

Beta10A Med Vented Cab, Bass Guitar/ Low Pwr FR

By Jerry McNutt, Eminence Speaker LLC
Displacement limited to 50 Watts; F3 51 Hz.

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 2.1 cu.ft

V(total) = 2.166 cu.ft

Fb = 55 Hz

QL = 7

F3 = 59.09 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 2.67 in

Driver Properties

--Description--

Name: Beta-10 (8 ohm)

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised Sep-2002

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Solid composition paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 2 inch (50.8 mm) AL Wire. Kapton former.

Magnet: 34 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 53 Hz

Qms = 8.14

Vas = 60.1 liters

Cms = 0.36 mm/N

Mms = 25 g

Rms = 1.03 kg/s

Xmax = 3 mm

Xmech = 8.64 mm

P-Dia = 208.9 mm

Sd = 344.9 sq.cm

P-Vd = 0.104 liters

--Electrical Parameters--

Qes = 0.52

Re = 5.75 ohms

Le = 0.67 mH

Z = 8 ohms

BL = 9.6 Tm

Pe = 250 watts

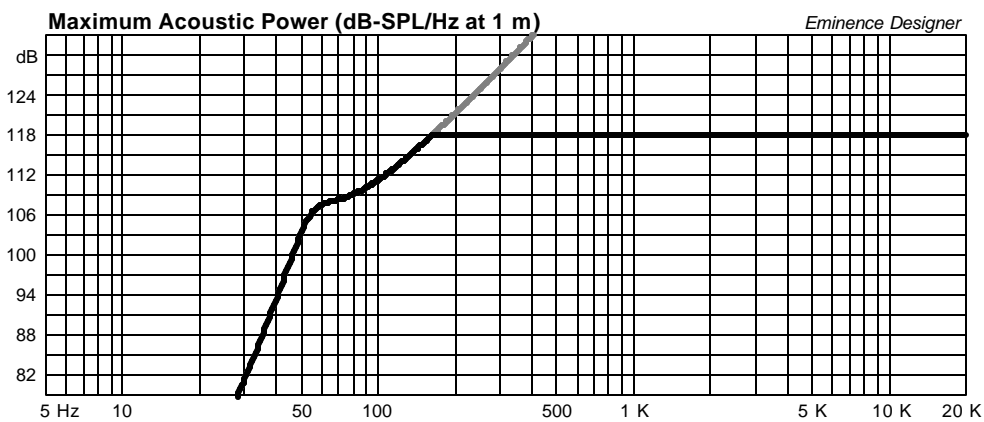
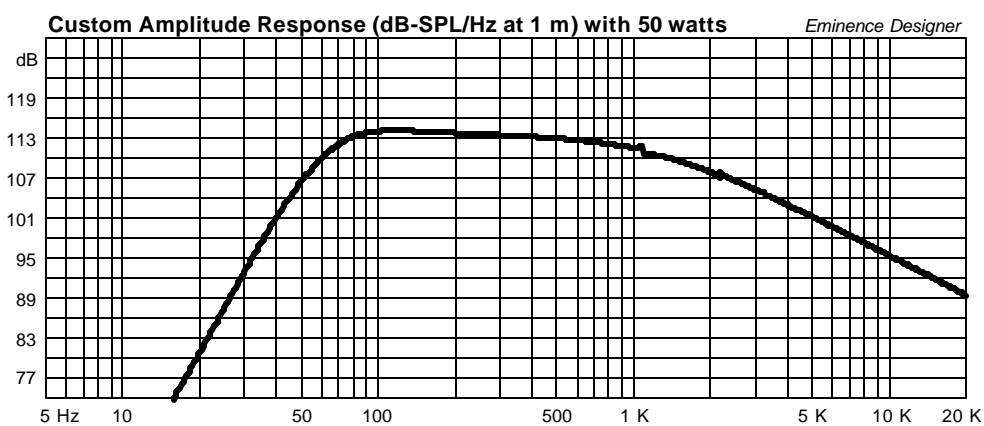
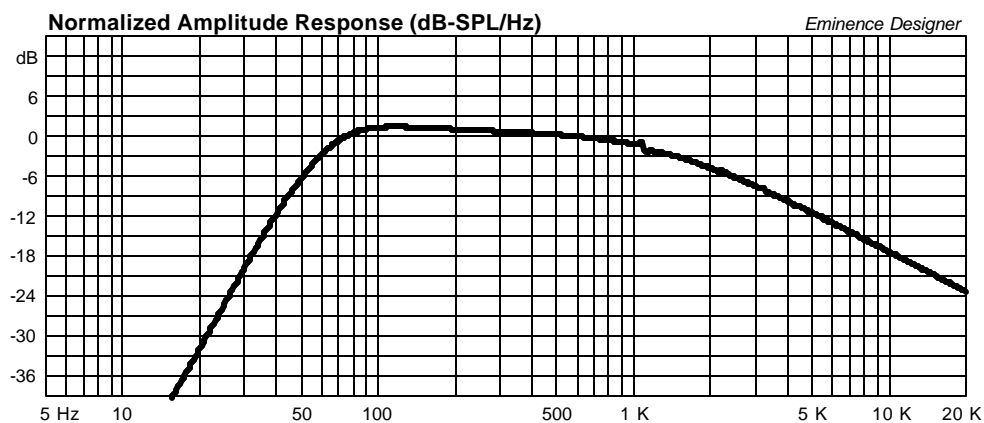
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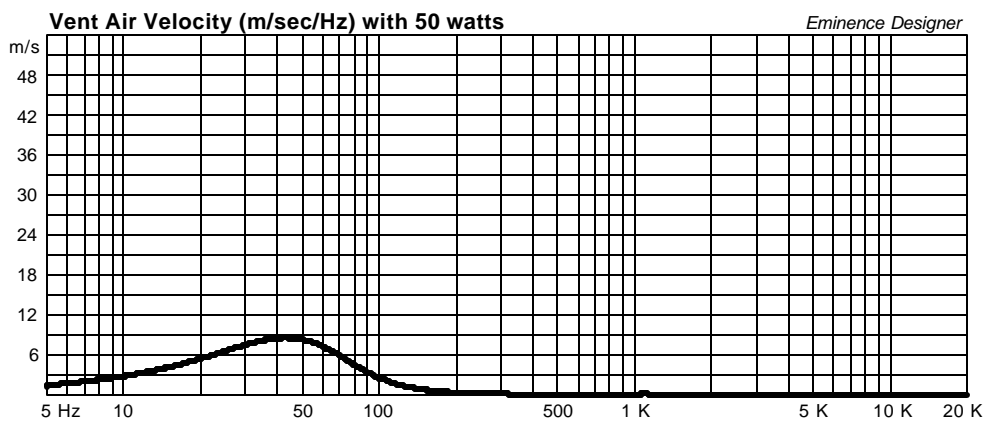
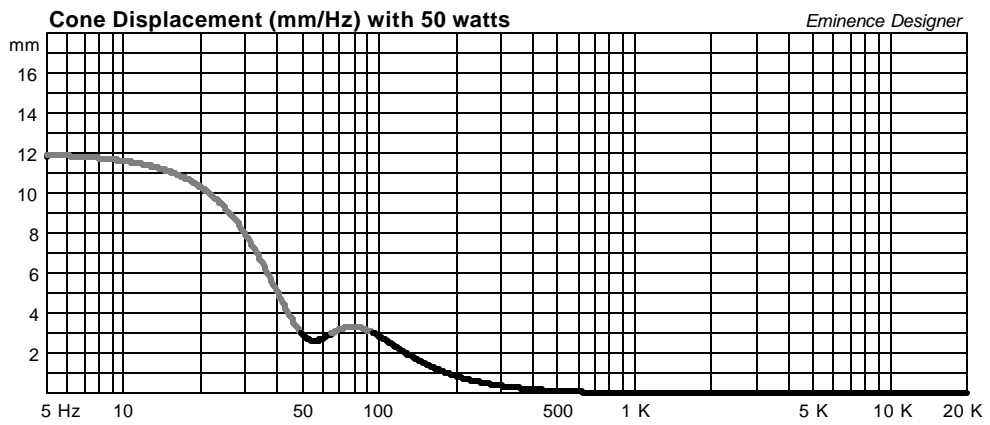
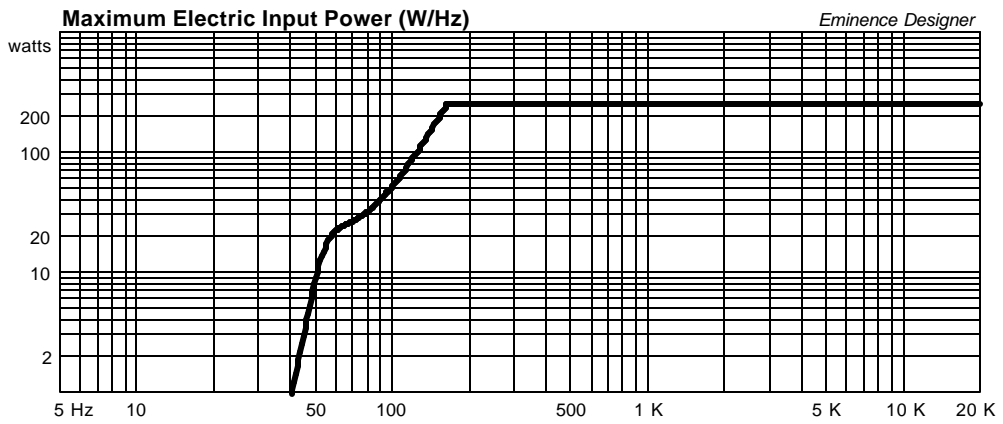
Qts = 0.49

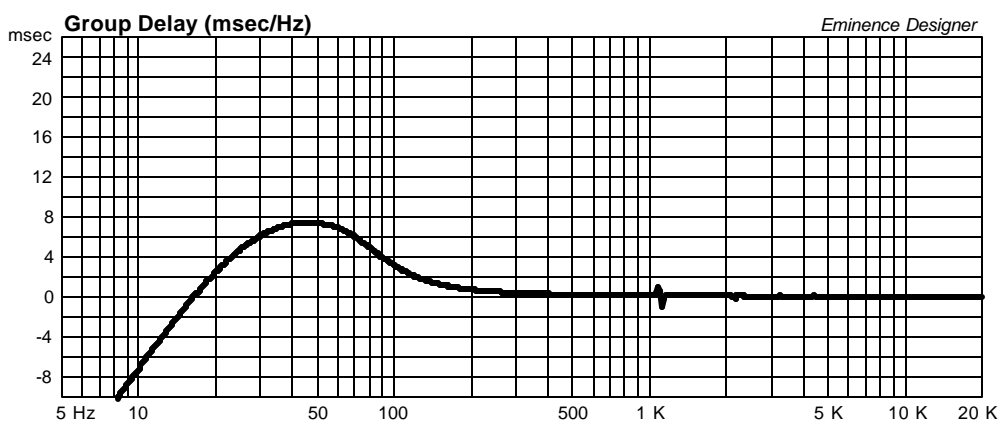
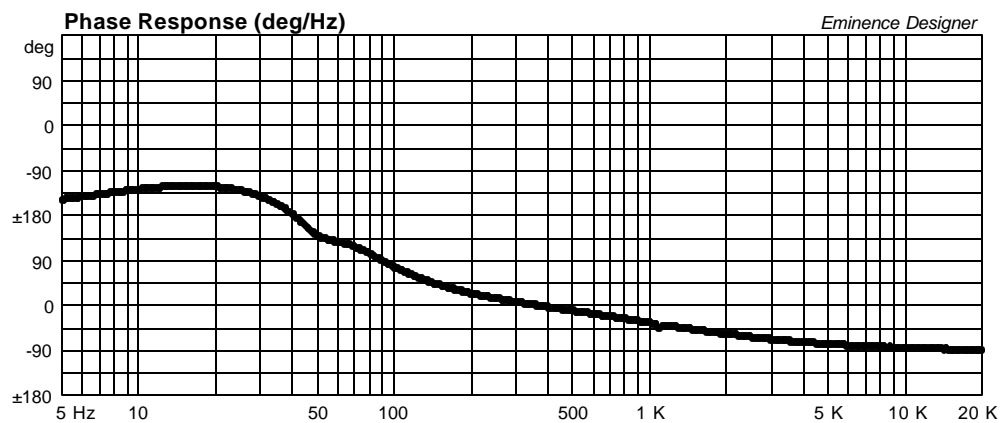
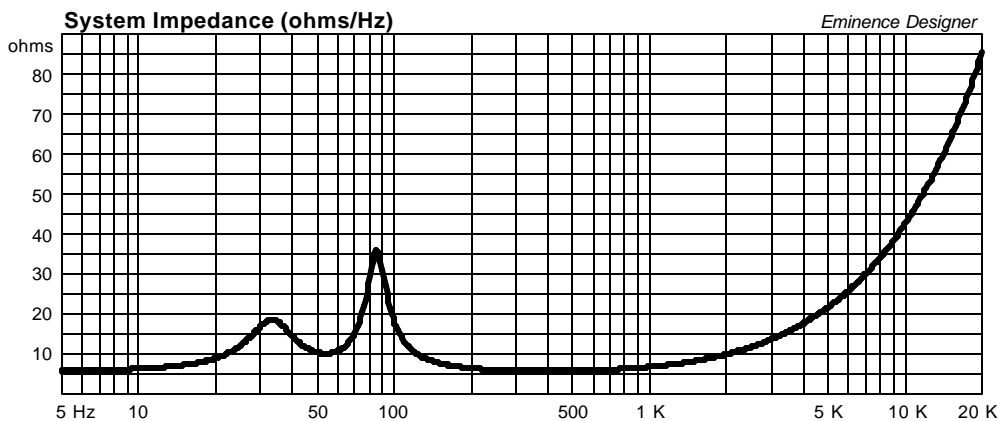
no = 1.659 %

1-W SPL = 94.35 dB

2.83-V SPL = 95.78 dB







Beta10A Sm Vented Mid/High or Low Pwr Public Address

By Jerry McNutt, Eminence Speaker LLC

High Power Mid/High Cabinet: 250 Watt Thermal limit; use above 200 Hz.

Public Address (Semi-Full Range): 100 Watt Displacement Limit; use above 80 Hz

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 0.7 cu.ft

V(total) = 0.757 cu.ft

Fb = 65.39 Hz

QL = 7

F3 = 82.55 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 3.62 in

Driver Properties

--Description--

Name: Beta-10 (8 ohm)

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised Sep-2002

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Solid composition paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 2 inch (50.8 mm) AL Wire. Kapton former.

Magnet: 34 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 53 Hz

Qms = 8.14

Vas = 60.1 liters

Cms = 0.36 mm/N

Mms = 25 g

Rms = 1.03 kg/s

Xmax = 3 mm

Xmech = 8.64 mm

P-Dia = 208.9 mm

Sd = 344.9 sq.cm

P-Vd = 0.104 liters

--Electrical Parameters--

Qes = 0.52

Re = 5.75 ohms

Le = 0.67 mH

Z = 8 ohms

BL = 9.6 Tm

Pe = 250 watts

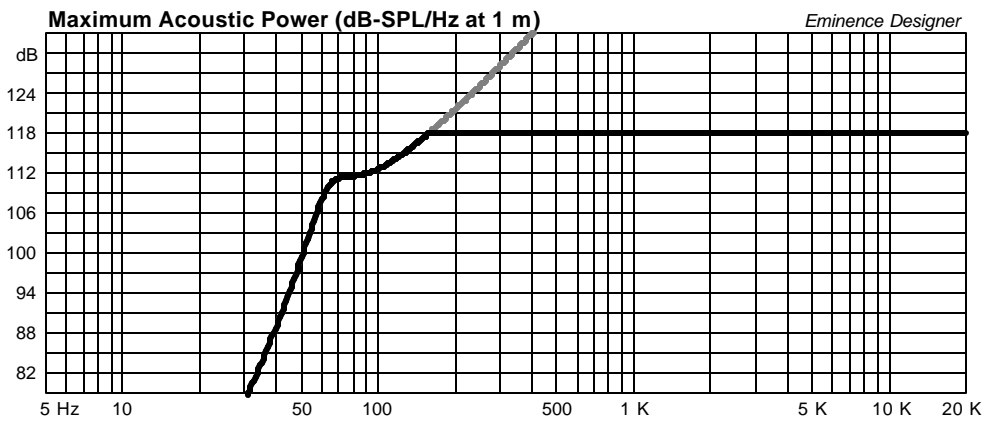
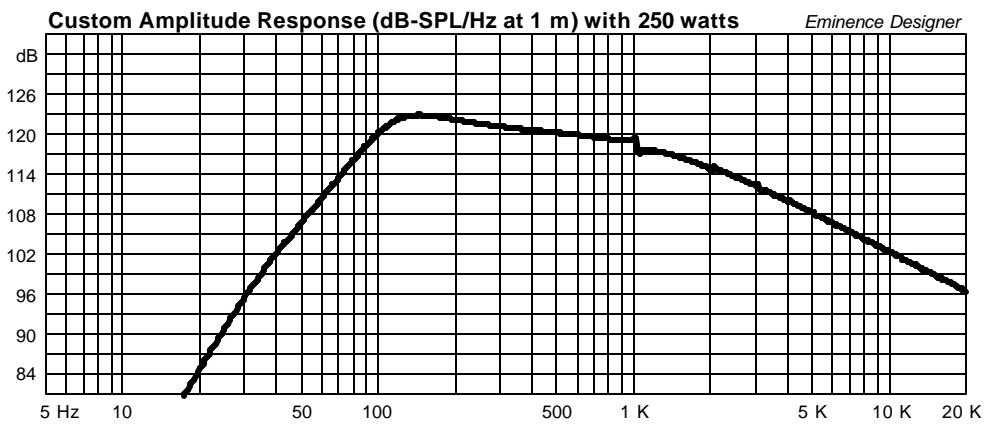
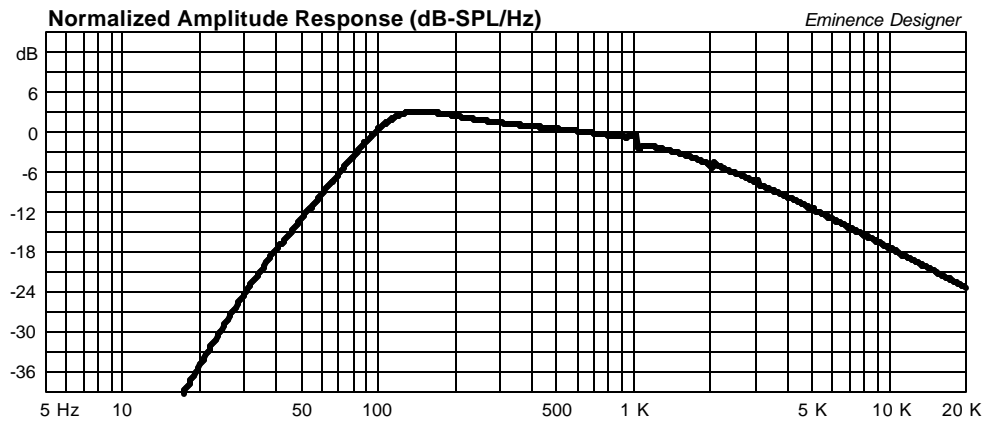
--Electromech. Parameters--

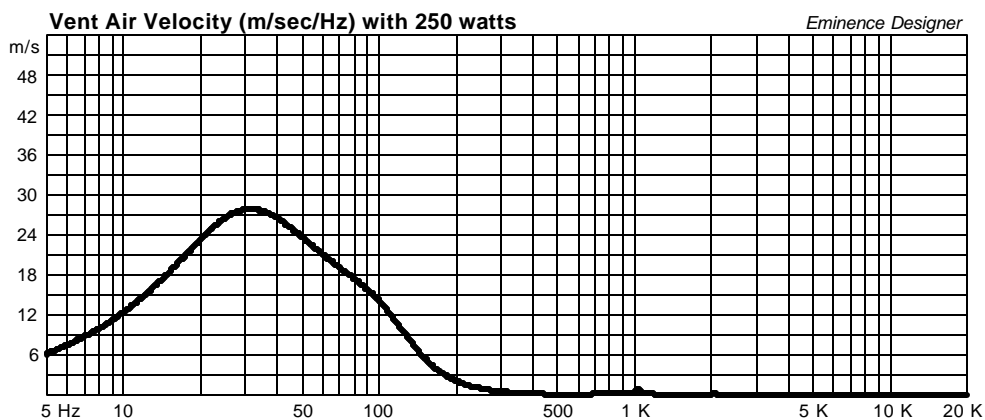
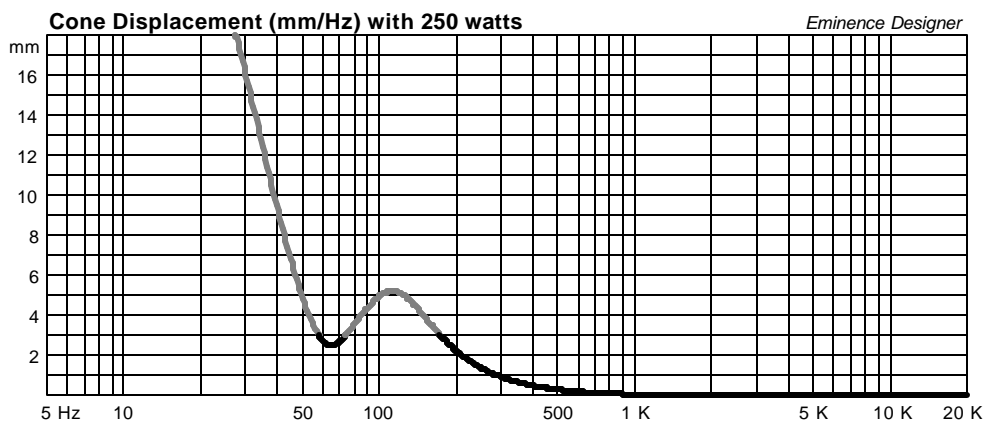
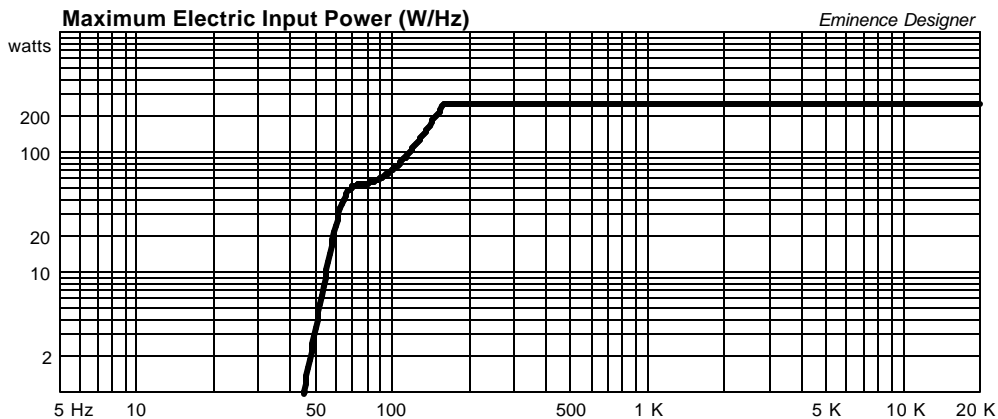
Qts = 0.49

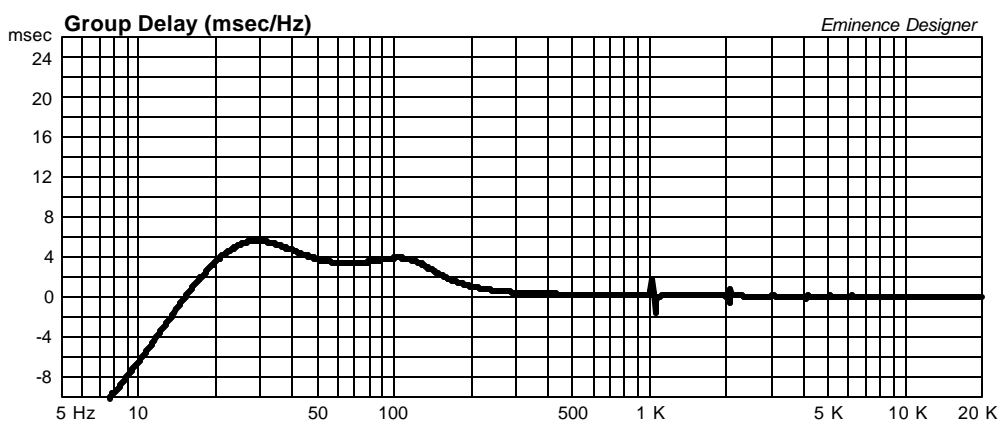
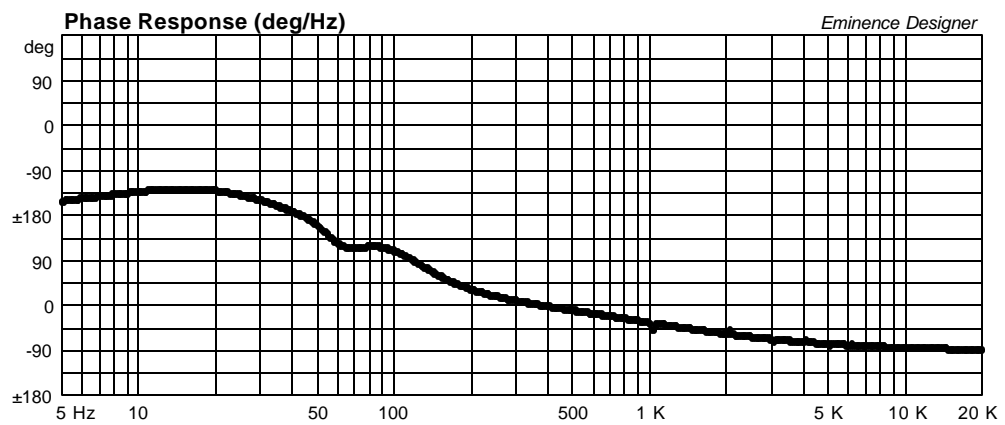
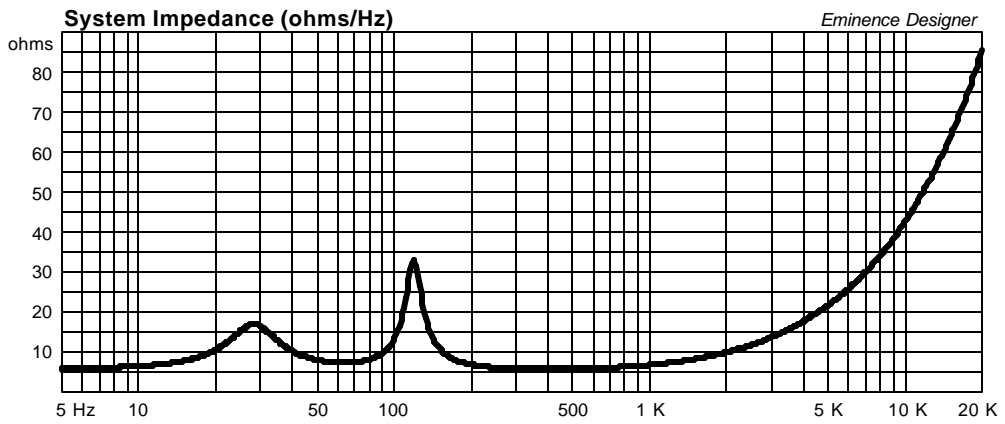
no = 1.659 %

1-W SPL = 94.35 dB

2.83-V SPL = 95.78 dB







Beta10A Sealed Mid/High or Floor Monitor Box

By Jerry McNutt, Eminence Speaker LLC

Displacement Limited to 150 Watts; use above 125 Hz.

Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 0.295 cu.ft

V(total) = 0.334 cu.ft

Qtc = 0.979

QL = 20

F3 = 113.3 Hz

Fill = heavy

Driver Properties

--Description--

Name: Beta-10 (8 ohm)

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Revised Sep-2002

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Solid composition paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 2 inch (50.8 mm) AL Wire. Kapton former.

Magnet: 34 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 53 Hz

Qms = 8.14

Vas = 60.1 liters

Cms = 0.36 mm/N

Mms = 25 g

Rms = 1.03 kg/s

Xmax = 3 mm

Xmech = 8.64 mm

P-Dia = 208.9 mm

Sd = 344.9 sq.cm

P-Vd = 0.104 liters

--Electrical Parameters--

Qes = 0.52

Re = 5.75 ohms

Le = 0.67 mH

Z = 8 ohms

BL = 9.6 Tm

Pe = 250 watts

--Electromech. Parameters--

Qts = 0.49

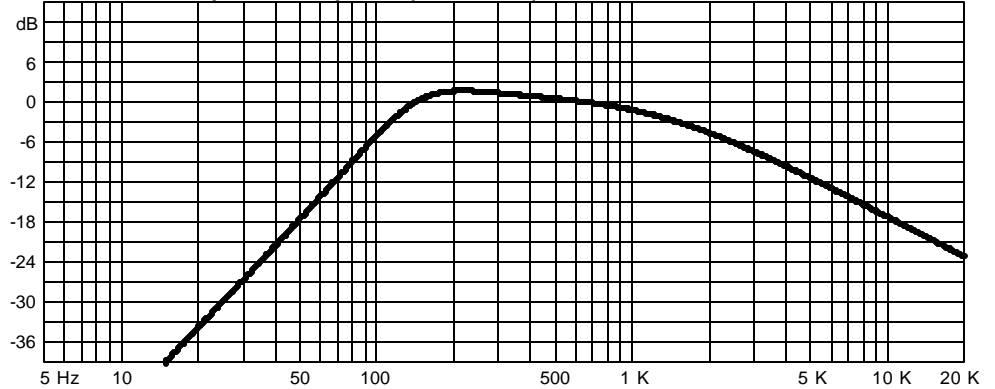
no = 1.659 %

1-W SPL = 94.35 dB

2.83-V SPL = 95.78 dB

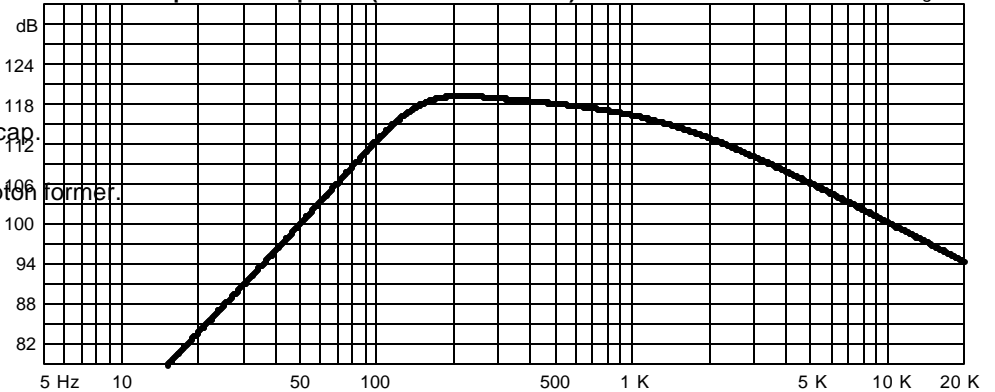
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 150 watts

Eminence Designer



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

Eminence Designer

