

Specification

Nominal Basket Diameter	12", 305mm
Nominal Impedance*	8 ohms
Power Rating**	
Watts	450W
Music Program	900W
Resonance	37Hz
Usable Frequency Range***	46Hz-2.0kHz
Sensitivity	95.5
Magnet Weight	11 oz.
Gap Height	0.365", 9.27mm
Voice Coil Diameter	3", 76.2mm

Thiele & Small Parameters

Resonant Frequency (fs)	37.02Hz
DC Resistance (Re)	5.6
Coil Inductance (Le)	0.98mH
Mechanical Q (Qms)	6.94
Electromagnetic Q (Qes)	0.34
Total Q (Qts)	0.32
Compliance Equivalent Volume (Vas)	106.65 liters / 3.77 cu.ft.
Peak Diaphragm Displacement Volume (Vd)	496cc
Mechanical Compliance of Suspension (Cms)	0.26mm/N
BL Product (BL)	16.7 T-M
Diaphragm Mass inc. Airlod (Mms)	72.4 grams
Efficiency Bandwidth Product (EBP)	109.7
Maximum Linear Excursion (Xmax)	9.1mm
Surface Area of Cone (Sd)	545.4 cm ²
Maximum Mechanical Limit (Xlim)	14.5mm

Mounting Information

Recommended Enclosure Volume	
Sealed	23-59 liters/1.3-3.0 cu.ft
Vented	37-85 liters/1.3-3.0 cu.ft.
Overall Diameter	12.38", 314.45mm
Baffle Hole Diameter	11.06", 280.9mm
Front Sealing Gasket	fitted as standard
Rear Sealing Gasket	fitted as standard
Mounting Holes Diameter	0.28", 7.1mm
Mounting Holes B.C.D.	11.62", 295.2mm
Depth	6.00", 152.4mm
Net Weight	7.6 lbs., 3.45 kg
Shipping Weight	9.2 lbs., 4.17 kg

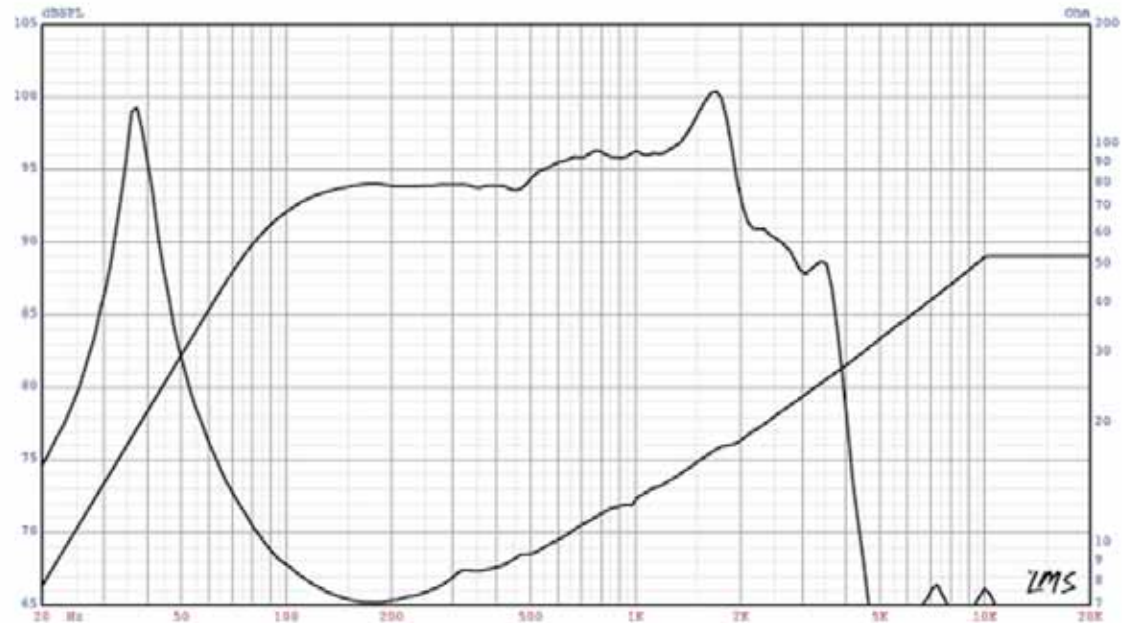
Materials of Construction

Copper Voice coil
 Kapton former
 Neodymium magnet
 Vented core
 Die-cast aluminum basket
 Treated Paper Cone
 Sealed Cloth Edge
 Treated paper dust cap



KAPPALITE™ 3012LF Neodymium

Recommended for professional audio and bass in a vented enclosure.



* Please inquire about alternative impedances.

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

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

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 | 2ft. X 2ft. 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)

KappaLite 3012LF Large Sealed Design

By Jerry McNutt, Eminence Speaker LLC

Limit power to 375 Watts; F3 at 92 Hz. High pass at 95-100 for high power use. Great for a floor wedge.



Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 1.998 cu.ft

V(total) = 1.998 cu.ft

Qtc = 0.497

QL = 20

F3 = 92.15 Hz

Fill = normal

Driver Properties

--Description--

Name: KappaLite 3012LFA

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Cast Neo Driver

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 37.02 Hz

Qms = 6.94

Vas = 3.766 cu.ft

Xmax = 0.358 in

Sd = 84.54 sq.in

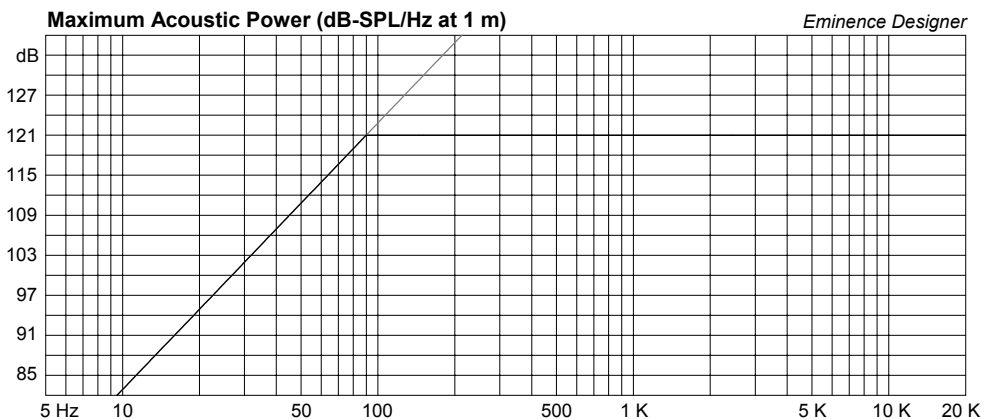
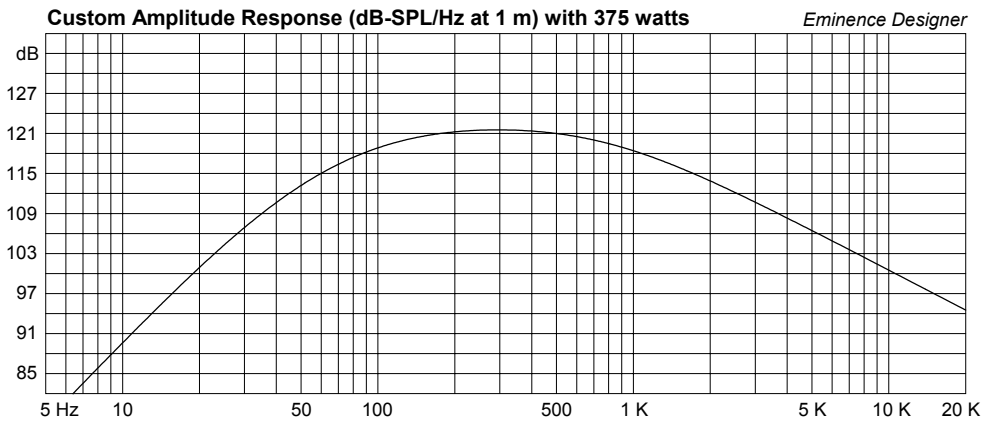
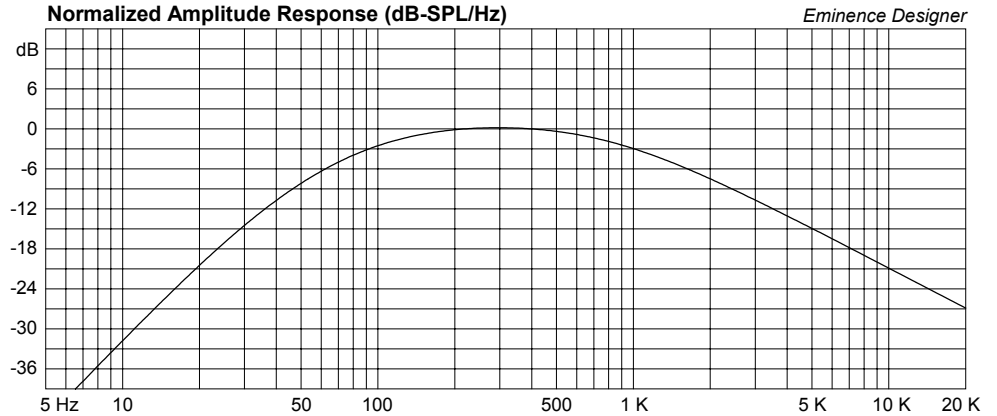
Qes = 0.34

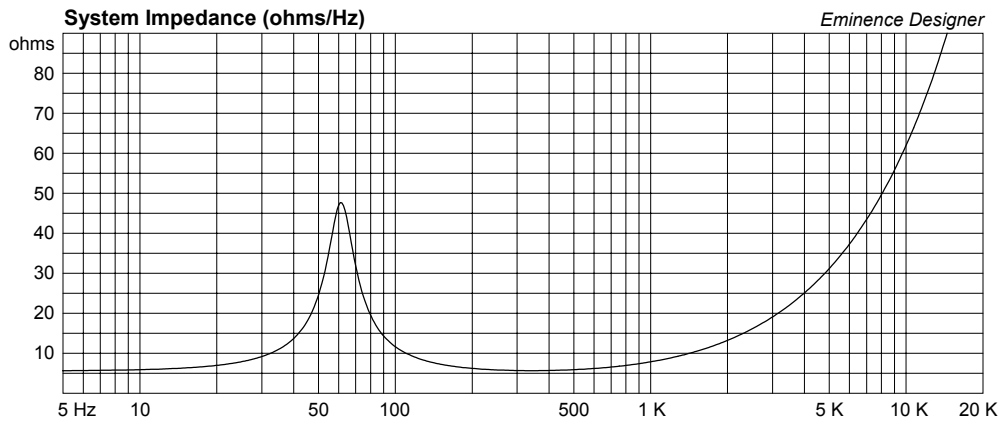
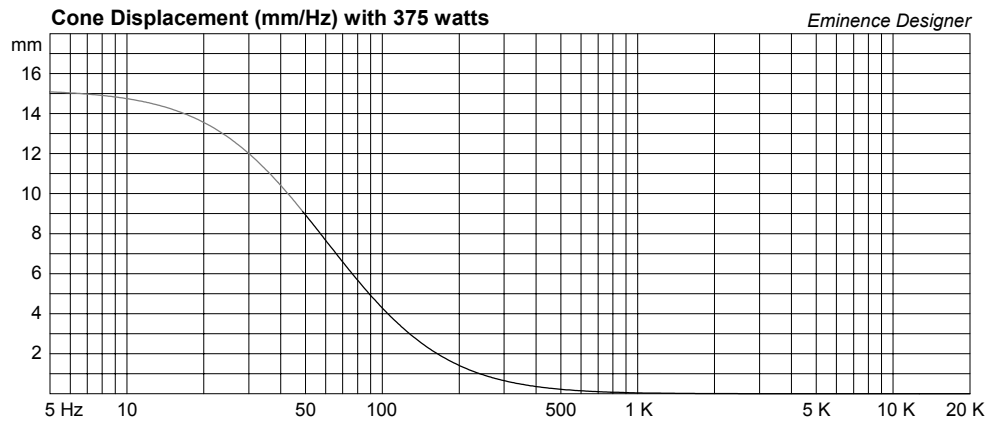
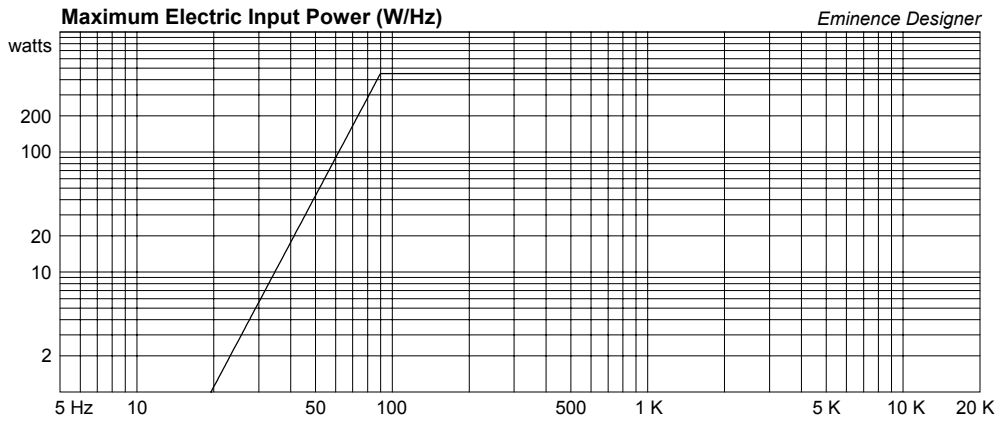
Re = 5.59 ohms

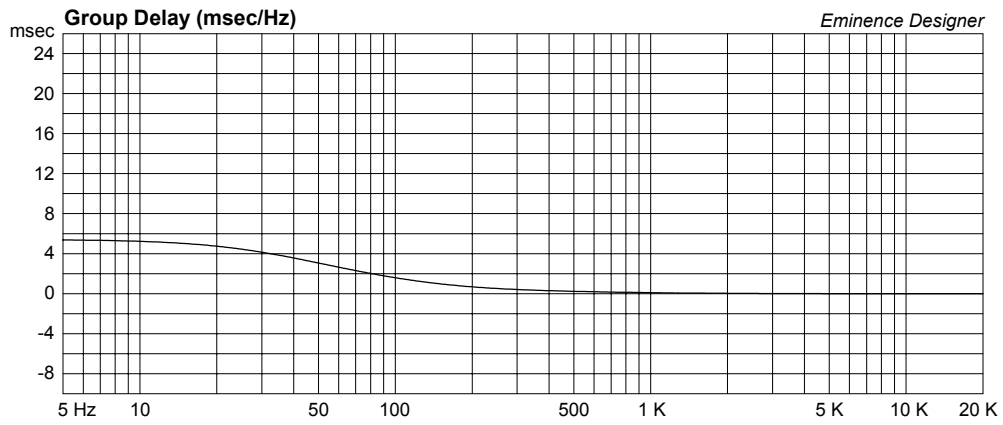
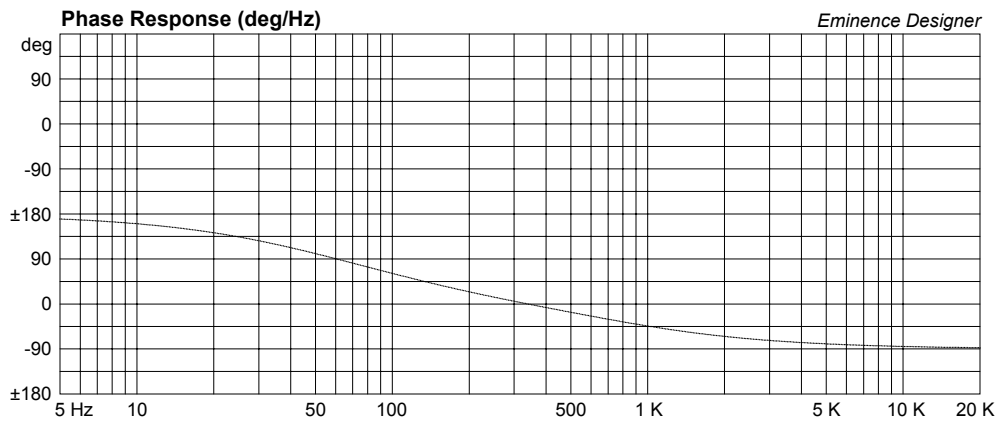
Le = 0.98 mH

Z = 8 ohms

Pe = 450 watts







KappaLite 3012LF Small Sealed Design

By Jerry McNutt, Eminence Speaker LLC

Limit power to 375 Watts; F3 at 90 Hz. High pass at 95-100 for high power use. Great for a floor wedge.



Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 0.899 cu.ft

V(total) = 0.899 cu.ft

Qtc = 0.647

QL = 19.97

F3 = 89.83 Hz

Fill = normal

Driver Properties

--Description--

Name: KappaLite 3012LFA

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Cast Neo Driver

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 37.02 Hz

Qms = 6.94

Vas = 3.766 cu.ft

Xmax = 0.358 in

Sd = 84.54 sq.in

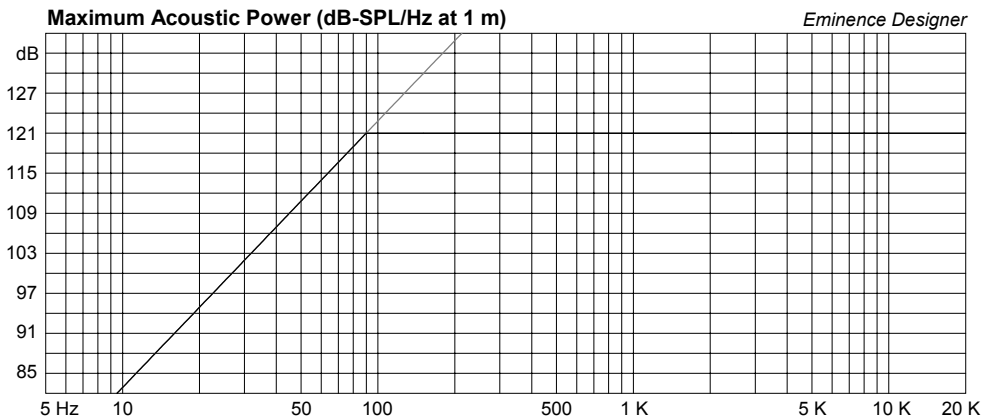
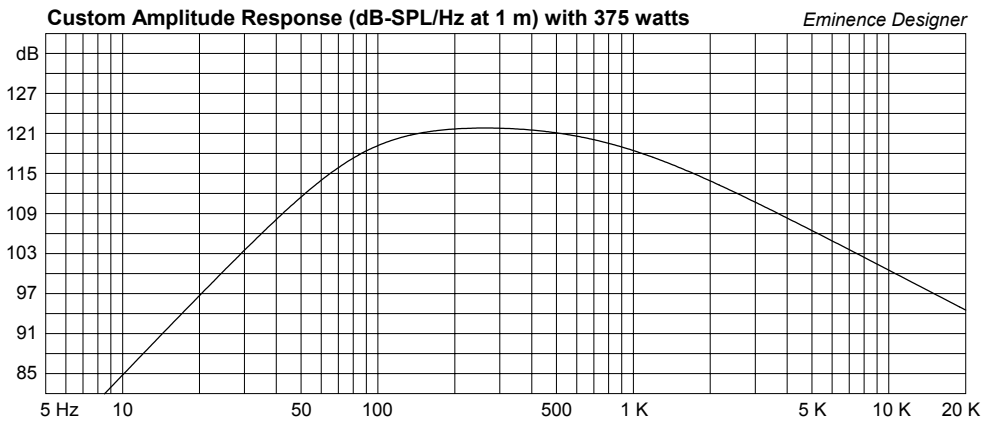
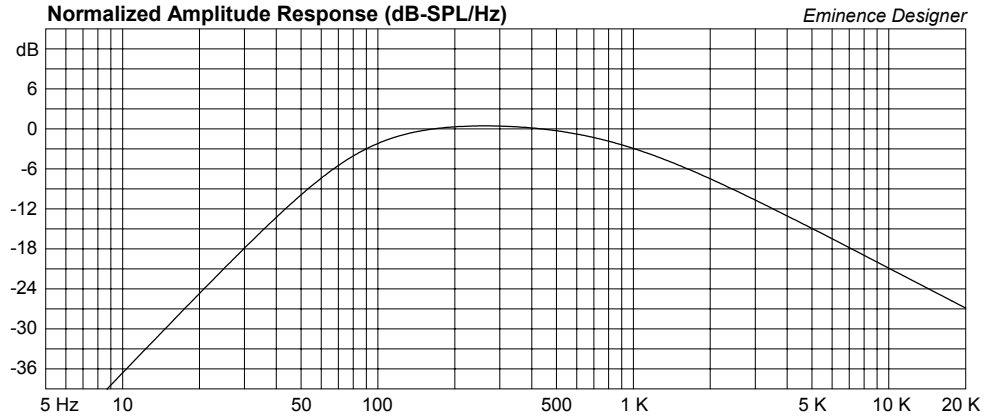
Qes = 0.34

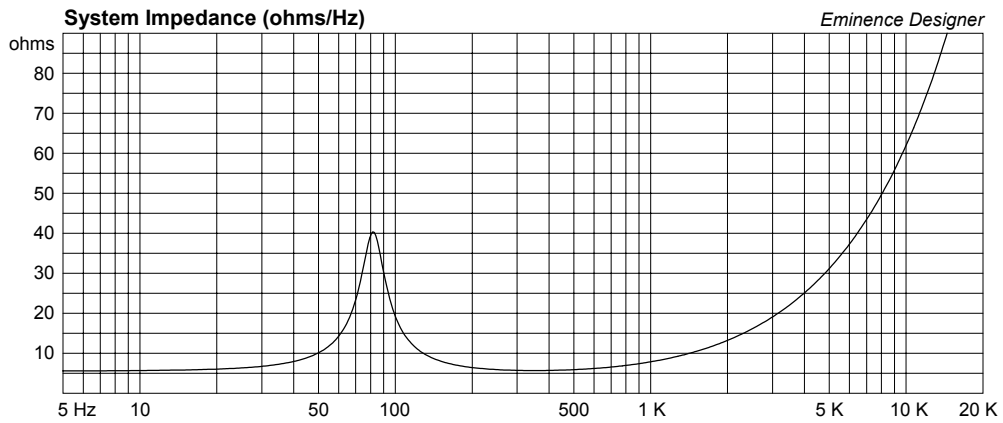
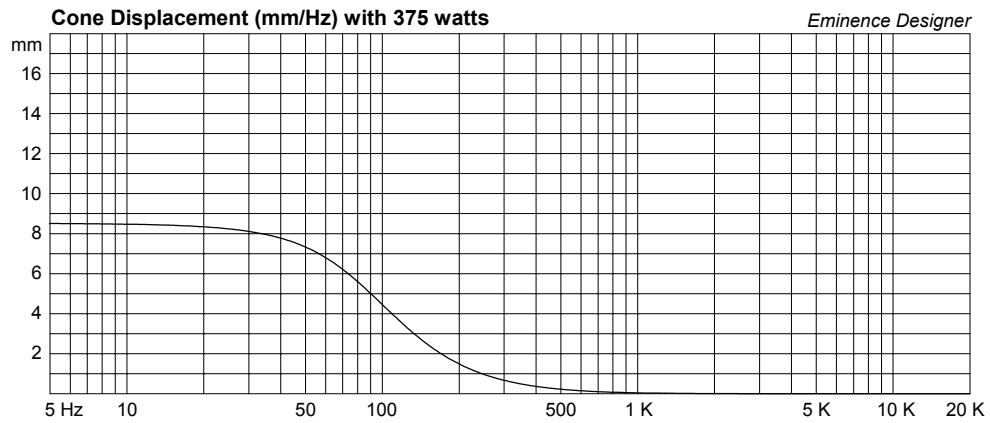
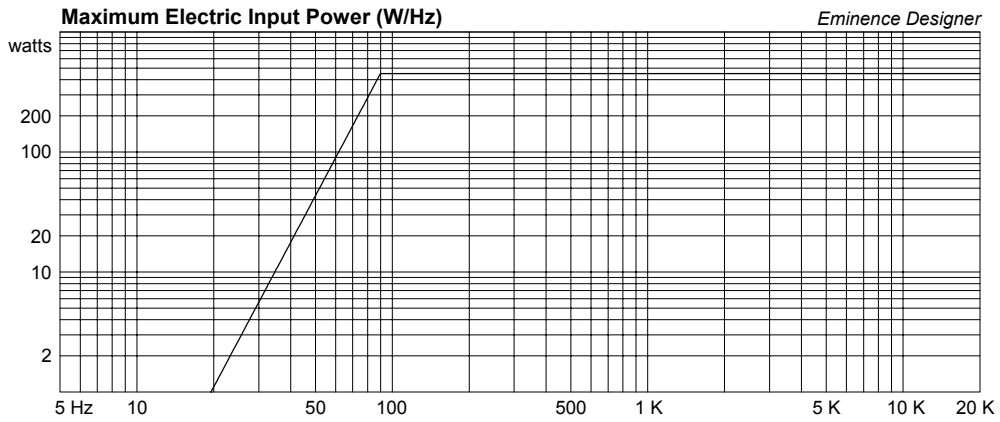
Re = 5.59 ohms

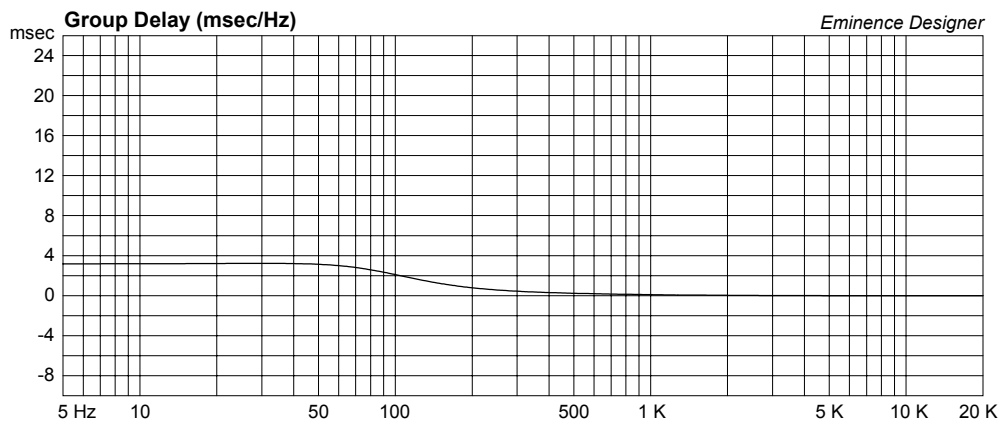
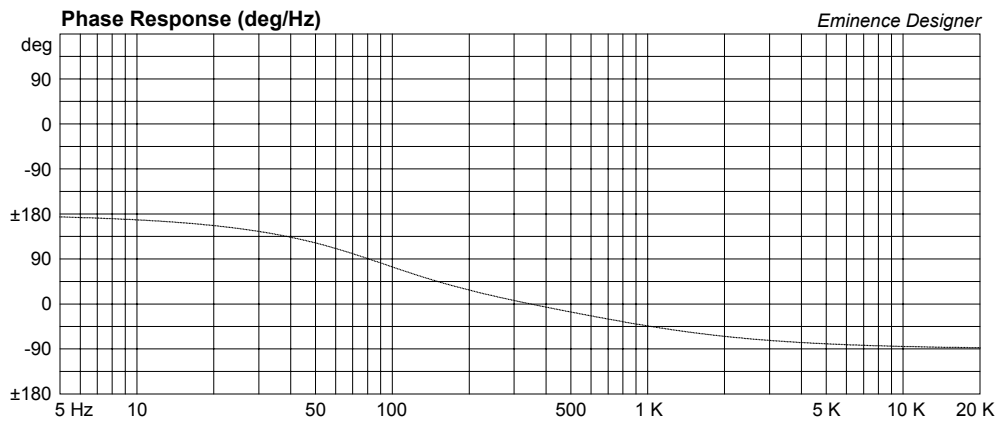
Le = 0.98 mH

Z = 8 ohms

Pe = 450 watts







KappaLite 3012LF Med Vented Design

By Jerry McNutt, Eminence Speaker LLC
400 Watts; F3 of 55 Hz, F10 of 37 Hz. High pass at 30 Hz.
Great for small PA Sub or Bass Guitar Cabinet Bottom



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 1.6 cu.ft

V(total) = 1.859 cu.ft

Fb = 44 Hz

QL = 7

F3 = 54.5 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 3.25 in

Lv = 11.15 in

Driver Properties

--Description--

Name: KappaLite 3012LFA

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Cast Neo Driver

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 37.02 Hz

Qms = 6.94

Vas = 3.766 cu.ft

Xmax = 0.358 in

Sd = 84.54 sq.in

Qes = 0.34

Re = 5.59 ohms

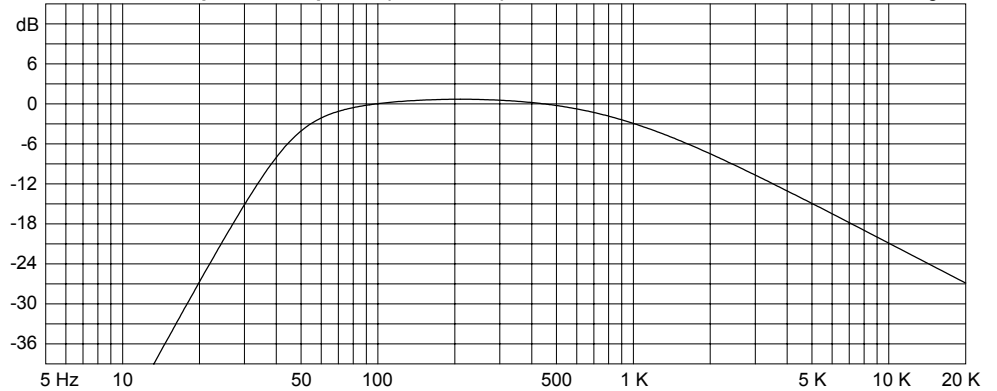
Le = 0.98 mH

Z = 8 ohms

Pe = 450 watts

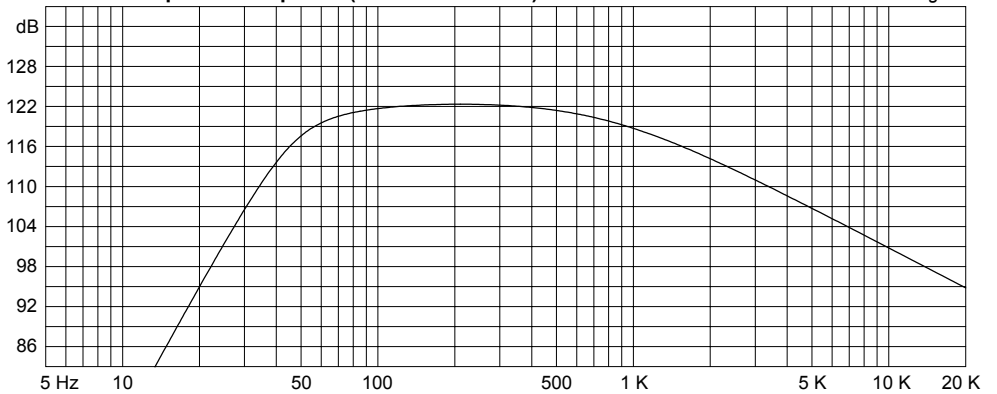
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



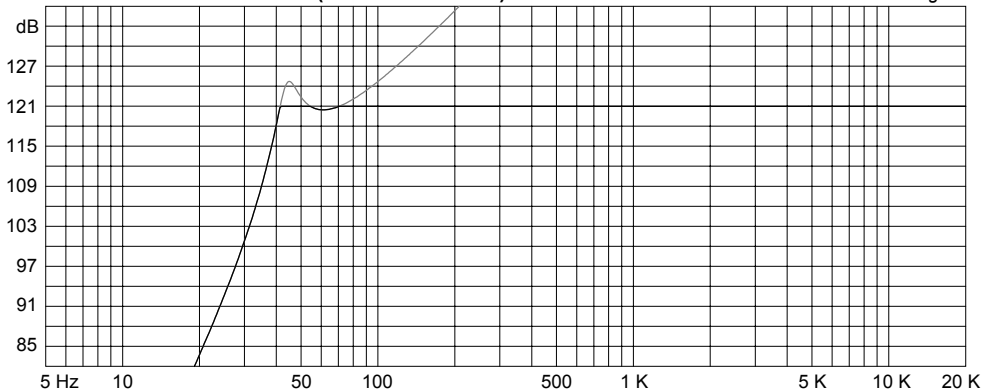
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 400 watts

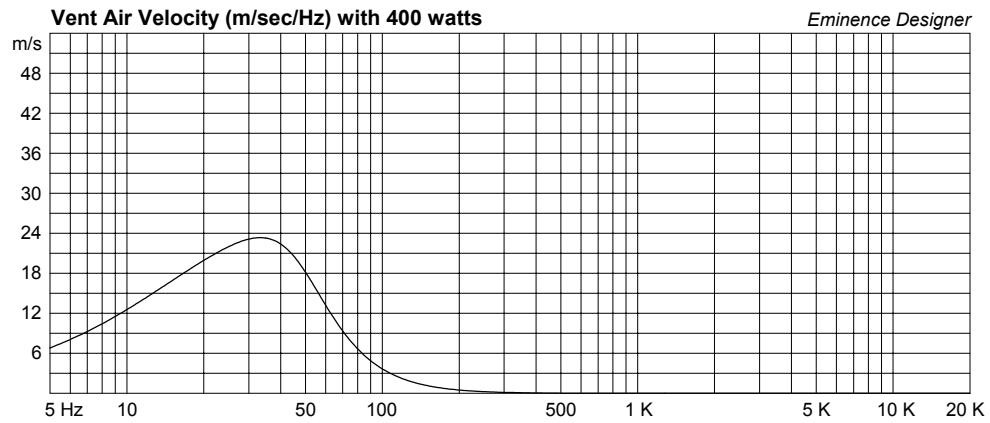
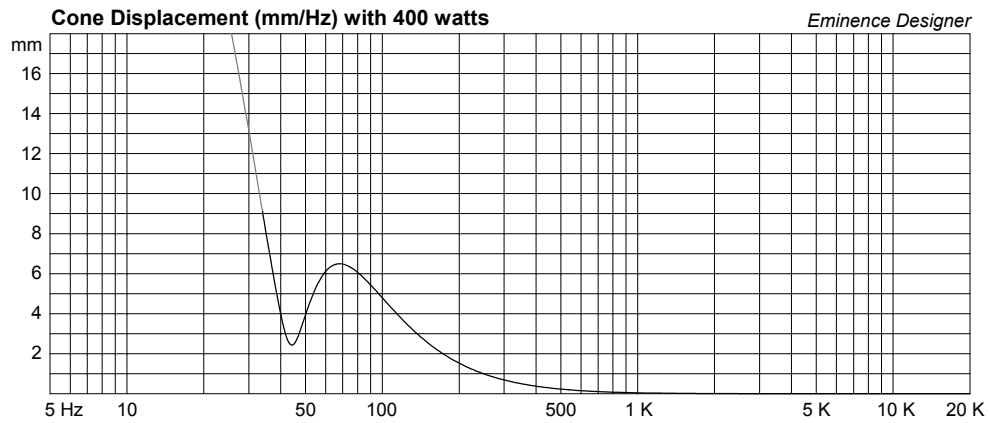
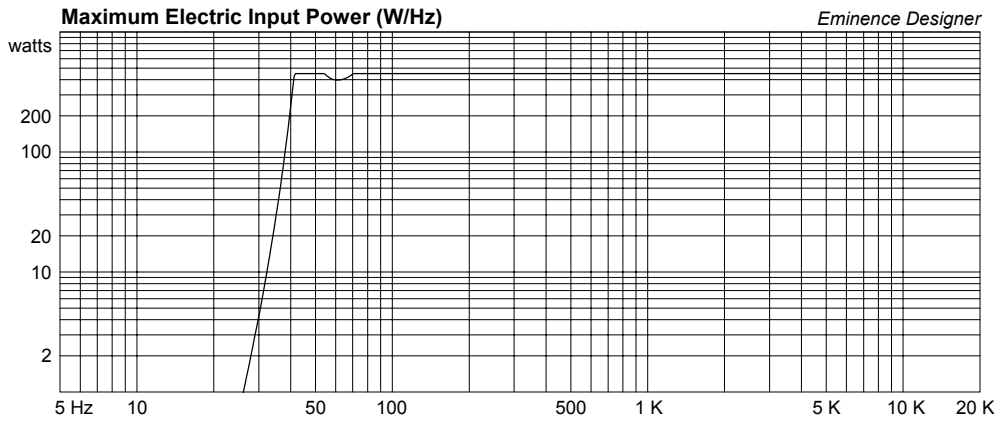
Eminence Designer

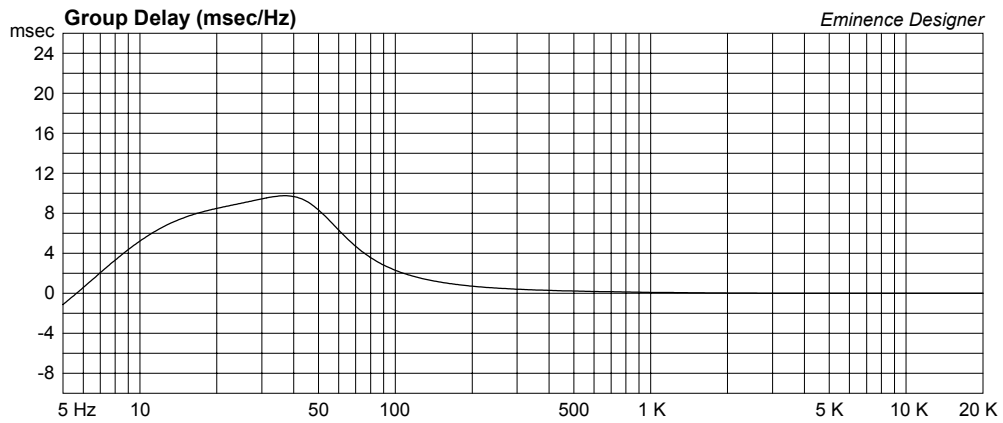
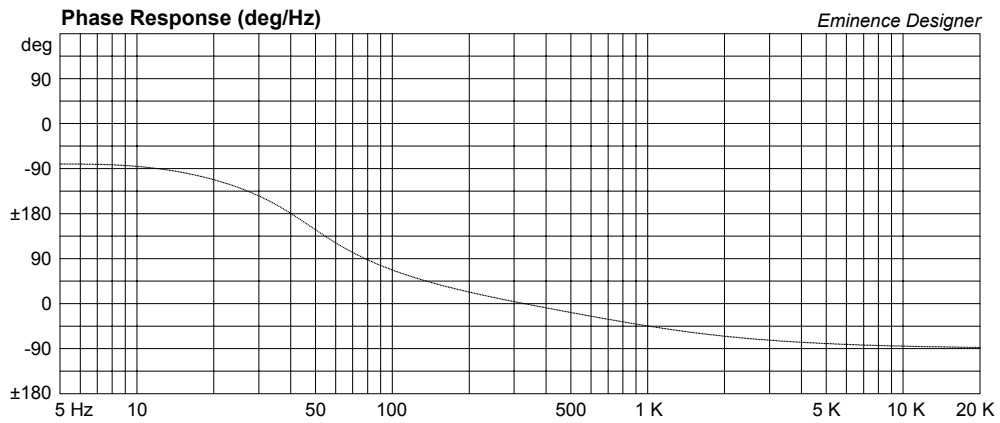
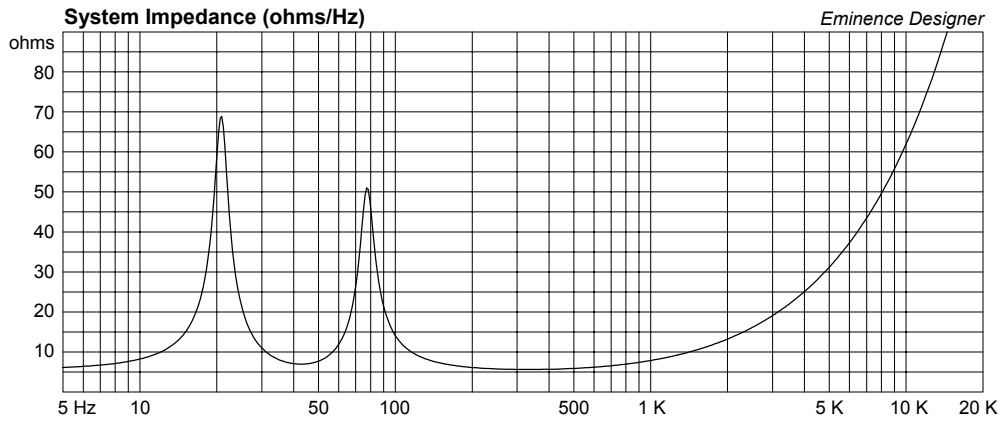


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







KappaLite 3012LF Large Vented Design

By Jerry McNutt, Eminence Speaker LLC

400 Watts; F3 of 46 Hz, F10 of 35 Hz. High pass at 30 Hz.

Great for small PA Sub or Bass Guitar Cabinet Bottom



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 2.4 cu.ft

V(total) = 2.705 cu.ft

Fb = 44 Hz

QL = 7

F3 = 45.13 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 10.4 in

Driver Properties

--Description--

Name: KappaLite 3012LFA

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Cast Neo Driver

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 37.02 Hz

Qms = 6.94

Vas = 3.766 cu.ft

Xmax = 0.358 in

Sd = 84.54 sq.in

Qes = 0.34

Re = 5.59 ohms

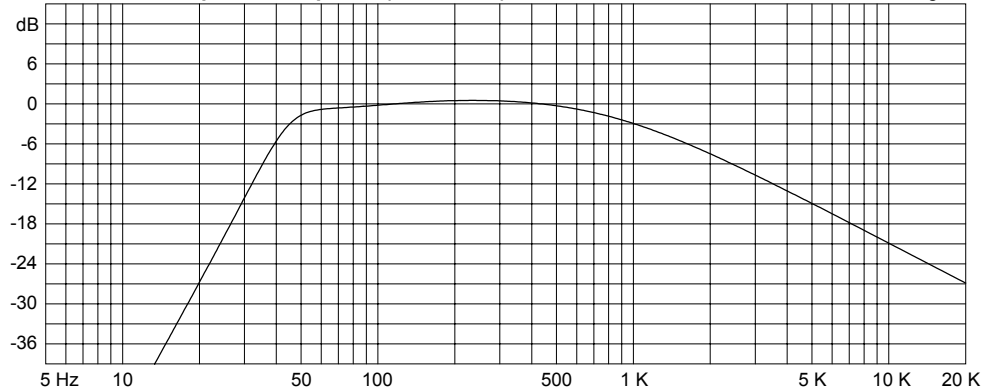
Le = 0.98 mH

Z = 8 ohms

Pe = 450 watts

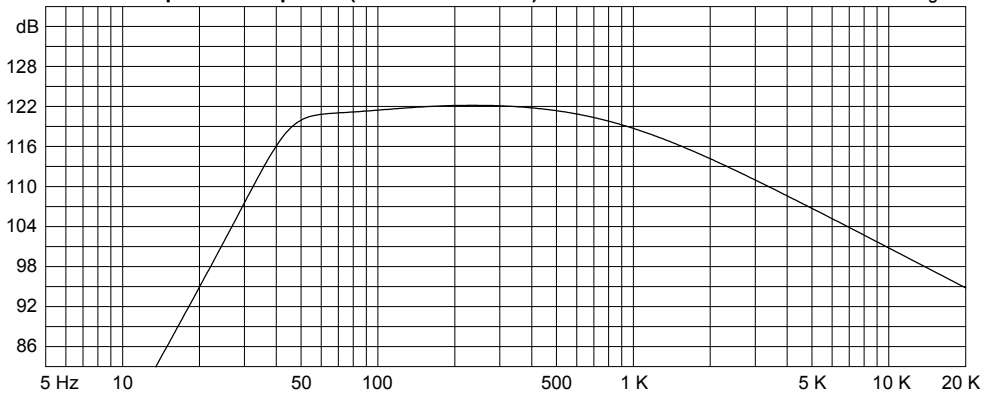
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



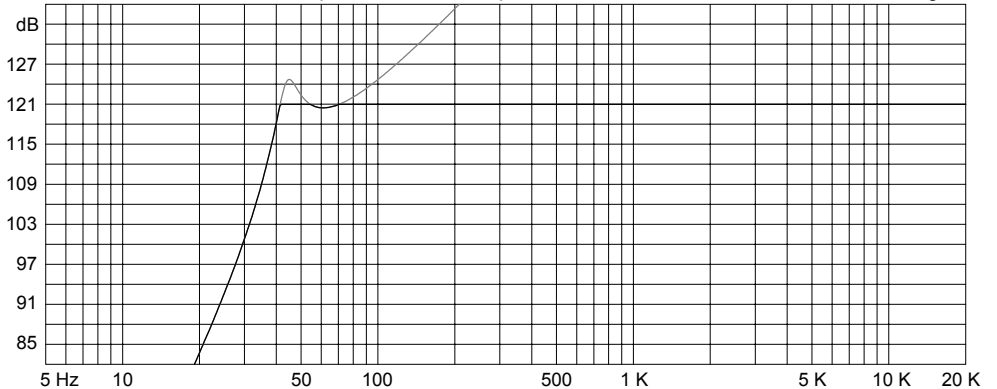
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 400 watts

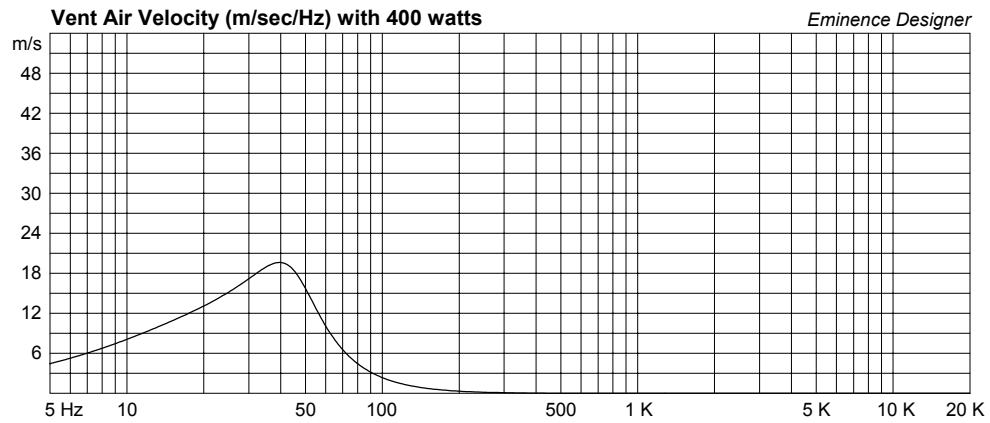
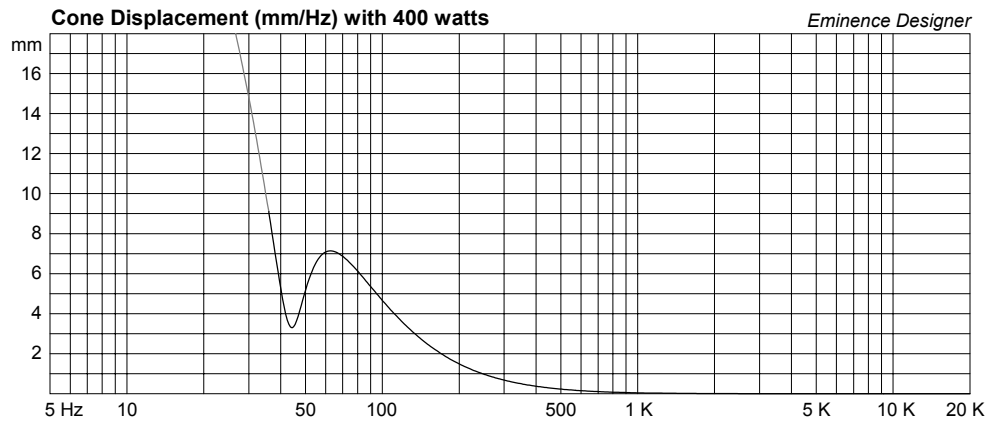
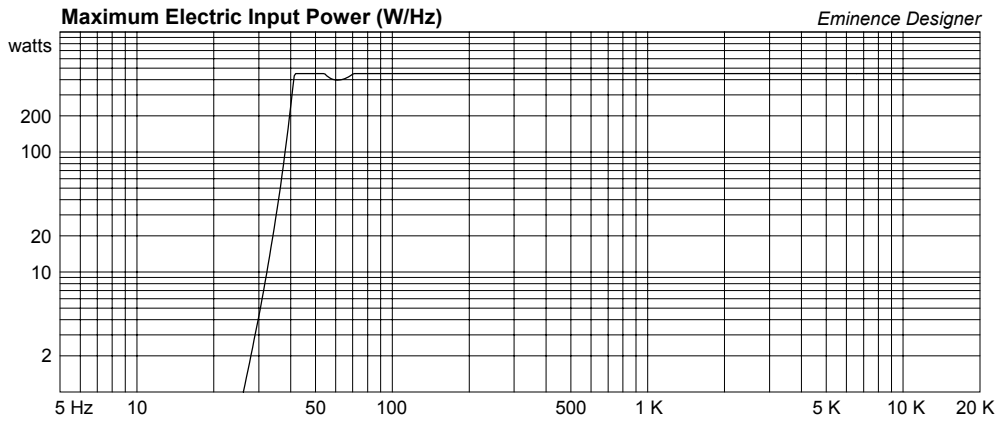
Eminence Designer

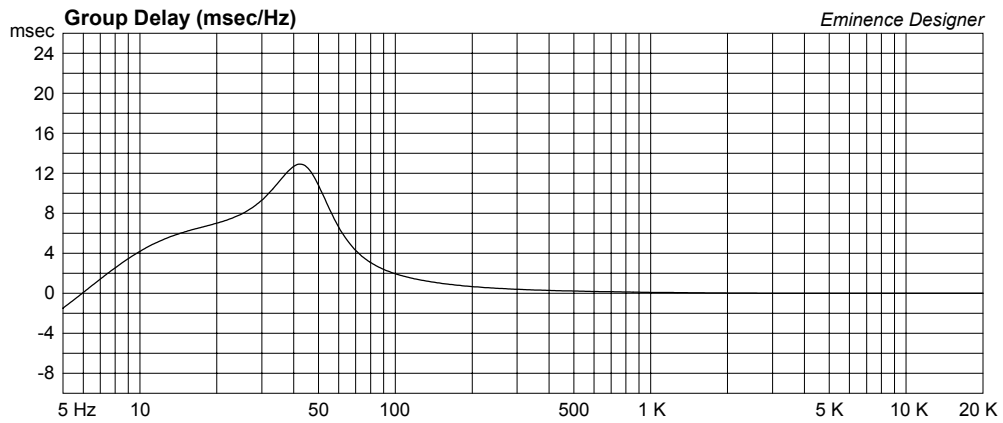
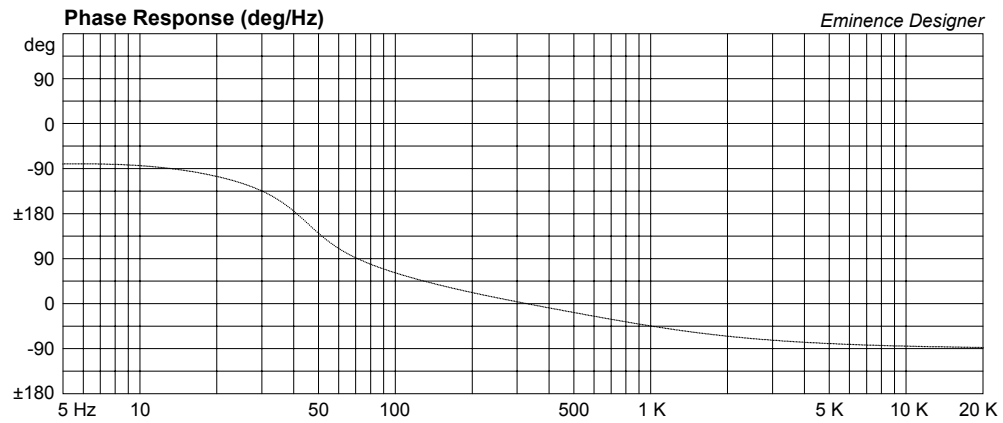
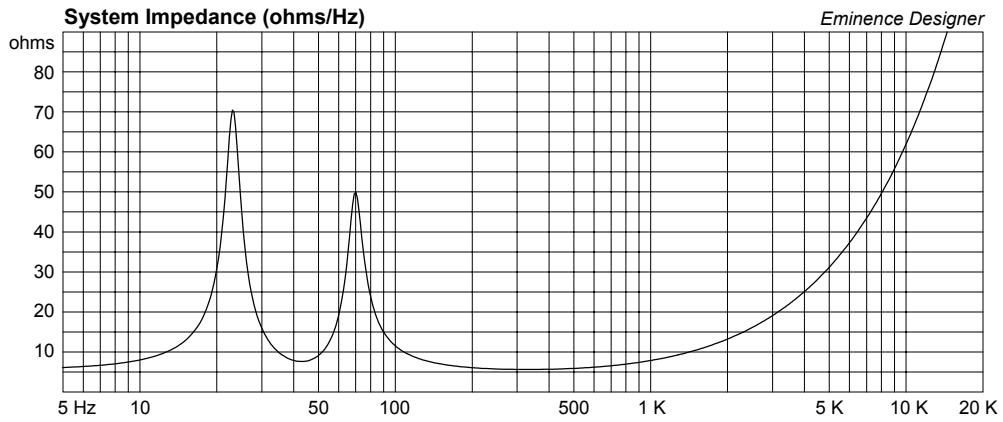


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







KappaLite 3012LF Small Vented Design

By Jerry McNutt, Eminence Speaker LLC
450 Thermal Limit; F3 of 63 Hz, F10 of 43 Hz. High pass at 35 Hz.
Great for high power floor wedge or woofer box.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 1.1 cu.ft

V(total) = 1.339 cu.ft

Fb = 50 Hz

QL = 7

F3 = 62.36 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 10.84 in

Driver Properties

--Description--

Name: KappaLite 3012LFA

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Cast Neo Driver

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 37.02 Hz

Qms = 6.94

Vas = 3.766 cu.ft

Xmax = 0.358 in

Sd = 84.54 sq.in

Qes = 0.34

Re = 5.59 ohms

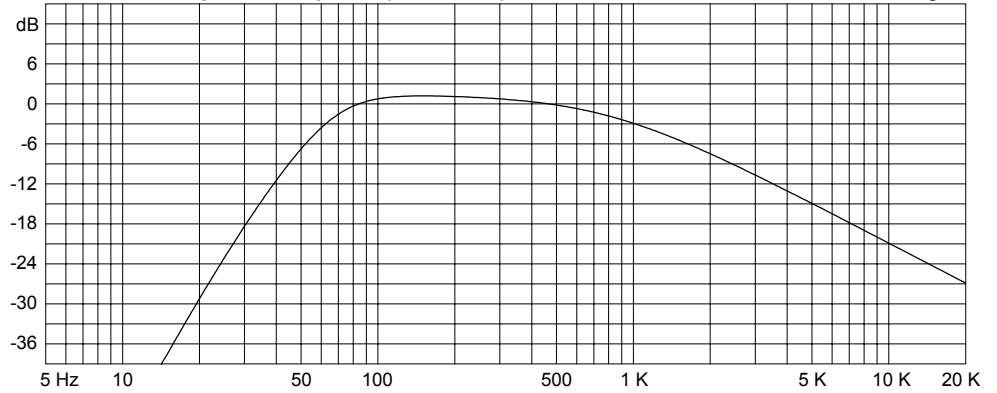
Le = 0.98 mH

Z = 8 ohms

Pe = 450 watts

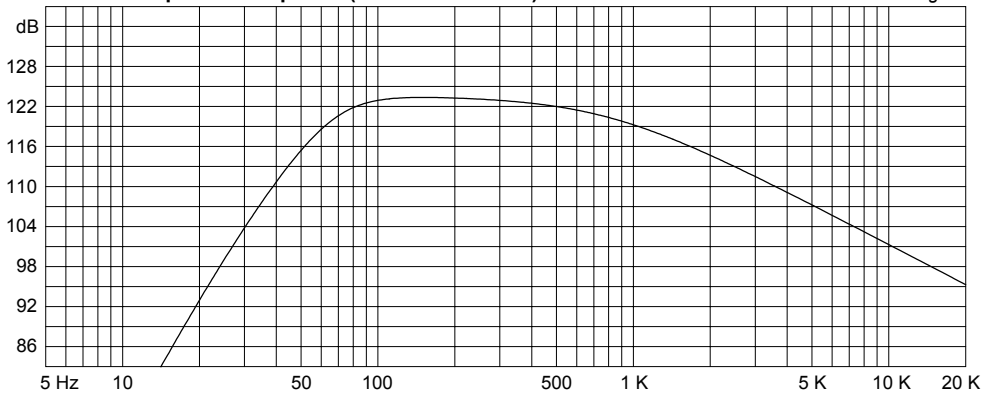
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 450 watts

Eminence Designer



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

Eminence Designer

