

Specification

Nominal Basket Diameter	15", 381mm
Nominal Impedance*	8 ohms
Power Rating**	
Watts	600W
Music Program	1200W
Resonance	35Hz
Usable Frequency Range***	38Hz-1.8kHz
Sensitivity	97.8
Magnet Weight	120 oz
Gap Height	0.375", 9.53mm
Voice Coil Diameter	3", 76.2mm

Thiele & Small Parameters

Resonant Frequency (fs)	35Hz
DC Resistance (Re)	6.5
Coil Inductance (Le)	1.40mH
Mechanical Q (Qms)	7.3
Electromagnetic Q (Qes)	0.32
Total Q (Qts)	.30
Compliance Equivalent Volume (Vas)	198.8 ltr/7.0 cu. ft.
Peak Diaphragm Displacement Volume (Vd)	507cc
Mechanical Compliance of Suspension (Cms)	0.20mm/N
BL Product (BL)	21.6 T-M
Diaphragm Mass inc. Airlod (Mms)	102 grams
Efficiency Bandwidth Product (EBP)	112
Maximum Linear Excursion (Xmax)	6.7mm
Surface Area of Cone (Sd)	856.3cm ²
Maximum Mechanical Limit (Xlim)	18.0mm

Mounting Information

Recommended Enclosure Volume	
Sealed	N/A
Vented	76.5-164 ltr/2.7-5.8 cu. ft.
Overall Diameter	15.21", 386.4mm
Baffle Hole Diameter	14.0", 355.5mm
Front Sealing Gasket	Fitted as Standard
Rear Sealing Gasket	Fitted as Standard
Mounting Holes Diameter	0.28", 7.1mm
Mounting Holes B.C.D.	14.56", 369.9mm
Depth	6.57", 167mm
Net Weight	22.3 lbs, 10.1 kg
Shipping Weight	24.8 lbs, 11.3 kg

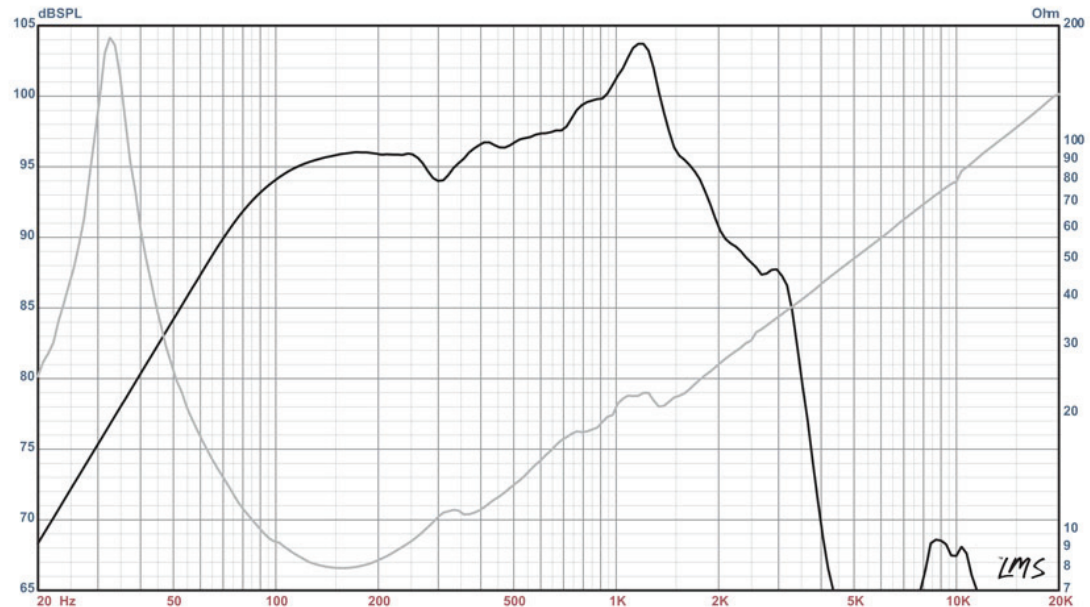
Materials of Construction

Coil Construction	Copper
Coil	Polyimide
Magnet Composition	Ferrite
Core Details	Vented And Extended
Basket Materials	Die-Cast Aluminum
Cone Composition	Paper
Cone Edge Composition	Cloth
Dust Cap Composition	Solid Composition Paper



KAPPA PRO-15LF-2 Professional Series

Recommended for professional audio in a vented bass 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, 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)

KappaPro15LF-2, Ext Bass Shelf, Med Power

By McJerry, Eminence Speaker LLC

Displacement Limited to 300 Watts; F3 of 42 Hz. Use a steep High Pass filter set to 35 Hz or higher to protect driver from overexcursion.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 5.2 cu.ft

V(total) = 5.713 cu.ft

Fb = 38 Hz

QL = 7

F3 = 42.31 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 13.11 in

Driver Properties

--Description--

Name: Kappa Pro-15LF-2

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised MAR 2007

Piston: Paper cone.

Suspension: Rolled cone edge surround.

Dust Cap: Paper dust cap.

Frame: Diecast aluminum basket.

Voice Coil: 3 inch (76.2 mm) Kapton former

Magnet: 95 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 35 Hz

Qms = 7.3

Vas = 7.021 cu.ft

Xmax = 0.263 in

Sd = 132.7 sq.in

Qes = 0.32

Re = 6.5 ohms

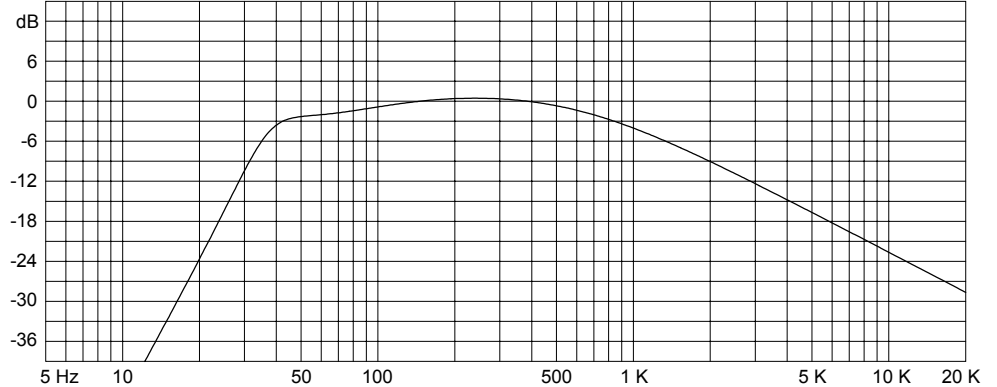
Le = 1.4 mH

Z = 8 ohms

Pe = 600 watts

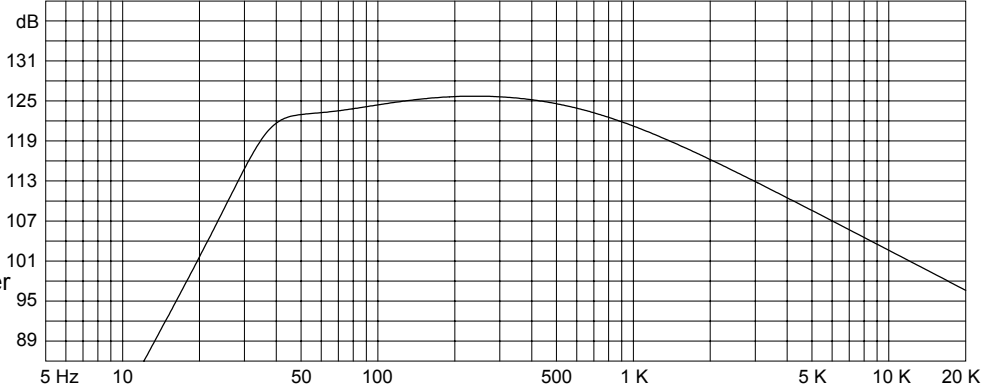
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



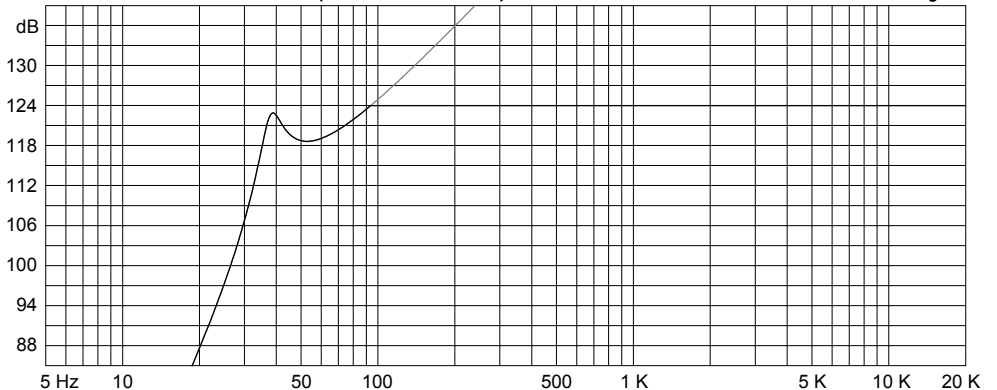
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 600 watts

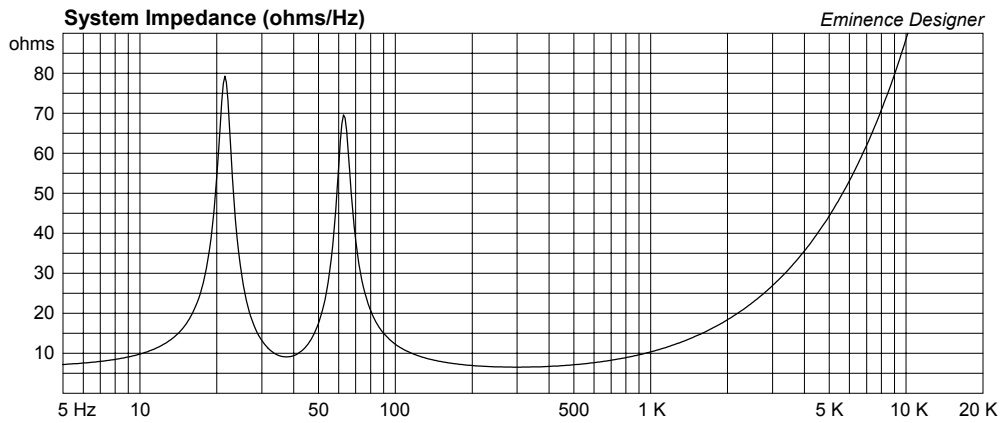
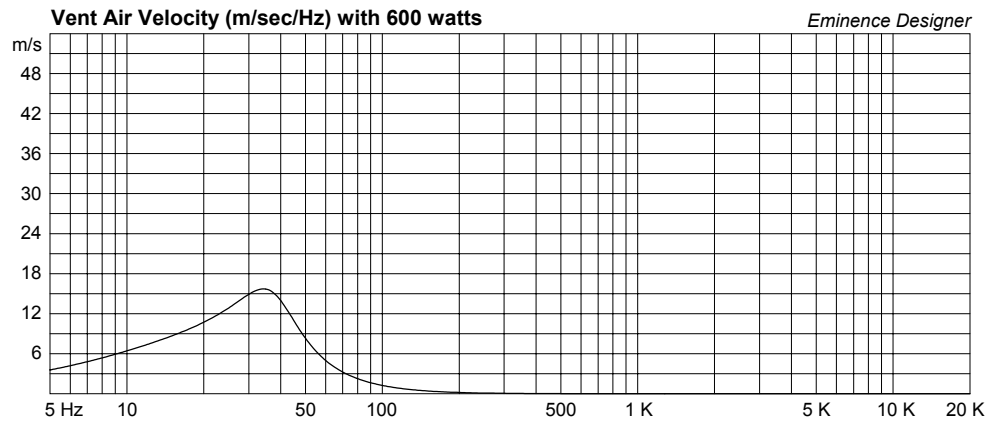
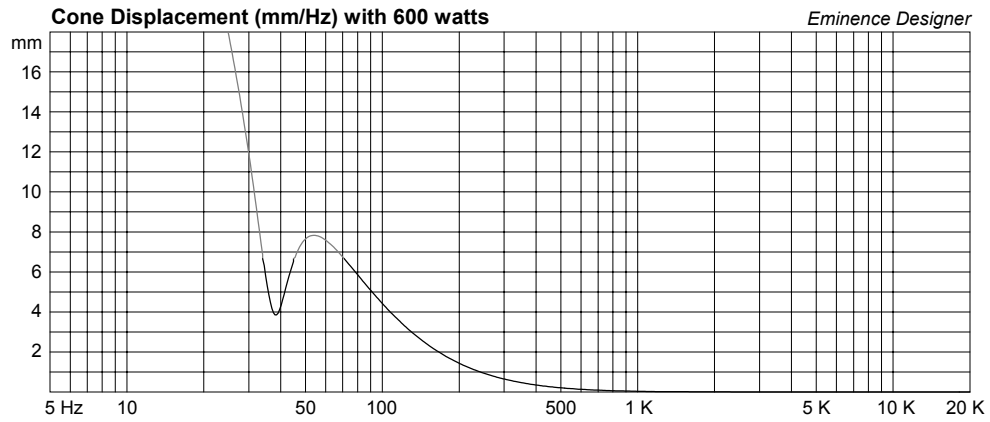
Eminence Designer



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

Eminence Designer





Kappa Pro 15LF-2, Med Vented Box, Med Power

By McJerry, Eminence Speaker LLC

Displacement limited to 400 watts; F3 of 47Hz. Must use a steep high pass filter set to 40 Hz or higher to protect driver. Locate port symmetrically.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 3.9 cu.ft

V(total) = 4.104 cu.ft

Fb = 45 Hz

QL = 7

F3 = 46.52 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 5.793 in

Driver Properties

--Description--

Name: Kappa Pro-15LF-2

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised MAR 2007

Piston: Paper cone.

Suspension: Rolled cone edge surround.

Dust Cap: Solid paper dust cap

Frame: Diecast aluminum basket.

Voice Coil: 3 inch (76.2 mm) Kapton former.

Magnet: 95 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 35 Hz

Qms = 7.3

Vas = 7.021 cu.ft

Xmax = 0.263 in

Sd = 132.7 sq.in

Qes = 0.32

Re = 6.5 ohms

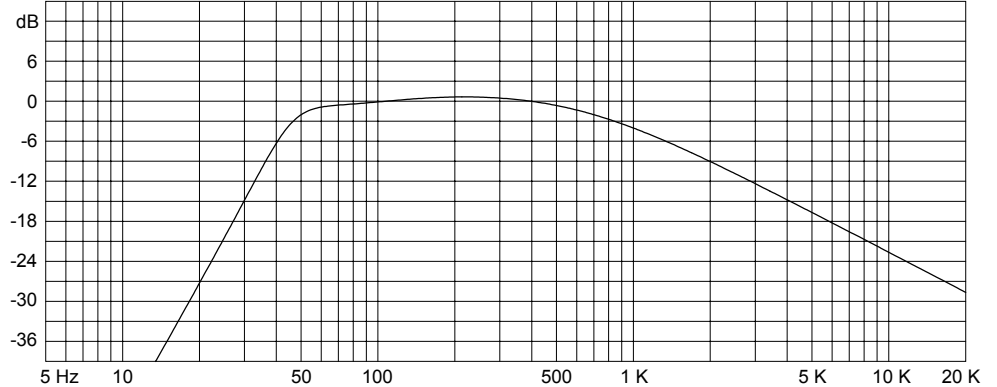
Le = 1.4 mH

Z = 8 ohms

Pe = 600 watts

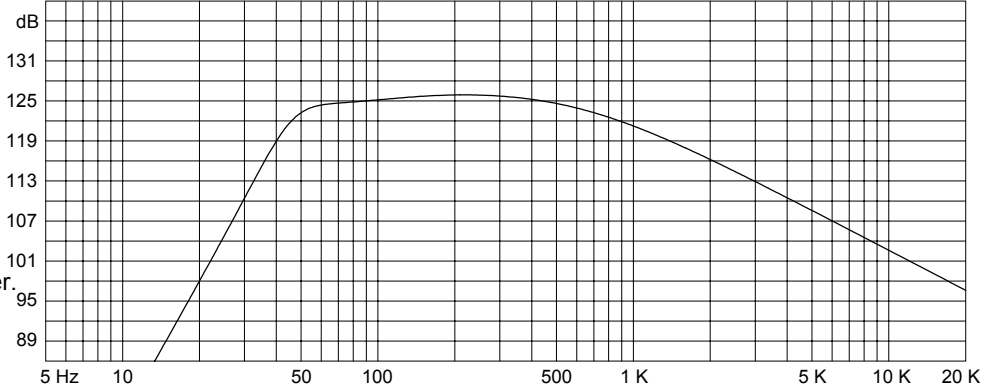
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



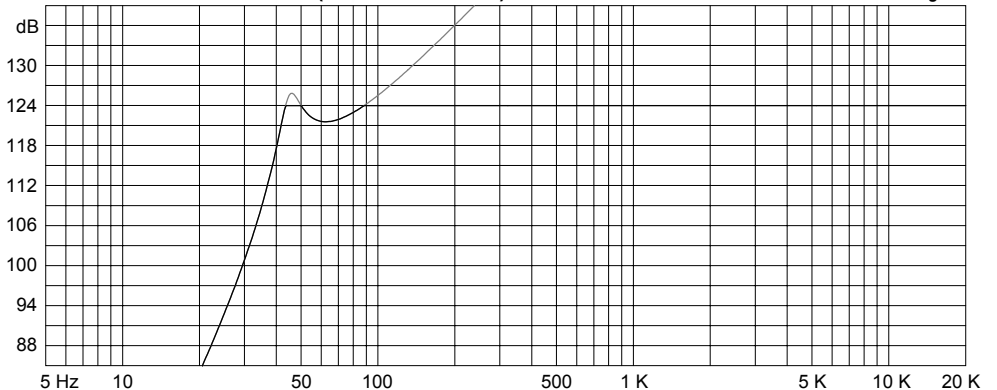
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 600 watts

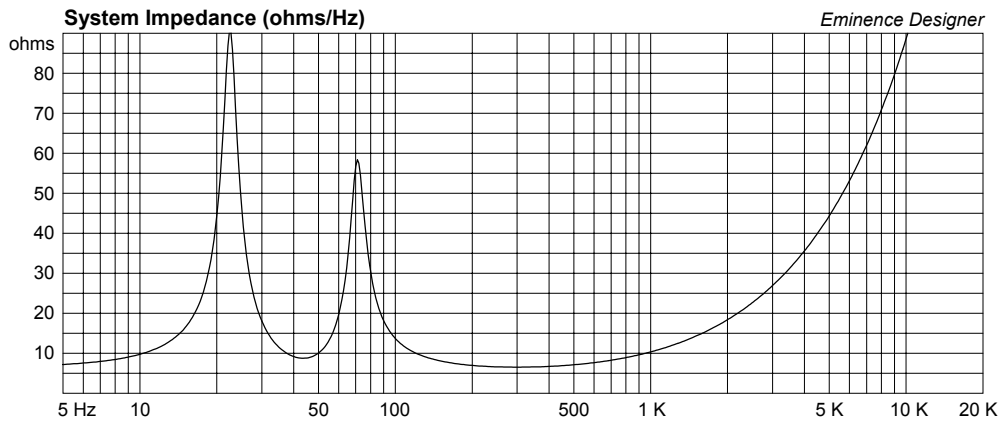
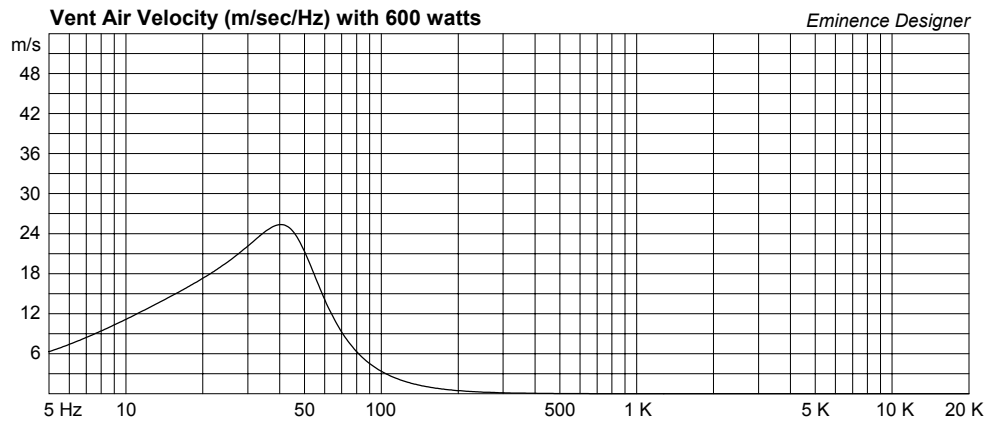
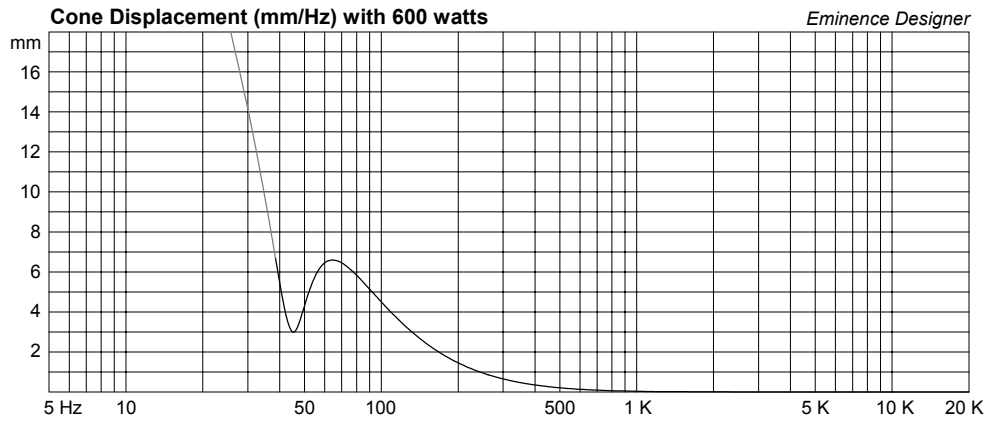
Eminence Designer



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

Eminence Designer





Kappa Pro 15LF-2 Max Power Box

By McJerry, Eminence Speaker LLC

Displacement and thermally limited to 600 watts; F3 of 56Hz. Must use a 24 dB per octave high pass filter set to 35 Hz or higher to protect driver. Locate Ports Symetrically.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 2.5 cu.ft

V(total) = 2.755 cu.ft

Fb = 50 Hz

QL = 7

F3 = 55.75 Hz

Fill = minimal

--Vents--

No. of Vents = 4

Vent shape = round

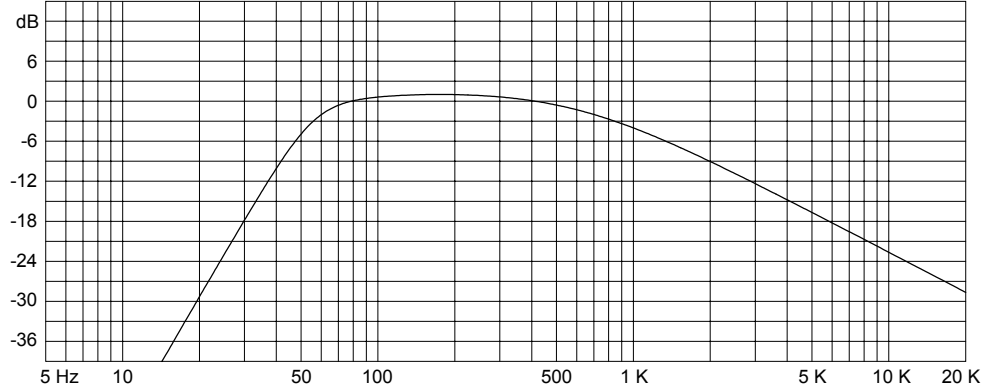
Vent ends = one flush

Dv = 3 in

Lv = 8.438 in

Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



Driver Properties

--Description--

Name: Kappa Pro-15LF-2

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised MAR 2007

Piston: Paper cone.

Suspension: Rolled cone edge surround.

Dust Cap: Paper

Frame: Diecast aluminum basket.

Voice Coil: 3 inch (76.2 mm) Kapton former.

Magnet: 95 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 35 Hz

Qms = 7.3

Vas = 7.021 cu.ft

Xmax = 0.263 in

Sd = 132.7 sq.in

Qes = 0.32

Re = 6.5 ohms

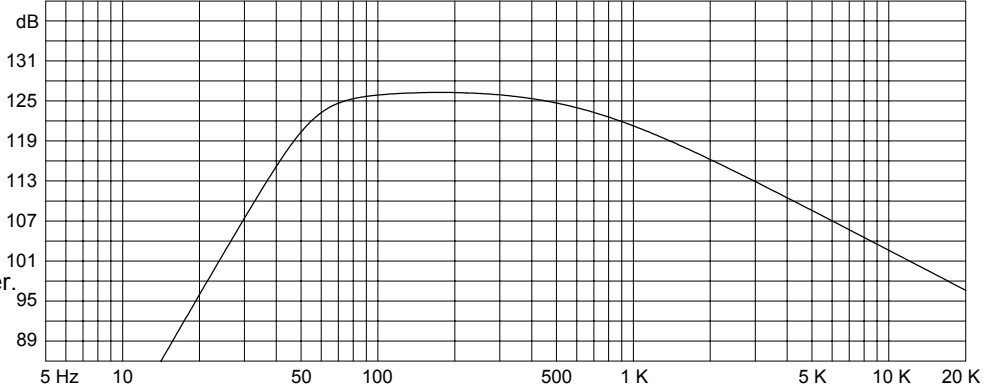
Le = 1.4 mH

Z = 8 ohms

Pe = 600 watts

Custom Amplitude Response (dB-SPL/Hz at 1 m) with 600 watts

Eminence Designer



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

Eminence Designer

