

Specification

Nominal Basket Diameter	10", 254mm
Nominal Impedance*	8 ohms
Power Rating**	
Watts	200W
Music Program	400W
Resonance	48Hz
Usable Frequency Range***	44Hz-4kHz
Sensitivity	93
Magnet Weight	45 oz
Gap Height	0.312", 7.92mm
Voice Coil Diameter	2", 50.8mm

Thiele & Small Parameters

Resonant Frequency (fs)	48Hz
DC Resistance (Re)	6.89
Coil Inductance (Le)	0.67mH
Mechanical Q (Qms)	5.31
Electromagnetic Q (Qes)	0.42
Total Q (Qts)	0.39
Compliance Equivalent Volume (Vas)	65 ltr/2.3 cu. ft.
Peak Diaphragm Displacement Volume (Vd)	104cc
Mechanical Compliance of Suspension (Cms)	0.40mm/N
BL Product (BL)	11.8 T-M
Diaphragm Mass inc. Airload (Mms)	28 grams
Efficiency Bandwidth Product (EBP)	113
Maximum Linear Excursion (Xmax)	3.0mm
Surface Area of Cone (Sd)	344.9cm ²
Maximum Mechanical Limit (Xlim)	8.0mm

Mounting Information

Recommended Enclosure Volume	
Sealed	N/A
Vented	18-85 ltr/0.63-3 cu. ft.
Overall Diameter	10.25", 260.4mm
Baffle Hole Diameter	9.13", 231.8mm
Front Sealing Gasket	Fitted as Standard
Rear Sealing Gasket	
Mounting Holes Diameter	0.28", 7.1mm
Mounting Holes B.C.D.	9.63", 244.5mm
Depth	4.33", 110mm
Net Weight	9.7 lbs, 4.4 kg
Shipping Weight	10.9 lbs, 4.9 kg

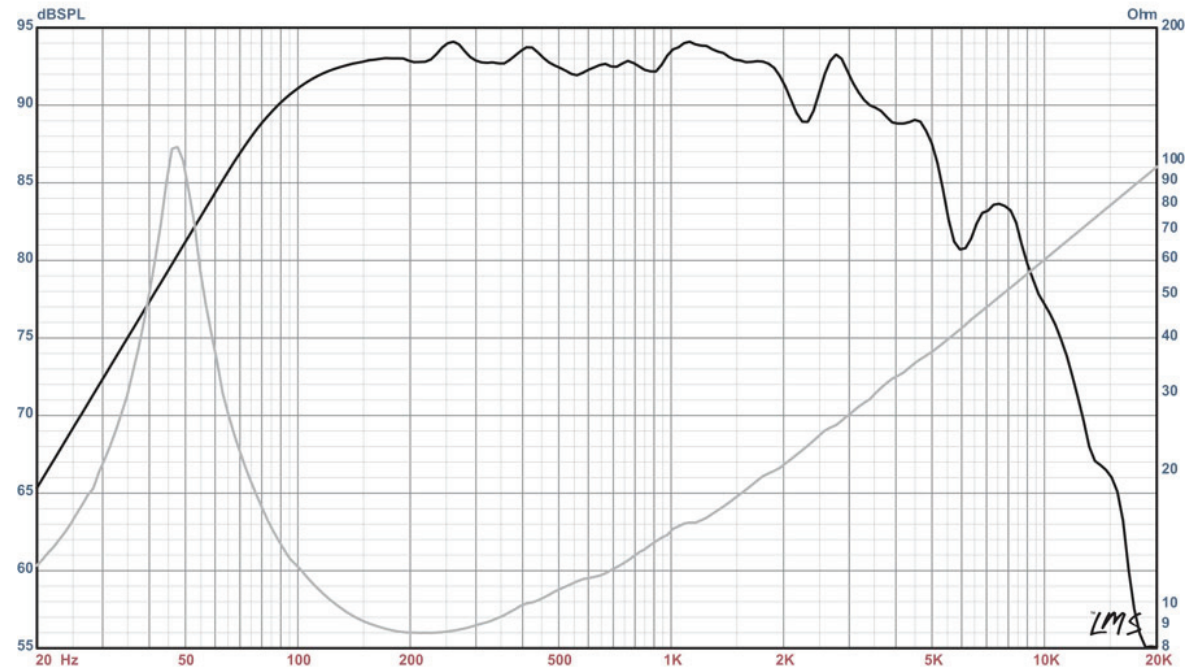
Materials of Construction

Coil Construction	Copper
Coil	Polymide
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 B102

Recommended for professional bass guitar applications in a vented enclosure. Also suitable as a professional audio mid-range.



* 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. le: 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 B102 Larger Vented Bass Guitar Cabinet

By McJerry, Eminence Speaker LLC

Displacement Limited to 35 Watts; F3 of 44 Hz. Use a high pass set to 35 Hz.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 2.835 cu.ft

V(total) = 2.923 cu.ft

Fb = 45 Hz

QL = 7

F3 = 43.52 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 2.136 in

Driver Properties

--Description--

Name: Legend B102

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Solid paper dust cap w/whizzer

Frame: Diecast aluminum basket.

Voice Coil: 2 inch coated aluminum.

Magnet: 59 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 47.5 Hz

Qms = 5.31

Vas = 65.03 liters

Xmax = 3 mm

Sd = 344.9 sq.cm

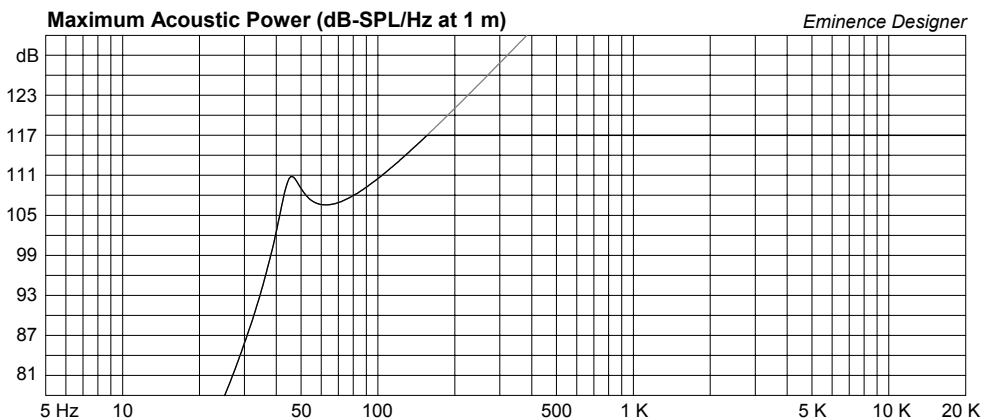
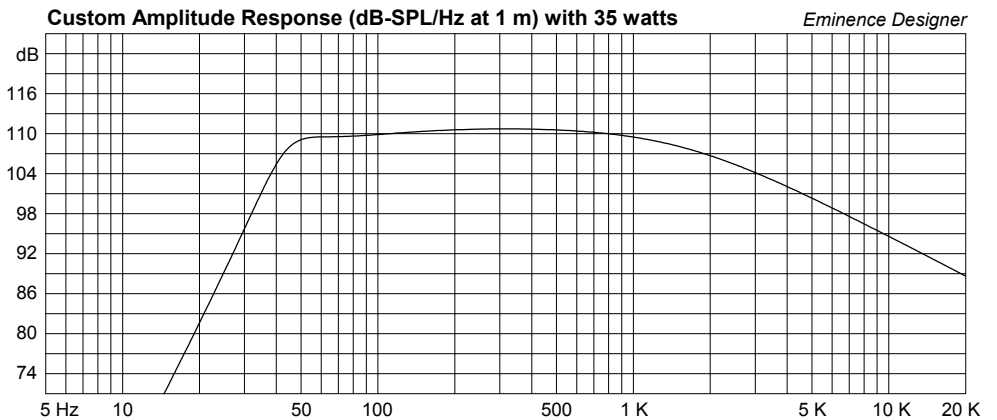
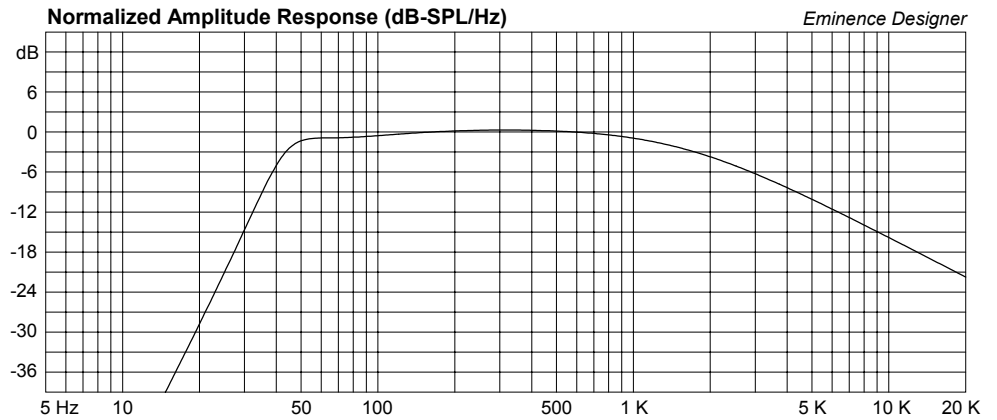
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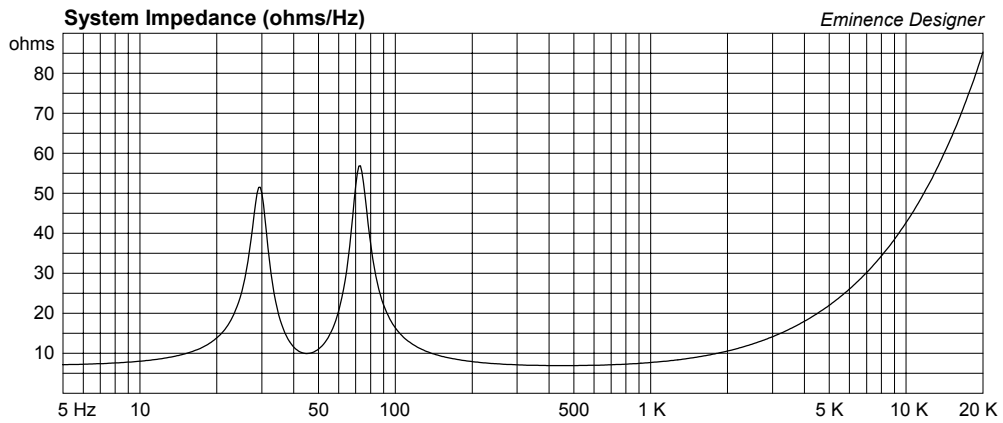
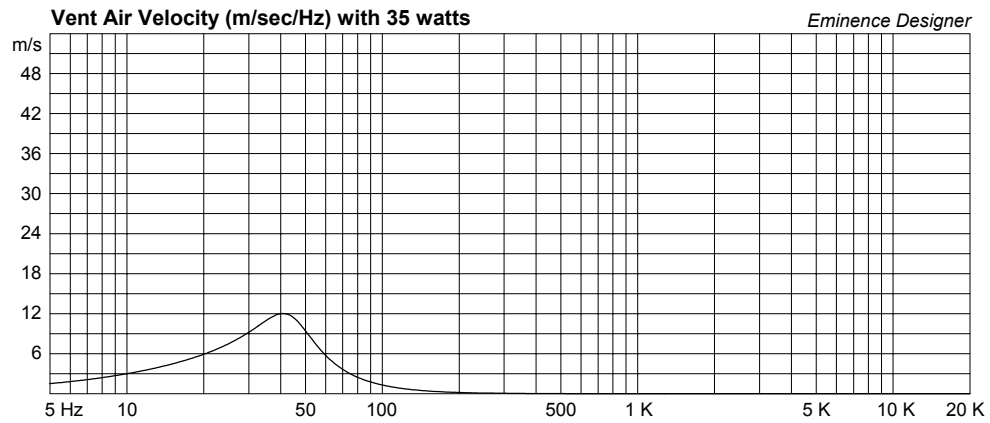
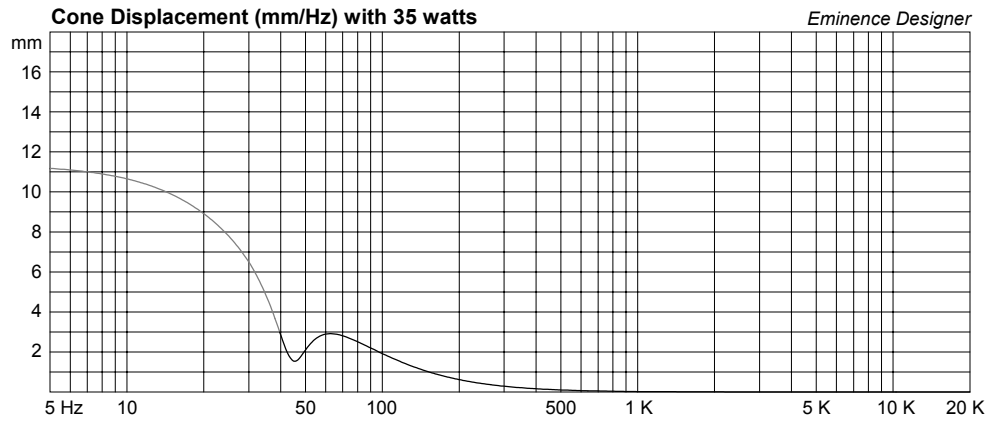
Re = 6.89 ohms

Le = 0.67 mH

Z = 8 ohms

Pe = 200 watts





Legend B102 Med Vented Bass Guitar Cabinet

By McJerry, Eminence Speaker LLC

Displacement Limited to 50 Watts; F3 54 Hz. Use a steep high pass filter set to 40 Hz.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 1.675 cu.ft

V(total) = 1.756 cu.ft

Fb = 48 Hz

QL = 7

F3 = 54.24 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 2.135 in

Driver Properties

--Description--

Name: Legend B102

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Solid paper dust cap w/whizzer

Frame: Diecast aluminum basket.

Voice Coil: 2 inch aluminum.

Magnet: 59 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 47.5 Hz

Qms = 5.31

Vas = 65.03 liters

Xmax = 3 mm

Sd = 344.9 sq.cm

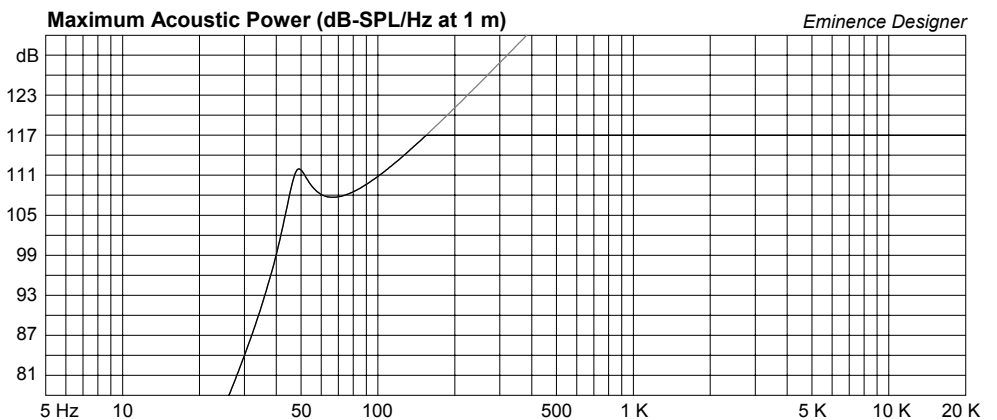
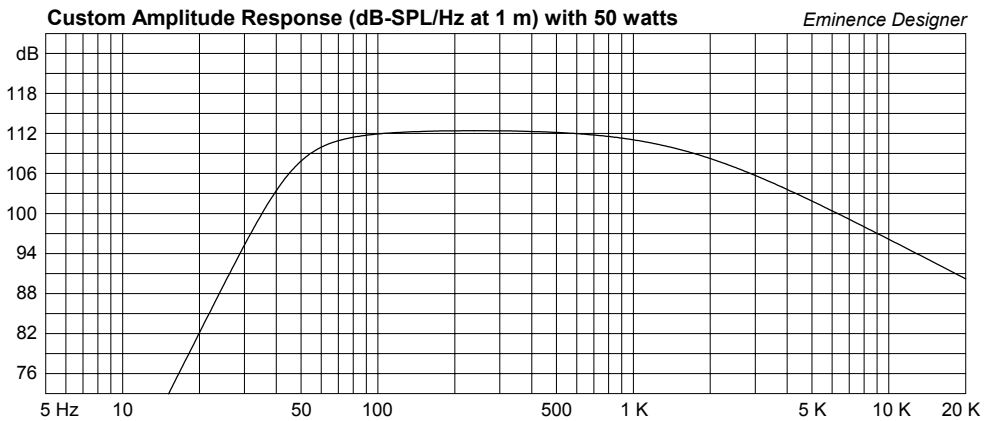
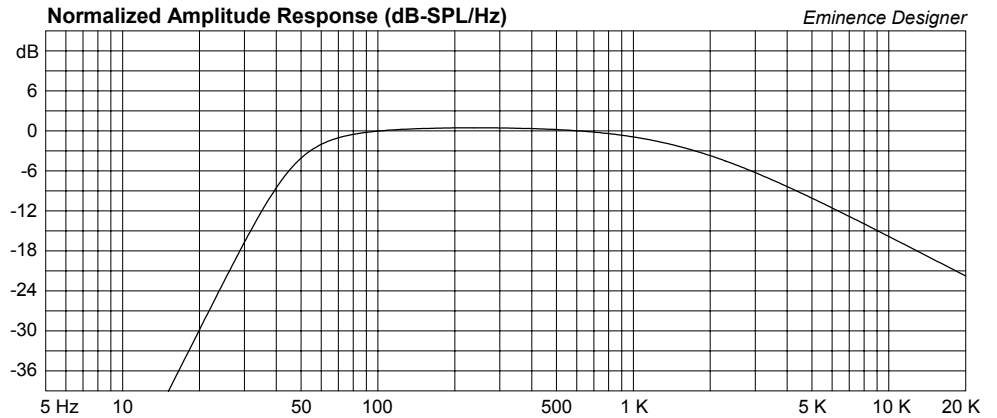
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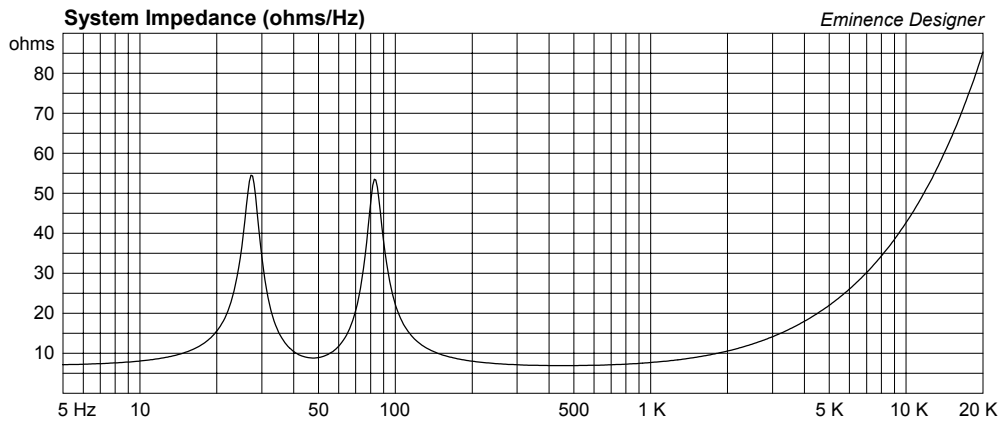
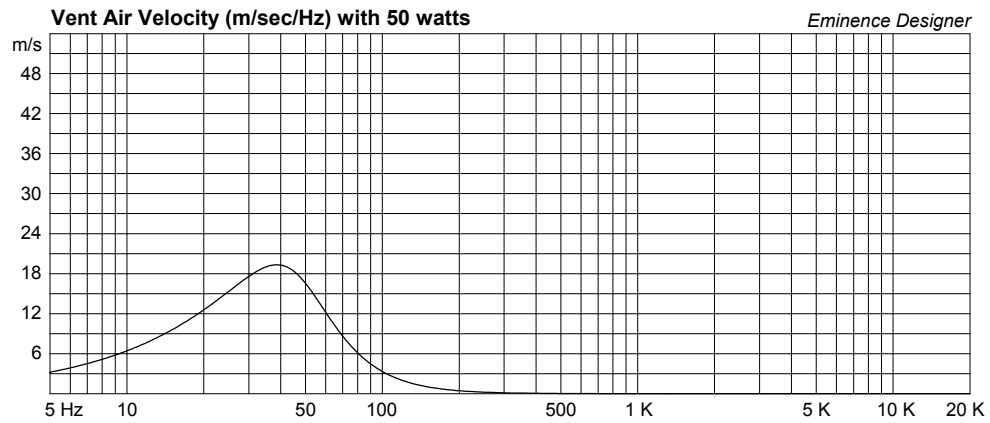
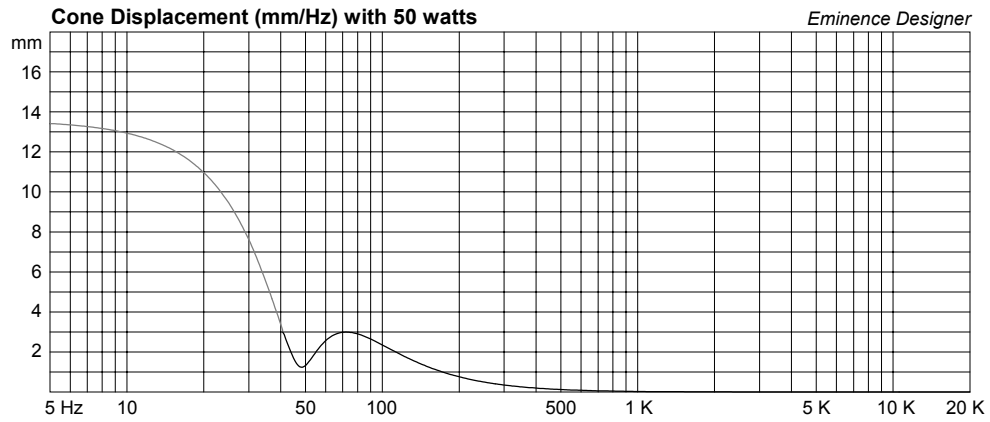
Re = 6.89 ohms

Le = 0.67 mH

Z = 8 ohms

Pe = 200 watts





Legend B102 Small Vented Bass Guitar, Hi Pwr Midrange

By mcJerry, Eminence Speaker LLC

Thermally Limited to 200 Watts; use a steep high pass filter set to 200 Hz.

Not for Full Range use. Use with a woofer system that covers 200Hz and down.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 0.55 cu.ft

V(total) = 0.647 cu.ft

Fb = 95 Hz

QL = 7

F3 = 90.64 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 3.096 in

Driver Properties

--Description--

Name: Legend B102

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Solid paper dust cap w/whizzer

Frame: Diecast aluminum basket.

Voice Coil: 2 inch coated aluminum.

Magnet: 59 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 47.5 Hz

Qms = 5.31

Vas = 65.03 liters

Xmax = 3 mm

Sd = 344.9 sq.cm

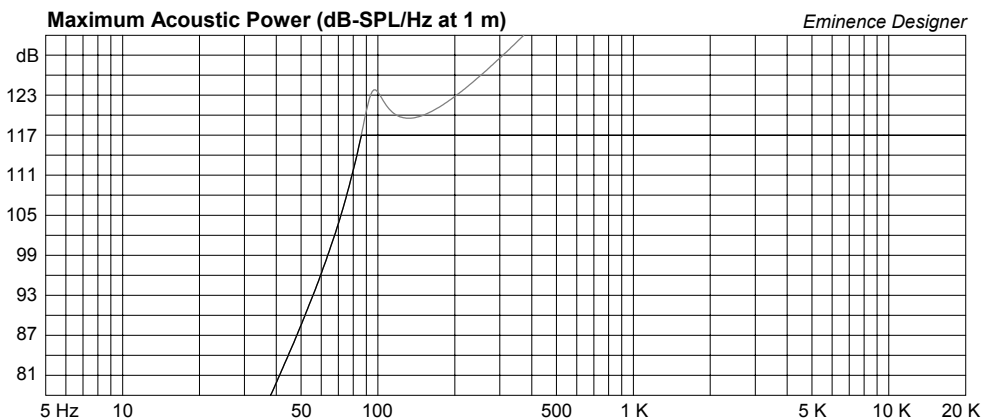
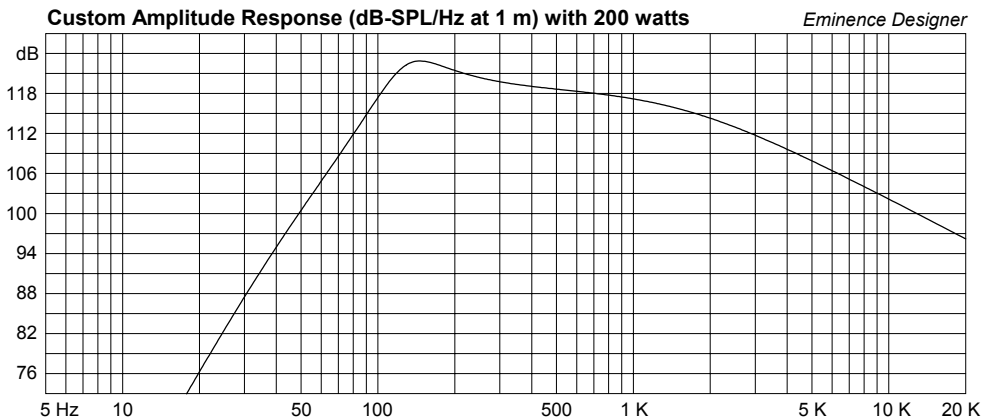
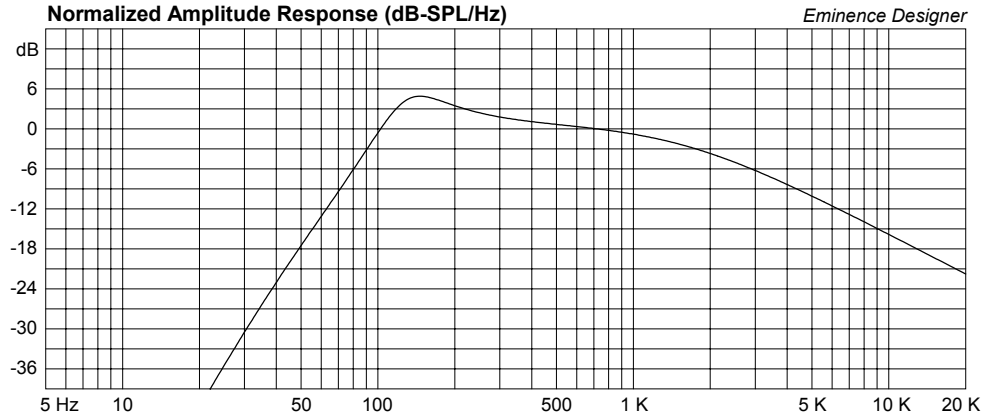
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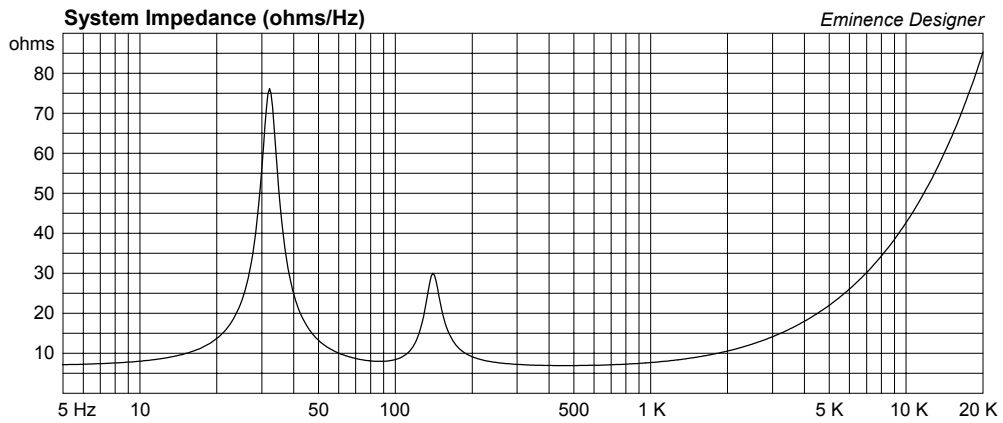
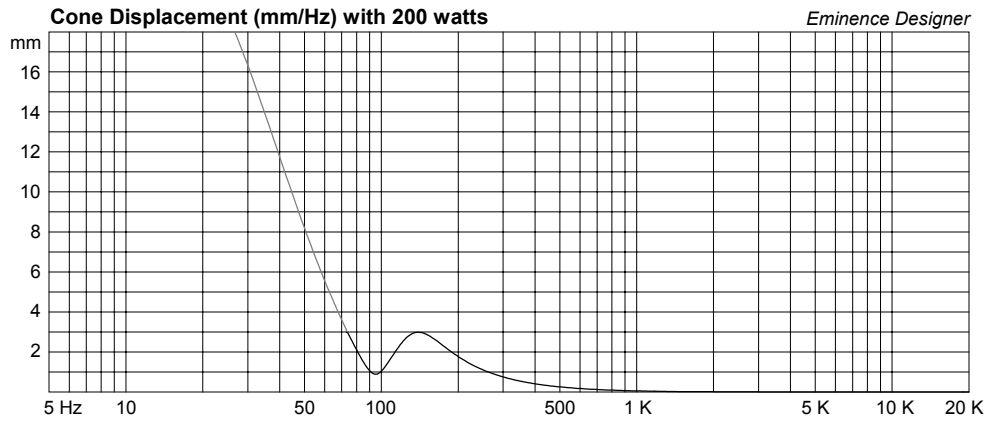
Re = 6.89 ohms

Le = 0.67 mH

Z = 8 ohms

Pe = 200 watts





Legend B102 Small Vented Bass Guitar Cabinet

By McJerry, Eminence Speaker LLC

Displacement Limited to 125 Watts; F3 of 81 Hz. Use a high pass at 40 Hz.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 0.6 cu.ft

V(total) = 0.696 cu.ft

Fb = 64 Hz

QL = 7

F3 = 81.19 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 5.062 in

Driver Properties

--Description--

Name: Legend B102

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised NOV 2005

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Solid paper dust cap w/whizzer

Frame: Diecast aluminum basket.

Voice Coil: 2 inch coated aluminum.

Magnet: 59 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 47.5 Hz

Qms = 5.31

Vas = 65.03 liters

Xmax = 3 mm

Sd = 344.9 sq.cm

Qes = 0.42

Re = 6.89 ohms

Le = 0.67 mH

Z = 8 ohms

Pe = 200 watts

