

Specification

Nominal Basket Diameter	12", 305mm
Nominal Impedance*	8 ohms
Power Rating**	
Watts	400W
Music Program	800W
Resonance	52Hz
Usable Frequency Range***	51Hz-3.5kHz
Sensitivity	100.5
Magnet Weight	11 oz.
Gap Height	0.365", 9.27mm
Voice Coil Diameter	3", 76.2mm

Thiele & Small Parameters

Resonant Frequency (fs)	51.5Hz
DC Resistance (Re)	5.5
Coil Inductance (Le)	0.98mH
Mechanical Q (Qms)	6.94
Electromagnetic Q (Qes)	0.33
Total Q (Qts)	0.32
Compliance Equivalent Volume (Vas)	81.10 liters / 2.86 cu.ft.
Peak Diaphragm Displacement Volume (Vd)	330cc
Mechanical Compliance of Suspension (Cms)	0.20mm/N
BL Product (BL)	15.9 T-M
Diaphragm Mass inc. Airlod (Mms)	46.9 grams
Efficiency Bandwidth Product (EBP)	157.4
Maximum Linear Excursion (Xmax)	6.2mm
Surface Area of Cone (Sd)	532.4 cm ²
Maximum Mechanical Limit (Xlim)	12.5mm

Mounting Information

Recommended Enclosure Volume	
Sealed	28-76 liters/1.0-2.7 cu.ft.
Vented	41-110 liters/1.5-3.9 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	5.63", 143mm
Net Weight	7.1 lbs., 3.22 kg
Shipping Weight	8.7 lbs., 3.95 kg

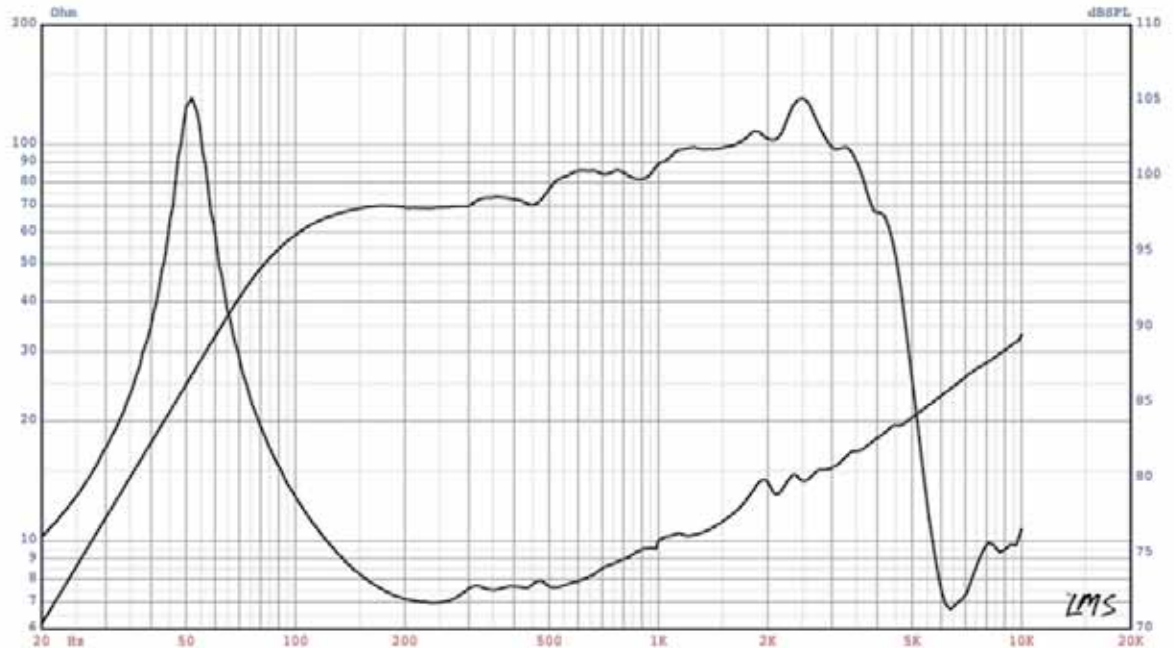
Materials of Construction

Aluminum voice coil
 Kapton Former
 Neodymium magnet
 Vented core
 Die-cast aluminum basket
 Treated Paper Cone
 Sealed Cloth Surround
 Treated paper dust cap



KAPPALITE™ 3012HO Neodymium

Recommended for vented professional audio enclosures for full-range or as mids.



* 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 3012HO Large Sealed Midbass Cabinet

By Jerry McNutt, Eminence Speaker LLC

Limit to 325 Watts; F3 of 144 Hz. High pass at 120 Hz minimum.



Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 2.511 cu.ft

V(total) = 2.621 cu.ft

Qtc = 0.402

QL = 19.98

F3 = 144.2 Hz

Fill = heavy

Driver Properties

--Description--

Name: KappaLite3012HO

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: High Power Neo Woofer

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 51.5 Hz

Qms = 8.39

Vas = 2.864 cu.ft

Xmax = 0.244 in

Sd = 82.52 sq.in

Qes = 0.33

Re = 5.45 ohms

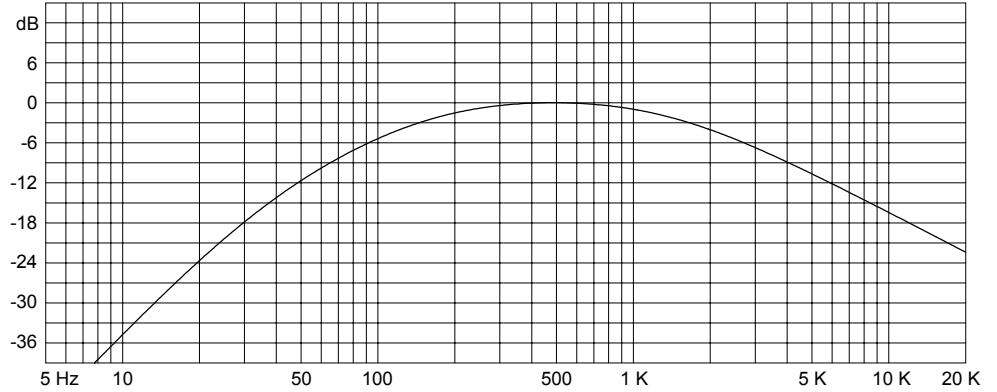
Le = 0.57 mH

Z = 8 ohms

Pe = 400 watts

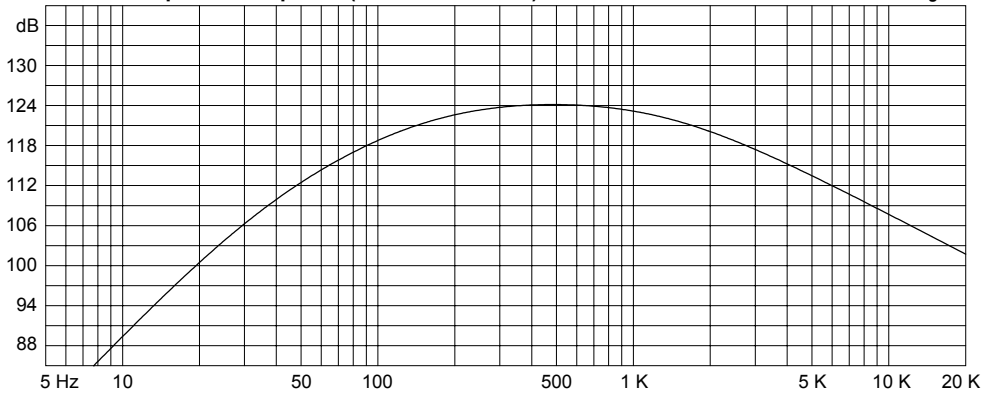
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



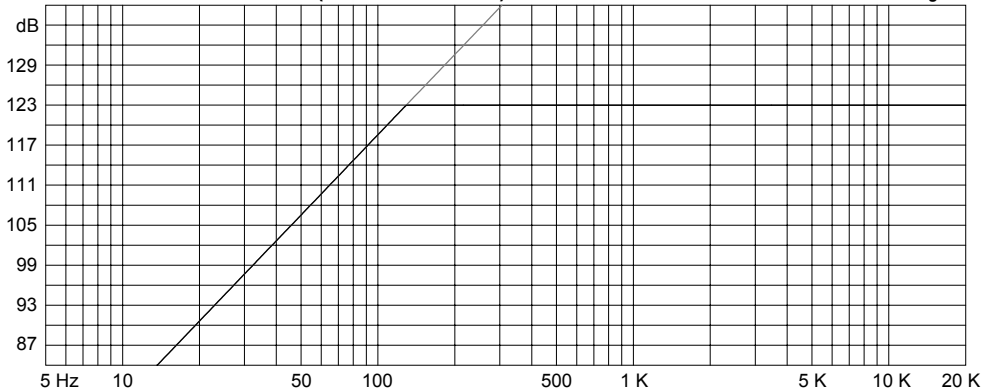
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 325 watts

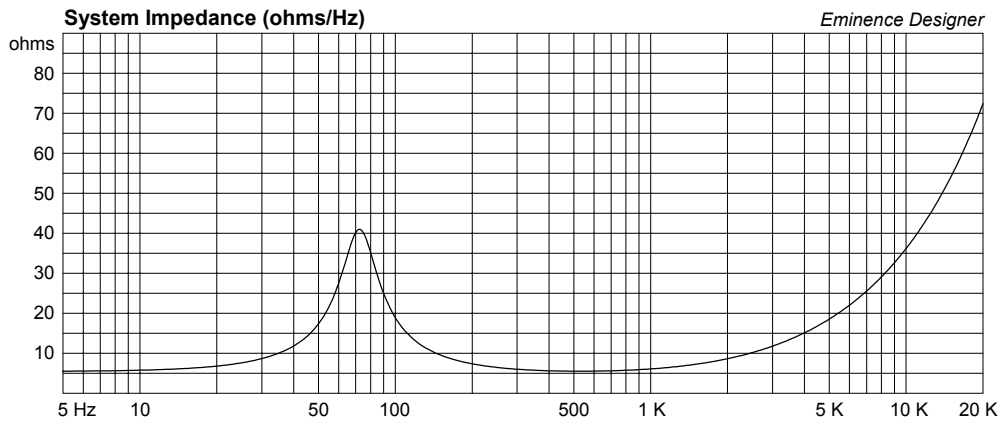
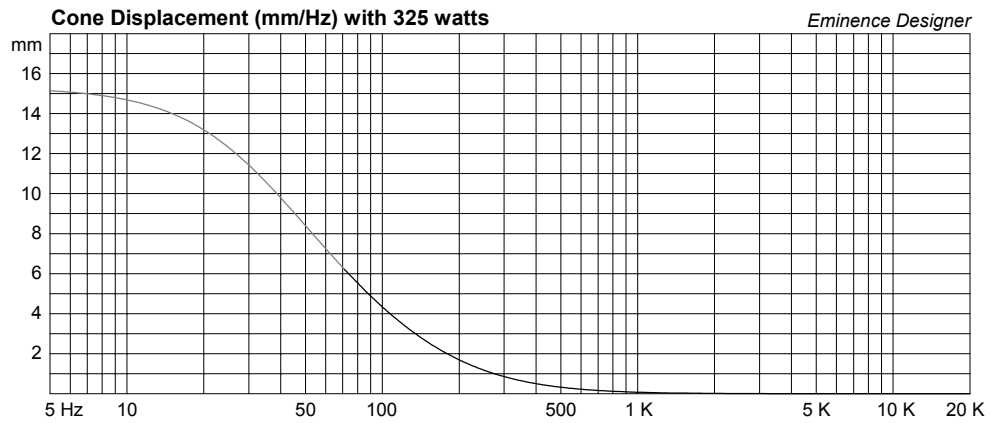
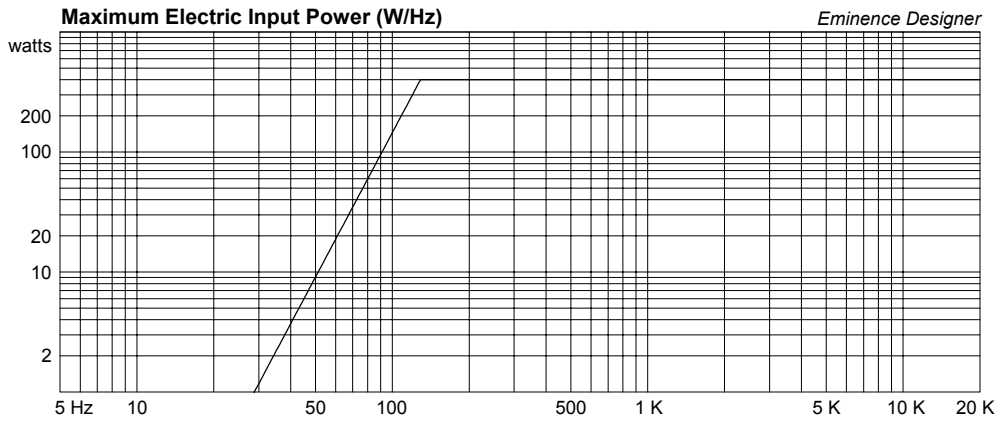
Eminence Designer

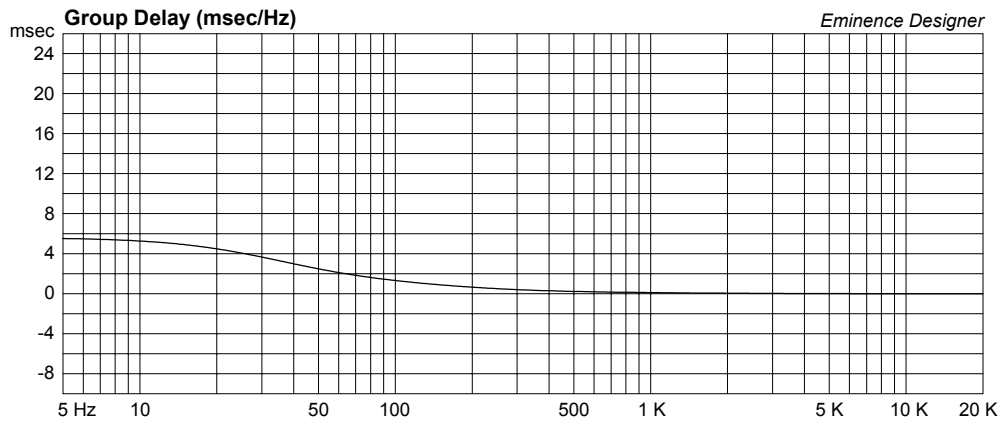
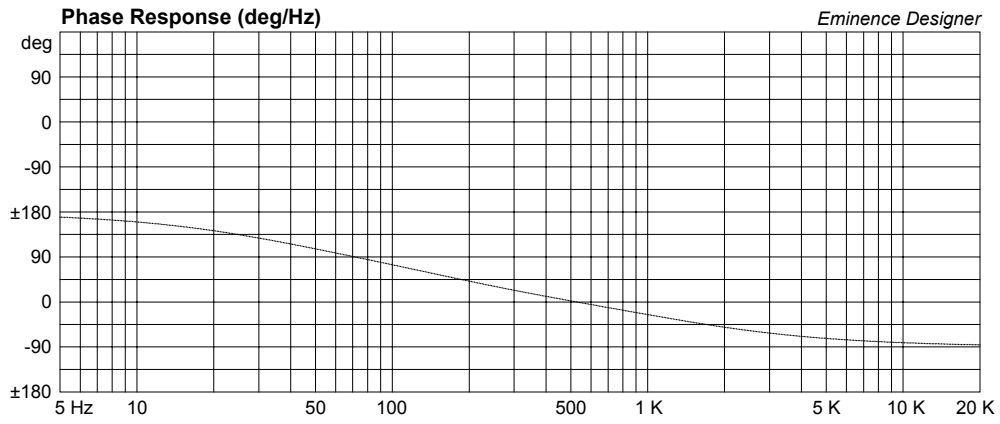


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







KappaLite 3012HO Small Vented Cabinet

By Jerry McNutt, Eminence Speaker LLC
400 Watt Thermal Limit; F3 at 88 Hz. High Pass at 70 Hz.
Great for small Sat or high power Floor Wedge.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 0.858 cu.ft

V(total) = 1.035 cu.ft

Fb = 63.93 Hz

QL = 7

F3 = 88.28 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 7.732 in

Driver Properties

--Description--

Name: KappaLite3012HO

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: High Power Neo Woofer

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 51.5 Hz

Qms = 8.39

Vas = 2.864 cu.ft

Xmax = 0.244 in

Sd = 82.52 sq.in

Qes = 0.33

Re = 5.45 ohms

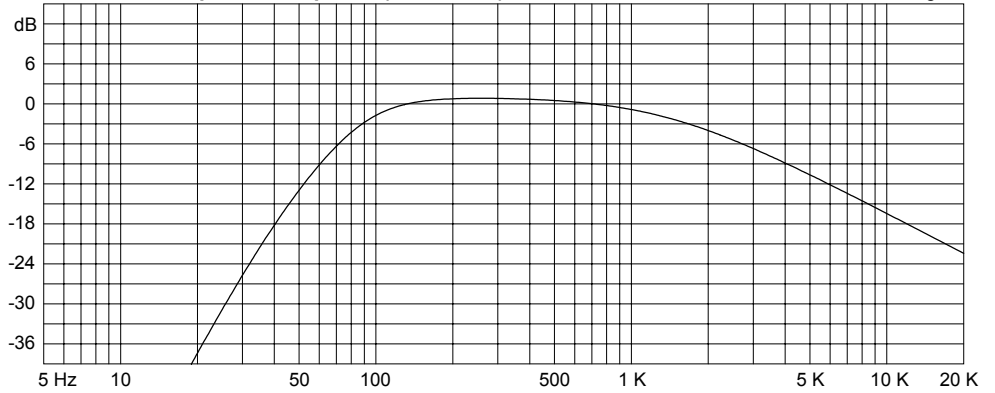
Le = 0.57 mH

Z = 8 ohms

Pe = 400 watts

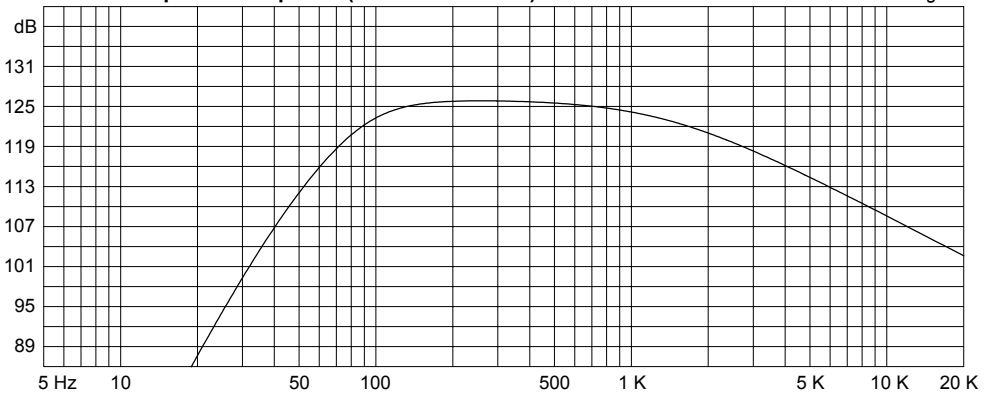
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



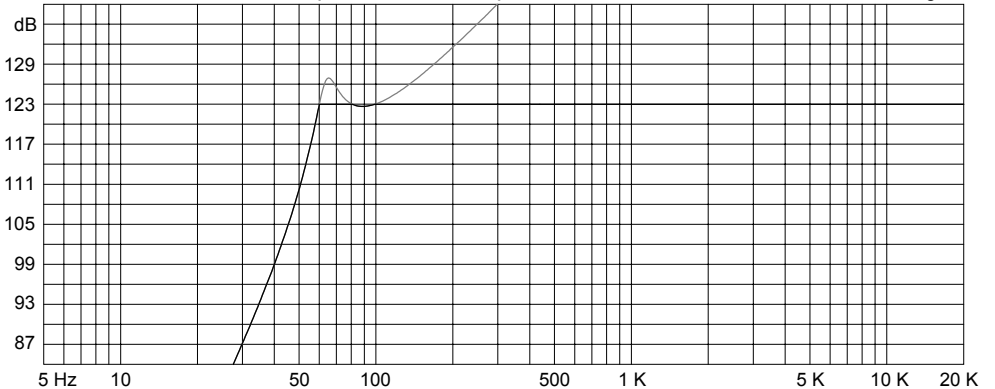
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 400 watts

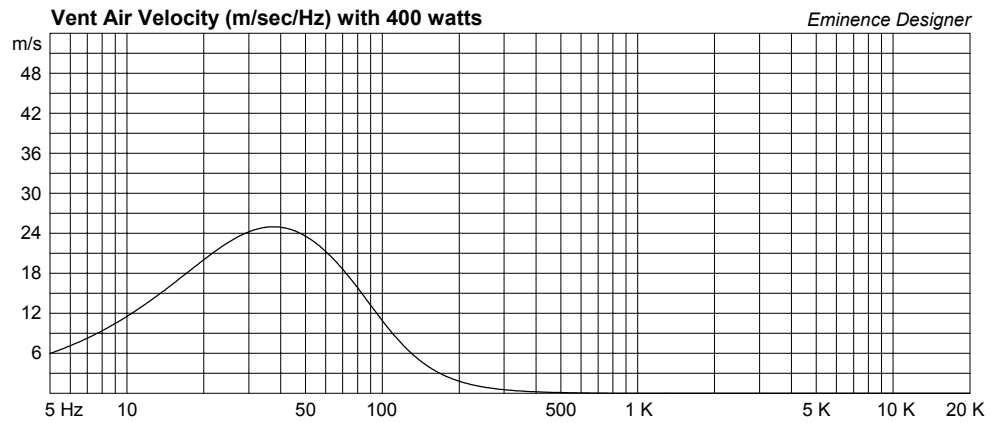
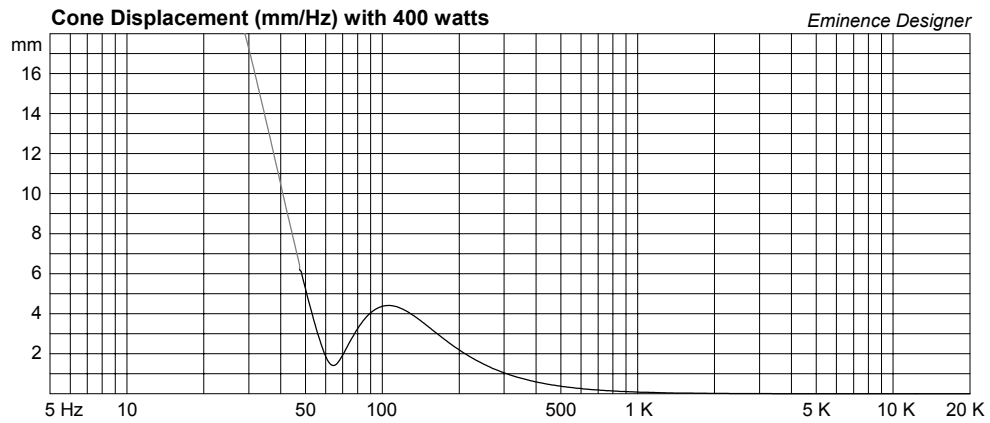
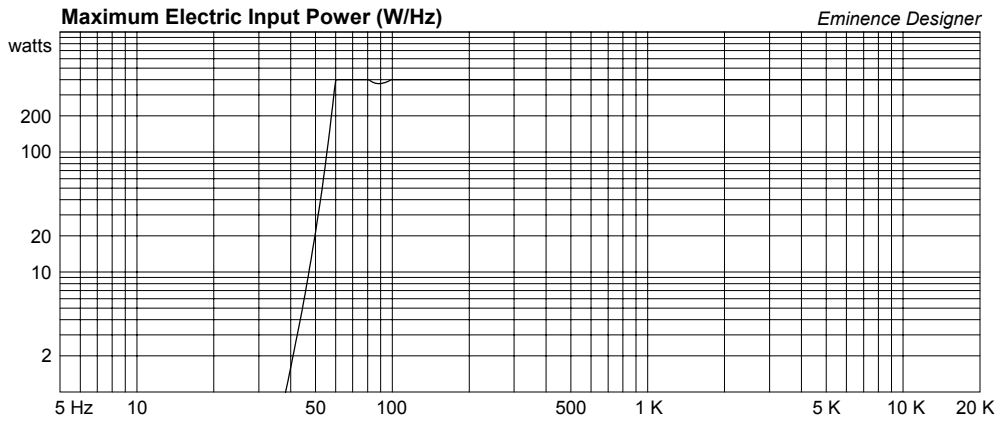
Eminence Designer

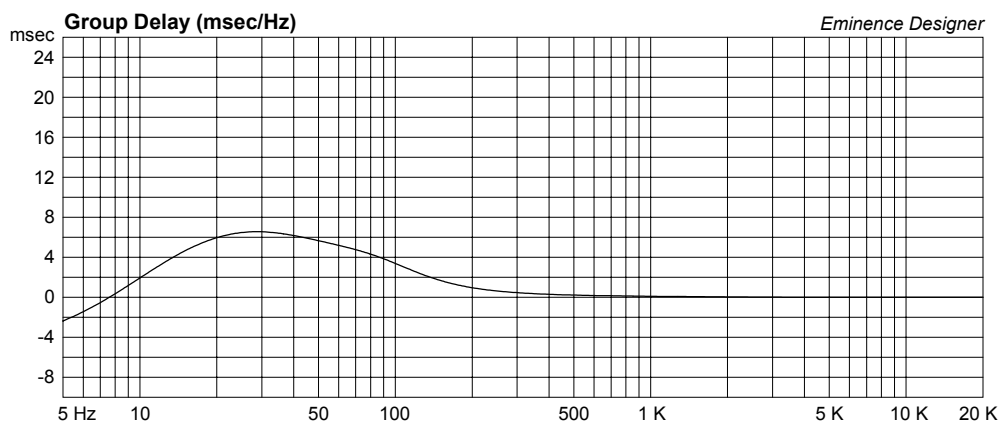
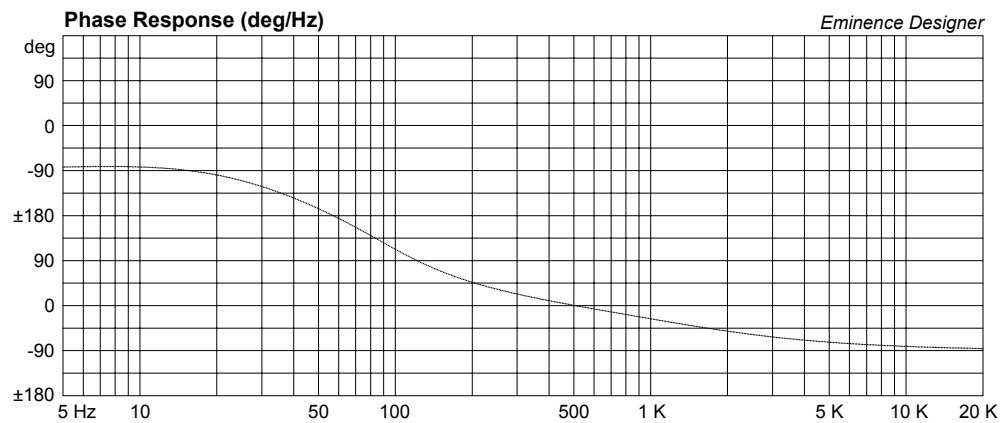
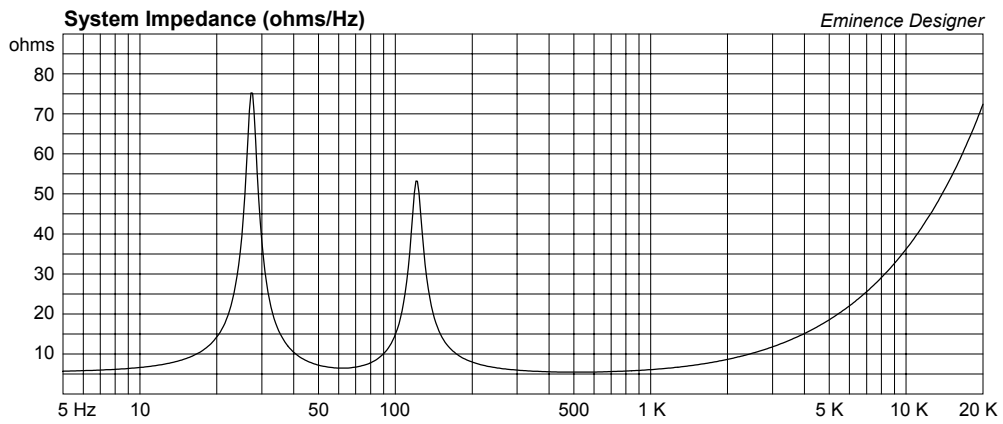


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







KappaLite 3012HO Small Sealed MidBass Cabinet

By Jerry McNutt, Eminence Speaker LLC

Limit to 325 Watts; F3 of 138. High pass at 110 Hz minimum.



Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 0.892 cu.ft

V(total) = 1.002 cu.ft

Qtc = 0.532

QL = 19.98

F3 = 138.1 Hz

Fill = heavy

Driver Properties

--Description--

Name: KappaLite3012HO

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: High Power Neo Woofer

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 51.5 Hz

Qms = 8.39

Vas = 2.864 cu.ft

Xmax = 0.244 in

Sd = 82.52 sq.in

Qes = 0.33

Re = 5.45 ohms

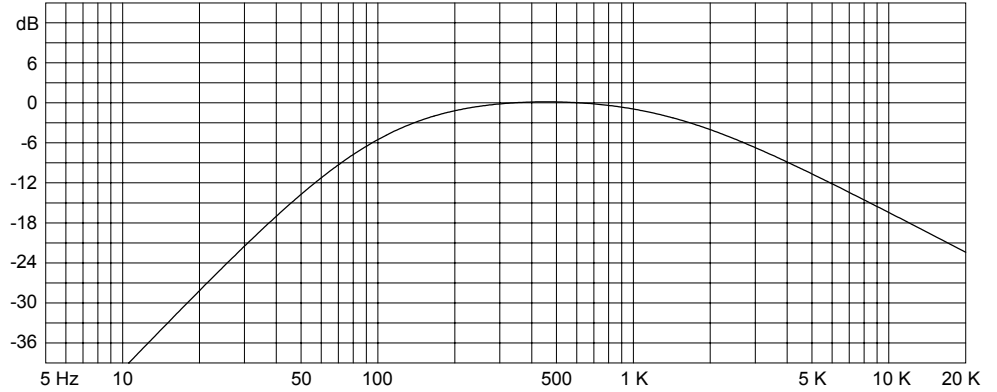
Le = 0.57 mH

Z = 8 ohms

Pe = 400 watts

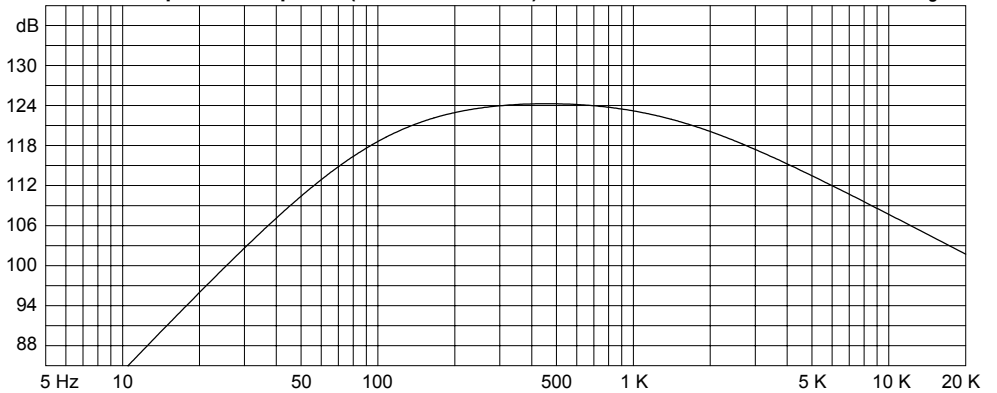
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



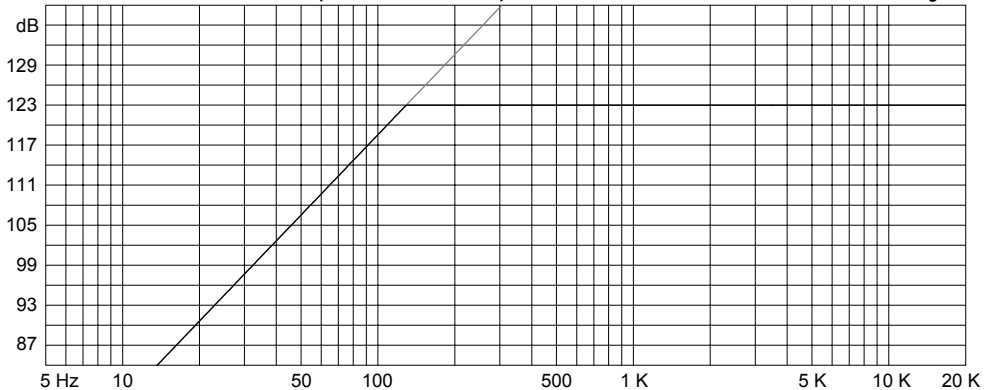
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 325 watts

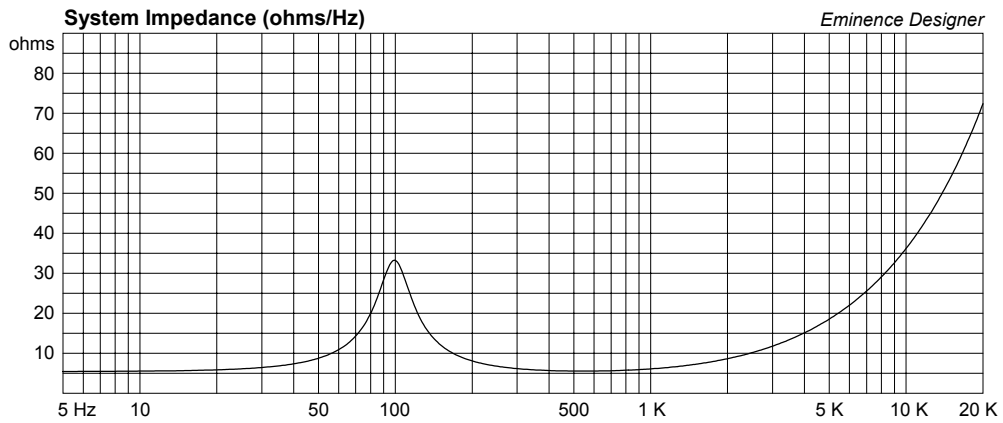
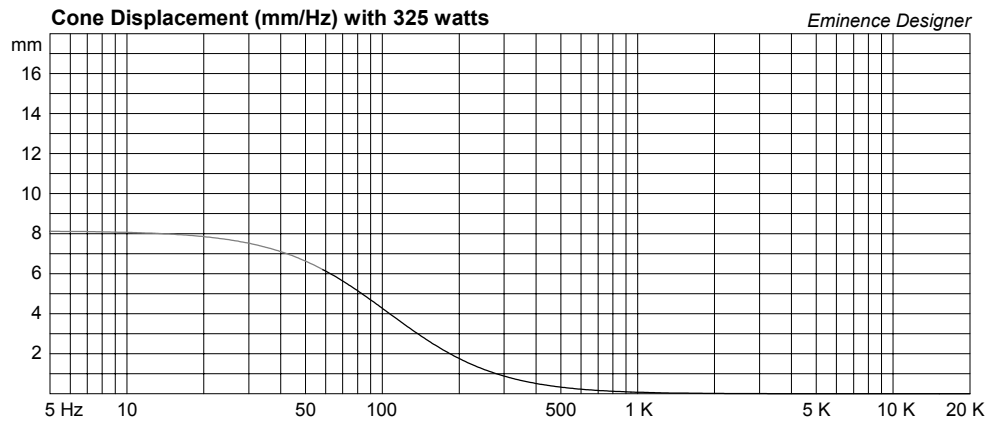
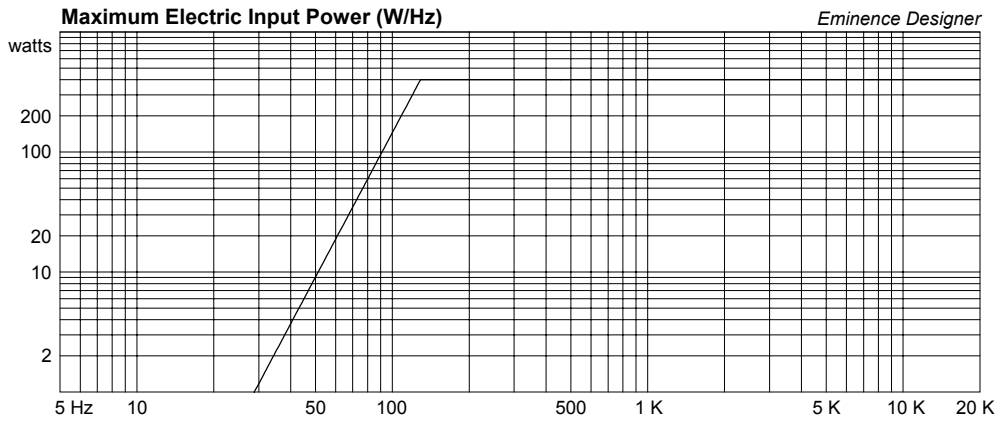
Eminence Designer

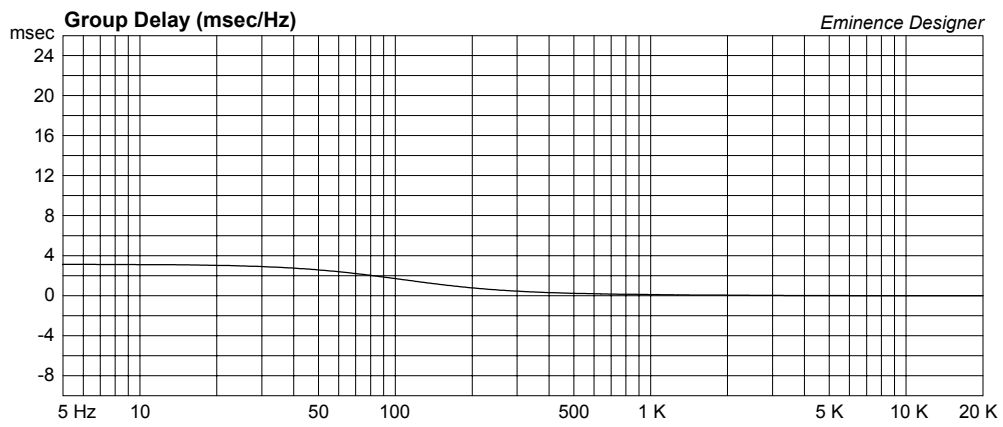
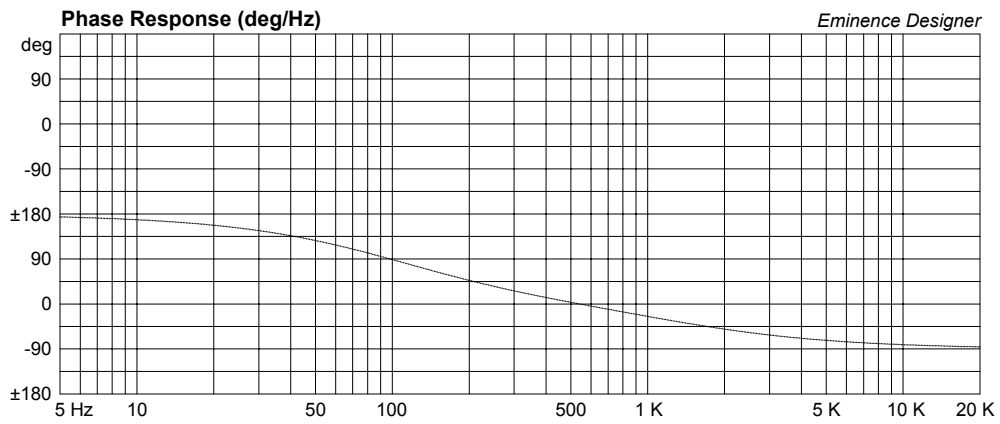


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







KappaLite 3012HO Med Vented Cabinet

By Jerry McNutt, Eminence Speaker LLC
400 Watt Thermal Limit; F3 at 74Hz. High Pass at 50 Hz.
Great for High Power PA Sat or high power Floor Wedge.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 1.25 cu.ft

V(total) = 1.489 cu.ft

Fb = 65 Hz

QL = 7

F3 = 73.77 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 8.582 in

Driver Properties

--Description--

Name: KappaLite3012HO

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: High Power Neo Woofer

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 51.5 Hz

Qms = 8.39

Vas = 2.864 cu.ft

Xmax = 0.244 in

Sd = 82.52 sq.in

Qes = 0.33

Re = 5.45 ohms

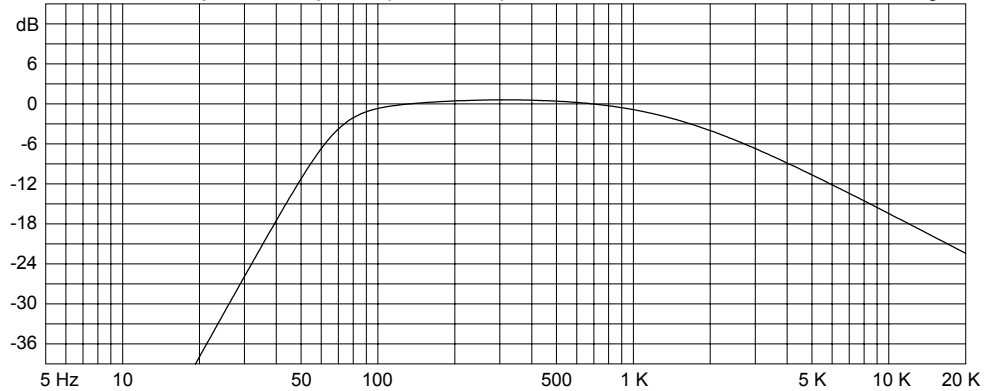
Le = 0.57 mH

Z = 8 ohms

Pe = 400 watts

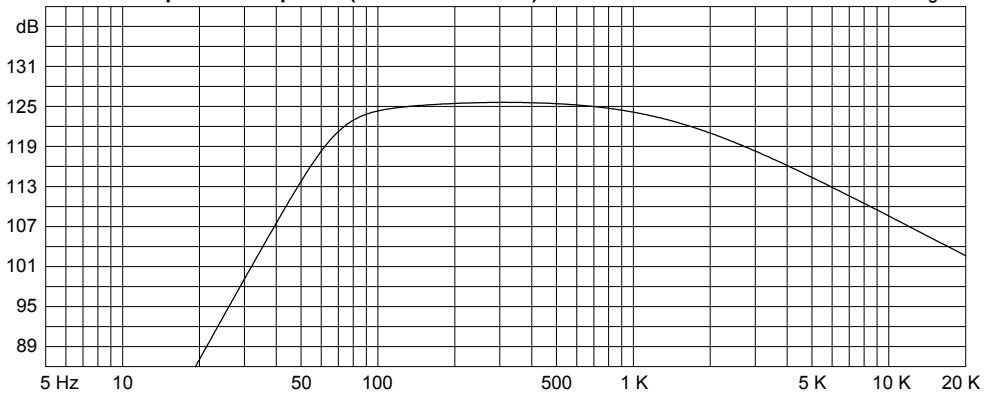
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



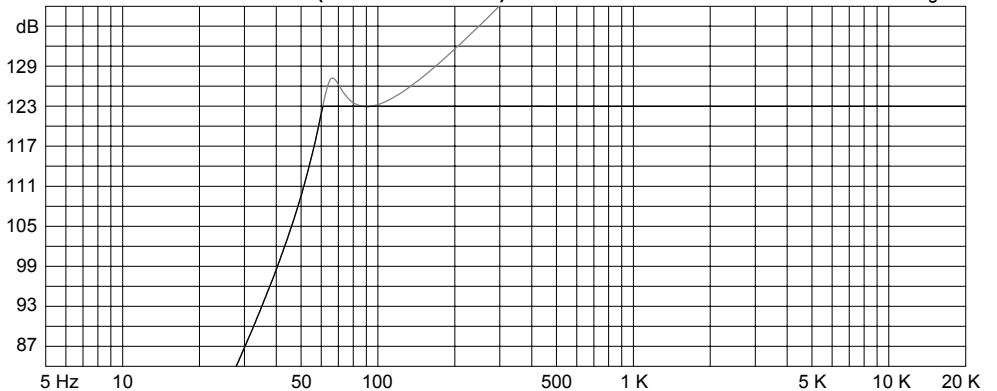
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 400 watts

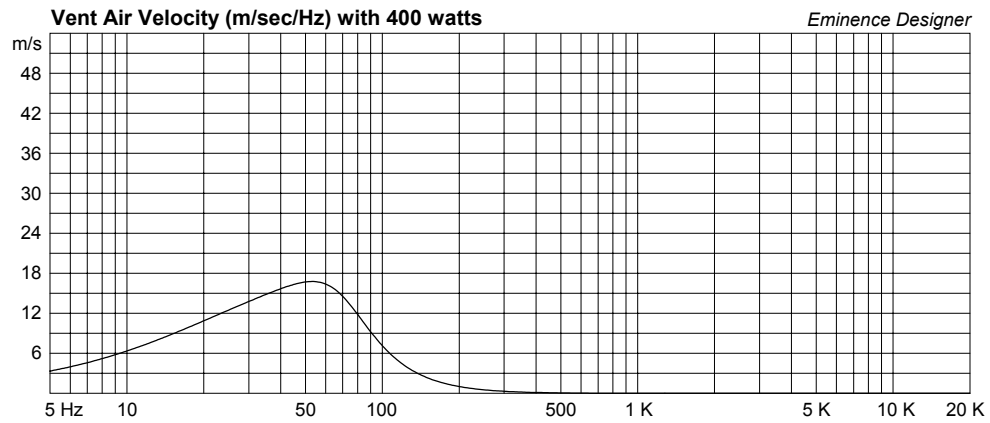
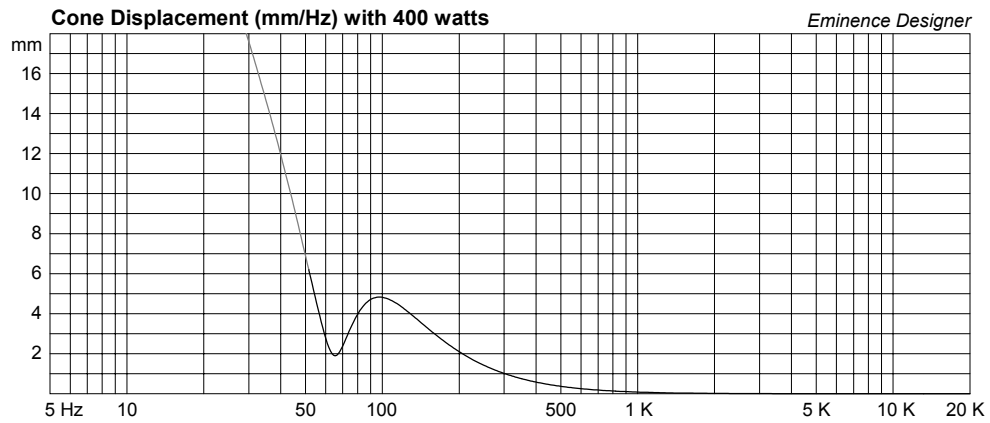
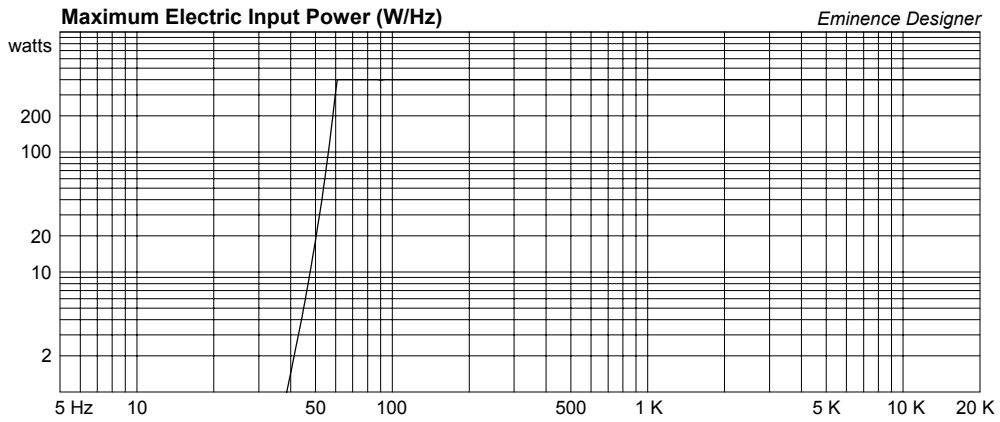
Eminence Designer

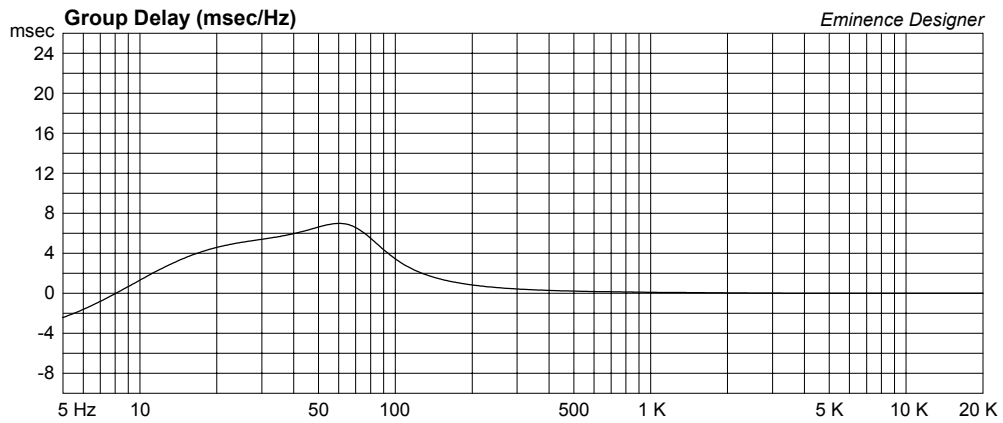
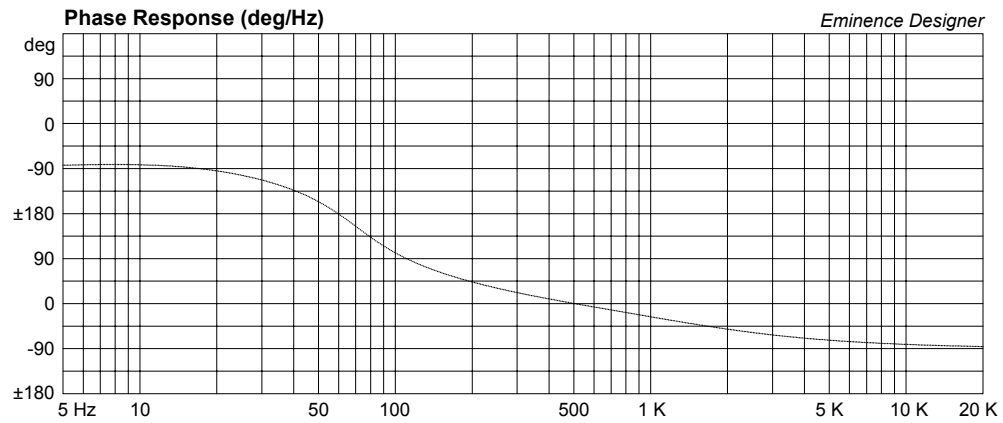
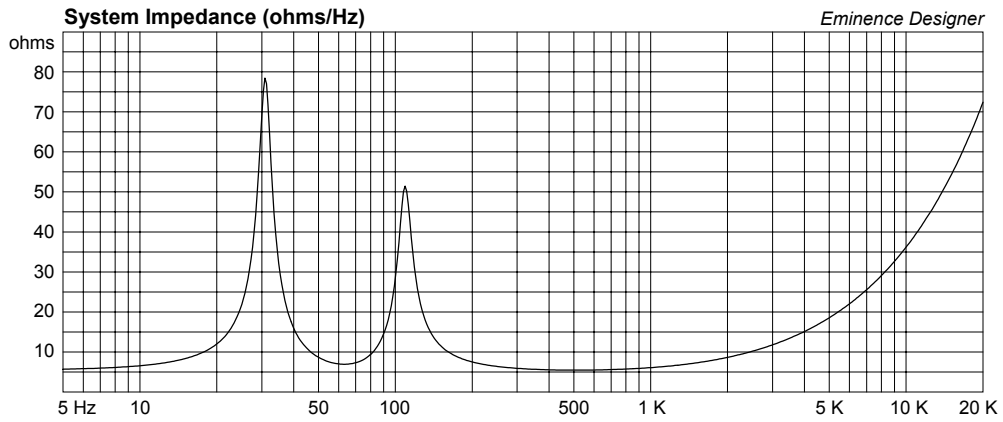


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







KappaLite 3012HO Large Vented Cabinet

By Jerry McNutt, Eminence Speaker LLC
300 Watt Limit; F3 at 51 Hz. High Pass at 40 Hz.
Great for Med Power Full Range PA.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 3.6 cu.ft

V(total) = 3.801 cu.ft

Fb = 55 Hz

QL = 7

F3 = 51.04 Hz

Fill = minimal

--Vents--

No. of Vents = 3

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 4.439 in

Driver Properties

--Description--

Name: KappaLite3012HO

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: High Power Neo Woofer

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 51.5 Hz

Qms = 8.39

Vas = 2.864 cu.ft

Xmax = 0.244 in

Sd = 82.52 sq.in

Qes = 0.33

Re = 5.45 ohms

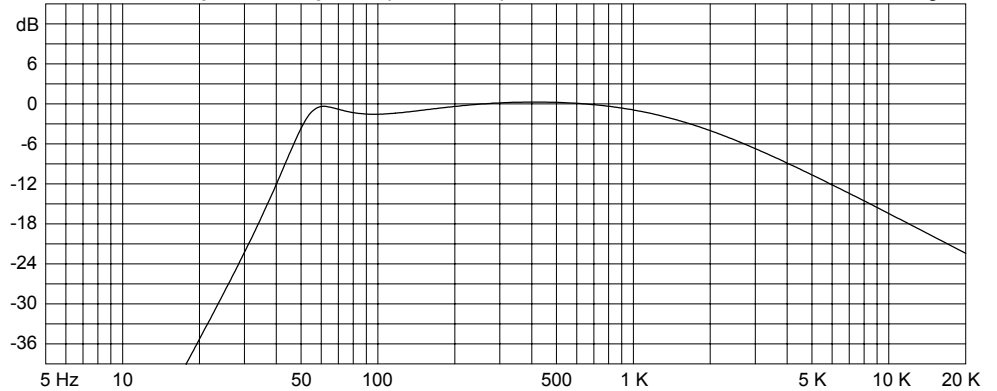
Le = 0.57 mH

Z = 8 ohms

Pe = 400 watts

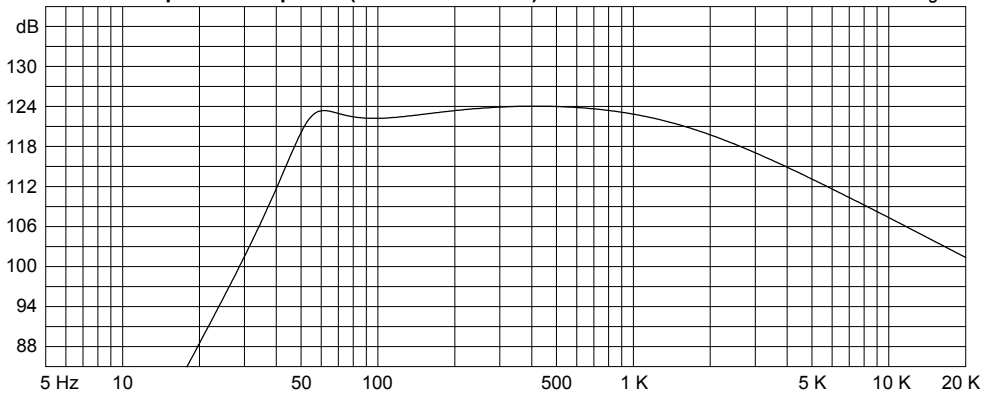
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



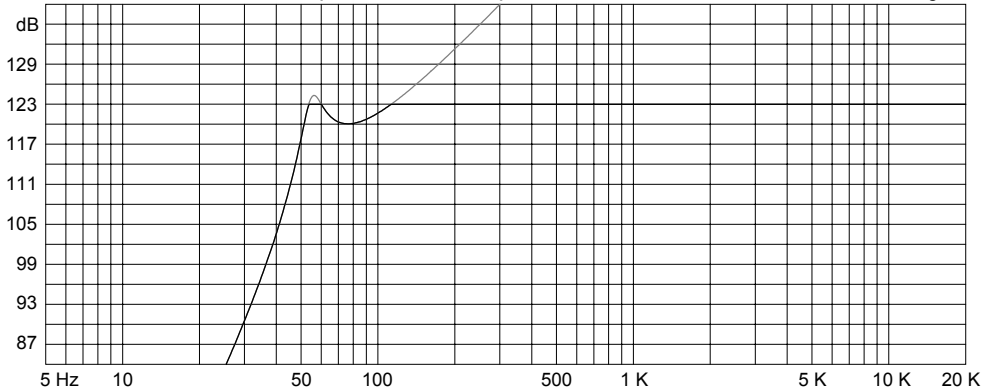
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 300 watts

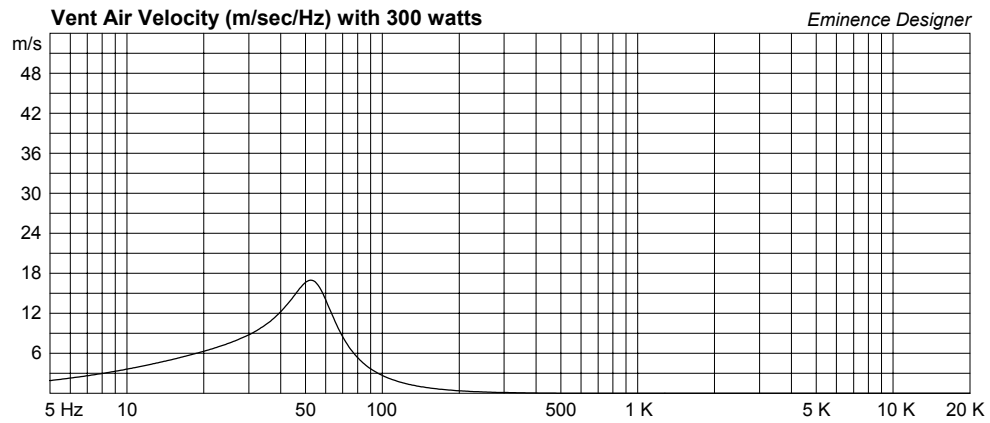
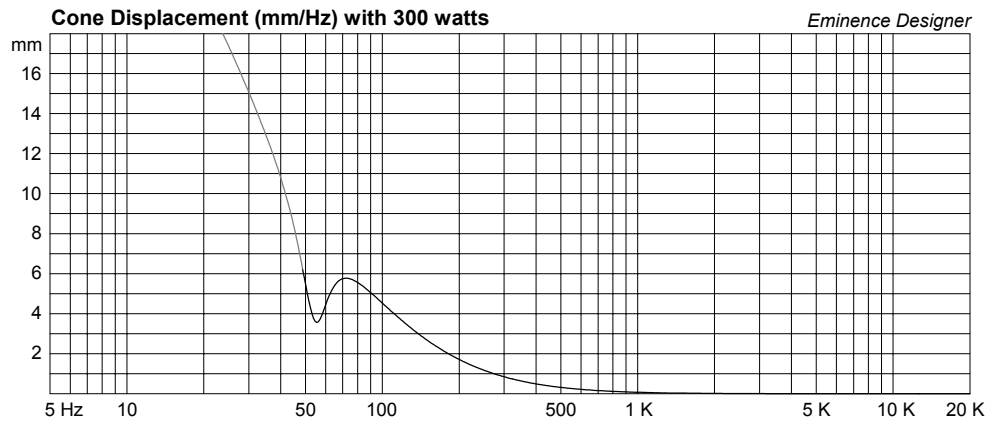
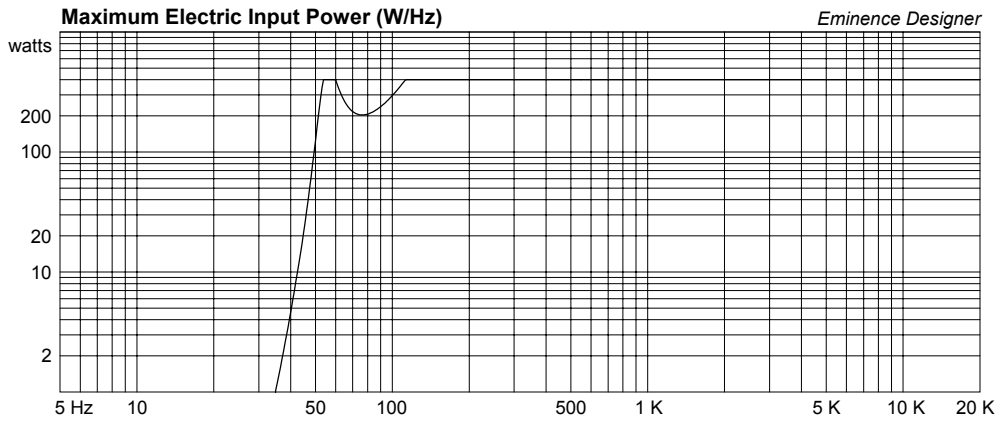
Eminence Designer

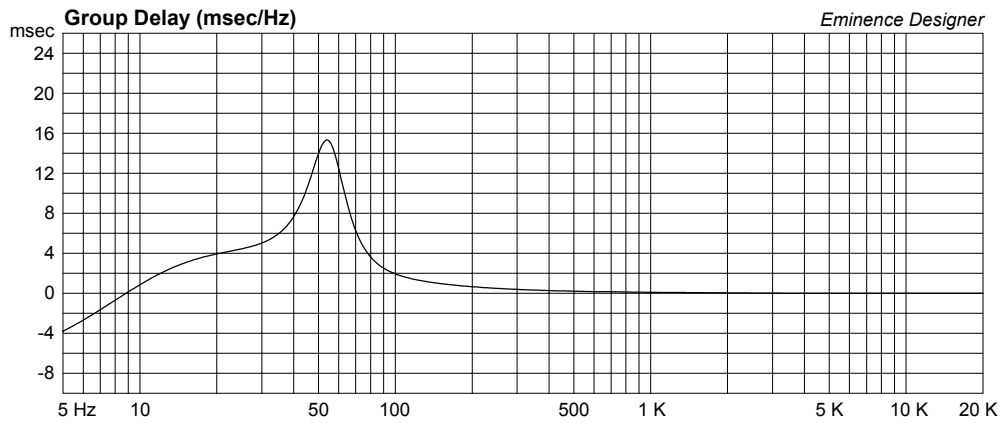
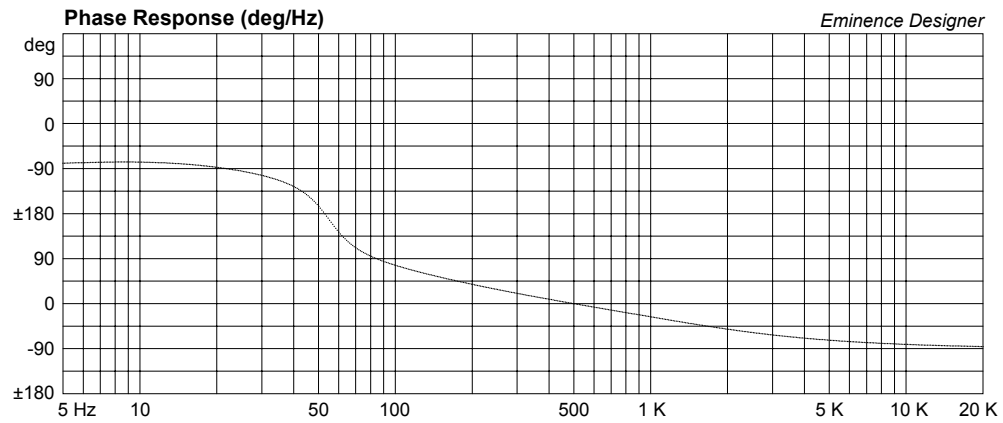
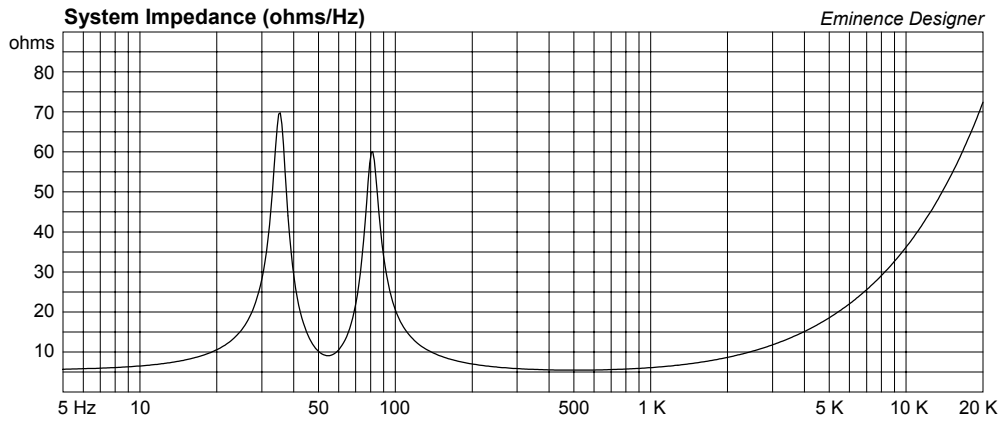


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







KappaLite 3012HO Twin Hi-Pwr FOH Main Cabinet

By Jerry McNutt, Eminence Speaker LLC

800 Watt Thermal Limit; F3 at 80 Hz. High Pass 90-125 Hz.

Place slot ports at top and bottom of cabinet to promote air flow.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 2.1 cu.ft

V(total) = 2.444 cu.ft

Fb = 70 Hz

QL = 7

F3 = 78.73 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = rectangle

Vent ends = one flush

Hv = 2 in

Wv = 9 in

Lv = 5.892 in

Driver Properties

--Description--

Name: KappaLite3012HO

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: High Power Neo Woofer

--Configuration--

No. of Drivers = 2

Mounting = Standard

Wiring = Parallel

Drivers sum coherently = Yes

--Driver Parameters--

Fs = 51.5 Hz

Qms = 8.39

Vas = 2.864 cu.ft [5.728]

Xmax = 0.244 in

Sd = 82.52 sq.in [165]

Qes = 0.33

Re = 5.45 ohms [2.725]

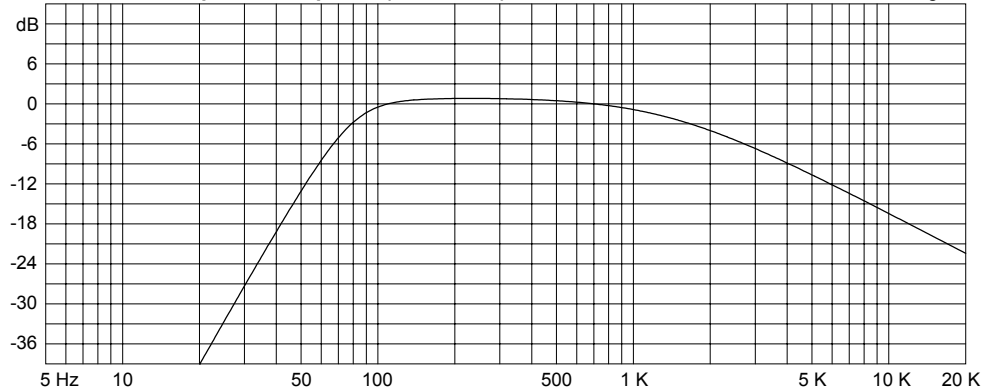
Le = 0.57 mH [0.285]

Z = 8 ohms [4]

Pe = 400 watts [800]

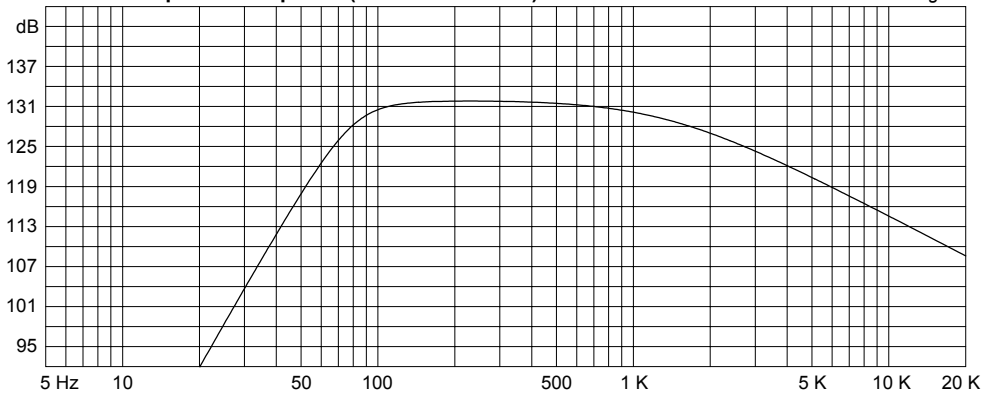
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 800 watts

Eminence Designer



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

Eminence Designer

