

Specification

Nominal Basket Diameter	15", 381mm
Nominal Impedance*	4 ohms
Power Rating**	
Watts	450W
Music Program	900W
Resonance	31Hz
Usable Frequency Range***	63Hz-2.8kHz
Sensitivity	98.1
Magnet Weight	80 oz.
Gap Height	0.375", 9.53mm
Voice Coil Diameter	3", 76.2mm

Thiele & Small Parameters

Resonant Frequency (fs)	31Hz
DC Resistance (Re)	3.68
Coil Inductance (Le)	0.88mH
Mechanical Q (Qms)	10.14
Electromagnetic Q (Qes)	0.25
Total Q (Qts)	0.25
Compliance Equivalent Volume (Vas)	329.9 liters / 11.7 cu.ft.
Peak Diaphragm Displacement Volume (Vd)	206cc
Mechanical Compliance of Suspension (Cms)	0.35mm/N
BL Product (BL)	14.7 T-M
Diaphragm Mass inc. Airload (Mms)	77 grams
Efficiency Bandwidth Product (EBP)	124
Maximum Linear Excursion (Xmax)	2.4mm
Surface Area of Cone (Sd)	856.3 cm ²
Maximum Mechanical Limit (Xlim)	11.6mm

Mounting Information

Recommended Enclosure Volume	
Sealed	N/A
Vented	40-79 liters/1.4-2.8 cu.ft.
Driver Volume Displaced	239 cu.in. / 3.92 liters
Overall Diameter	15.16", 384.9mm
Baffle Hole Diameter	13.77", 349.6mm
Front Sealing Gasket	Fitted as standard
Rear Sealing Gasket	Fitted as standard
Mounting Holes Diameter	0.25", 6.4mm
Mounting Holes B.C.D.	14.56", 369.9mm
Depth	6.13", 156mm
Net Weight	17.6 lbs., 8 kg
Shipping Weight	19.8 lbs., 9 kg

Materials of Construction

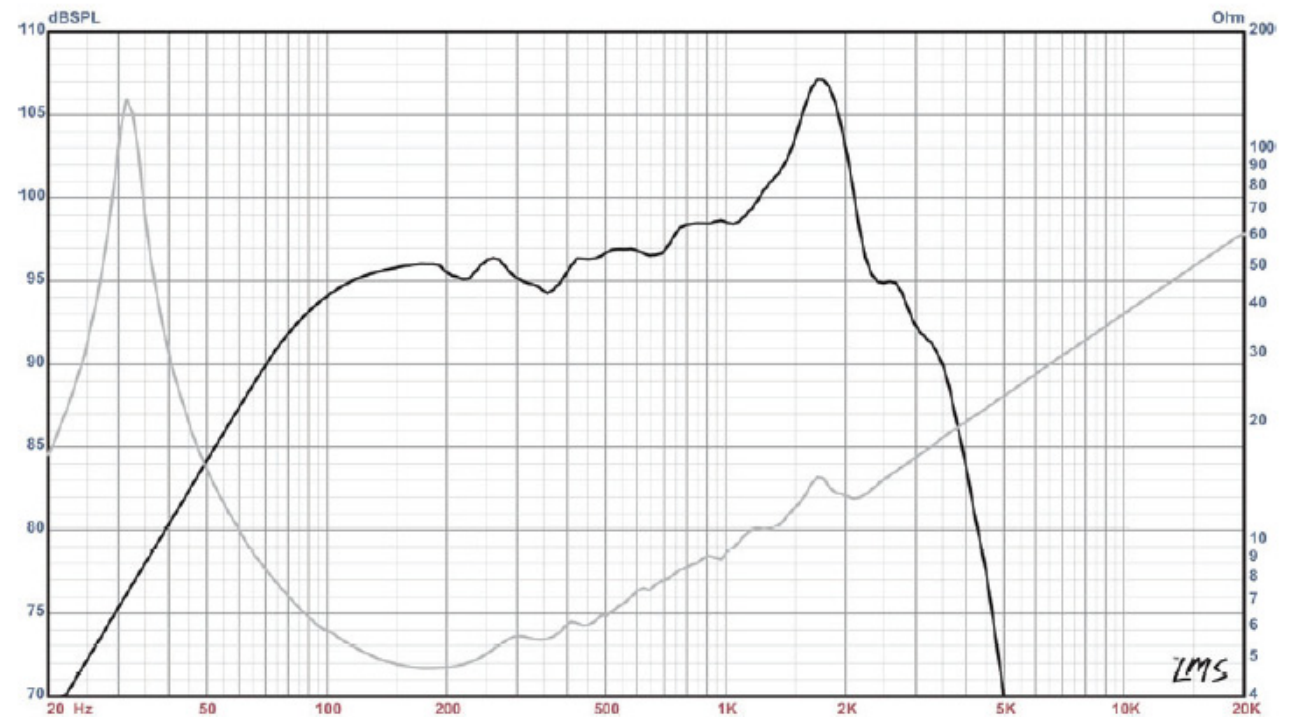
Copper voice coil
 Polyimide former
 Ferrite magnet
 Vented core
 Pressed steel basket
 Paper Cone
 Cloth cone edge
 Solid composition paper dust cap



EMINENCE[®]
 The Art and Science of Sound

KAPPA-15C American Standard Series

Recommended for professional audio in a vented mid-bass or bass enclosure. Also suitable for bass guitar and monitors.



* 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)

Kappa15C Larger Vented Cabinet

By McJerry, Eminence Speaker LLC

Displacement Limited to 100 Watts; F3 of 63 Hz. For Low Pwr FR PA or Bass Guitar

Use a high pass filter set to 40 Hz.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 2.345 cu.ft

V(total) = 2.588 cu.ft

Fb = 52 Hz

QL = 7

F3 = 63.03 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 6.354 in

Driver Properties

--Description--

Name: Kappa-15 (4 ohm)

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Updated Nov 2005

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Solid paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 3 inch (76.2 mm) copper.

Magnet: 80 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 31 Hz

Qms = 10.14

Vas = 329.9 liters

Xmax = 2.4 mm

Sd = 823.7 sq.cm

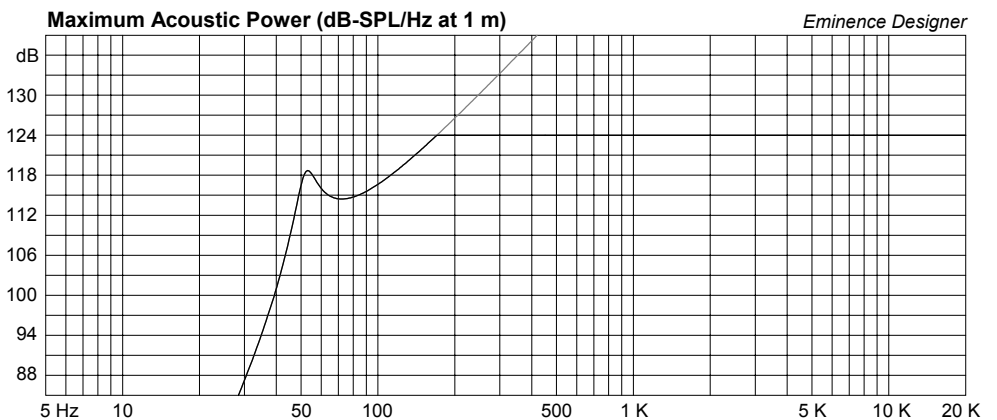
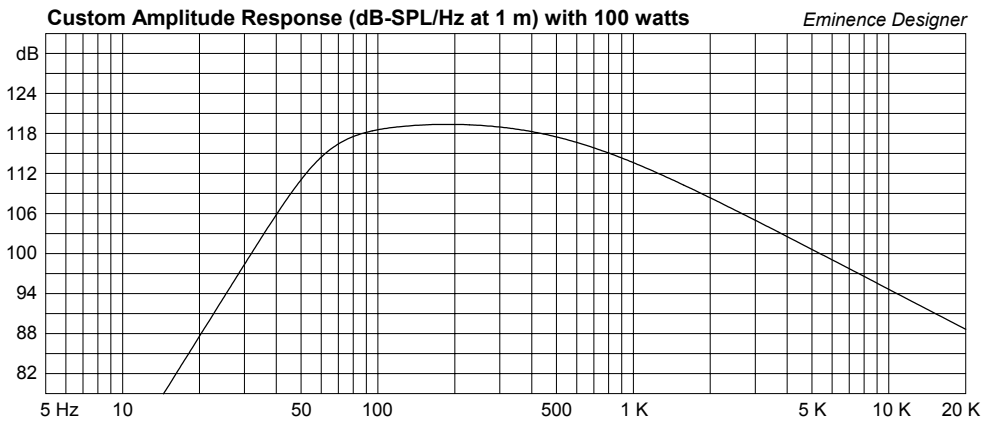
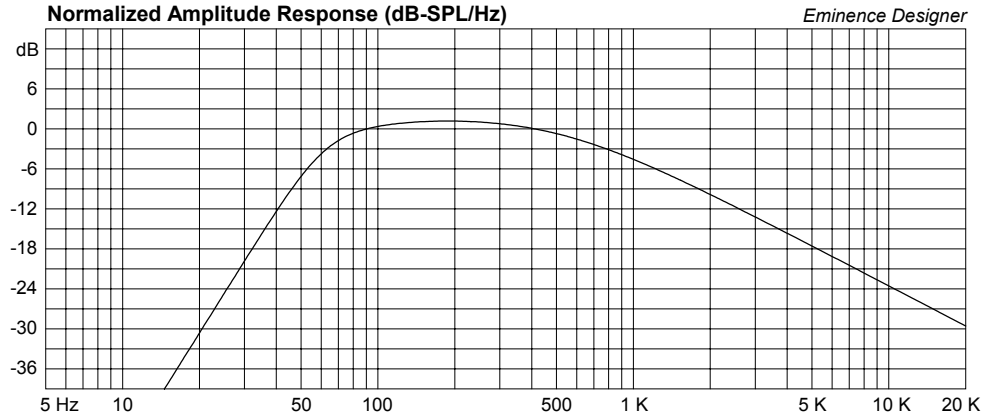
Qes = 0.25

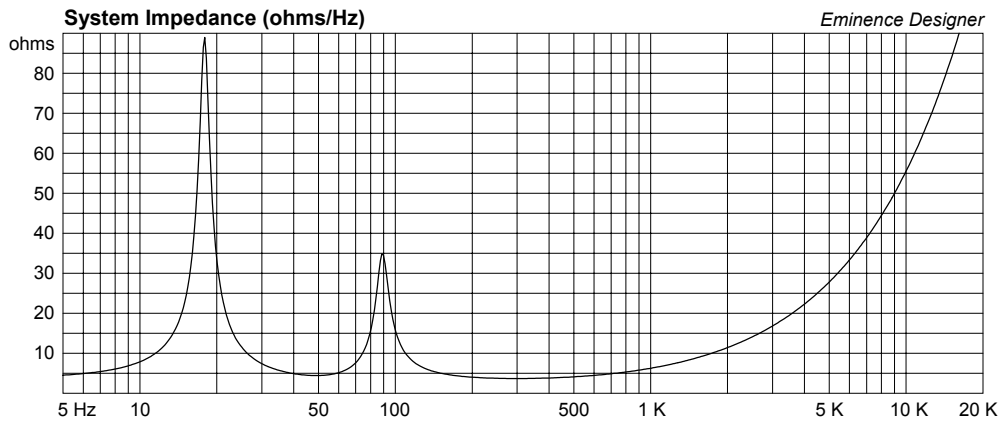
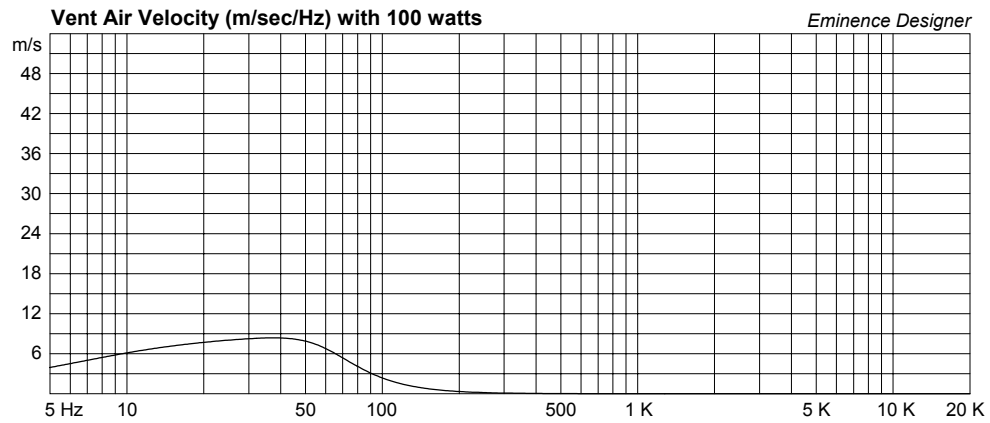
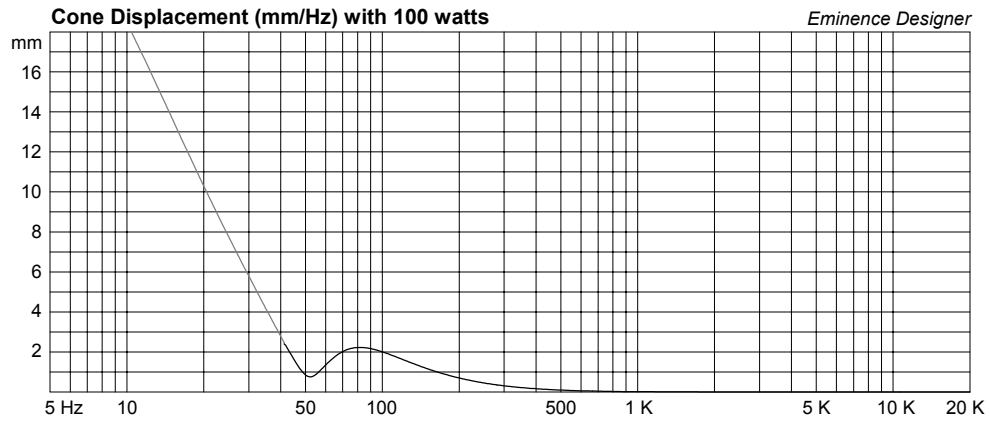
Re = 3.68 ohms

Le = 0.88 mH

Z = 4 ohms

Pe = 450 watts





Kappa15C Med Vented Cabinet

By McJerry, Eminence Speaker LLC

Displacement Limited to 175 Watts if used semi-FR, use a steep High Pass filter set to 80 Hz. F3 of 68 Hz.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 2.15 cu.ft

V(total) = 2.32 cu.ft

Fb = 70 Hz

QL = 7

F3 = 67.97 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 1.93 in

Driver Properties

--Description--

Name: Kappa-15 (4 ohm)

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Updated Nov 2005

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Solid paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 3 inch (76.2 mm) copper.

Magnet: 80 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 31 Hz

Qms = 10.14

Vas = 329.9 liters

Xmax = 2.4 mm

Sd = 823.7 sq.cm

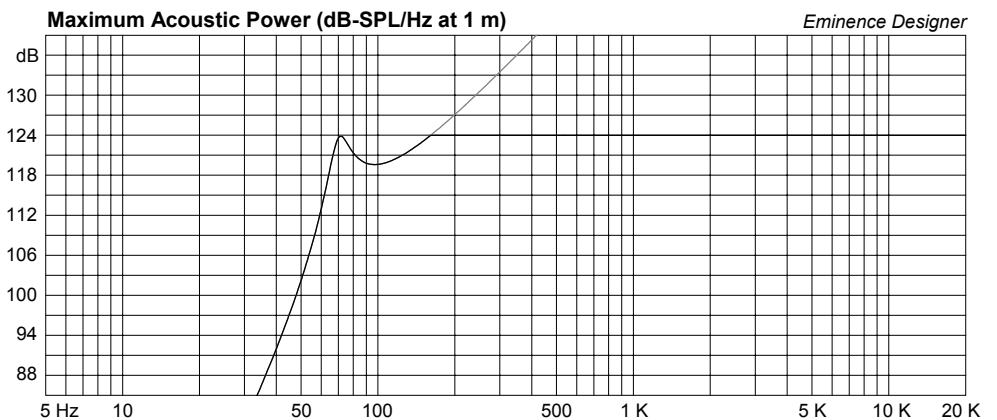
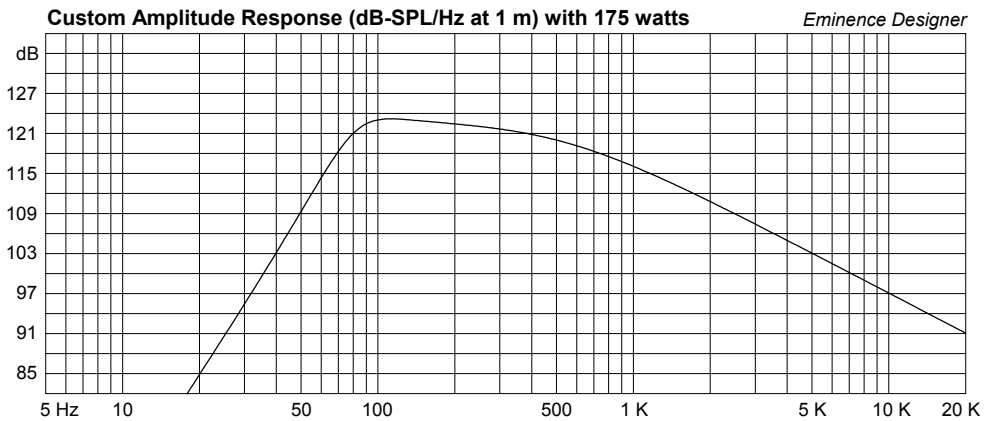
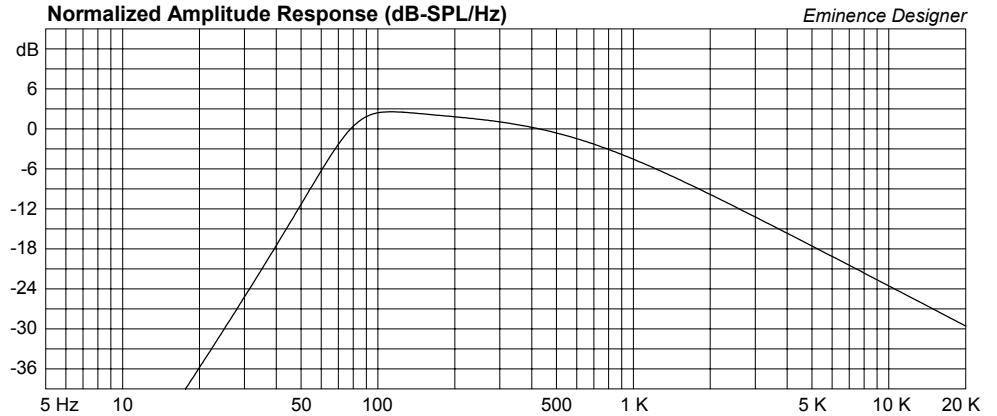
Qes = 0.25

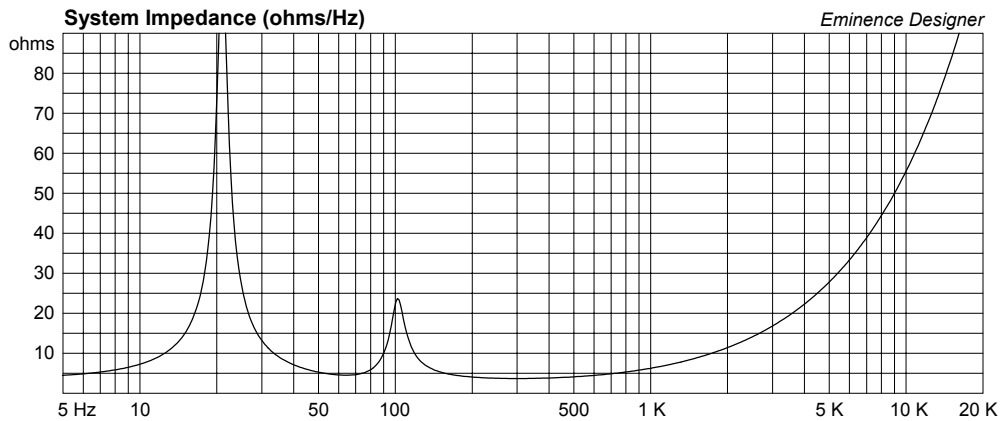
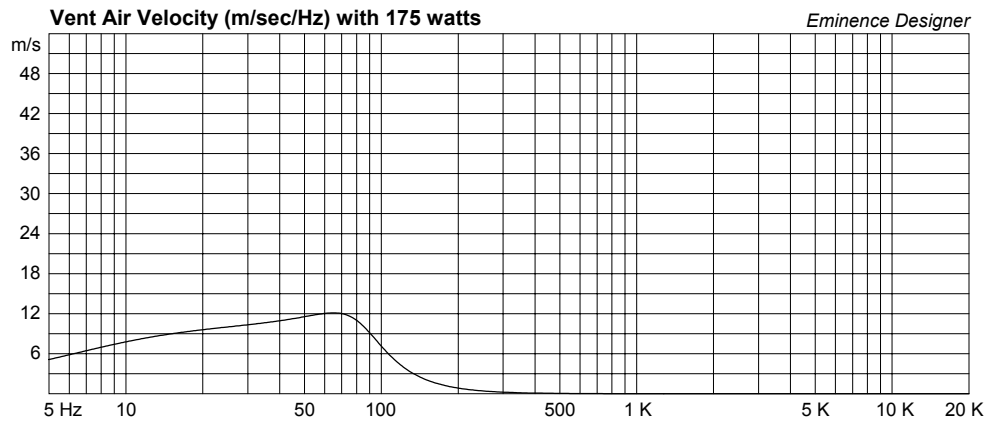
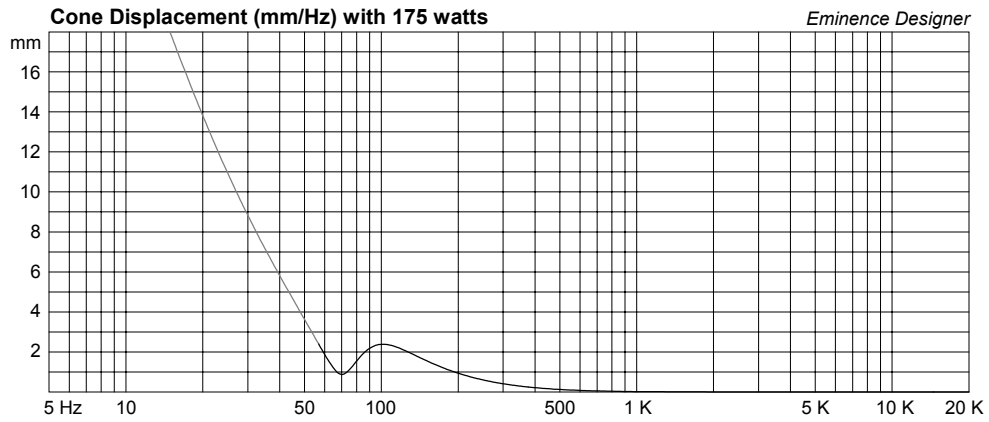
Re = 3.68 ohms

Le = 0.88 mH

Z = 4 ohms

Pe = 450 watts





Kappa15C Hi Pwr Mid/Hi PA Sat Cabinet

By McJerry, Eminence Speaker LLC

Thermally Limited to 450 Watts; F3 of 91 Hz. Must use a steep high pass filter set to 100 Hz or higher.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 1.25 cu.ft

V(total) = 1.4 cu.ft

Fb = 100 Hz

QL = 7

F3 = 91.27 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 3.919 in

Lv = 0.75 in

Driver Properties

--Description--

Name: Kappa-15 (4 ohm)

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Updated Nov 2005

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Solid paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 3 inch (76.2 mm) copper.

Magnet: 80 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 31 Hz

Qms = 10.14

Vas = 329.9 liters

Xmax = 2.4 mm

Sd = 823.7 sq.cm

Qes = 0.25

Re = 3.68 ohms

Le = 0.88 mH

Z = 4 ohms

Pe = 450 watts

