

Legend CA154 Large Vented Design

By Jerry McNutt, Eminence Speaker LLC

225 Watts; F3 of 46 Hz. Use a steep high pass at 35 Hz for high power use.

For PA or MI



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 5.666 cu.ft

V(total) = 5.933 cu.ft

Fb = 39.68 Hz

QL = 7

F3 = 45.71 Hz

Fill = normal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 2.848 in

Driver Properties

--Description--

Name:

Type: Standard one-way driver

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 51.1 Hz

Qms = 4.93

Vas = 3.821 cu.ft

Xmax = 0.197 in

Sd = 127.7 sq.in

Qes = 0.54

Re = 2.92 ohms

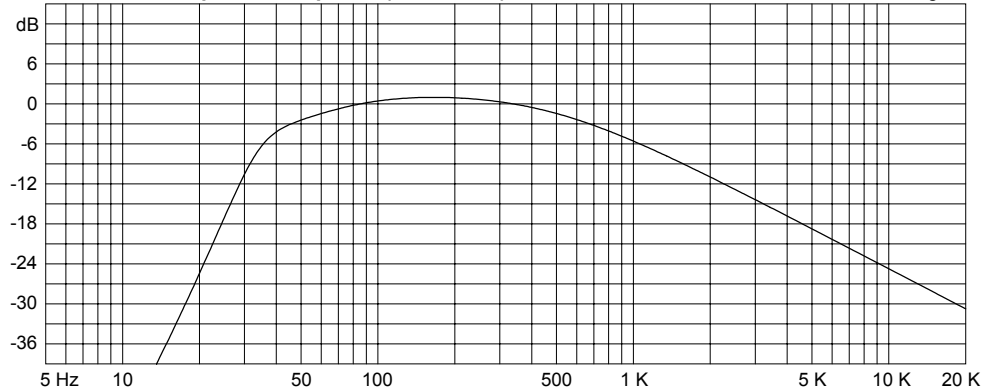
Le = 0.8 mH

Z = 4 ohms

Pe = 400 watts

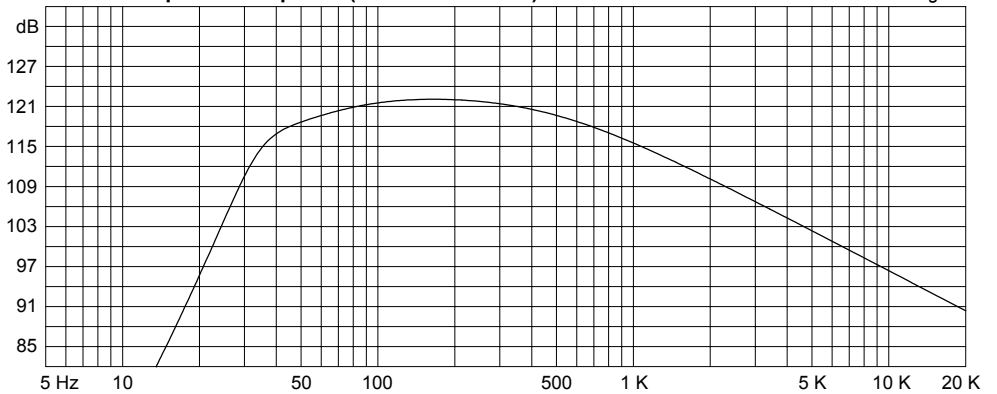
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



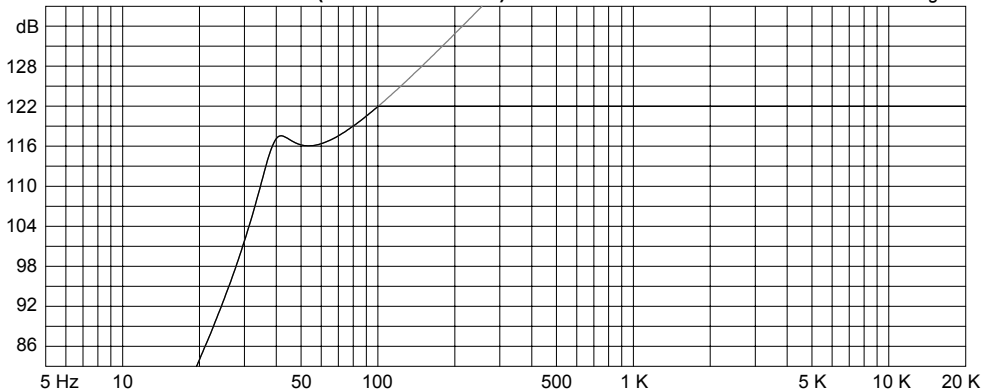
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 225 watts

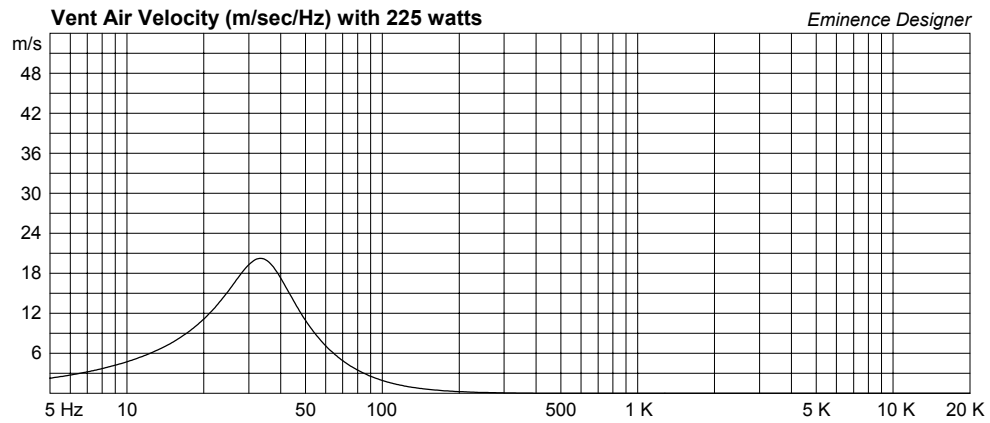
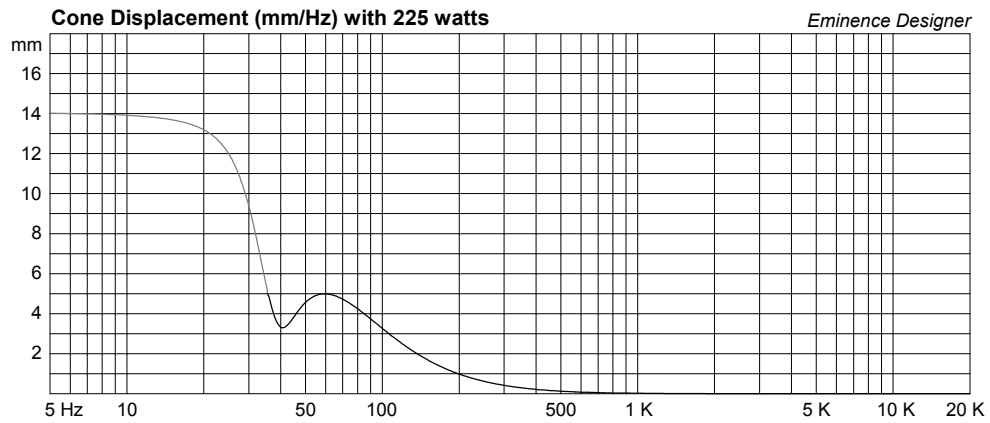
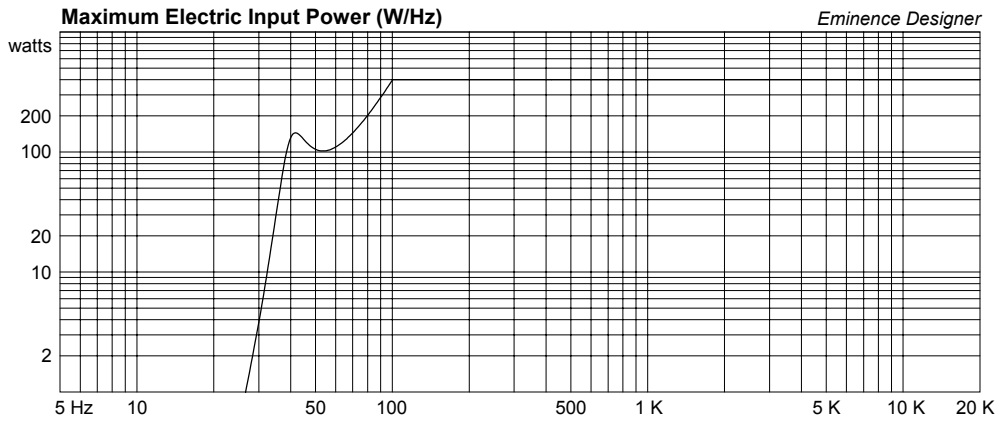
Eminence Designer

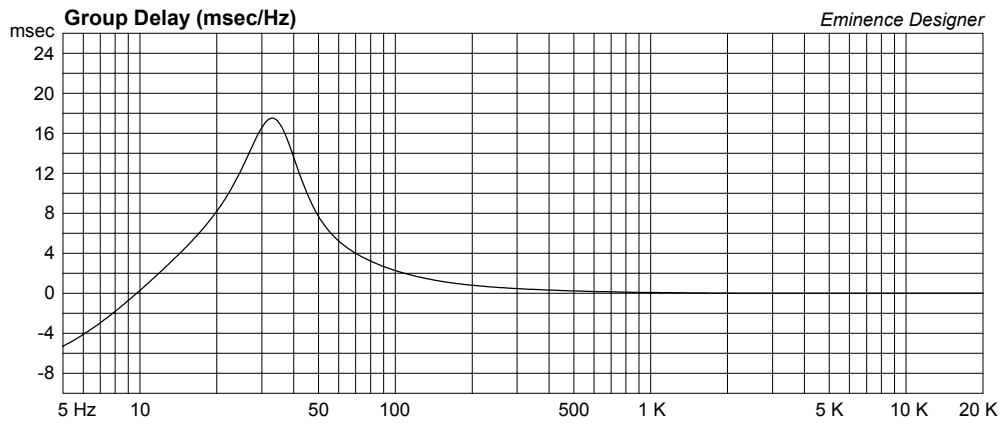
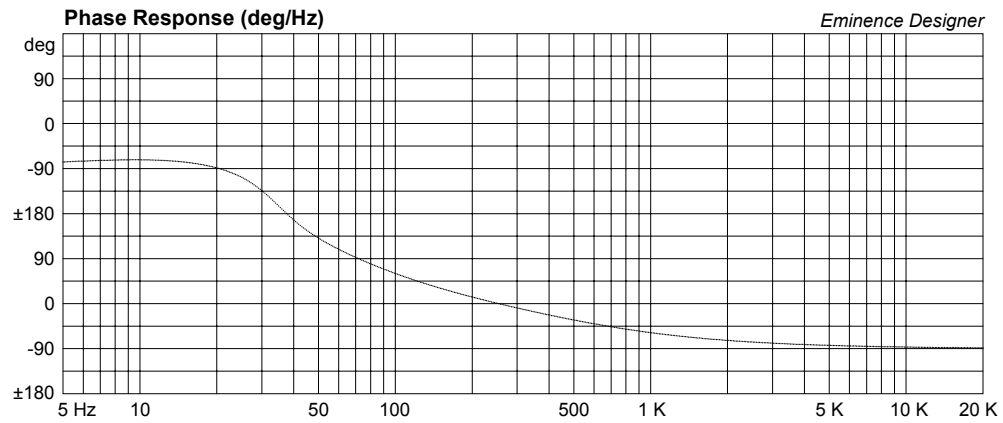
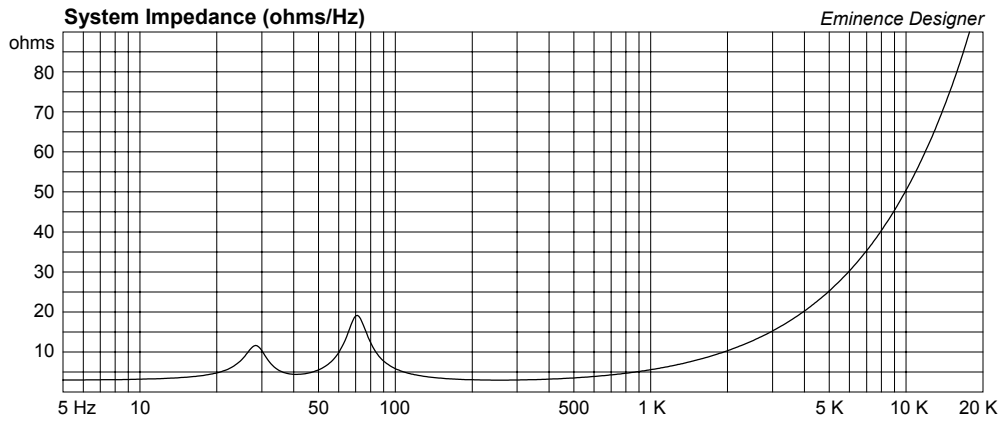


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







Legend CA154 Small Sealed Bass Guitar Design

By Jerry McNutt, Eminence Speaker LLC
300 Watts; F3 of 86 Hz. Tight and Punchy Bass



Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 1.5 cu.ft

V(total) = 1.5 cu.ft

Qtc = 0.787

QL = 20

F3 = 85.93 Hz

Fill = normal

Driver Properties

--Description--

Name:

Type: Standard one-way driver

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 51.1 Hz

Qms = 4.93

Vas = 3.821 cu.ft

Xmax = 0.197 in

Sd = 127.7 sq.in

Qes = 0.54

Re = 2.92 ohms

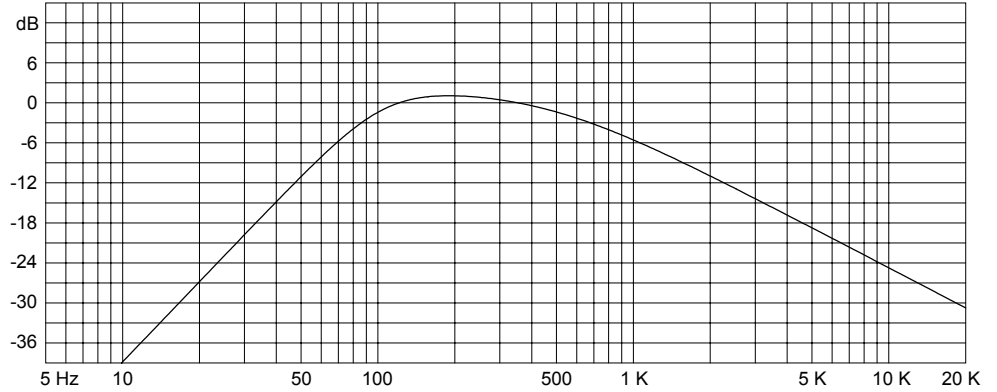
Le = 0.8 mH

Z = 4 ohms

Pe = 400 watts

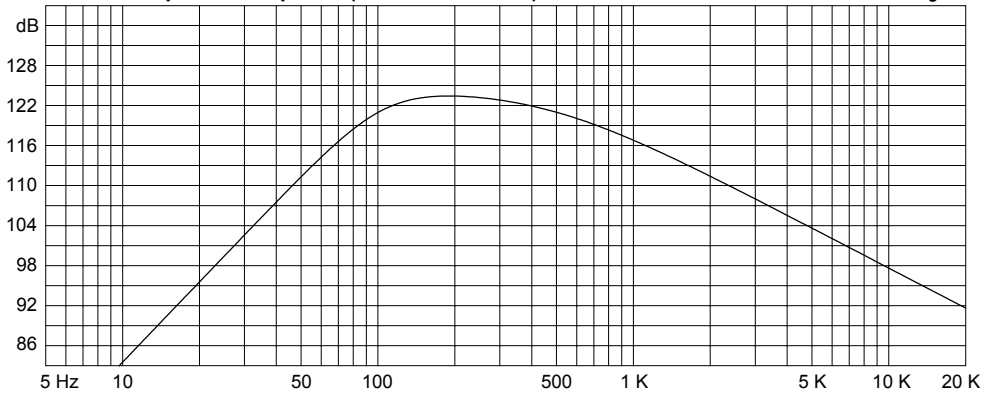
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



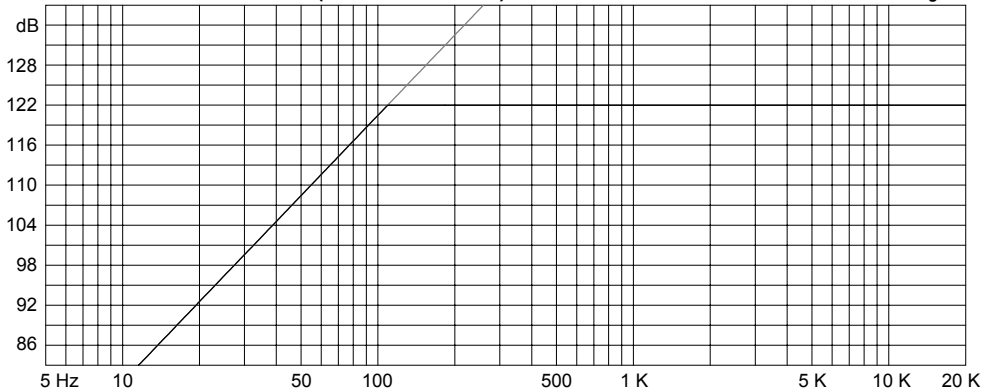
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 300 watts

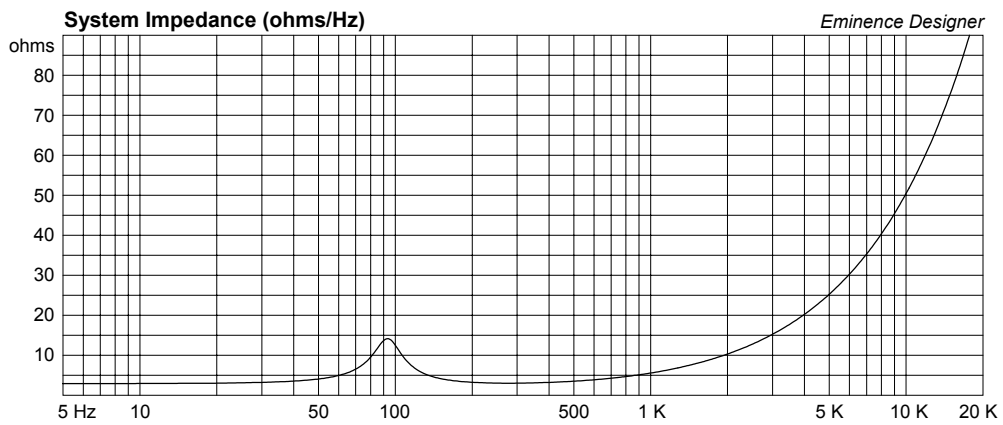
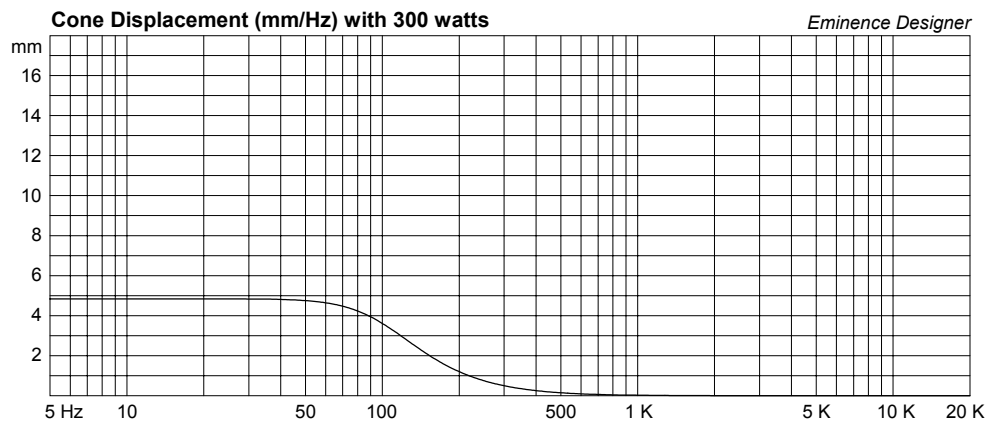
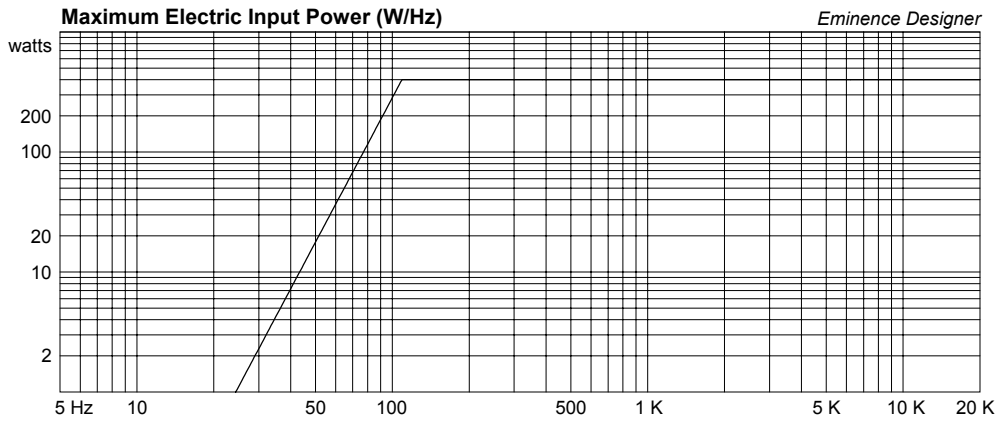
Eminence Designer

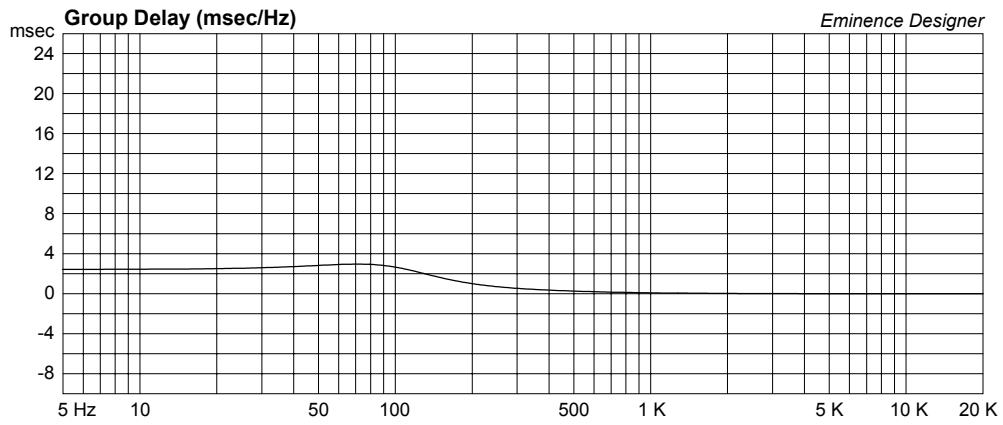
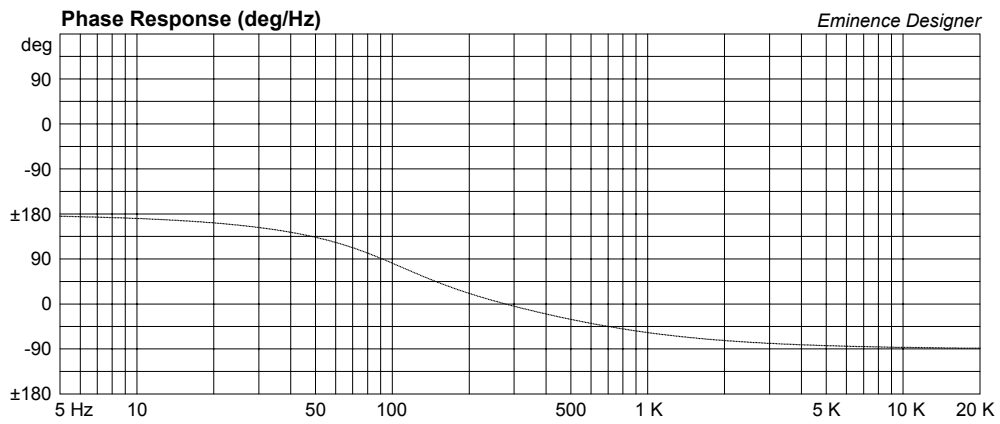


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







Legend CA154 Med Vented Design

By Jerry McNutt, Eminence Speaker LLC

275 Watts; F3 of 56 Hz. Use a steep high pass at 35 Hz for high power use.
PA or MI use.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 3.75 cu.ft

V(total) = 4.078 cu.ft

Fb = 40 Hz

QL = 7

F3 = 55.98 Hz

Fill = normal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 6.55 in

Driver Properties

--Description--

Name:

Type: Standard one-way driver

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 51.1 Hz

Qms = 4.93

Vas = 3.821 cu.ft

Xmax = 0.197 in

Sd = 127.7 sq.in

Qes = 0.54

Re = 2.92 ohms

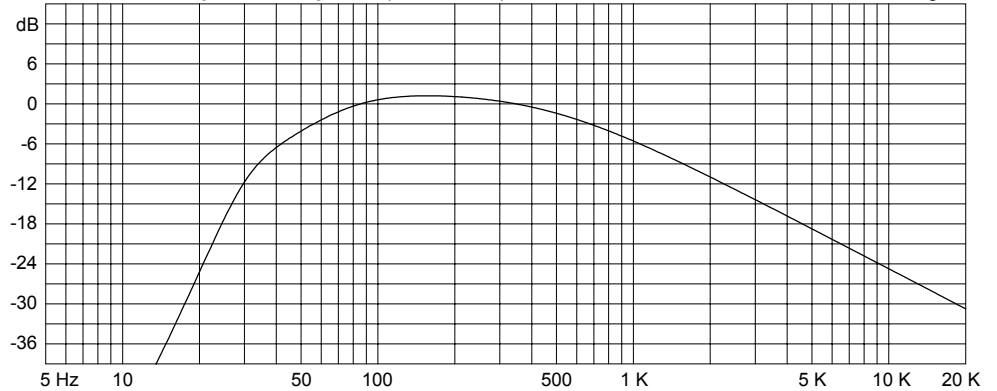
Le = 0.8 mH

Z = 4 ohms

Pe = 400 watts

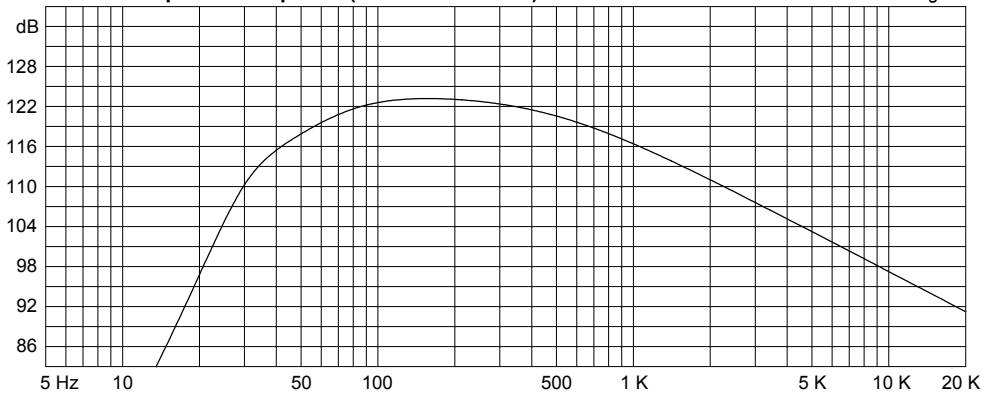
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



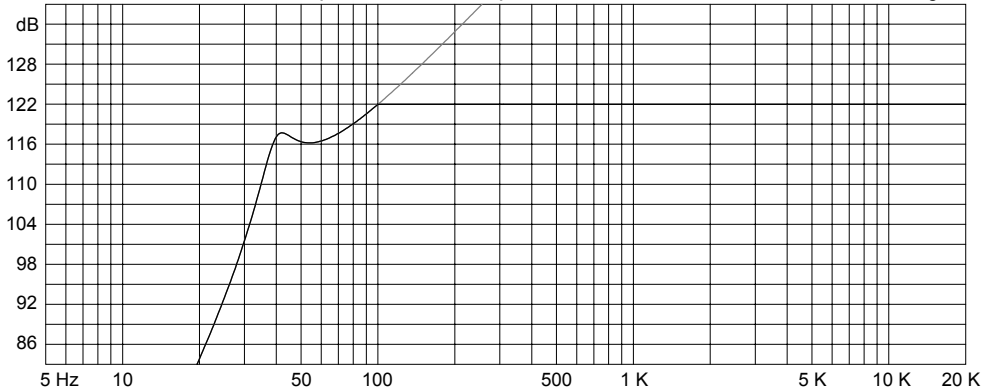
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 275 watts

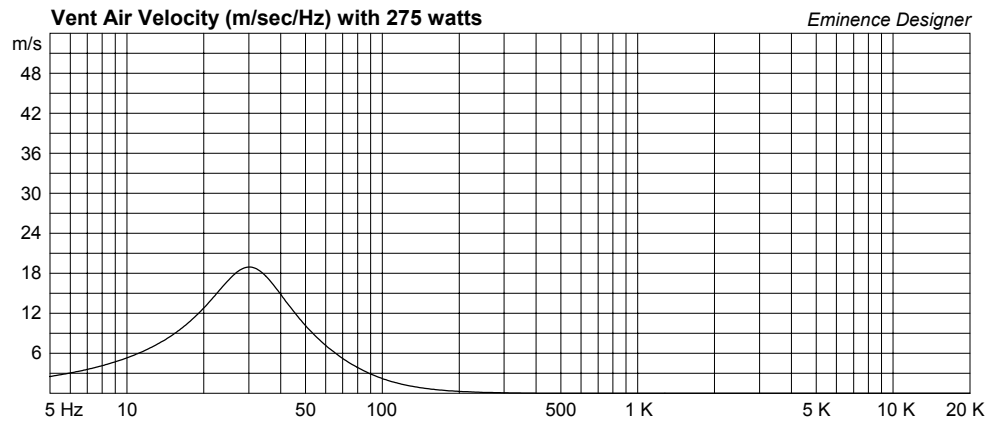
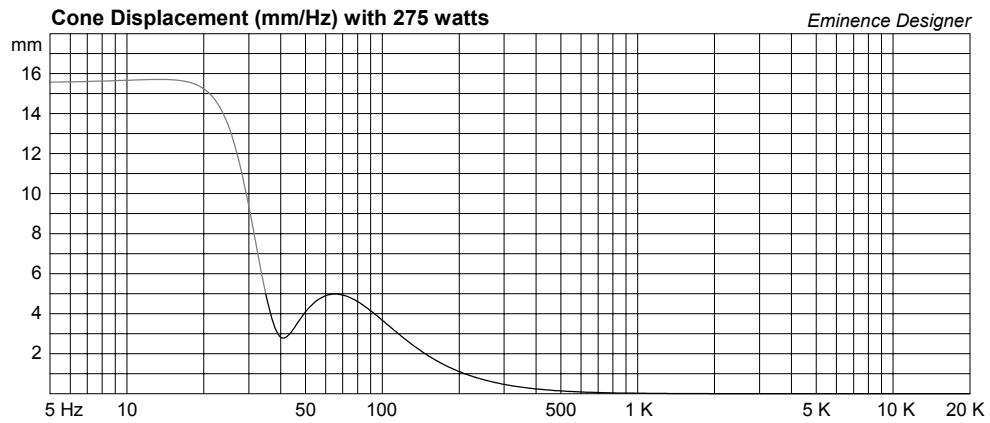
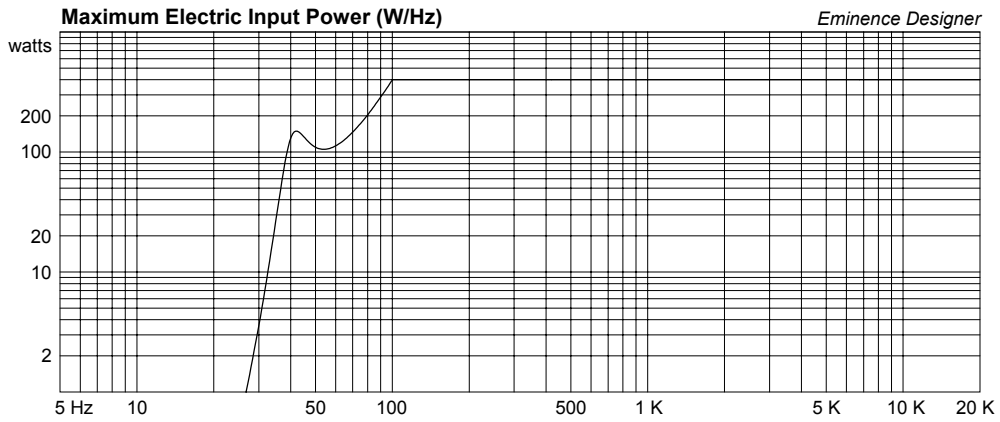
Eminence Designer

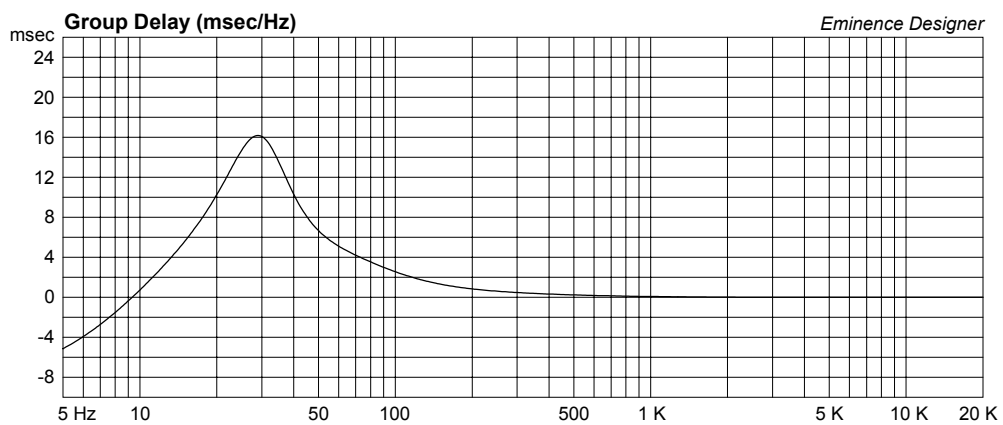
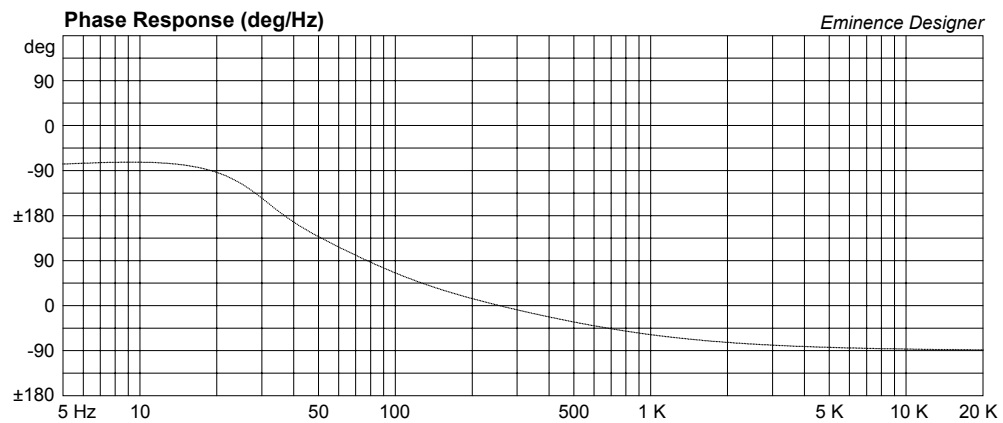
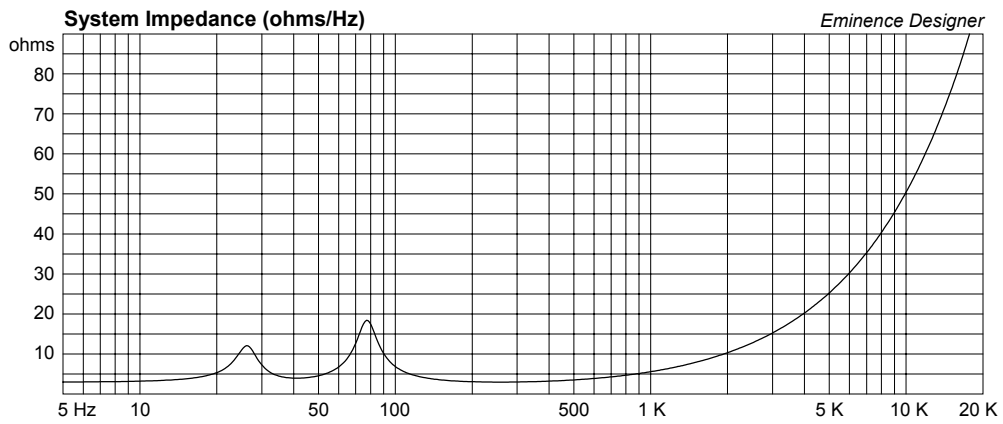


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







Legend CA154 Small Vented Design

By Jerry McNutt, Eminence Speaker LLC
400 Watts; F3 of 72 Hz. Use a steep high pass at 35 Hz.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 1.6 cu.ft

V(total) = 1.934 cu.ft

Fb = 50 Hz

QL = 7

F3 = 72.04 Hz

Fill = normal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 3.5 in

Lv = 8.822 in

Driver Properties

--Description--

Name:

Type: Standard one-way driver

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 51.1 Hz

Qms = 4.93

Vas = 3.821 cu.ft

Xmax = 0.197 in

Sd = 127.7 sq.in

Qes = 0.54

Re = 2.92 ohms

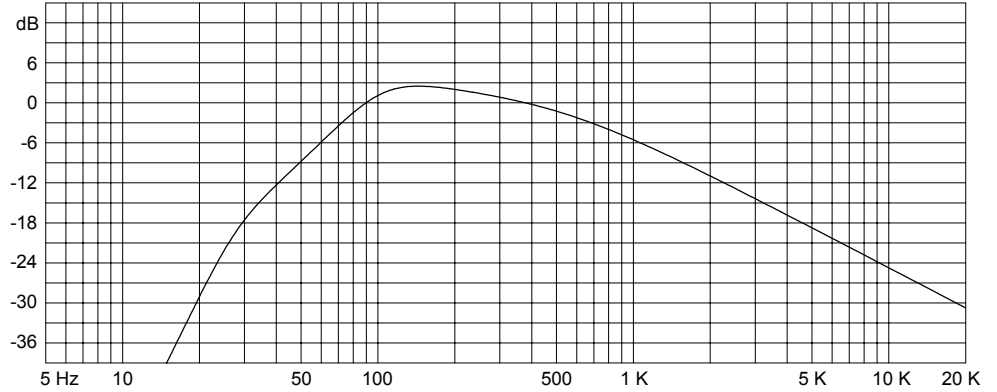
Le = 0.8 mH

Z = 4 ohms

Pe = 400 watts

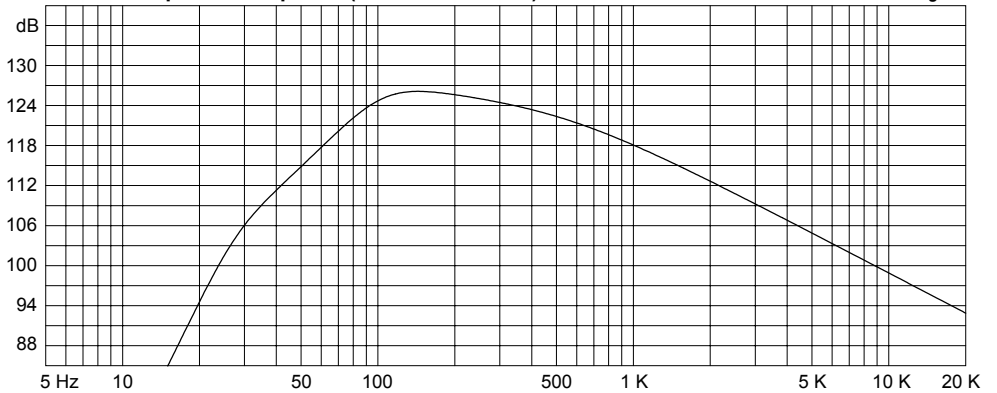
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 400 watts

Eminence Designer



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

Eminence Designer

