

Specification

Nominal Basket Diameter	15", 381mm
Nominal Impedance*	8 ohms
Power Rating**	
Watts	300W
Music Program	600W
Resonance	34Hz
Usable Frequency Range***	47Hz-3kHz
Sensitivity	98
Magnet Weight	80 oz
Gap Height	0.375", 9.53mm
Voice Coil Diameter	2.5", 63.5mm

Thiele & Small Parameters

Resonant Frequency (fs)	34Hz
DC Resistance (Re)	6.15
Coil Inductance (Le)	0.33mH
Mechanical Q (Qms)	5.9
Electromagnetic Q (Qes)	0.36
Total Q (Qts)	0.34
Compliance Equivalent Volume (Vas)	336 ltr/11.9 cu. ft.
Peak Diaphragm Displacement Volume (Vd)	411cc
Mechanical Compliance of Suspension (Cms)	0.31mm/N
BL Product (BL)	16.0 T-M
Diaphragm Mass inc. Airlod (Mms)	70 grams
Efficiency Bandwidth Product (EBP)	95
Maximum Linear Excursion (Xmax)	4.8mm
Surface Area of Cone (Sd)	856.3cm ²
Maximum Mechanical Limit (Xlim)	9.5mm

Mounting Information

Recommended Enclosure Volume	
Sealed	54-65 ltr/1.9-2.3 cu. ft.
Vented	54-159 ltr/1.9-5.6 cu. ft.
Overall Diameter	15.21", 386.4mm
Baffle Hole Diameter	14.0", 355.3mm
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	6.5", 165mm
Net Weight	17.3 lbs, 7.9 kg
Shipping Weight	19.4 lbs, 8.8 kg

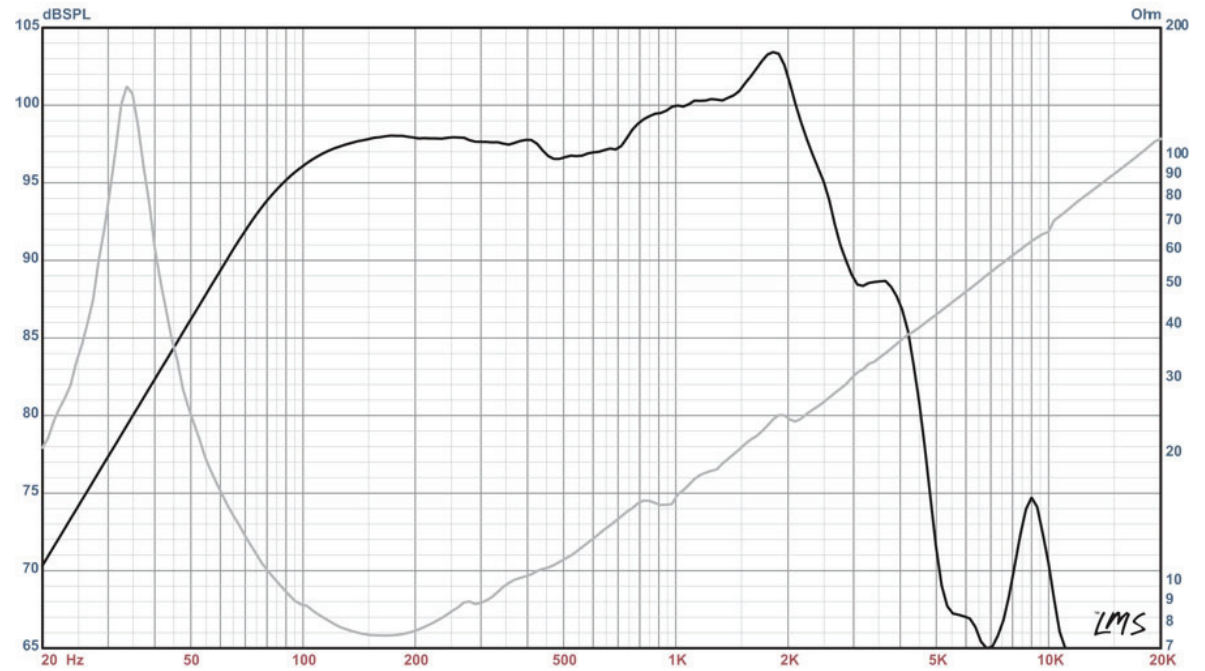
Materials of Construction

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



LEGEND CB15

Recommended for professional bass guitar applications in a sealed or 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, 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)

Legend CB15 Larger Vented Bass Guitar Cabinet

By McJerry, Eminence Speaker LLC

Displacement Limited to 200 Watts; F3 of 47 Hz. Use a steep High Pass filter set to 40 Hz to protect woofer.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 5.347 cu.ft

V(total) = 5.588 cu.ft

Fb = 47 Hz

QL = 7

F3 = 47.11 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 1.207 in

Driver Properties

--Description--

Name: Legend CB15

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Paper dust cap.

Frame: Cast aluminum frame.

Voice Coil: 2.5 inch (63.5 mm) copper coil.

Magnet: 80 oz magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 34.2 Hz

Qms = 5.901

Vas = 336.1 liters

Xmax = 4.8 mm

Sd = 856.3 sq.cm

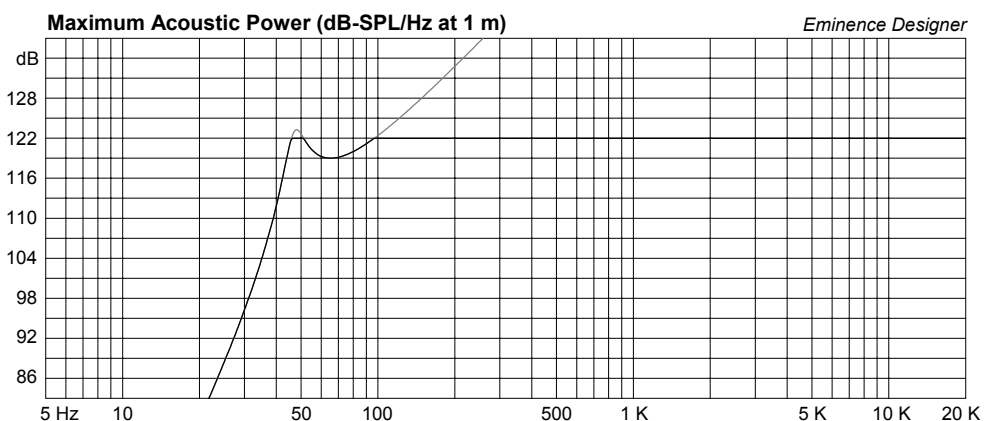
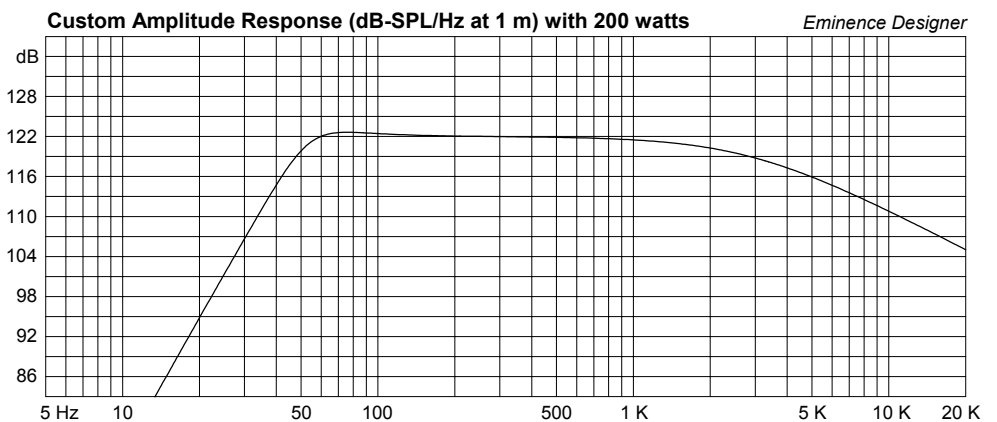
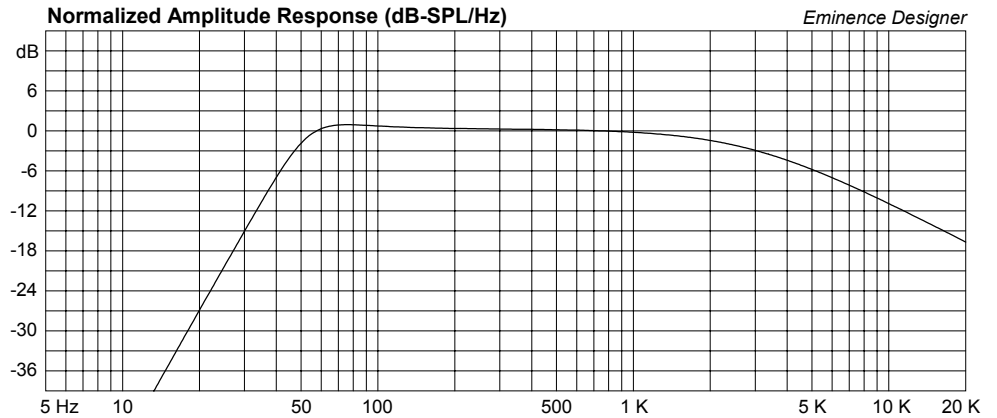
Qes = 0.359

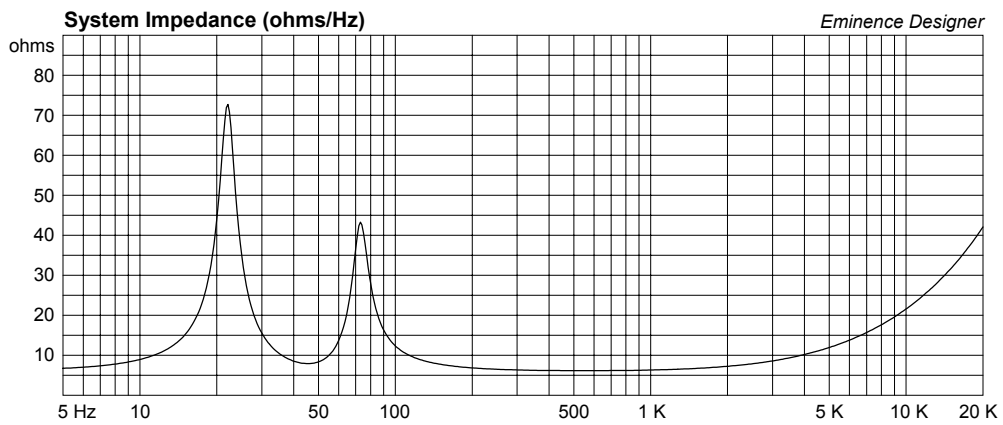
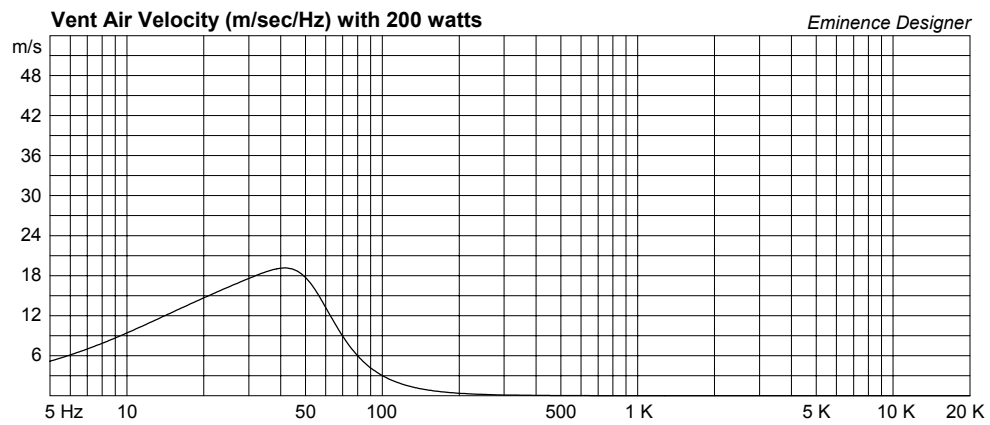
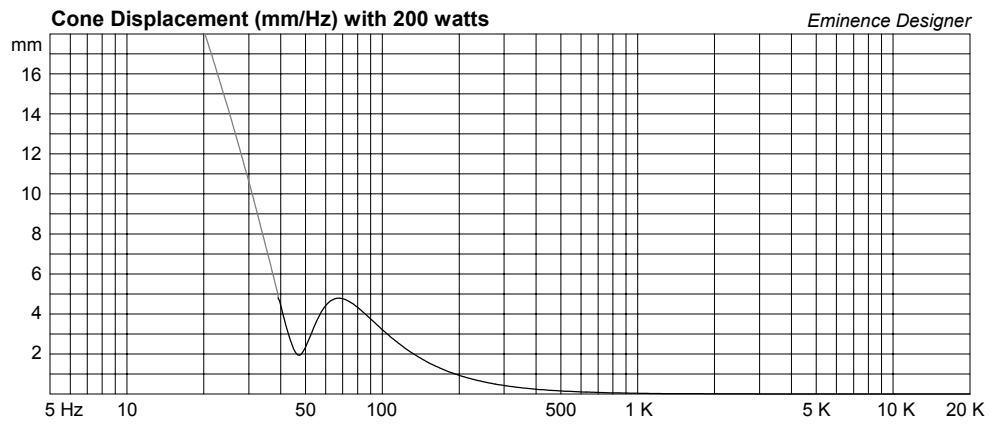
Re = 6.15 ohms

Le = 0.33 mH

Z = 8 ohms

Pe = 300 watts





Legend CB15 Medium Vented Bass Guitar Cabinet

By McJerry, Eminence Speaker LLC

Thermally Limited to 300 Watts; F3 of 61 Hz. Use a steep high pass filter set to 40 Hz to protect woofer from overexcursion.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 2.75 cu.ft

V(total) = 3.061 cu.ft

Fb = 50 Hz

QL = 7

F3 = 60.69 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 5.49 in

Driver Properties

--Description--

Name: Legend CB15

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Paper dust cap.

Frame: Cast aluminum frame.

Voice Coil: 2.5 inch (63.5 mm) copper coil.

Magnet: 80 oz magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 34.2 Hz

Qms = 5.901

Vas = 336.1 liters

Xmax = 4.8 mm

Sd = 856.3 sq.cm

Qes = 0.359

Re = 6.15 ohms

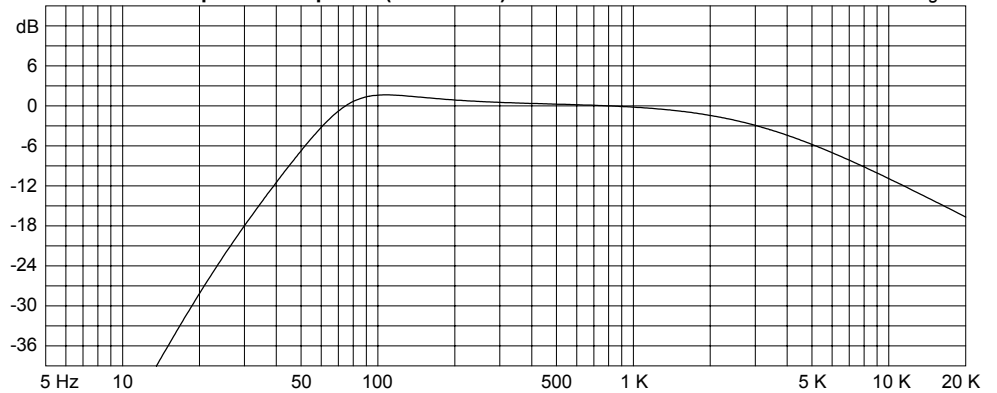
Le = 0.33 mH

Z = 8 ohms

Pe = 300 watts

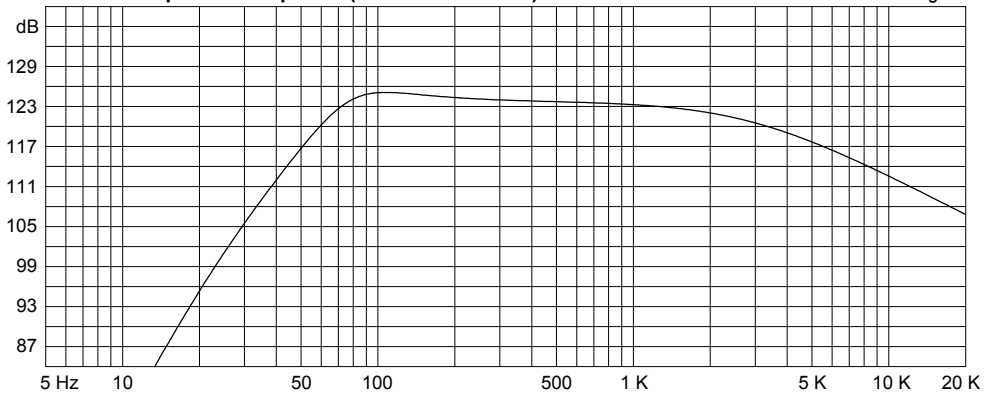
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



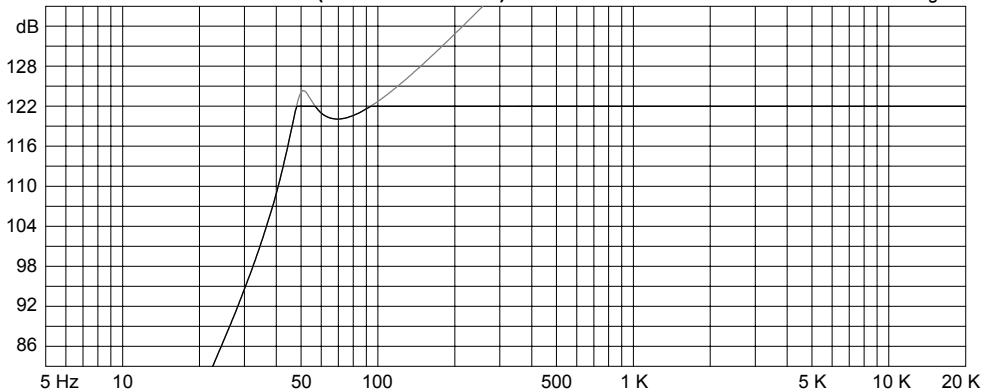
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 300 watts

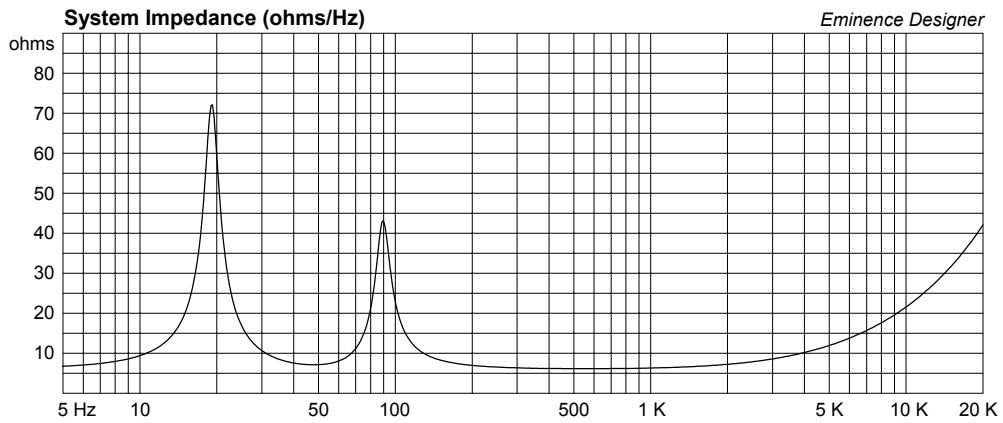
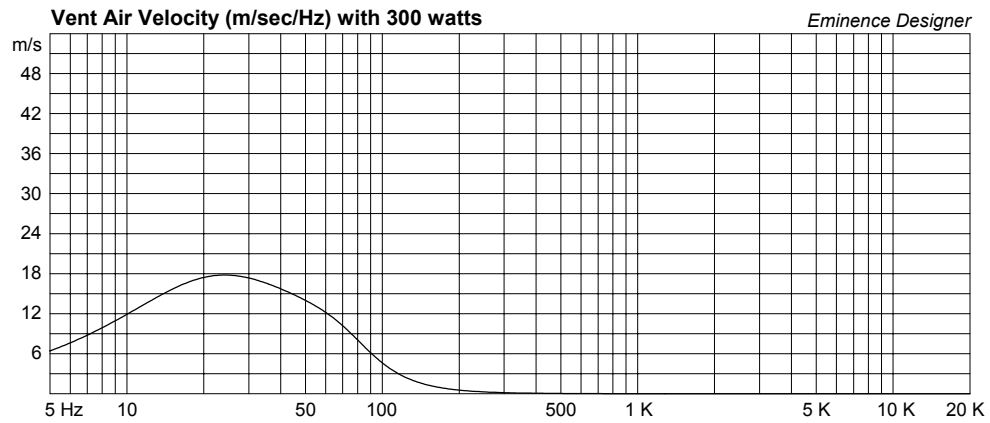
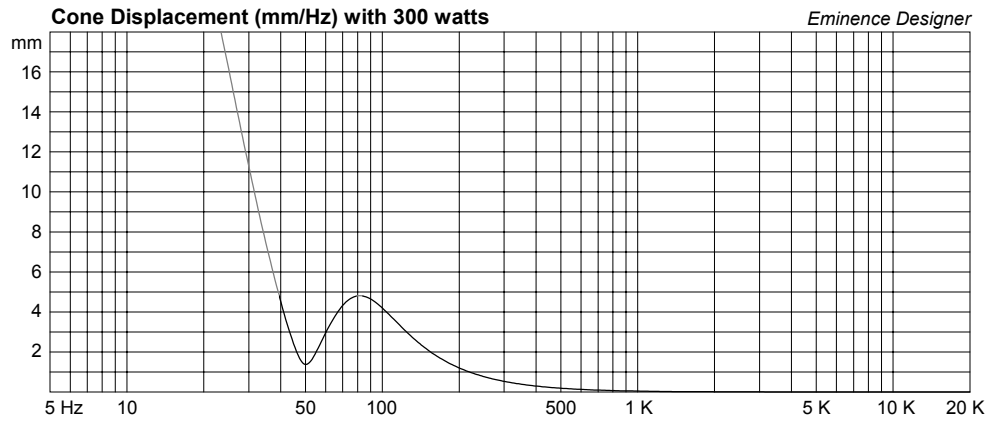
Eminence Designer



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

Eminence Designer





Legend CB15 Small Sealed Bass Guitar Cabinet

By McJerry, Eminence Speaker LLC

Limited to 200 Watts; F3 of 87 Hz with a slow roll off. Tight and Punchy, very clean and non-boomy.

Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 1.7 cu.ft

V(total) = 1.921 cu.ft

Qtc = 0.721

QL = 18.28

F3 = 87.73 Hz

Fill = heavy

Driver Properties

--Description--

Name: Legend CB15

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Paper dust cap.

Frame: Cast aluminum frame.

Voice Coil: 2.5 inch (63.5 mm) copper coil.

Magnet: 80 oz magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 34.2 Hz

Qms = 5.901

Vas = 336.1 liters

Xmax = 4.8 mm

Sd = 856.3 sq.cm

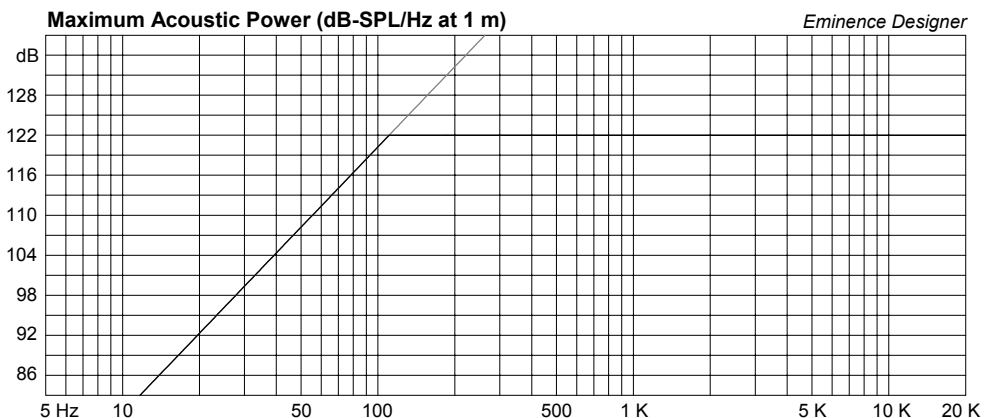
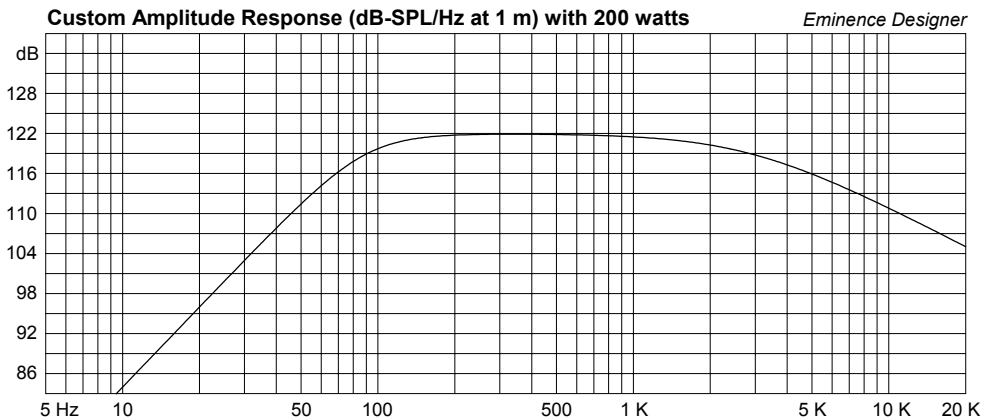
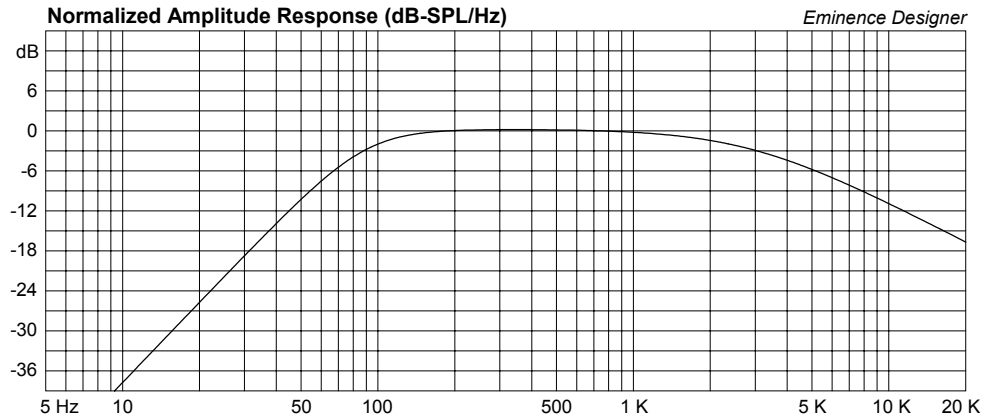
Qes = 0.359

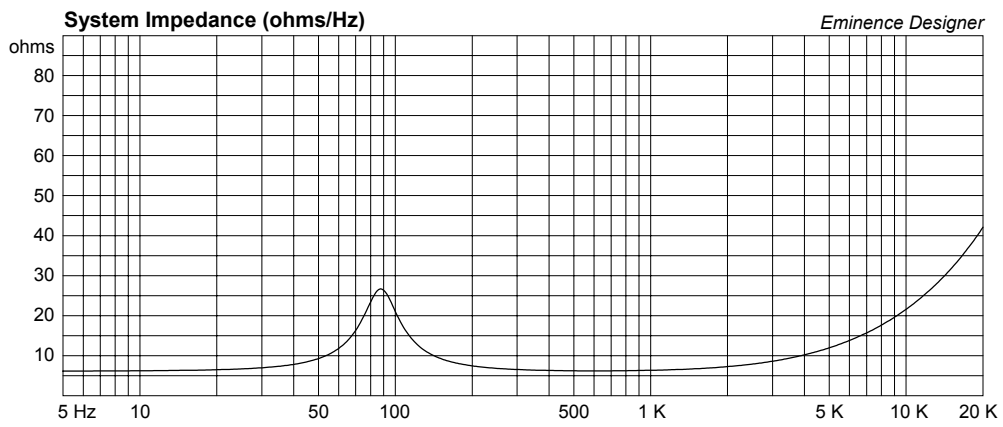
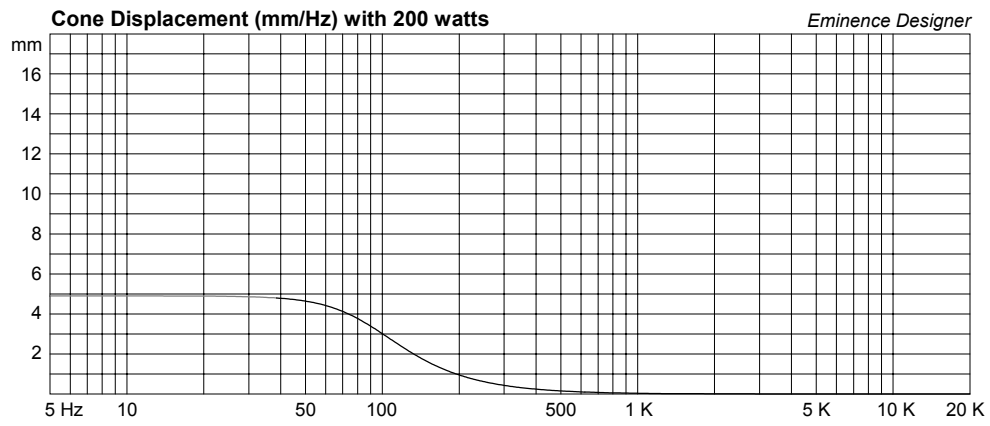
Re = 6.15 ohms

Le = 0.33 mH

Z = 8 ohms

Pe = 300 watts





Legend CB15 Small Vented Bass Guitar Cabinet

By McJerry, Eminence Speaker LLC

Thermally Limited to 300 Watts; F3 of 72 Hz. Use a High Pass filter set to 40 Hz to protect woofer from overexcursion.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 1.769 cu.ft

V(total) = 2.038 cu.ft

Fb = 51 Hz

QL = 7

F3 = 72.14 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 5.048 in

Driver Properties

--Description--

Name: Legend CB15

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Paper dust cap.

Frame: Cast aluminum frame.

Voice Coil: 2.5 inch (63.5 mm) copper coil.

Magnet: 80 oz magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 34.2 Hz

Qms = 5.901

Vas = 336.1 liters

Xmax = 4.8 mm

Sd = 856.3 sq.cm

Qes = 0.359

Re = 6.15 ohms

Le = 0.33 mH

Z = 8 ohms

Pe = 300 watts

