



PROFESSIONAL SERIES

KAPPA PRO-15LF-2

Long throw, low frequency woofer recommended for pro audio in a vented bass enclosure.



SPECIFICATION

Nominal Basket Diameter	15.0", 381 mm
Nominal Impedance*	8 Ω
Power Rating**	
Watts	600 W
Music Program	1200 W
Resonance	35 Hz
Usable Frequency Range	38 Hz – 1.8 kHz
Sensitivity***	97.8 dB
Magnet Weight	120 oz.
Gap Height	.375", 9.5 mm
Voice Coil Diameter	3.0", 76 mm

THIELE & SMALL PARAMETERS*

Fs	35 Hz
Re	6.50 Ω
Le	1.40 mH
Qms	7.30
Qes	0.32
Qts	0.30
Vas	7.02 cu.ft., 198.80 liters
Vd	571.2 cc
Cms	0.20 mm/N
BL	21.60 T-M
Mms	102 grams
EBP	112
Xmax	6.70 mm
Sd	856.3 cm ²
Xlim	18.0 mm

MOUNTING INFORMATION

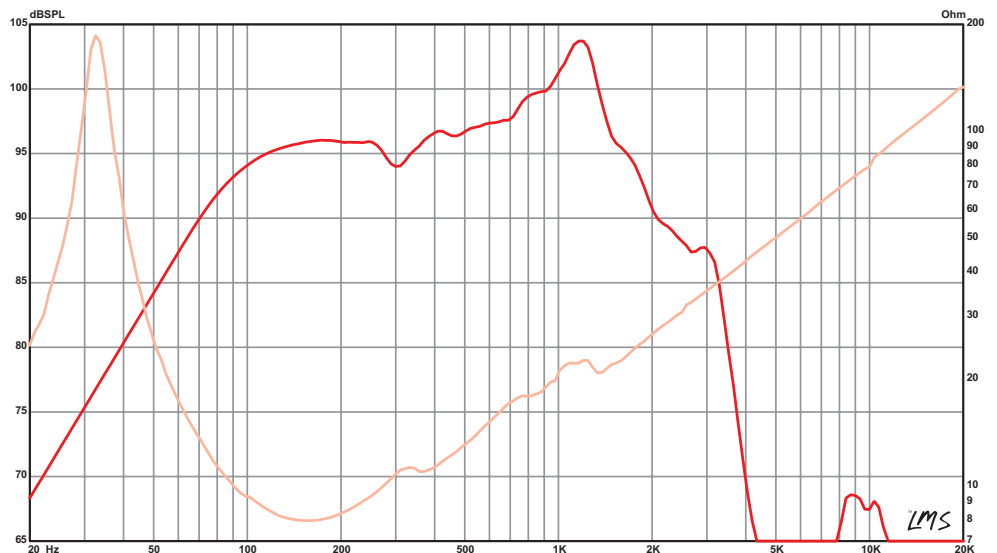
Recommended Enclosure Volume	
Sealed	N/A
Vented	76.50–164.00 liters, 2.70–5.80 cu.ft.
Driver Volume Displaced	0.152 cu.ft., 4.31 liters
Overall Diameter	15.21", 386.3 mm
Baffle Hole Diameter	14.00", 355.6 mm
Front Sealing Gasket	Yes
Rear Sealing Gasket	Yes
Mounting Holes Diameter	0.28", 7.1 mm
Mounting Holes B.C.D.	14.56", 369.8 mm
Depth	6.57", 166.9 mm
Net Weight	22.30 lbs , 10.12 kg
Shipping Weight	24.80 lbs , 11.25 kg

MATERIALS OF CONSTRUCTION

- _____ Copper voice coil
- _____ Polyimide former
- _____ Ferrite magnet
- _____ Vented and extended core
- _____ Die-cast aluminum basket
- _____ Paper cone
- _____ Cloth cone edge
- _____ Solid composition paper dust cap



FREQUENCY RESPONSE & IMPEDANCE CURVE*



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From design and manufacturing to the stage or studio. Once you've experienced the performance of Eminence, you'll never accept anything else.

MISSION STATEMENT

Eminence is dedicated to providing the best Quality, Value and Service to meet our customers' needs.

FOOTNOTES

- * Please consult www.eminence.com for specifications of models with alternative impedances.
- ** Multiple units exceed published ratings evaluated under EIA 426A specification while tested in a free-air, non-temperature-controlled environment.
- *** The average output across the usable frequency range when applying 1W/1m into the nominal impedance. i.e: 2.83V/8Ω, 4V/16Ω. 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 | Carver PM-120 amplifier | 2700 cu. ft. chamber with fiberglass on all six surfaces (three with custom-made wedges).
- **** BETA 8CX, 10CX, and 12CX are coaxial speakers with tweeter sold separately. Published usable frequency response contingent upon use of ASD:1001 HF Driver.
- ***** Multiple units exceeded published ratings evaluated under EIA-426A or AES specification while mounted on Eminence's H290, H290S, or H2EA horn in a non-temperature-controlled environment.
- *****The average on axis output across the entire usable frequency range when applying 1W/1m into the nominal impedance, i.e. 2.83V/8Ω, 4V/16Ω. 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 horn front mounted | Carver PM-120 amplifier | 2700 cu.ft. chamber with fiberglass on all six surfaces (three with custom-made wedges).

Prices, specifications and product cosmetics are subject to change without notice.

EMINENCE SPEAKER LLC

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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

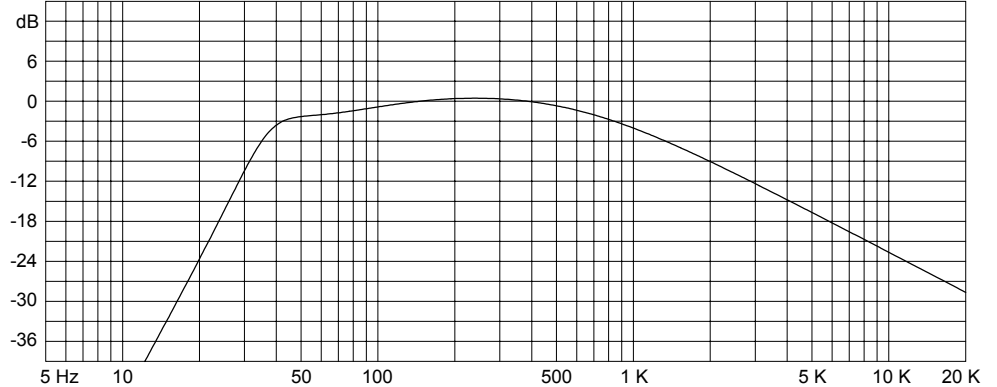
Le = 1.4 mH

Z = 8 ohms

Pe = 600 watts

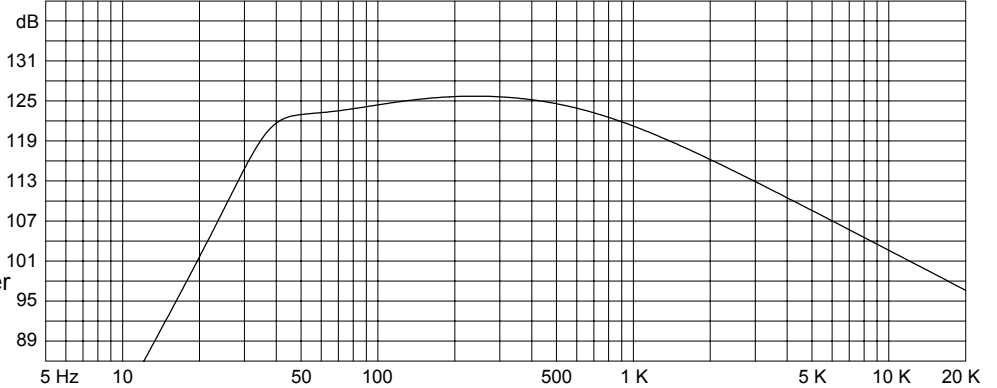
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



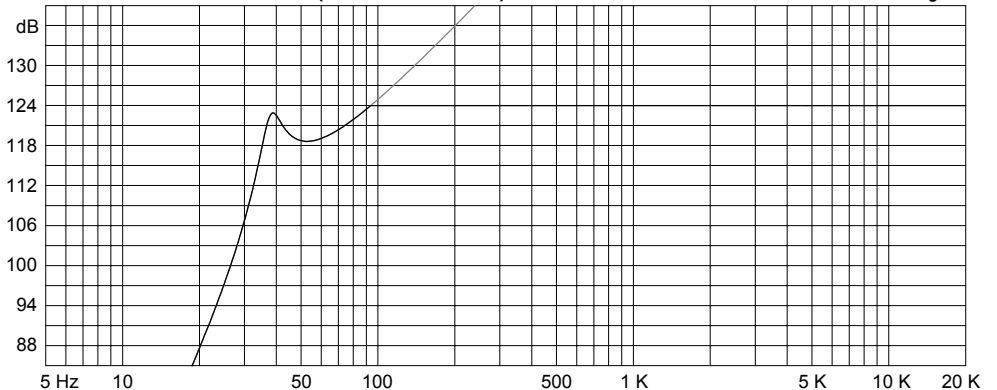
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 600 watts

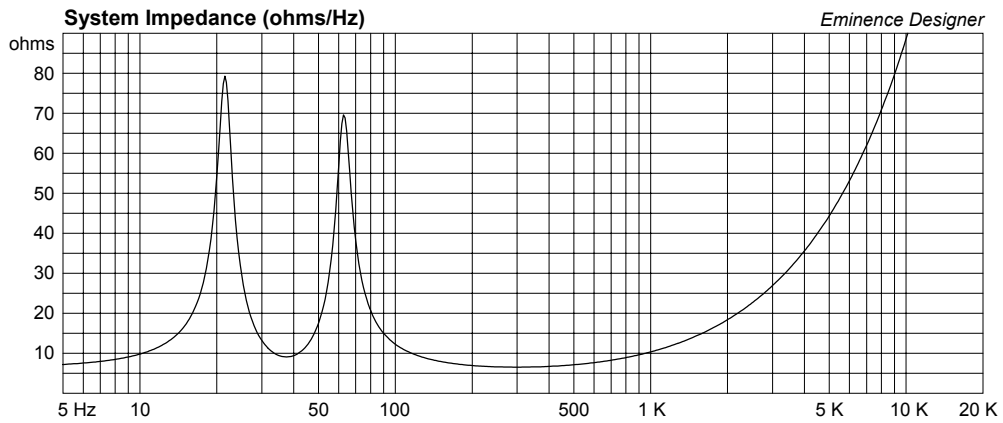
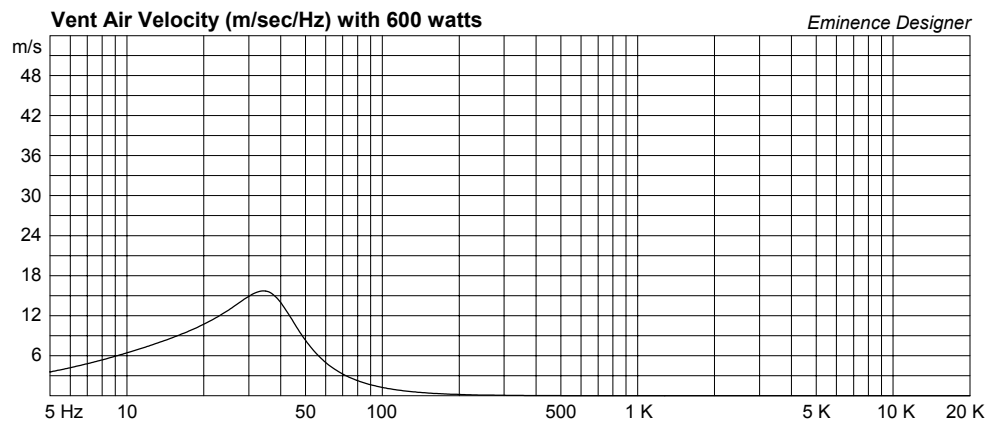
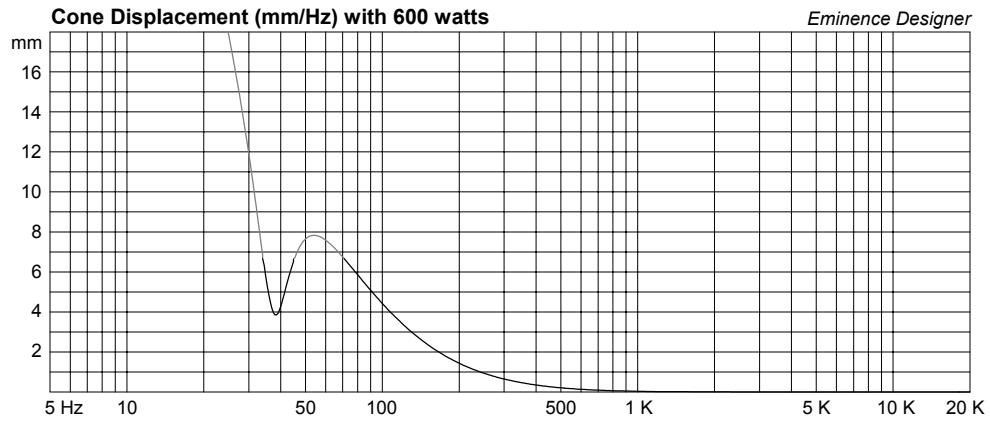
Eminence Designer



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

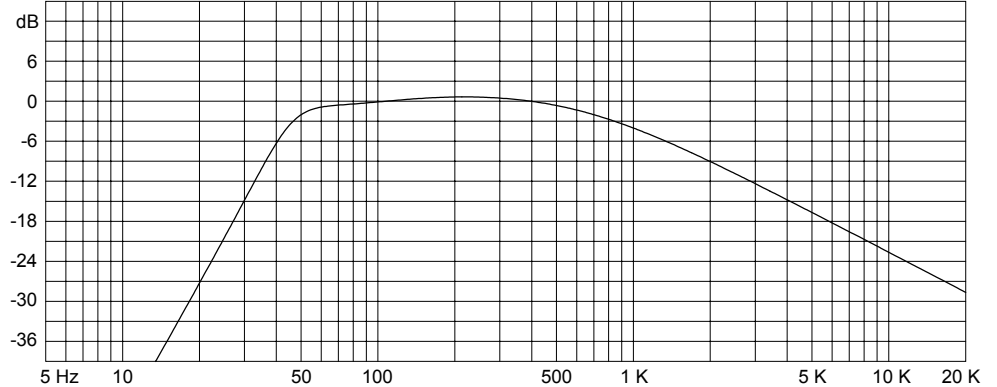
Le = 1.4 mH

Z = 8 ohms

Pe = 600 watts

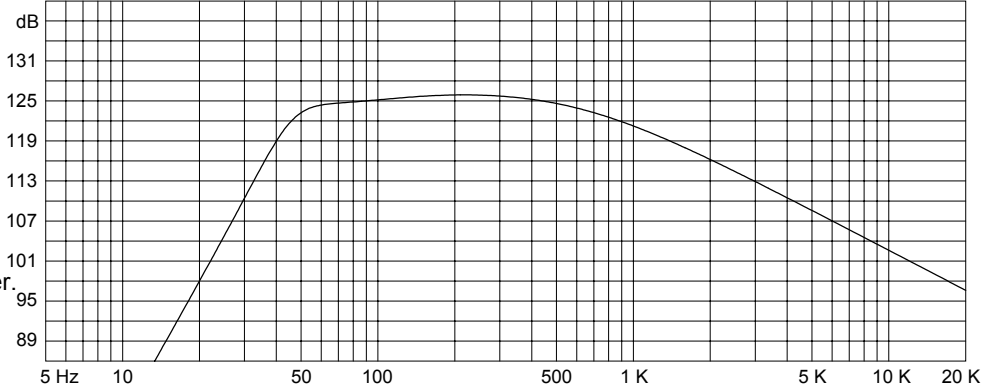
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



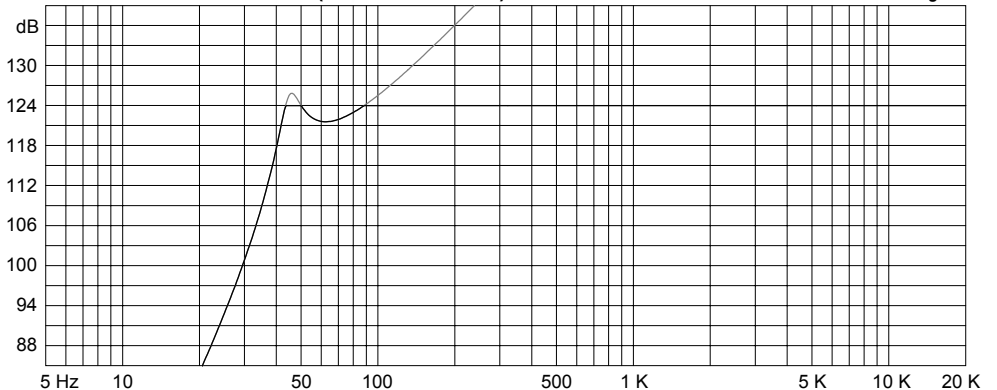
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 600 watts

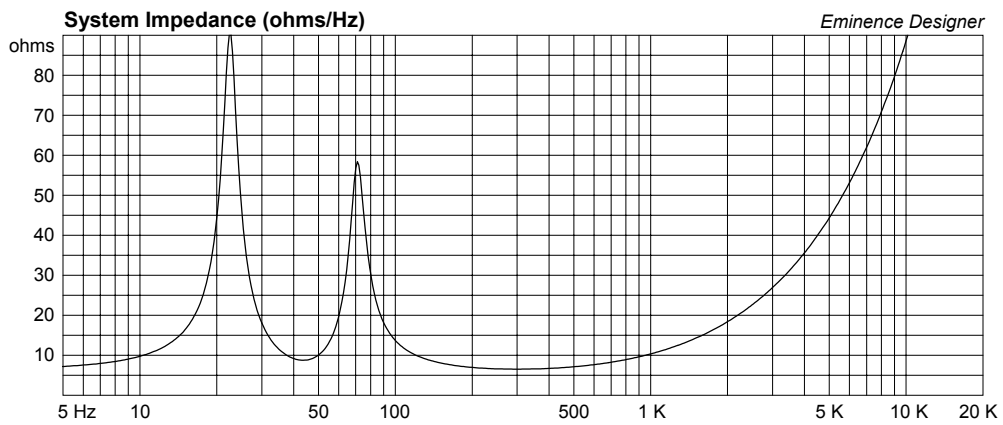
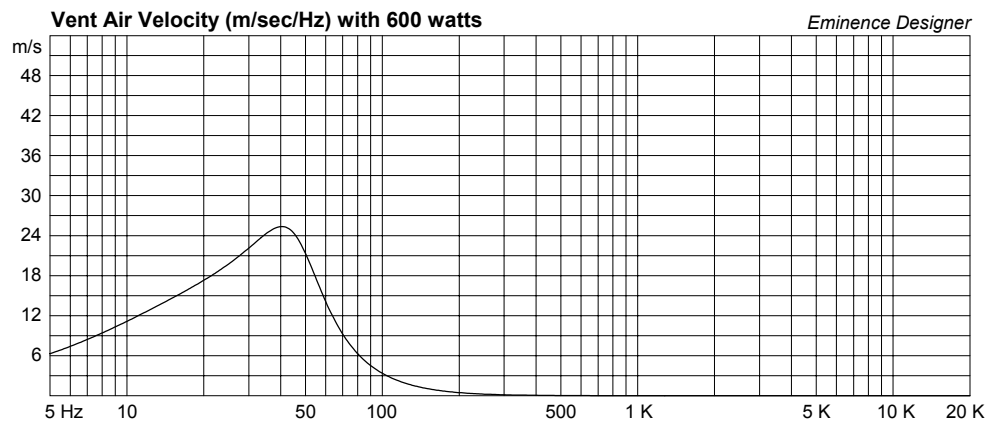
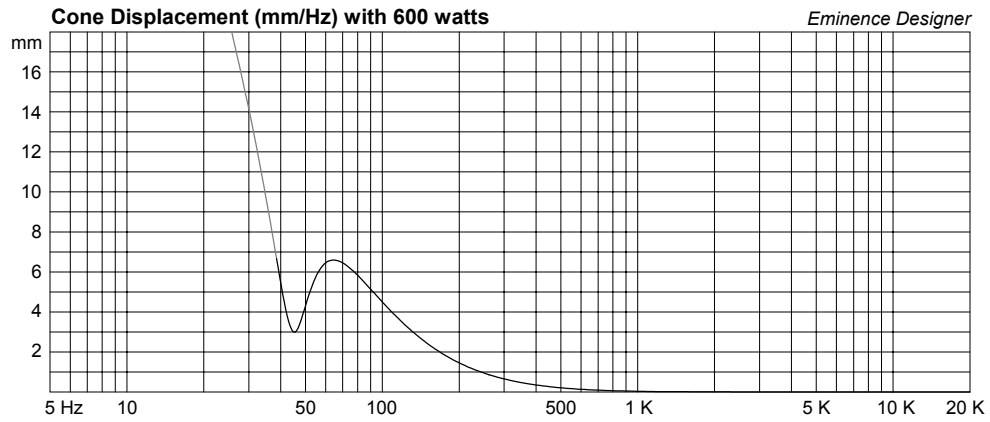
Eminence Designer



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

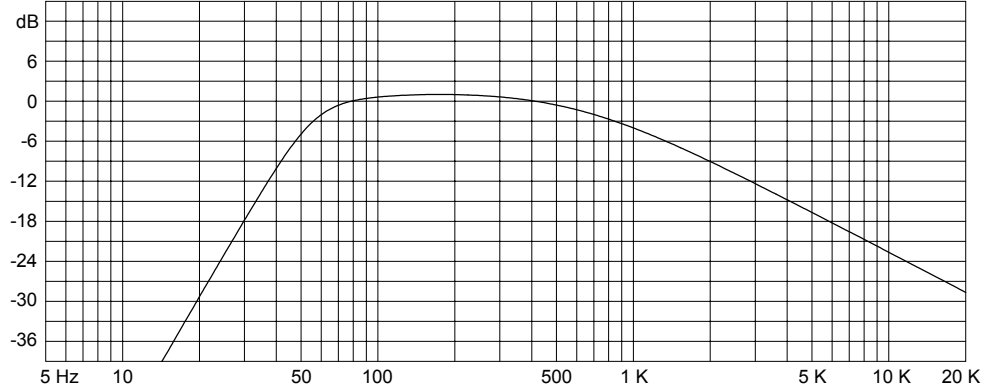
Vent ends = one flush

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

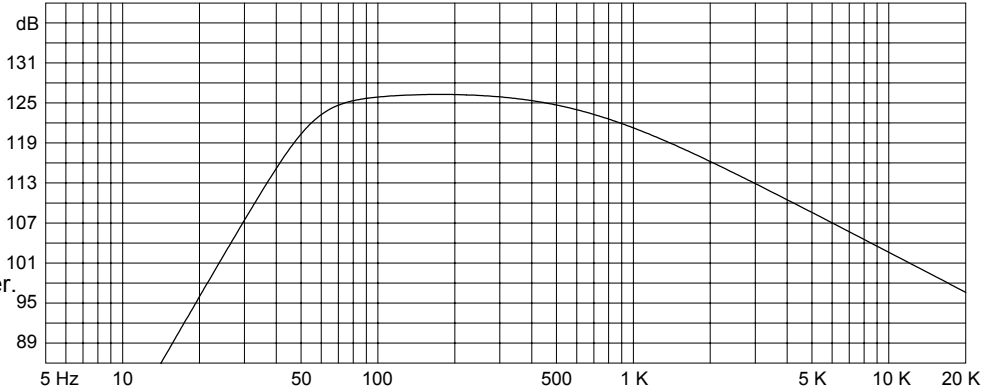
Le = 1.4 mH

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

