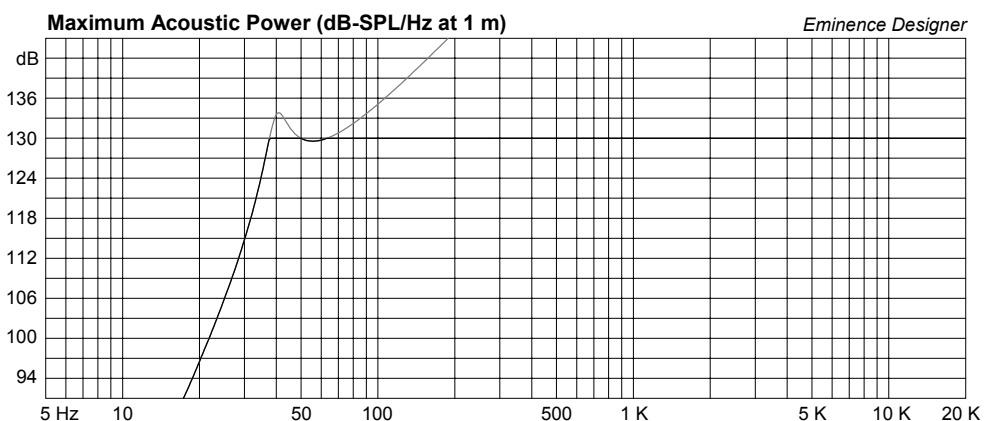
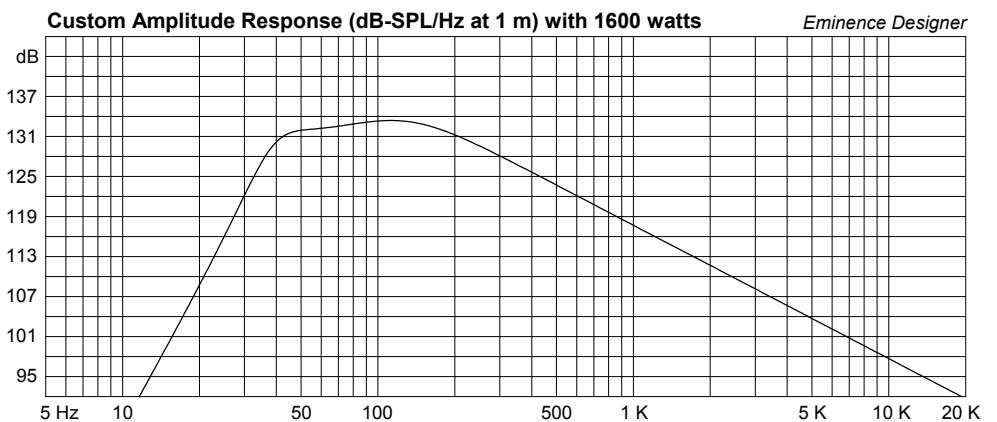
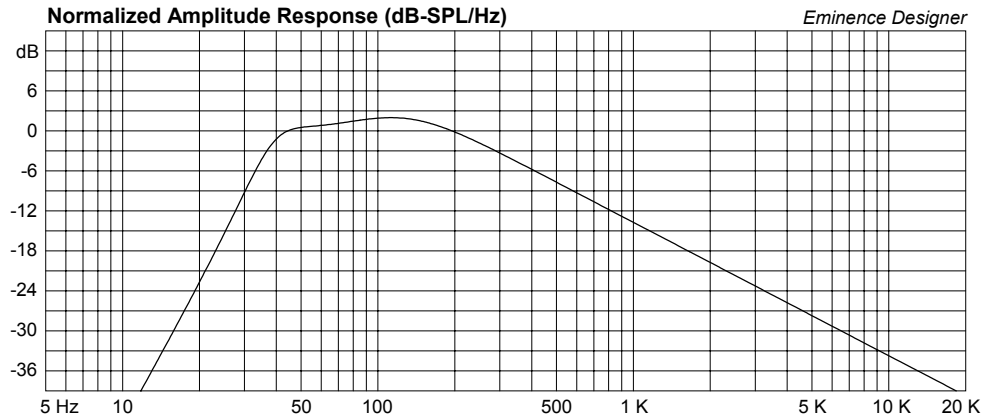
Qes = 0.36

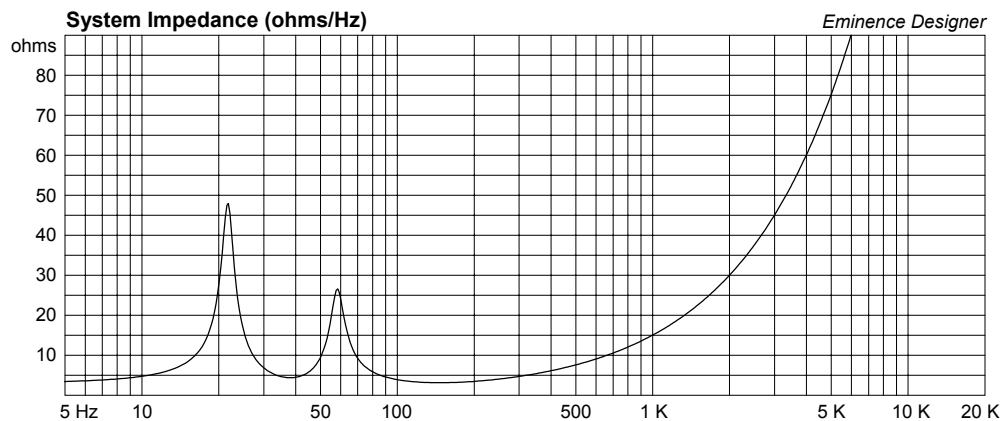
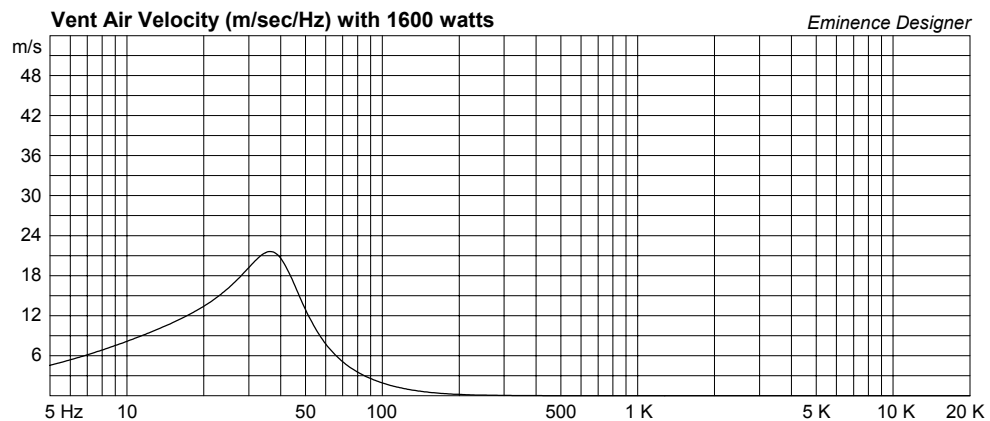
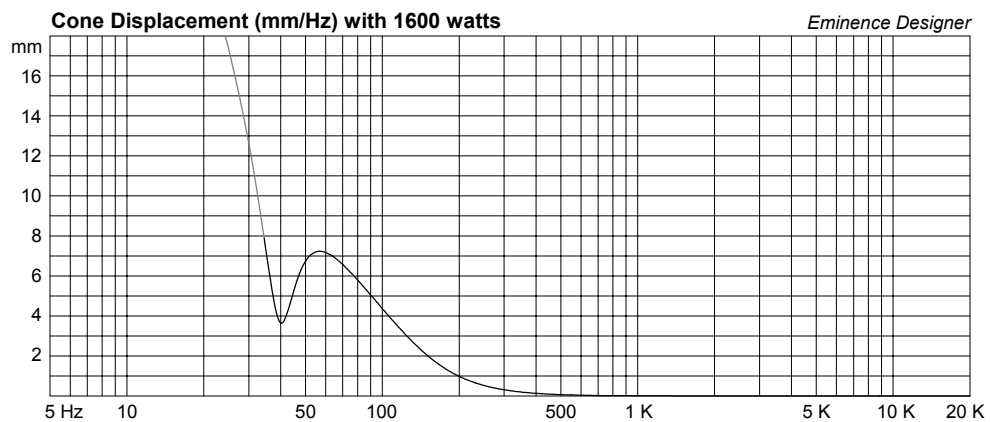
Re = 6.19 ohms [3.095]

Le = 4.78 mH [2.39]

Z = 8 ohms [4]

Pe = 800 watts [1600]





DefiniMax 4018LF Double18 Touring Style PA Sub

By Jerry McNutt, Eminence Speaker LLC

Thermally Limited to 1600 Watts; F3 of 44 Hz. Use a steep high pass filter set to 35 Hz.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 8 cu.ft

V(total) = 9.035 cu.ft

Fb = 40 Hz

QL = 7

F3 = 43.69 Hz

Fill = minimal

--Vents--

No. of Vents = 6

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 10.25 in

Driver Properties

--Description--

Name:

Type: Standard one-way driver

Comment: New Driver For 2006

--Configuration--

No. of Drivers = 2

Mounting = Standard

Wiring = Parallel

Drivers sum coherently = Yes

--Driver Parameters--

Fs = 31.78 Hz

Qms = 10.38

Vas = 237.9 liters [475.9]

Xmax = 7.9 mm

Sd = 1188 sq.cm [2376]

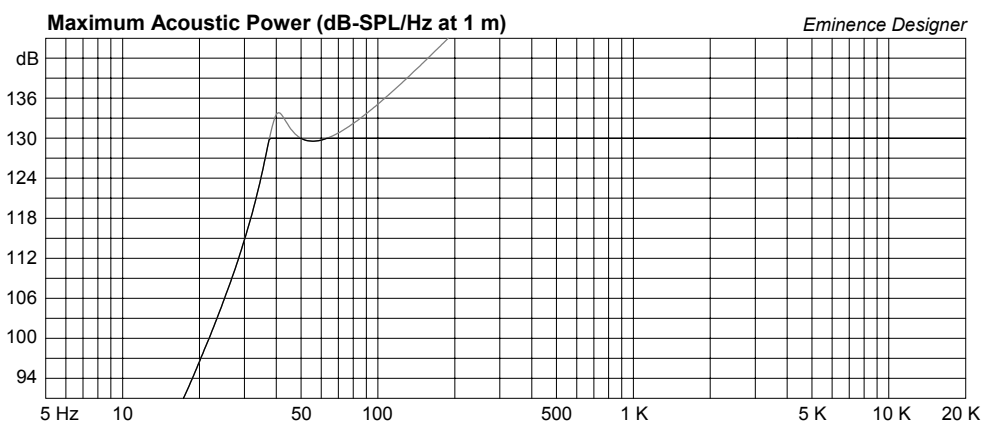
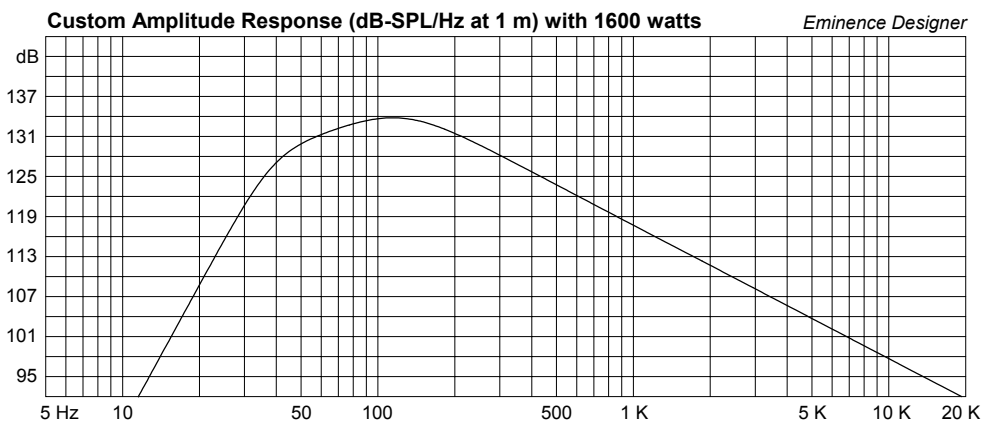
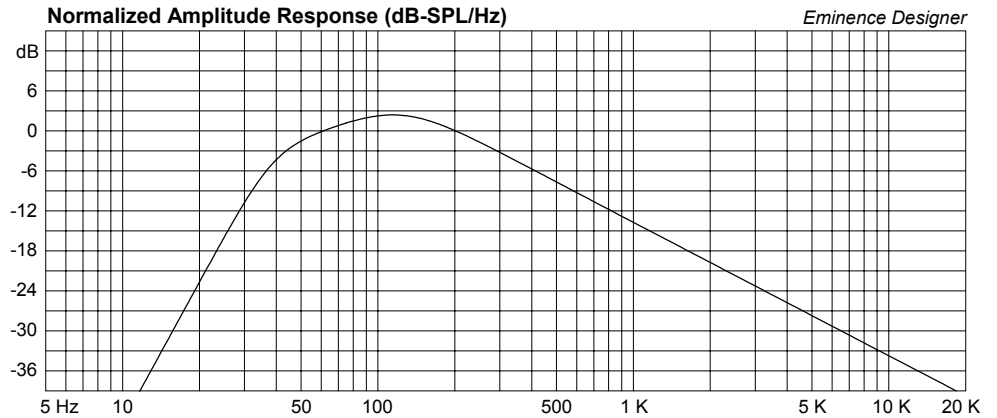
Qes = 0.36

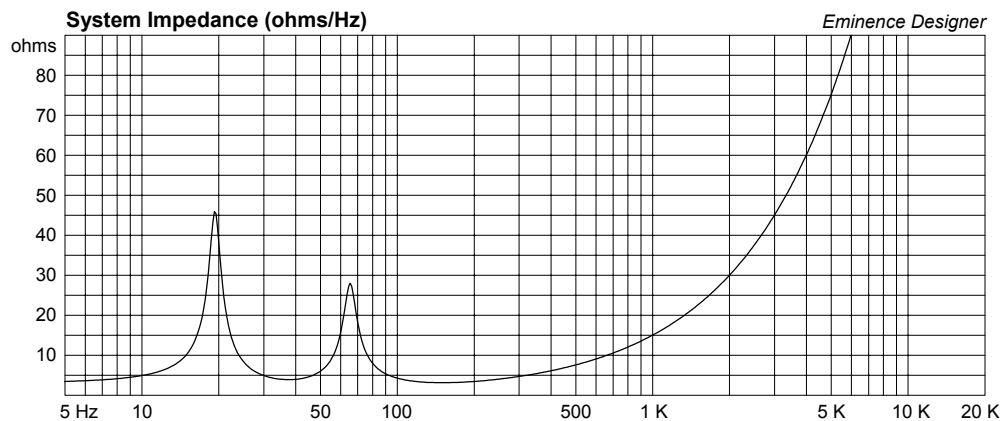
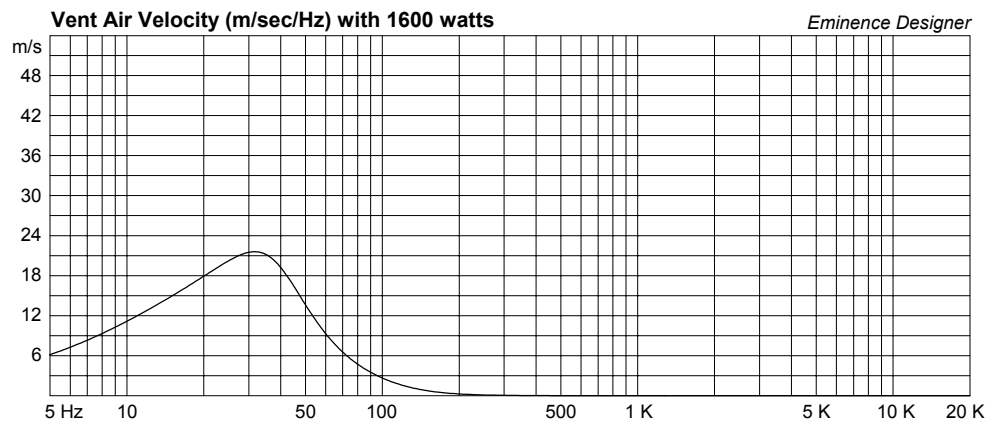
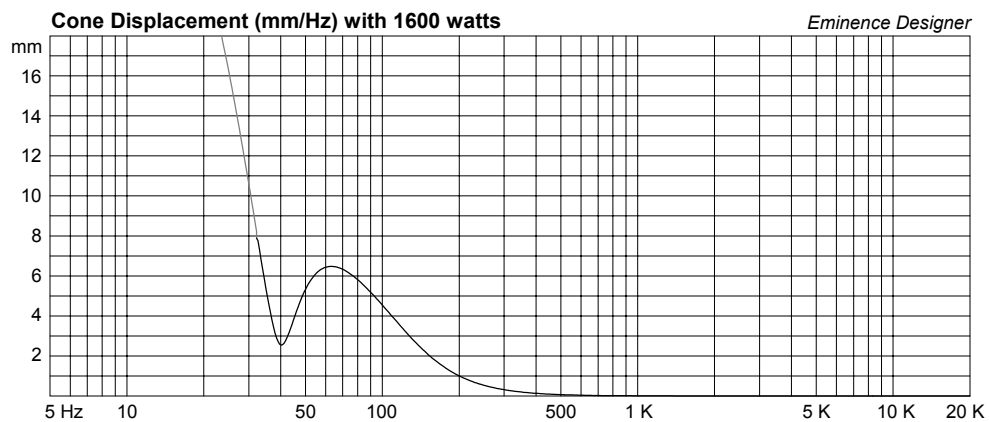
Re = 6.19 ohms [3.095]

Le = 4.78 mH [2.39]

Z = 8 ohms [4]

Pe = 800 watts [1600]





DefiniMax 4018LF Large Dance Club Type of Subwoofer

By Jerry McNutt, Eminence Speaker LLC

Thermally Limited to 800 Watts; F3 of 36 Hz. Use a steep high pass filter set to 30 Hz.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 6.8 cu.ft

V(total) = 7.373 cu.ft

Fb = 40 Hz

QL = 7

F3 = 36.41 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 7.293 in

Driver Properties

--Description--

Name:

Type: Standard one-way driver

Comment: New Driver For 2006

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 31.78 Hz

Qms = 10.38

Vas = 237.9 liters

Xmax = 7.9 mm

Sd = 1188 sq.cm

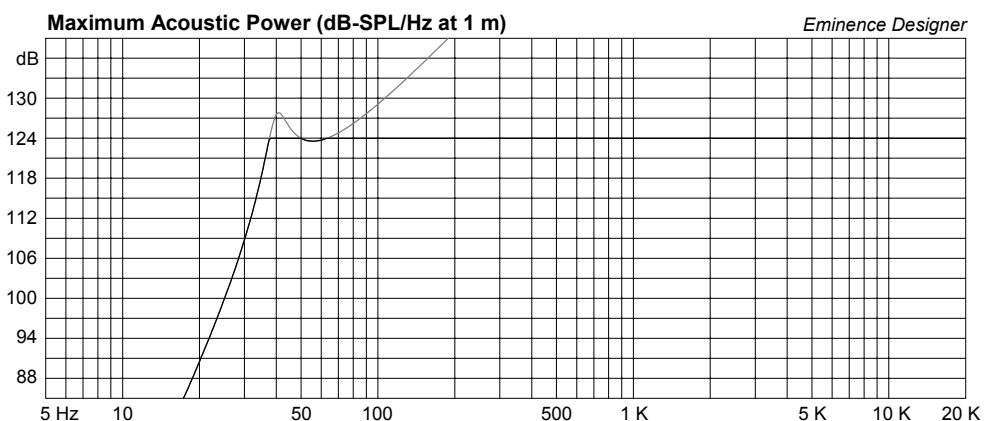
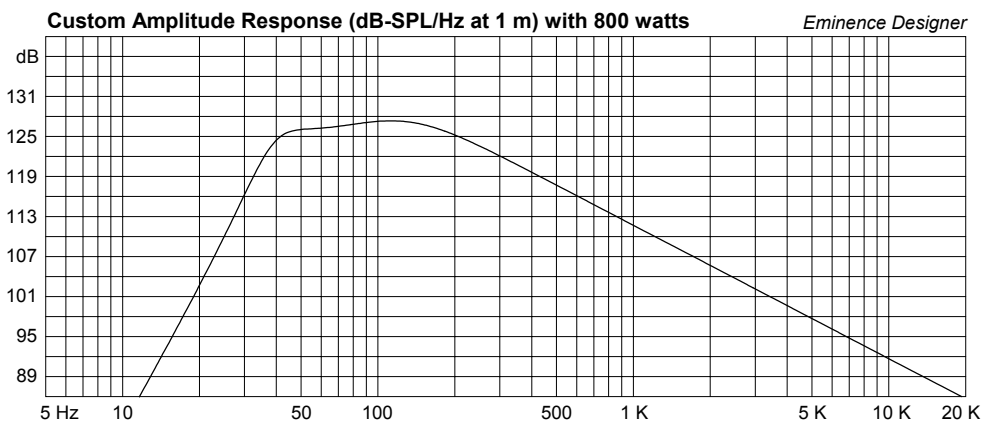
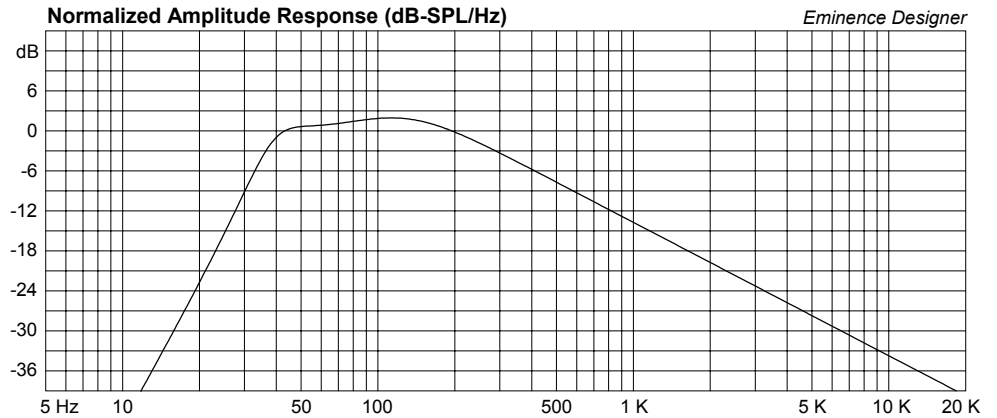
Qes = 0.36

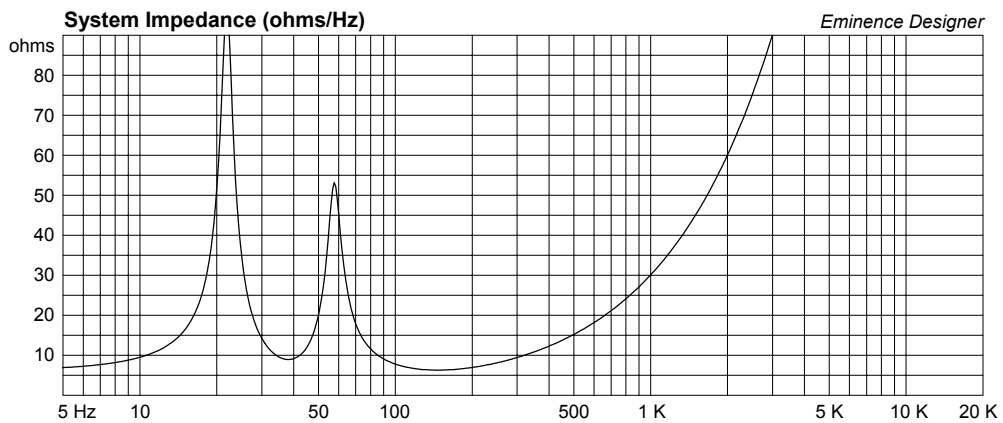
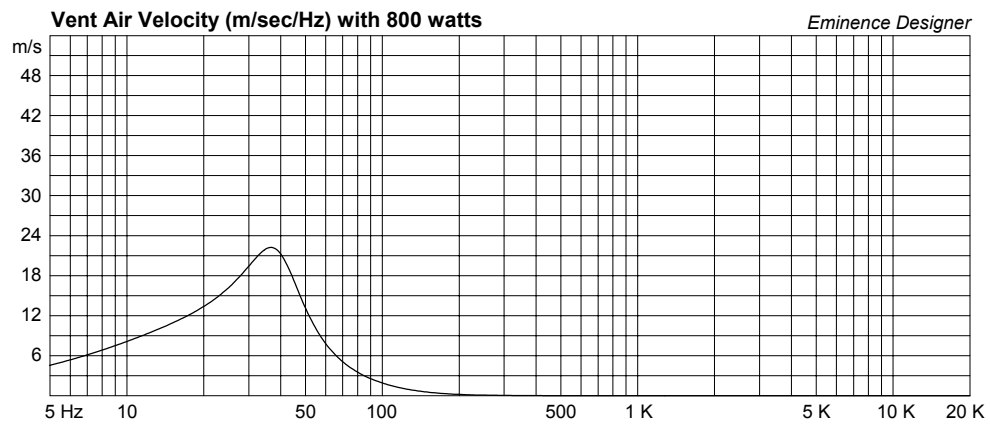
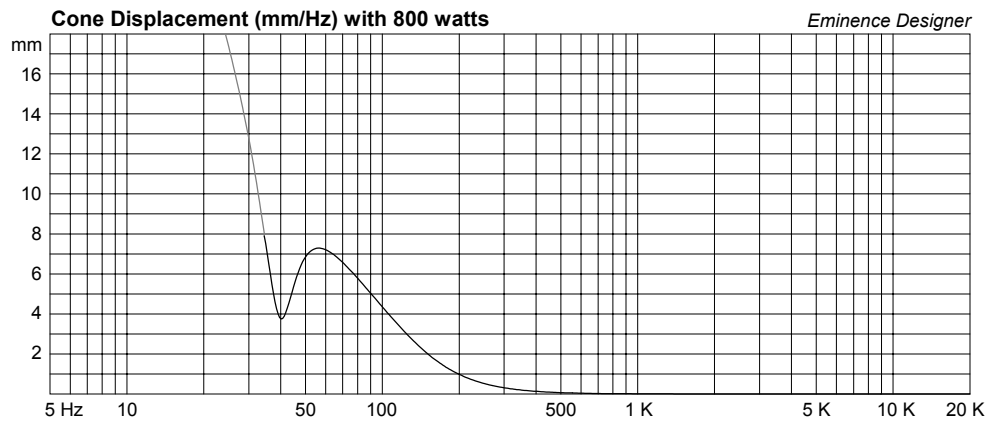
Re = 6.19 ohms

Le = 4.78 mH

Z = 8 ohms

Pe = 800 watts





DefiniMax 4018LF Touring PA Sub

By Jerry McNutt, Eminence Speaker LLC

Thermally Limited to 800 Watts; F3 of 41 Hz. Use a steep high pass filter set to 35 Hz.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 4.6 cu.ft

V(total) = 5.346 cu.ft

Fb = 41 Hz

QL = 7

F3 = 41.03 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 12.56 in

Driver Properties

--Description--

Name:

Type: Standard one-way driver

Comment: New Driver For 2006

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 31.78 Hz

Qms = 10.38

Vas = 237.9 liters

Xmax = 7.9 mm

Sd = 1188 sq.cm

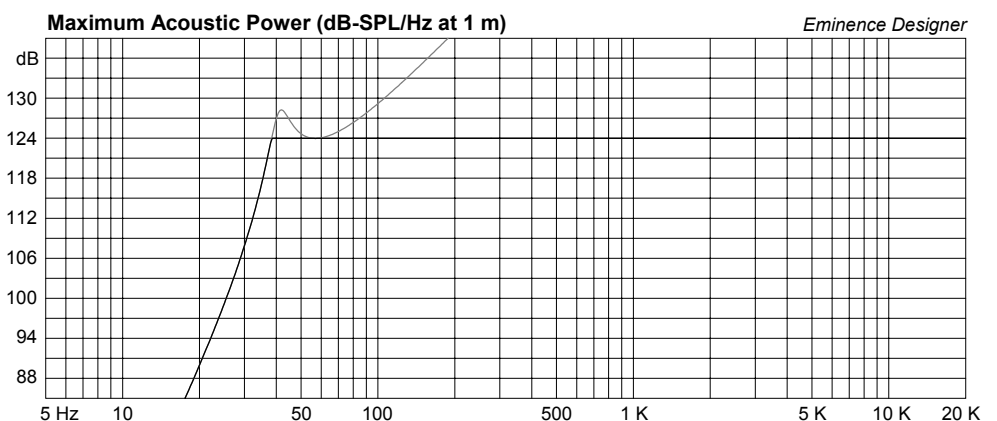
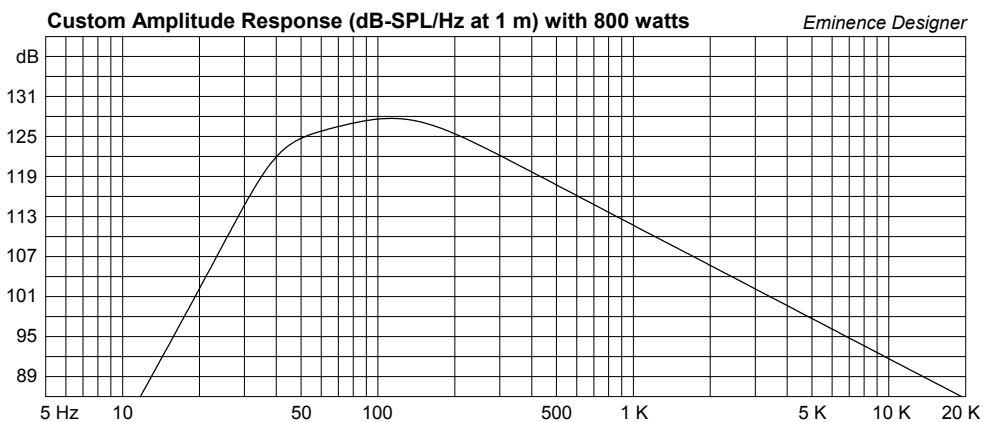
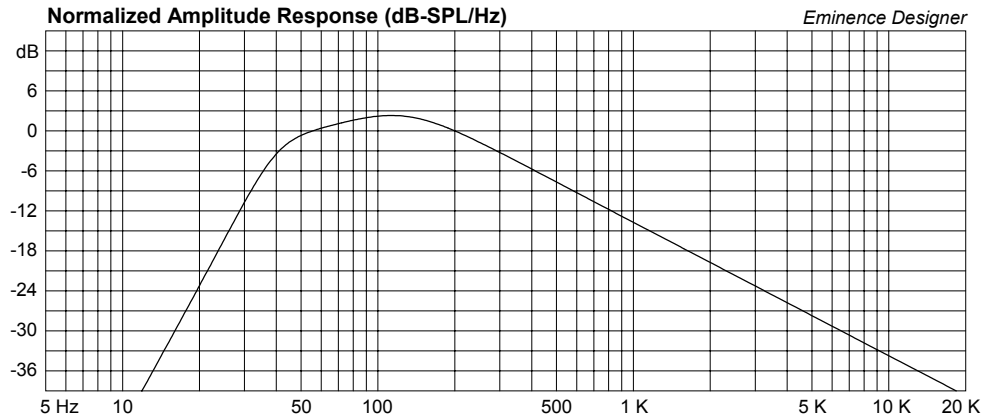
Qes = 0.36

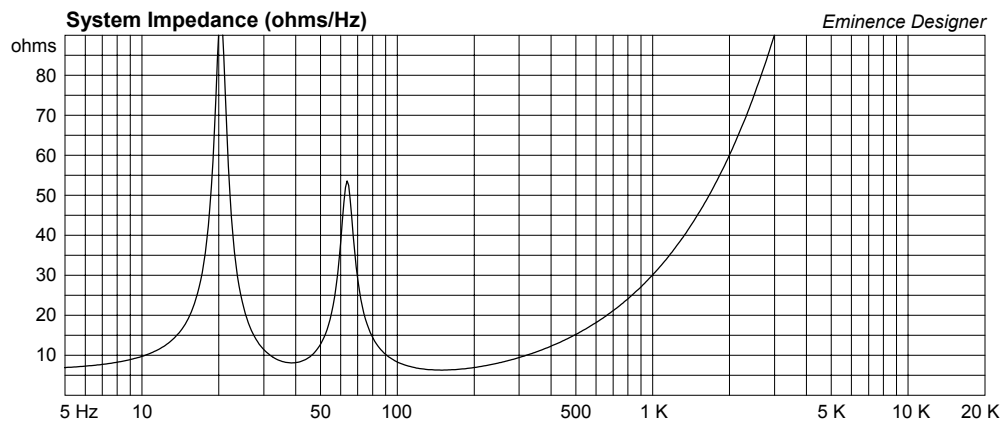
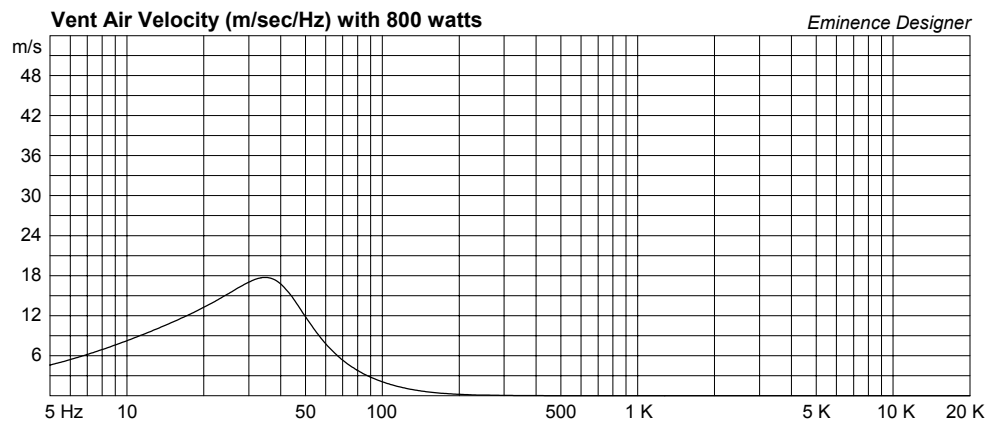
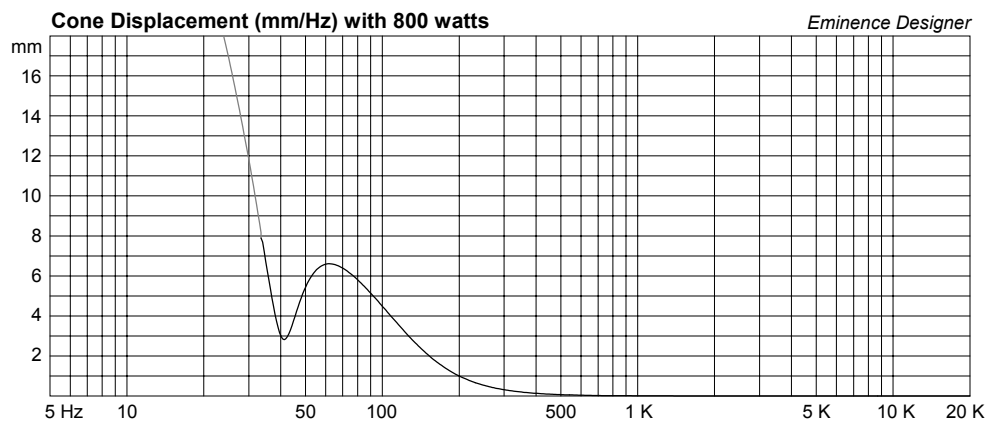
Re = 6.19 ohms

Le = 4.78 mH

Z = 8 ohms

Pe = 800 watts





DefiniMax 4018LF Small PA Sub or Bass Guitar Bottom

By Jerry McNutt, Eminence Speaker LLC

Thermally Limited to 800 Watts; F3 of 45 Hz. Use a steep high pass filter set to 35 Hz.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 3.85 cu.ft

V(total) = 4.591 cu.ft

Fb = 45 Hz

QL = 7

F3 = 44.46 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 12.42 in

Driver Properties

--Description--

Name:

Type: Standard one-way driver

Comment: New Driver For 2006

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 31.78 Hz

Qms = 10.38

Vas = 237.9 liters

Xmax = 7.9 mm

Sd = 1188 sq.cm

Qes = 0.36

Re = 6.19 ohms

Le = 4.78 mH

Z = 8 ohms

Pe = 800 watts

