

Beta6A Micro Sealed Midrange Box

By Jerry McNutt, Eminence Speaker LLC

Limit to 160 Watts. F3 of 193 Hz. Best to use a steep High Pass above 200 Hz.
PA or Autosound High Power Midrange. 8 Ohms.



Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 0.065 cu.ft

V(total) = 0.0846 cu.ft

Qtc = 0.735

QL = 20

F3 = 192.9 Hz

Fill = heavy

Driver Properties

--Description--

Name: Beta6A

Type: Standard one-way driver

Company: Eminence Speaker LLC, USA

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 122.6 Hz

Qms = 3.46

Vas = 3.51 liters

Cms = 0.15 mm/N

Mms = 10.93 g

Rms = 2.43 kg/s

Xmax = 4.5 mm

Xmech = 5.7 mm

P-Dia = 127.8 mm

Sd = 129.9 sq.cm

P-Vd = 0.0578 liters

--Electrical Parameters--

Qes = 0.66

Re = 5.18 ohms

Le = 0.43 mH

Z = 8 ohms

BL = 8.13 Tm

Pe = 175 watts

--Electromech. Parameters--

Qts = 0.56

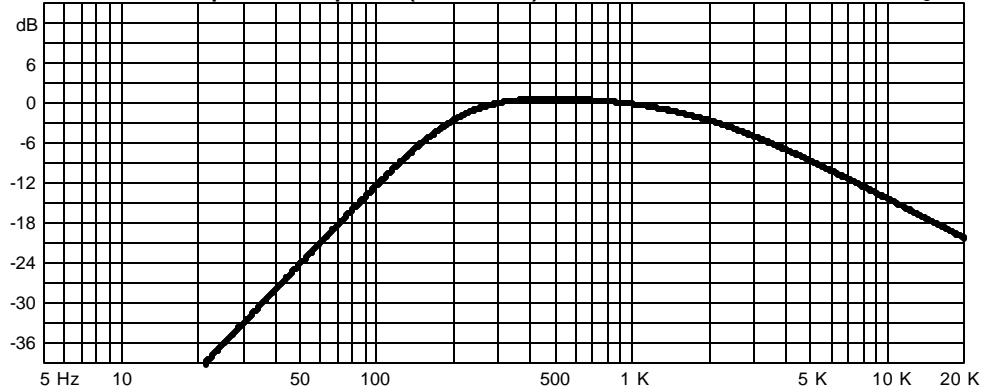
no = 0.944 %

1-W SPL = 91.9 dB

2.83-V SPL = 93.79 dB

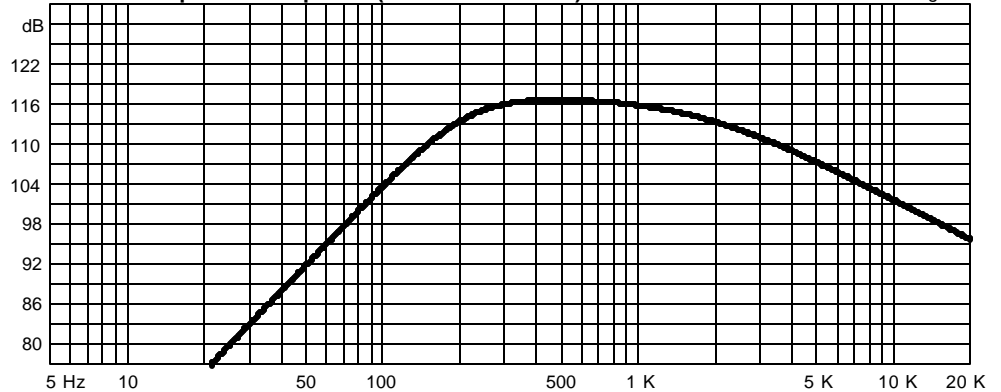
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



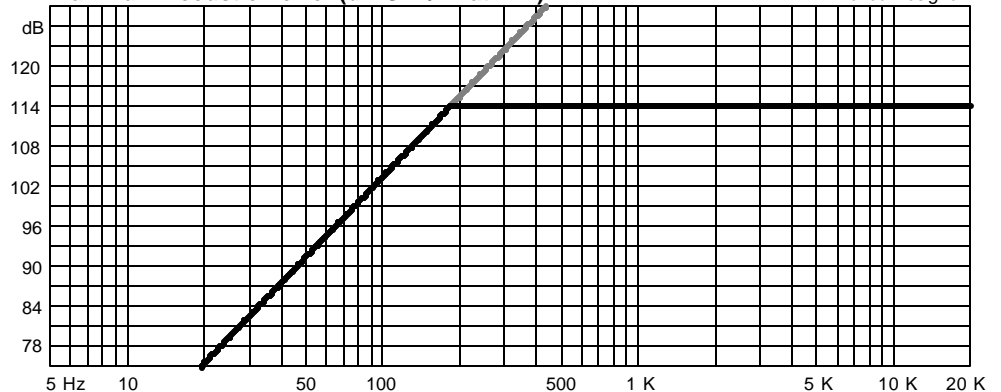
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 160 watts

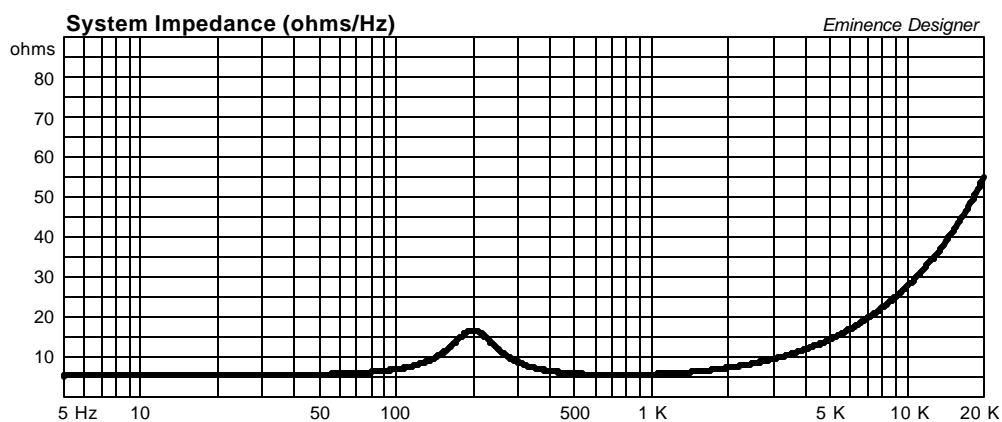
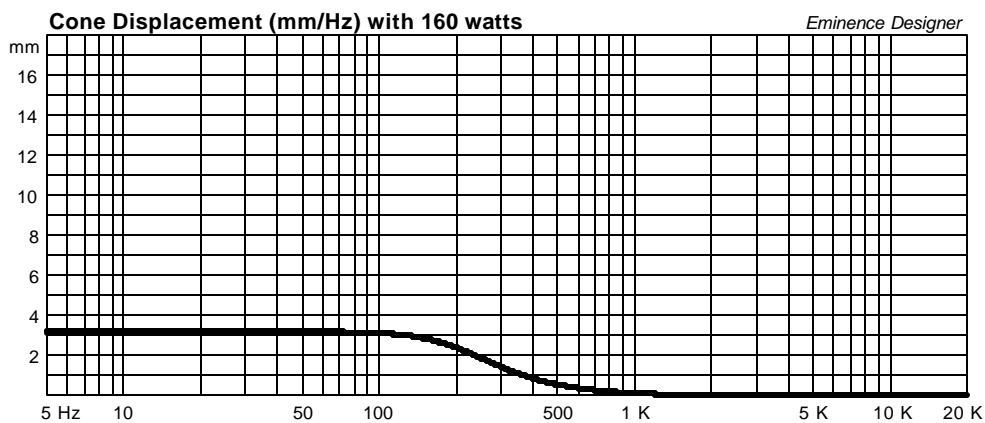
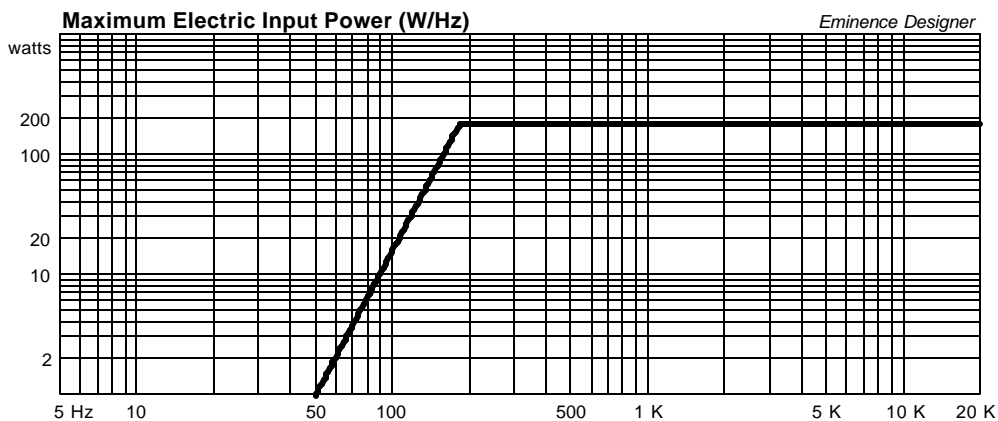
Eminence Designer

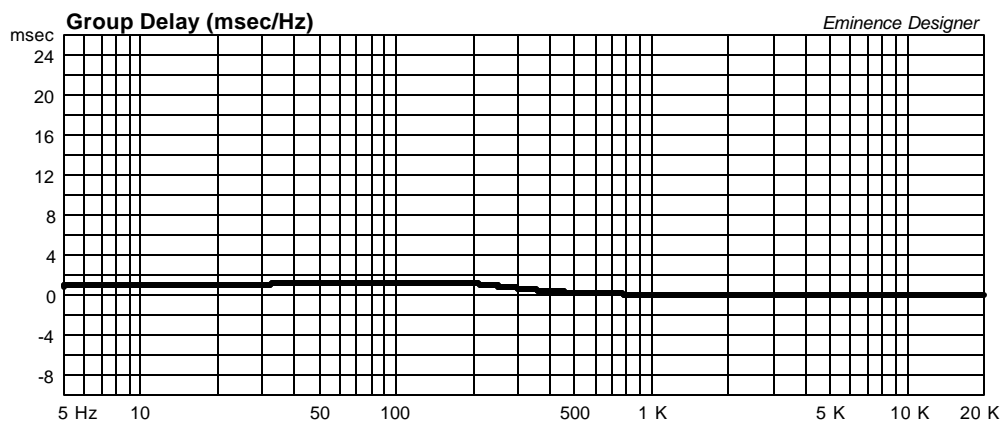
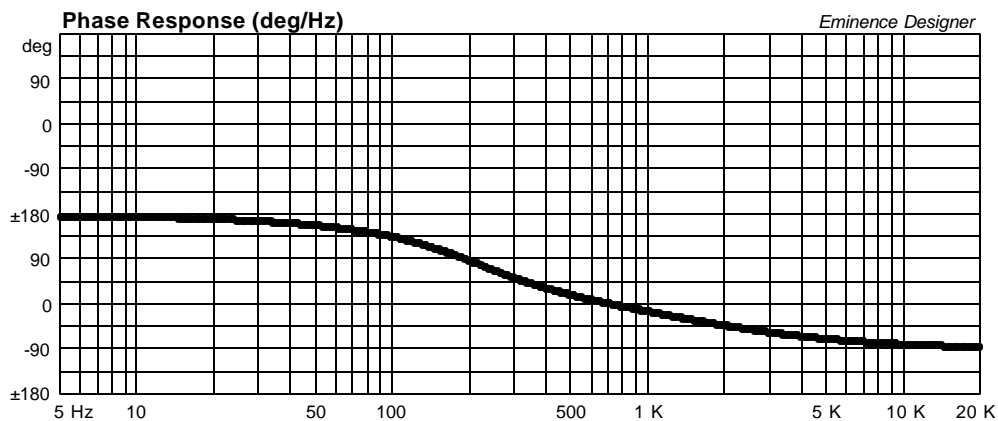


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







Beta6A Small Vented Mid/Bass Design

By Jerry McNutt, Eminence Speaker LLC

175 Watts. F3 of 119 Hz. Best to use a steep High Pass above 110 Hz.

PA or Autosound High Power Mid/Bass 8 Ohms.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 0.16 cu.ft

V(total) = 0.185 cu.ft

Fb = 125 Hz

QL = 7

F3 = 117.8 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 1.59 in

Lv = 2.562 in

Driver Properties

--Description--

Name: Beta6A

Type: Standard one-way driver

Company: Eminence Speaker LLC, USA

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 122.6 Hz

Qms = 3.46

Vas = 3.51 liters

Cms = 0.15 mm/N

Mms = 10.93 g

Rms = 2.43 kg/s

Xmax = 4.5 mm

Xmech = 5.7 mm

P-Dia = 127.8 mm

Sd = 129.9 sq.cm

P-Vd = 0.0578 liters

--Electrical Parameters--

Qes = 0.66

Re = 5.18 ohms

Le = 0.43 mH

Z = 8 ohms

BL = 8.13 Tm

Pe = 175 watts

--Electromech. Parameters--

Qts = 0.56

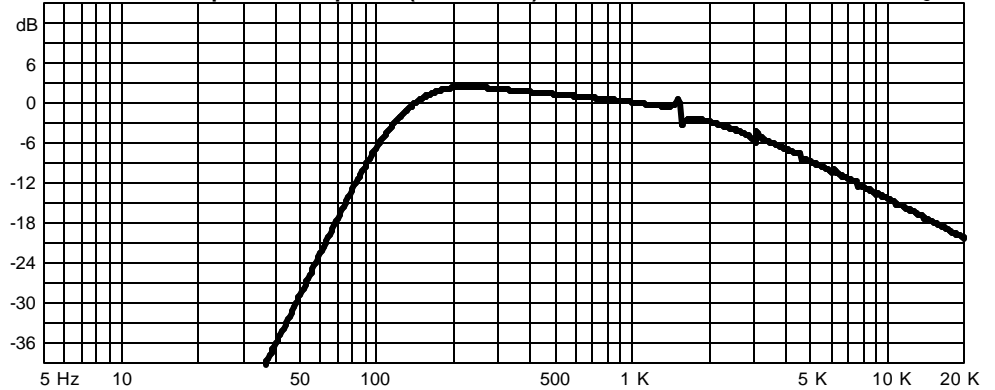
no = 0.944 %

1-W SPL = 91.9 dB

2.83-V SPL = 93.79 dB

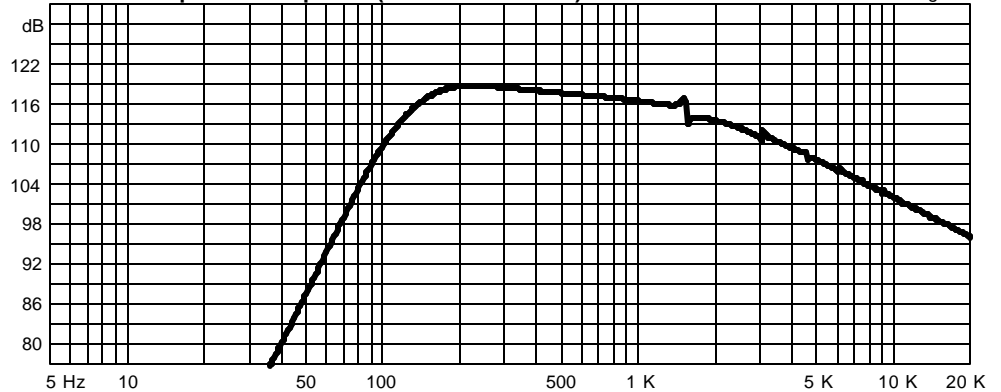
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



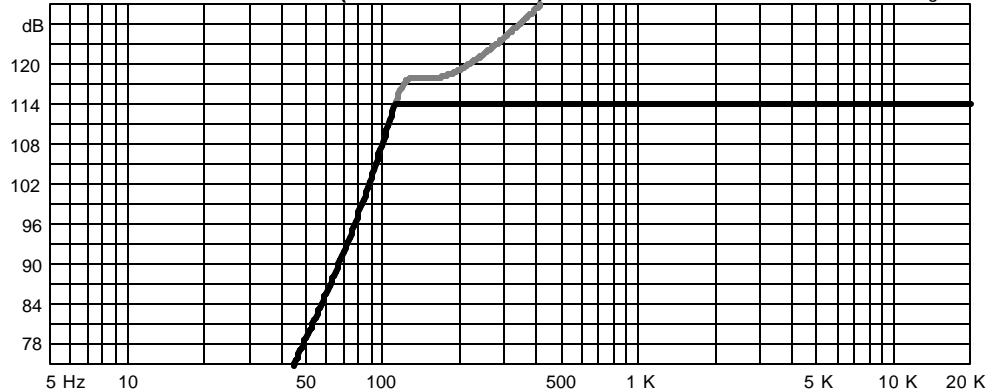
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 175 watts

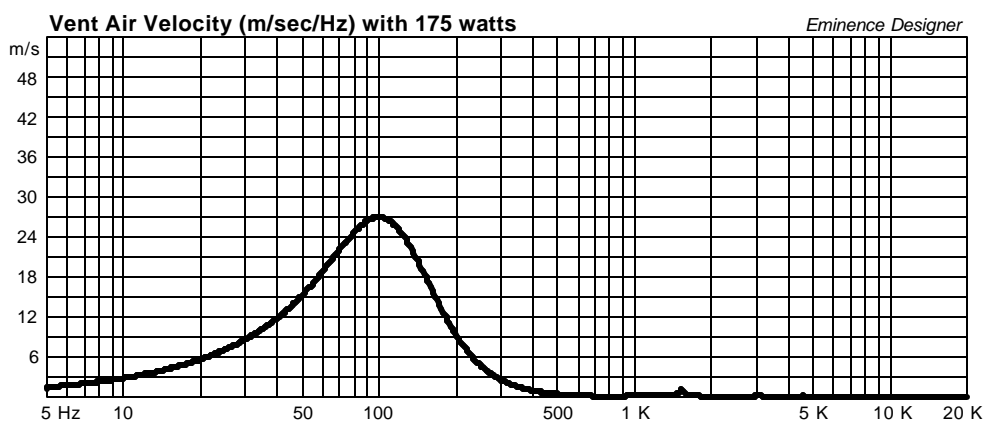
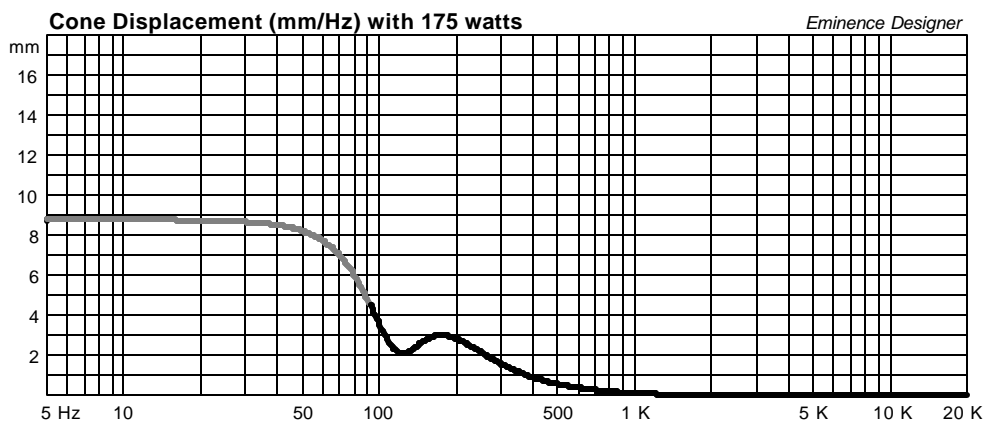
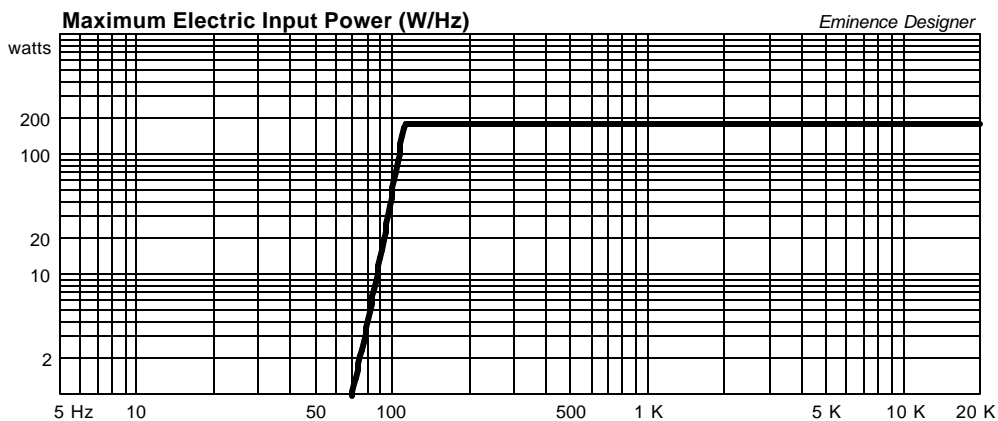
Eminence Designer

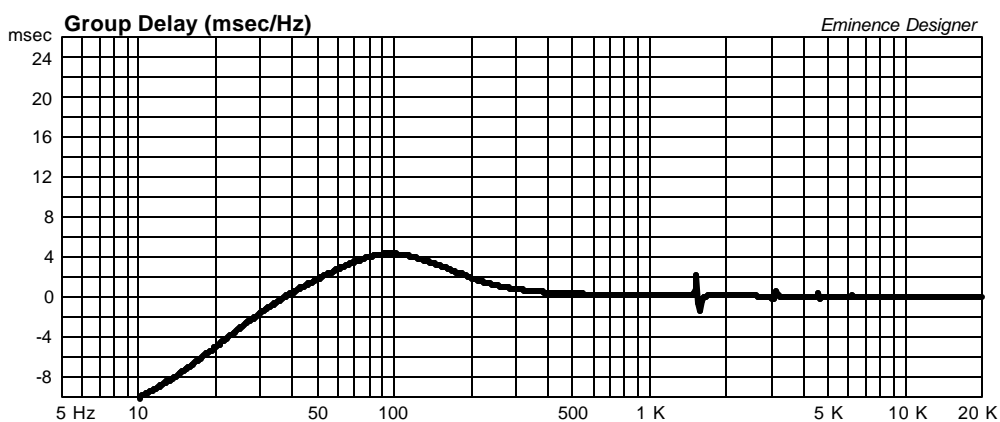
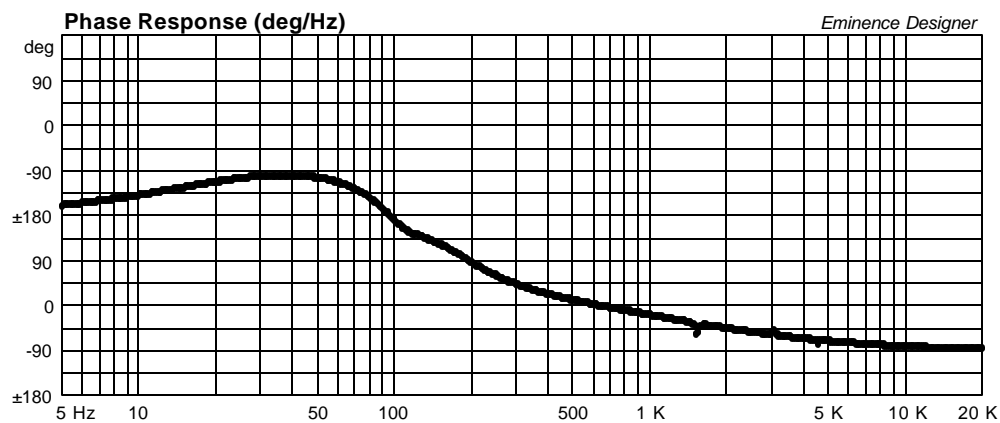
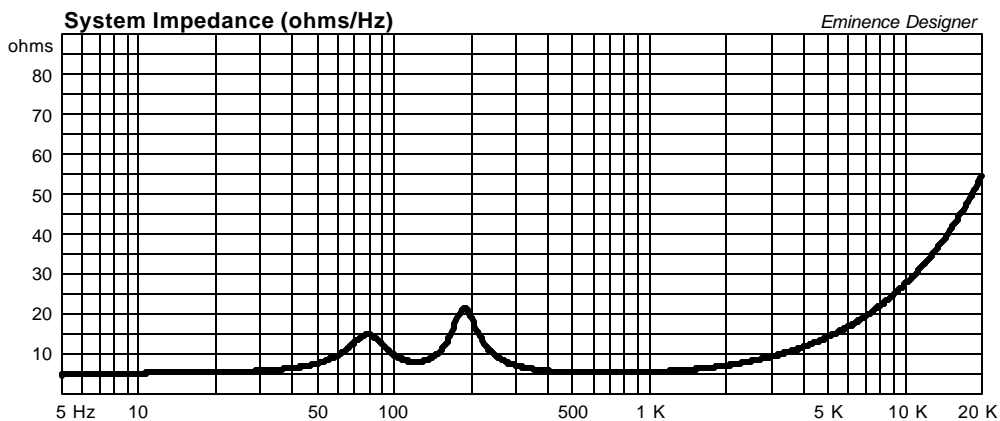


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







Beta6A Medium Sized Vented Mid/Bass Design

By Jerry McNutt, Eminence Speaker LLC

175 Watts. F3 of 97 Hz. Best to use a steep High Pass above 100 Hz.

PA or Autosound High Power Mid/Bass 8 Ohms.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 0.3 cu.ft

V(total) = 0.327 cu.ft

Fb = 105 Hz

QL = 7

F3 = 98.14 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 1.9 in

Lv = 2.546 in

Driver Properties

--Description--

Name: Beta6A

Type: Standard one-way driver

Company: Eminence Speaker LLC, USA

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 122.6 Hz

Qms = 3.46

Vas = 3.51 liters

Cms = 0.15 mm/N

Mms = 10.93 g

Rms = 2.43 kg/s

Xmax = 4.5 mm

Xmech = 5.7 mm

P-Dia = 127.8 mm

Sd = 129.9 sq.cm

P-Vd = 0.0578 liters

--Electrical Parameters--

Qes = 0.66

Re = 5.18 ohms

Le = 0.43 mH

Z = 8 ohms

BL = 8.13 Tm

Pe = 175 watts

--Electromech. Parameters--

Qts = 0.56

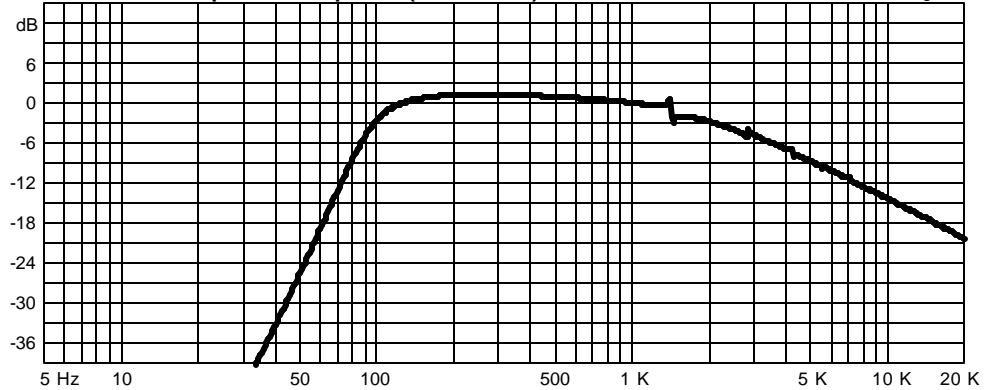
no = 0.944 %

1-W SPL = 91.9 dB

2.83-V SPL = 93.79 dB

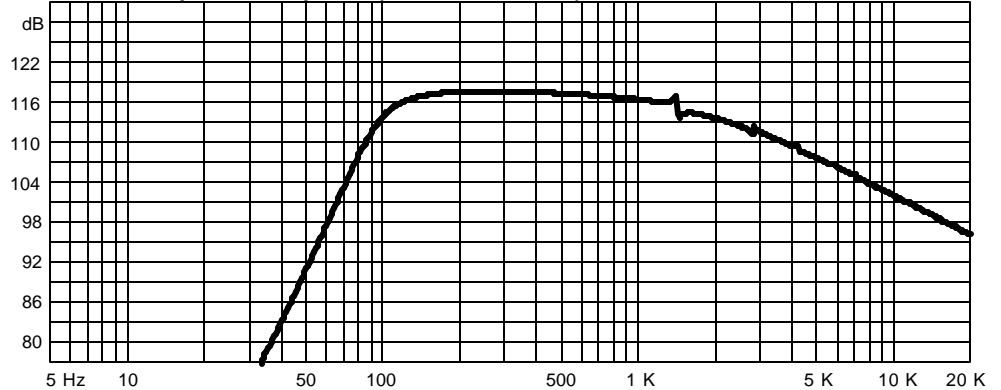
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



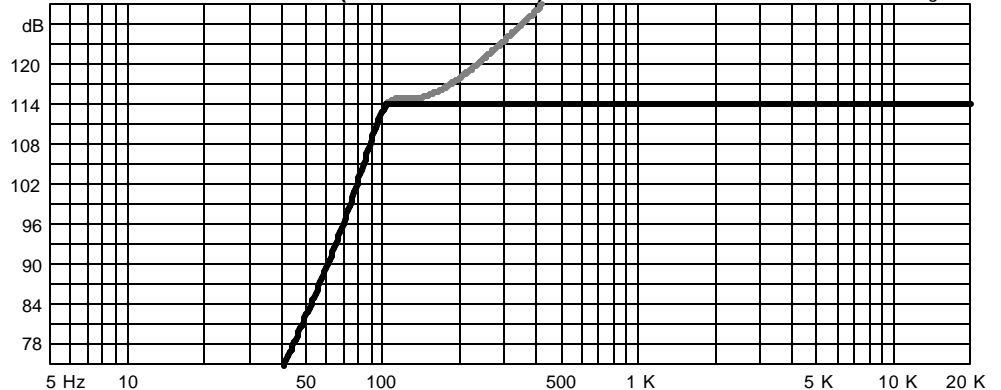
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 175 watts

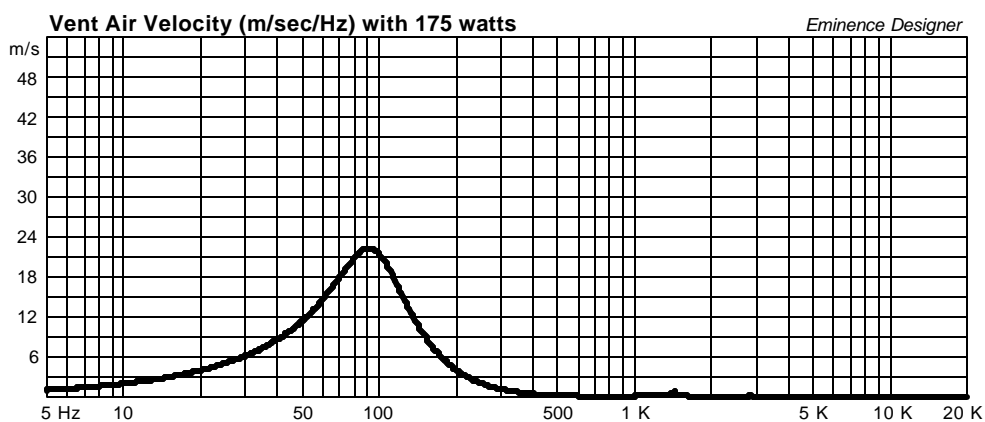
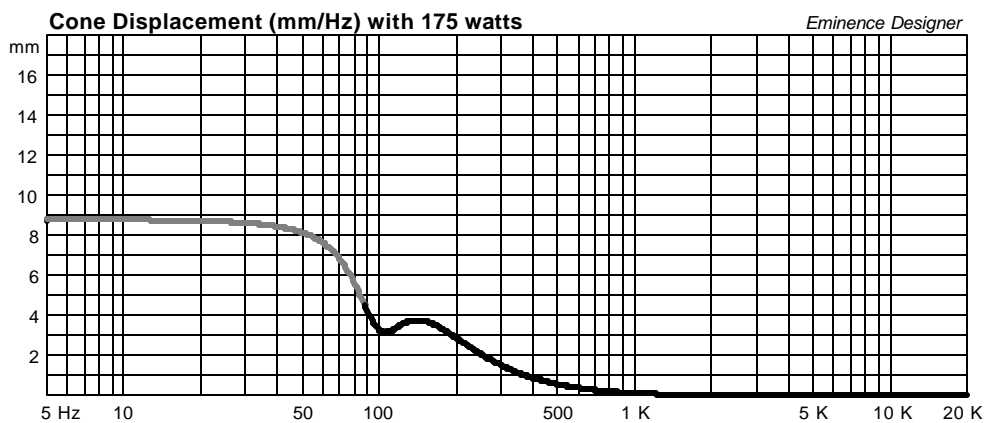
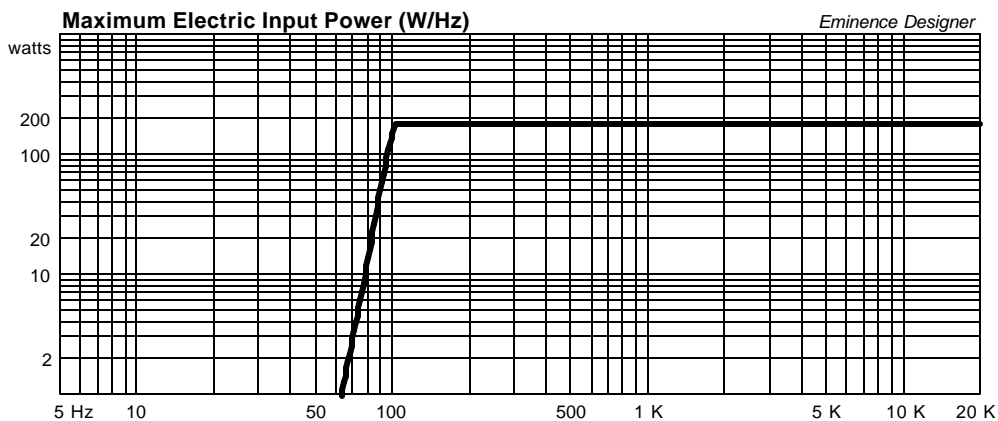
Eminence Designer

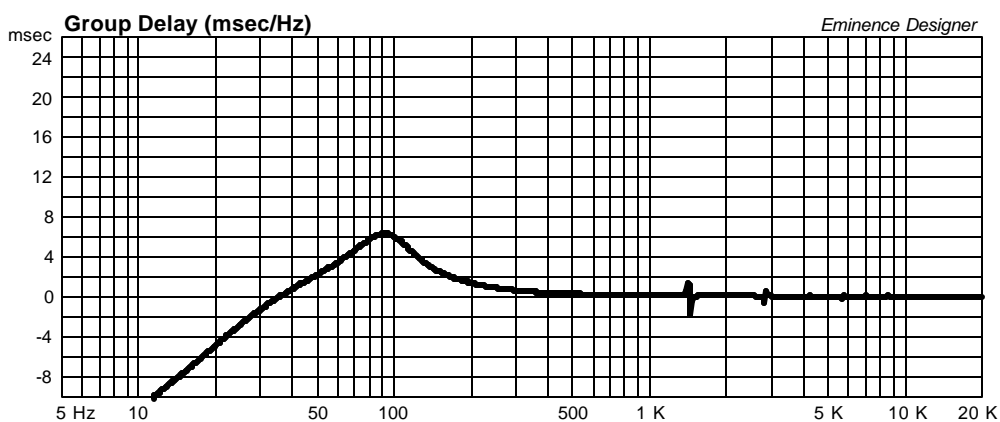
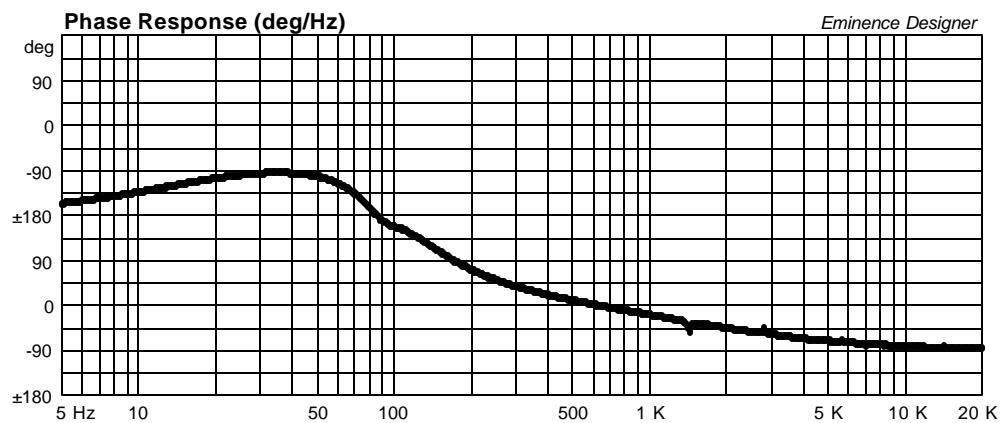
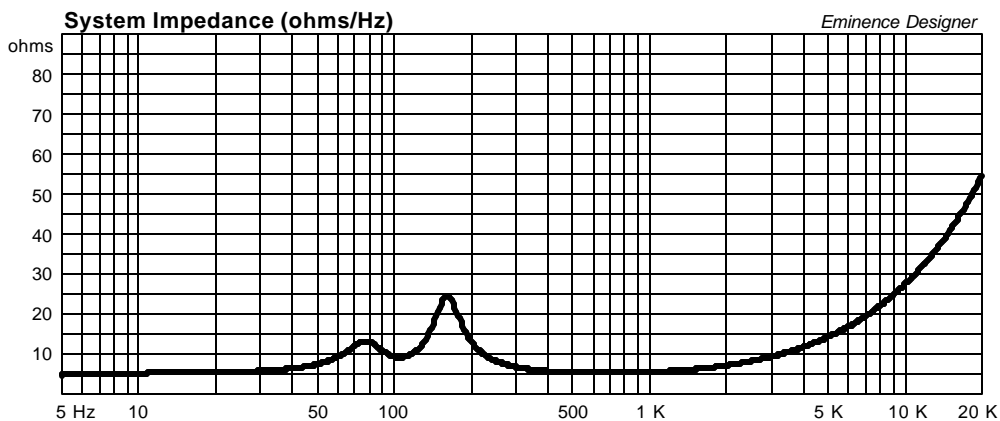


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







Beta6A Large Vented Mid/Bass Design

By Jerry McNutt, Eminence Speaker LLC

175 Watts. F3 of 95 Hz. Best to use a steep High Pass above 100 Hz.

PA or Autosound High Power Mid/Bass 8 Ohms.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 0.38 cu.ft

V(total) = 0.405 cu.ft

Fb = 100 Hz

QL = 7

F3 = 95.4 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 1.9 in

Lv = 1.923 in

Driver Properties

--Description--

Name: Beta6A

Type: Standard one-way driver

Company: Eminence Speaker LLC, USA

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 122.6 Hz

Qms = 3.46

Vas = 3.51 liters

Cms = 0.15 mm/N

Mms = 10.93 g

Rms = 2.43 kg/s

Xmax = 4.5 mm

Xmech = 5.7 mm

P-Dia = 127.8 mm

Sd = 129.9 sq.cm

P-Vd = 0.0578 liters

--Electrical Parameters--

Qes = 0.66

Re = 5.18 ohms

Le = 0.43 mH

Z = 8 ohms

BL = 8.13 Tm

Pe = 175 watts

--Electromech. Parameters--

Qts = 0.56

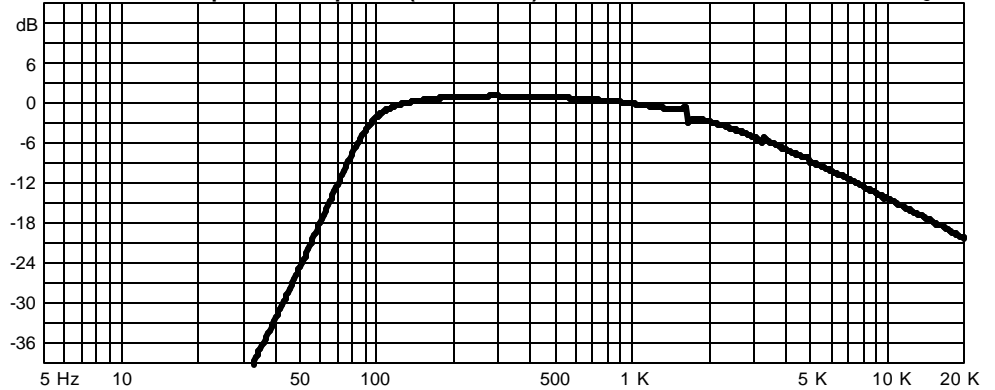
no = 0.944 %

1-W SPL = 91.9 dB

2.83-V SPL = 93.79 dB

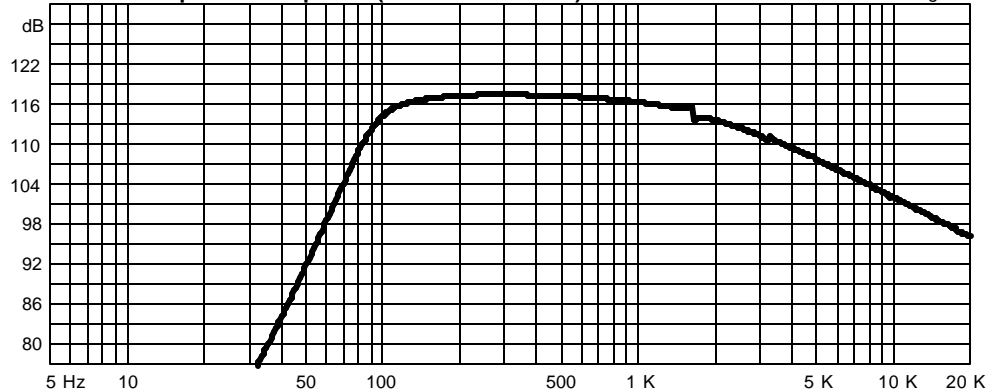
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



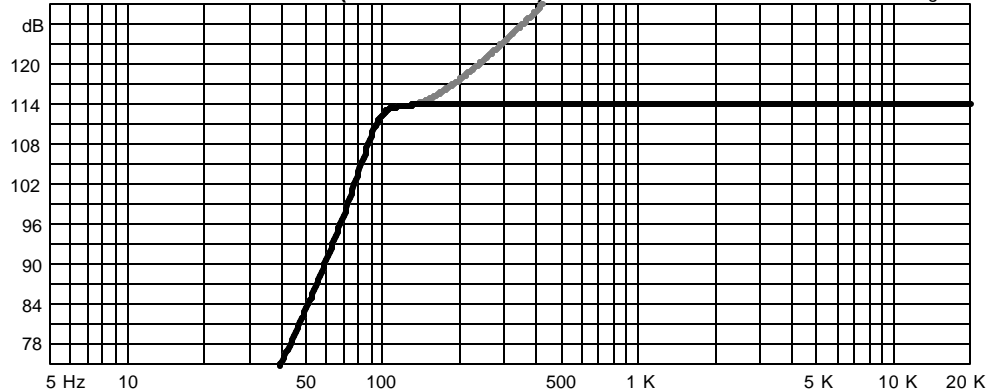
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 175 watts

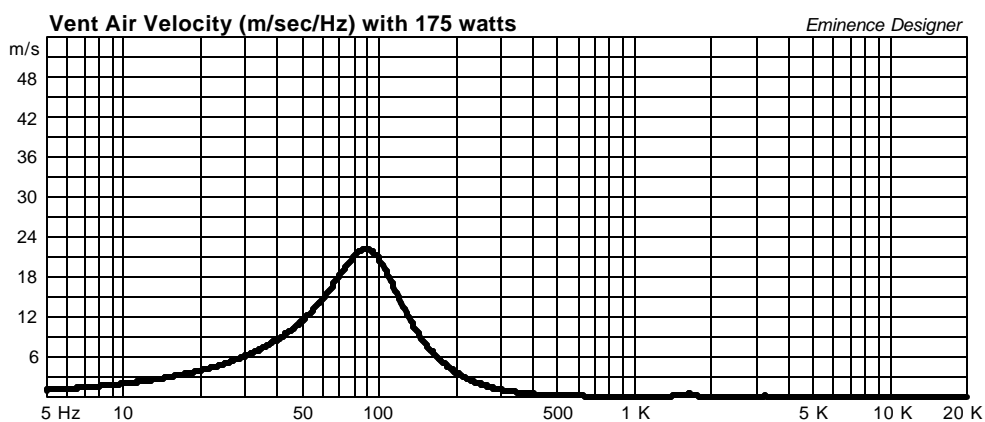
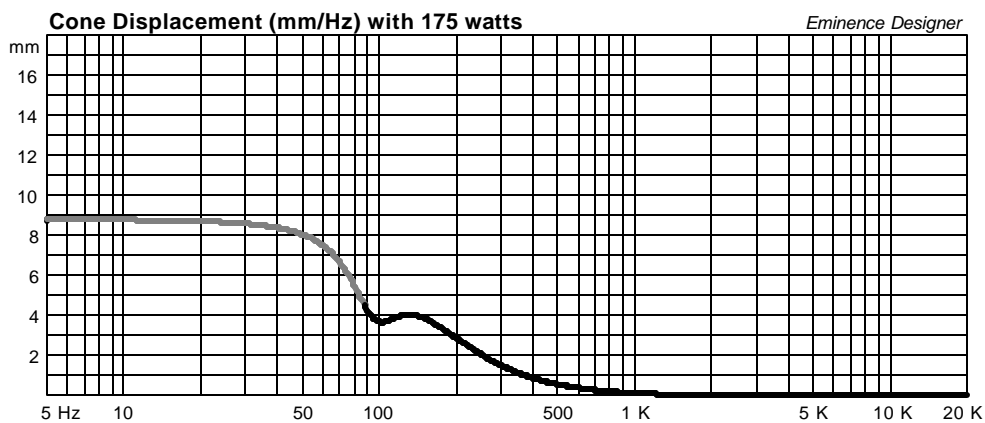
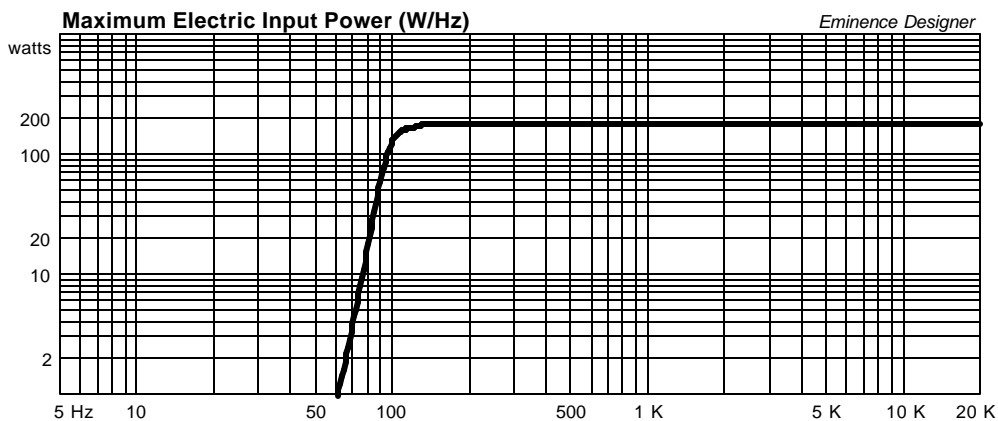
Eminence Designer

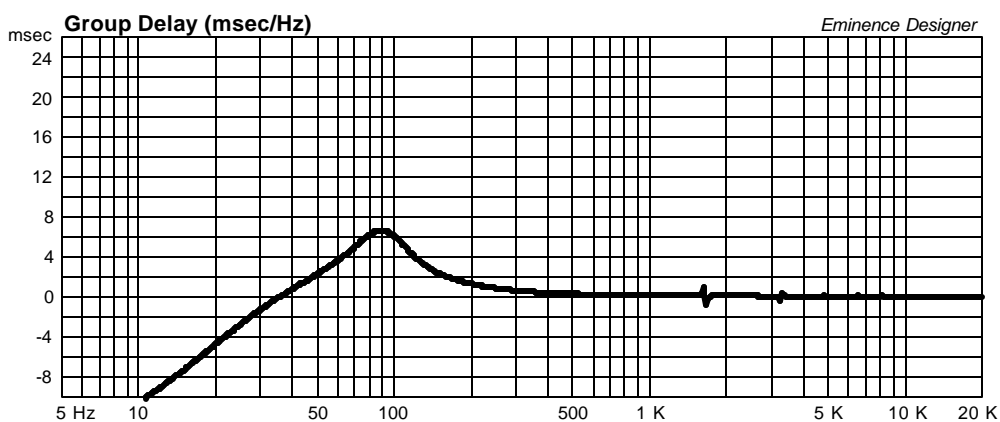
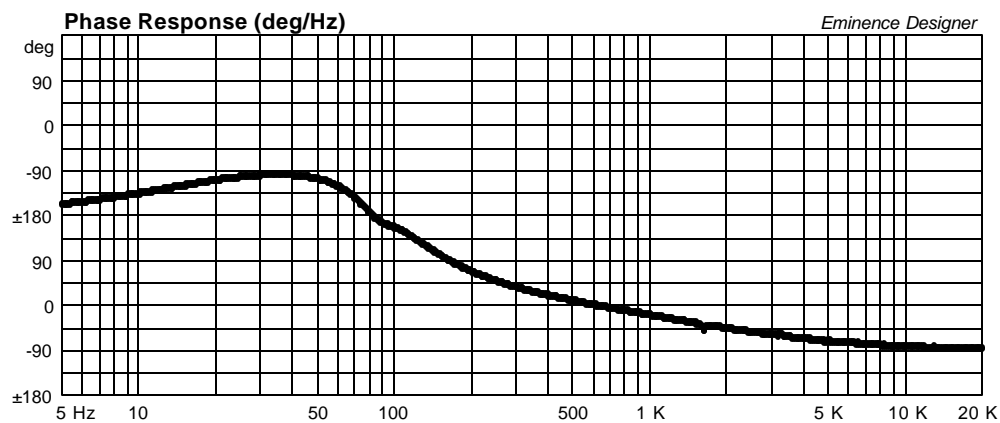
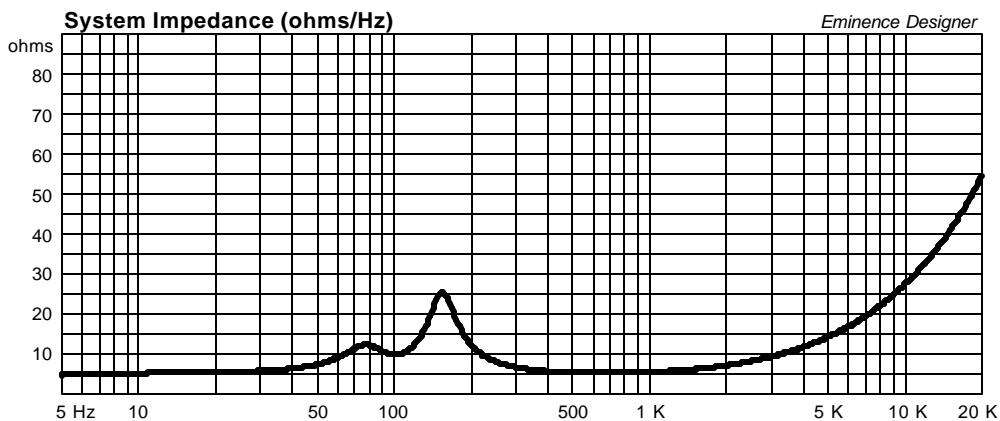


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







Beta6A Large Sealed Midrange Design

By Jerry McNutt, Eminence Speaker LLC

Limit to 160 Watts. F3 of 185 Hz. Best to use a steep High Pass above 185 Hz.
PA or Autosound High Power Midrange. 8 Ohms.



Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 0.158 cu.ft

V(total) = 0.178 cu.ft

Qtc = 0.61

QL = 20

F3 = 185.2 Hz

Fill = heavy

Driver Properties

--Description--

Name: Beta6A

Type: Standard one-way driver

Company: Eminence Speaker LLC, USA

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 122.6 Hz

Qms = 3.46

Vas = 3.51 liters

Cms = 0.15 mm/N

Mms = 10.93 g

Rms = 2.43 kg/s

Xmax = 4.5 mm

Xmech = 5.7 mm

P-Dia = 127.8 mm

Sd = 129.9 sq.cm

P-Vd = 0.0578 liters

--Electrical Parameters--

Qes = 0.66

Re = 5.18 ohms

Le = 0.43 mH

Z = 8 ohms

BL = 8.13 Tm

Pe = 175 watts

--Electromech. Parameters--

Qts = 0.56

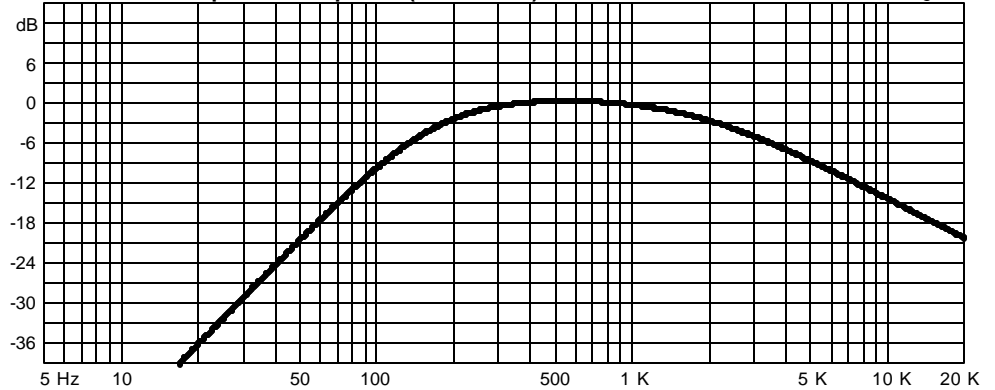
no = 0.944 %

1-W SPL = 91.9 dB

2.83-V SPL = 93.79 dB

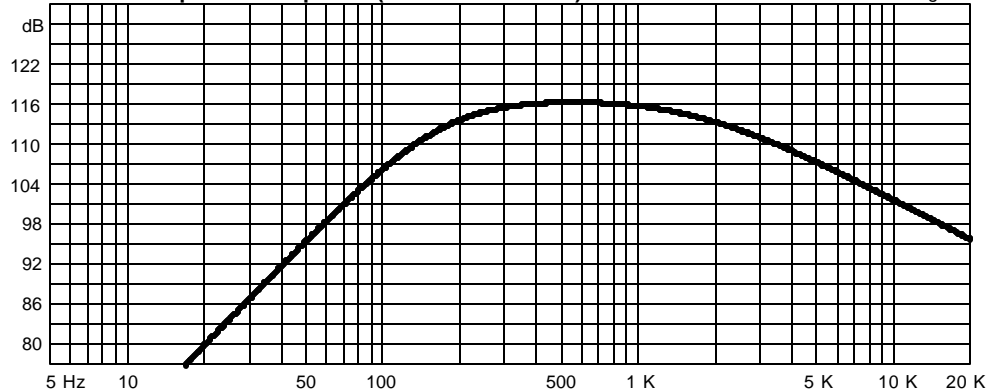
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 160 watts

Eminence Designer



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

Eminence Designer

