

Delta-15LF-4 Small Sealed Design

By Jerry McNutt, Eminence Speaker LLC

Limit to 300 Watts; F3 of 80 Hz.

Good for a Sealed Mid/bass or a small sealed Floor Wedge



Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 1.671 cu.ft

V(total) = 1.868 cu.ft

Qtc = 0.891

QL = 20

F3 = 80.35 Hz

Fill = heavy

Driver Properties

--Description--

Name: Delta-15LF-4

Type: Standard one-way driver

Company: Eminence Speaker USA

Comment: Four Ohm

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 40.43 Hz

Qms = 6.22

Vas = 253.9 liters

Cms = 0.24 mm/N

Mms = 65.8 g

Rms = 2.69 kg/s

Xmax = 4.8 mm

Xmech = 16.5 mm

P-Dia = 331.5 mm

Sd = 873 sq.cm

P-Vd = 0.414 liters

--Electrical Parameters--

Qes = 0.53

Re = 3.37 ohms

Le = 0.76 mH

Z = 4 ohms

BL = 10.32 Tm

Pe = 600 watts

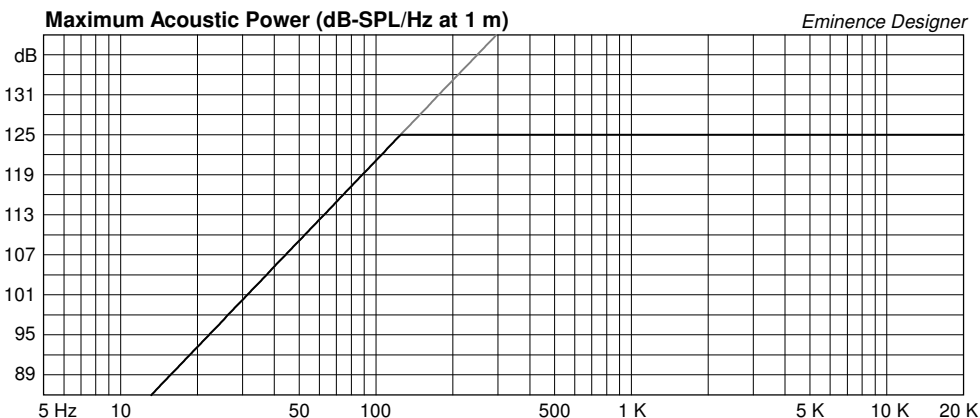
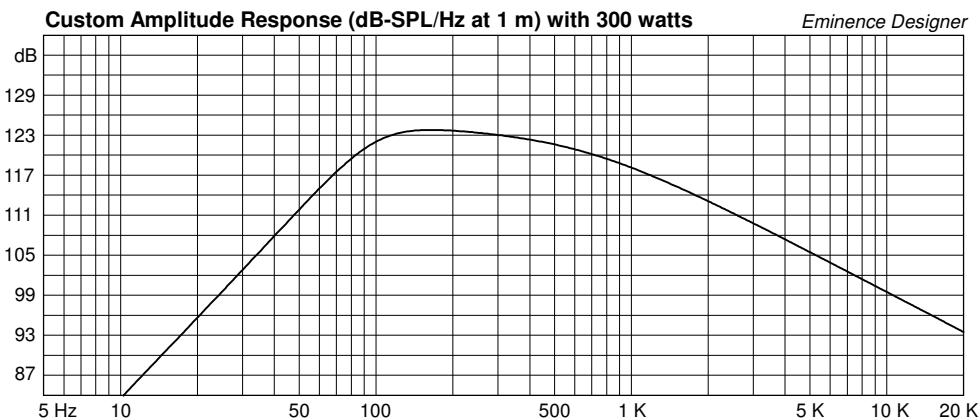
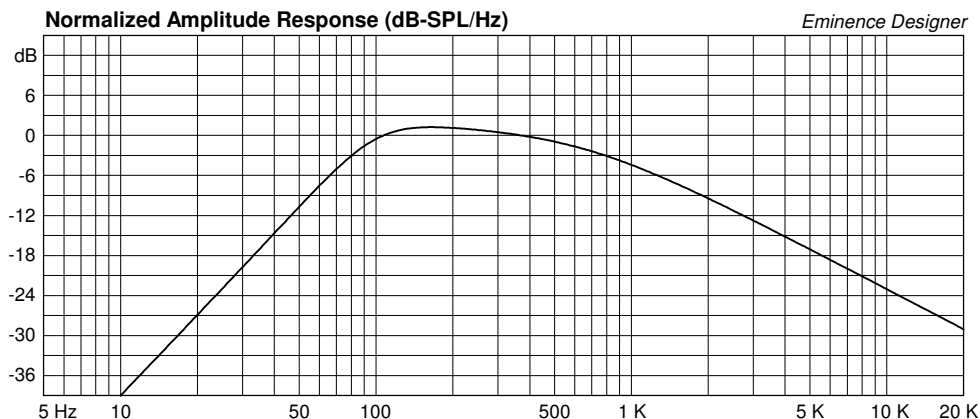
--Electromech. Parameters--

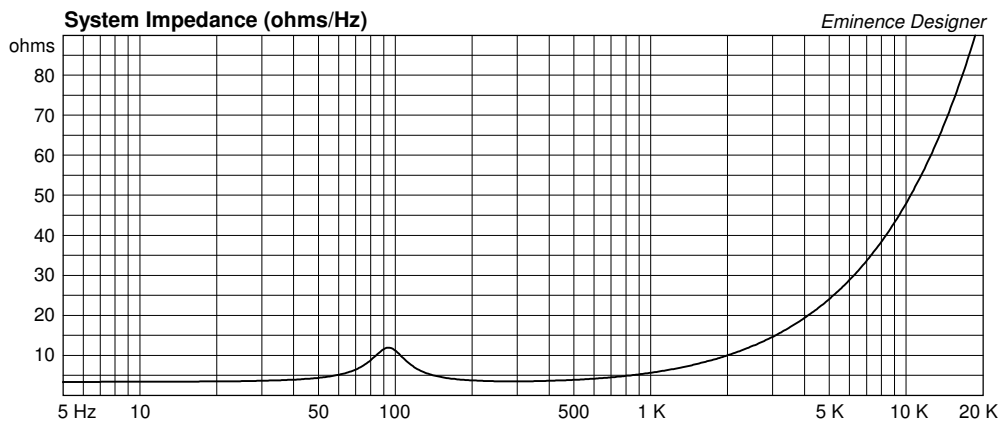
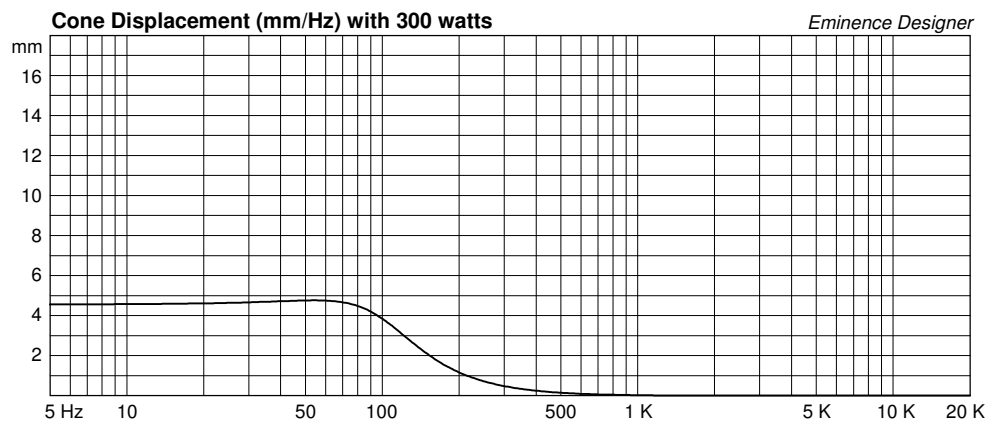
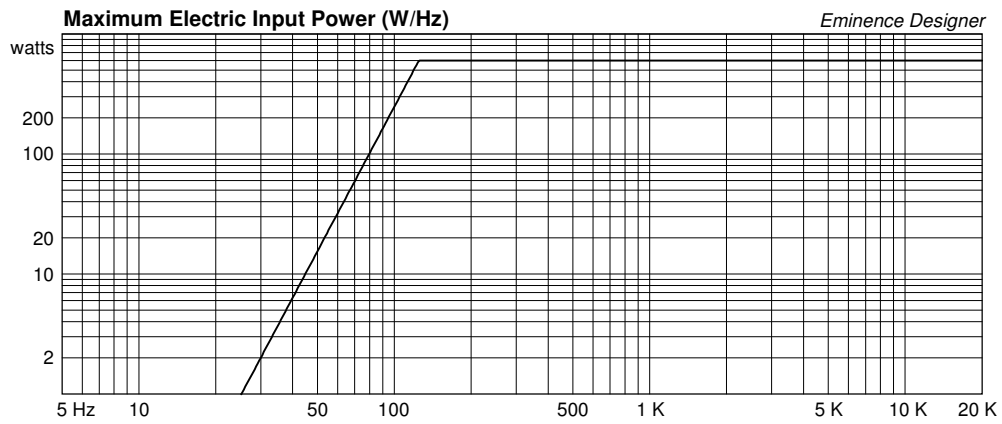
Qts = 0.49

no = 3.053 %

1-W SPL = 96.99 dB

2.83-V SPL = 100.7 dB





Delta-15LF-4 Small Vented Design

By Jerry McNutt, Eminence Speaker LLC

Limit to 350Watts; F3 of 65 Hz. Use a Steep High Pass Filter at 45 Hz.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 2.65 cu.ft

V(total) = 2.878 cu.ft

Fb = 60 Hz

QL = 7

F3 = 64.64 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 2.628 in

Driver Properties

--Description--

Name: Delta-15LF-4

Type: Standard one-way driver

Company: Eminence Speaker USA

Comment: Four Ohm

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 40.43 Hz

Qms = 6.22

Vas = 253.9 liters

Cms = 0.24 mm/N

Mms = 65.8 g

Rms = 2.69 kg/s

Xmax = 4.8 mm

Xmech = 16.5 mm

P-Dia = 331.5 mm

Sd = 873 sq.cm

P-Vd = 0.414 liters

--Electrical Parameters--

Qes = 0.53

Re = 3.37 ohms

Le = 0.76 mH

Z = 4 ohms

BL = 10.32 Tm

Pe = 600 watts

--Electromech. Parameters--

Qts = 0.49

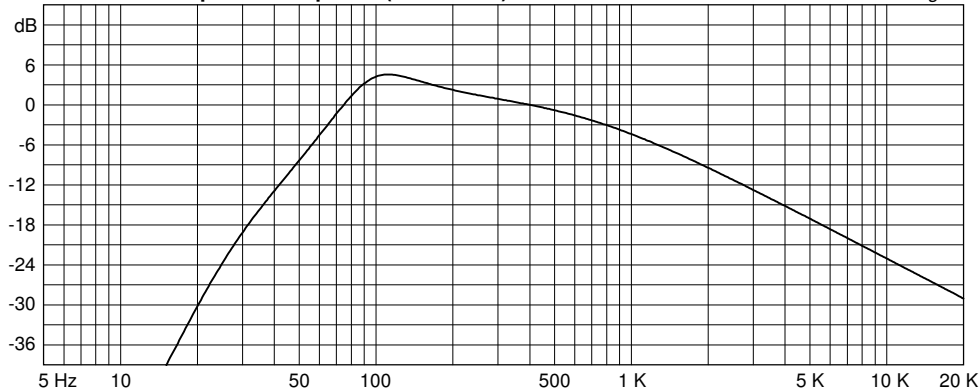
no = 3.053 %

1-W SPL = 96.99 dB

2.83-V SPL = 100.7 dB

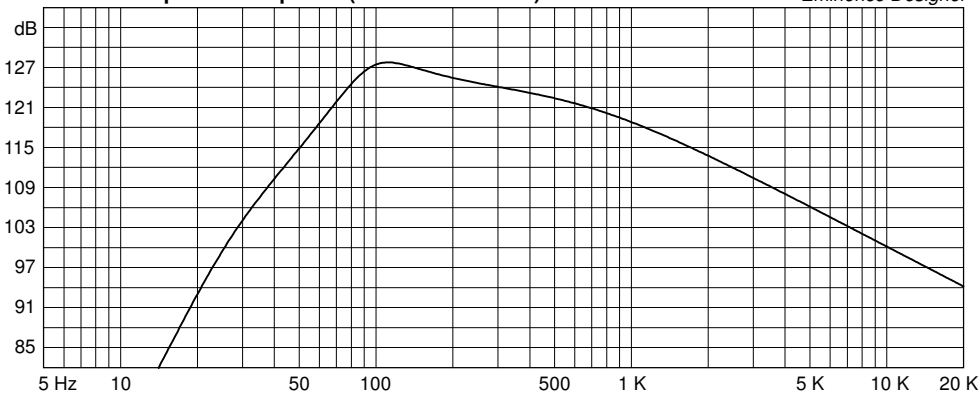
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



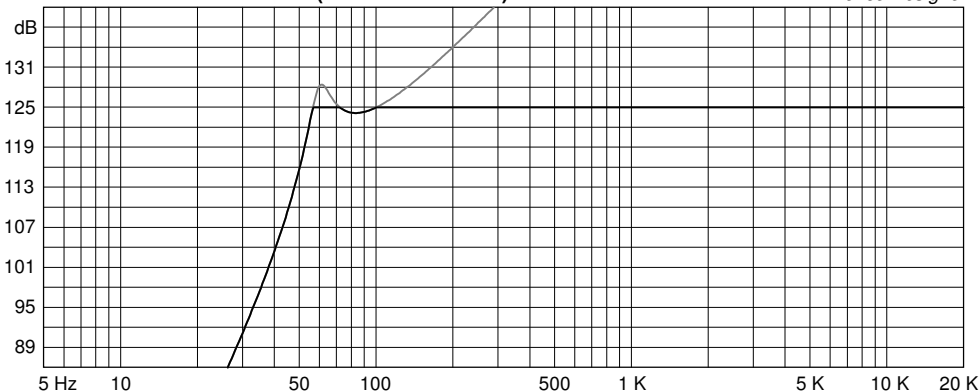
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 350 watts

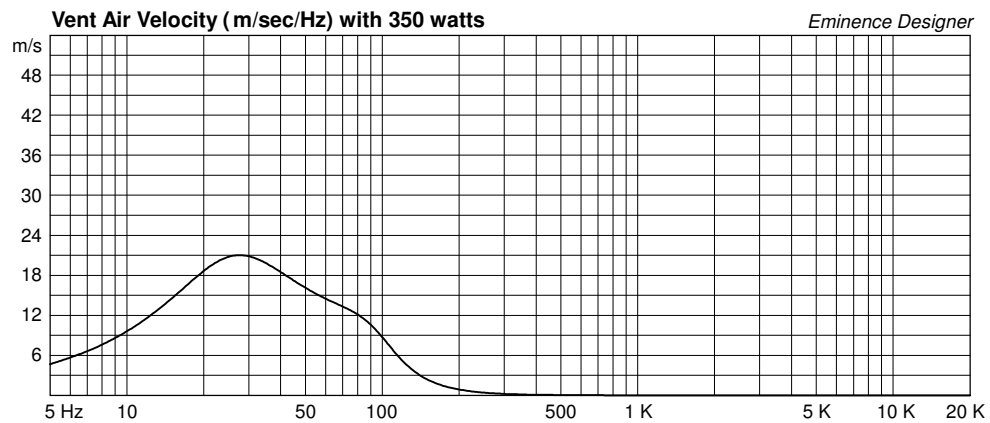
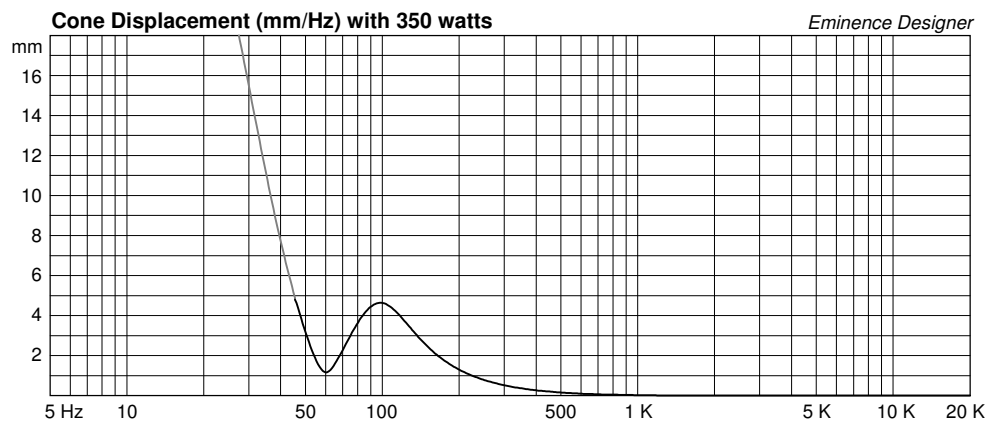
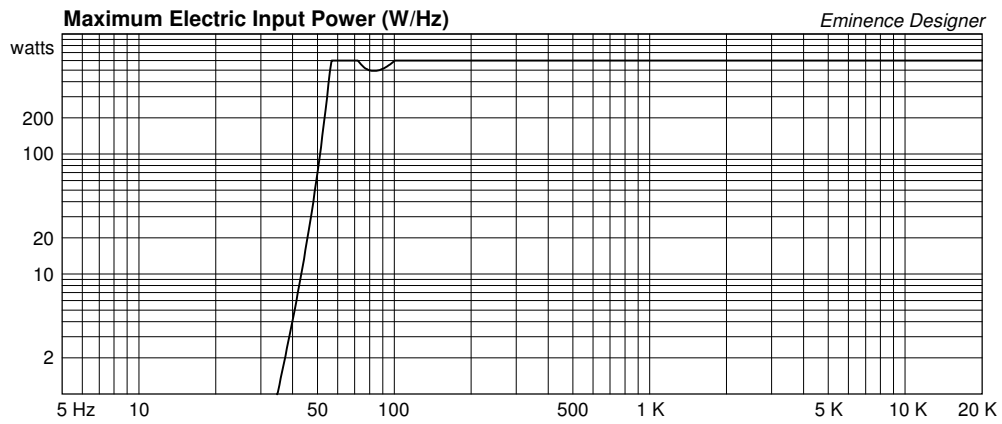
Eminence Designer

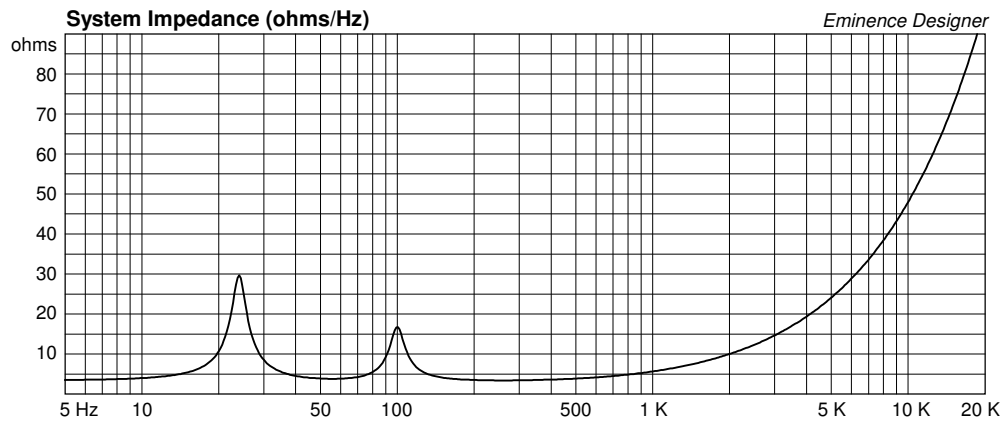


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







Delta-15LF-4 Medium Vented Design

By Jerry McNutt, Eminence Speaker LLC

Limit to 250 Watts; F3 of 55 Hz. Use a Steep Highpass filter at 40 Hz.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 3.85 cu.ft

V(total) = 4.077 cu.ft

Fb = 50 Hz

QL = 7

F3 = 54.74 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 2.562 in

Driver Properties

--Description--

Name: Delta-15LF-4

Type: Standard one-way driver

Company: Eminence Speaker USA

Comment: Four Ohm

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 40.43 Hz

Qms = 6.22

Vas = 253.9 liters

Cms = 0.24 mm/N

Mms = 65.8 g

Rms = 2.69 kg/s

Xmax = 4.8 mm

Xmech = 16.5 mm

P-Dia = 331.5 mm

Sd = 873 sq.cm

P-Vd = 0.414 liters

--Electrical Parameters--

Qes = 0.53

Re = 3.37 ohms

Le = 0.76 mH

Z = 4 ohms

BL = 10.32 Tm

Pe = 600 watts

--Electromech. Parameters--

Qts = 0.49

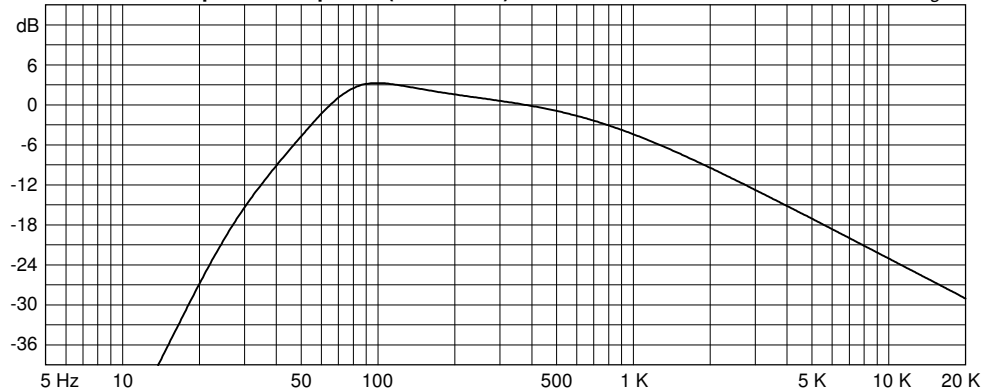
no = 3.053 %

1-W SPL = 96.99 dB

2.83-V SPL = 100.7 dB

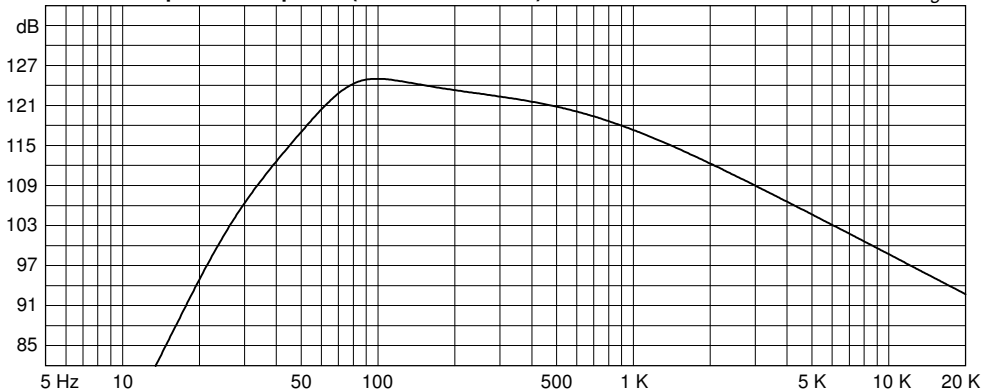
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



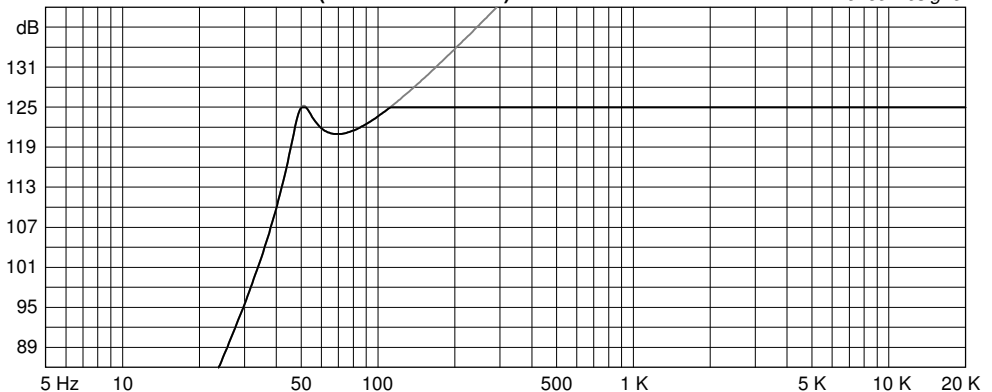
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 250 watts

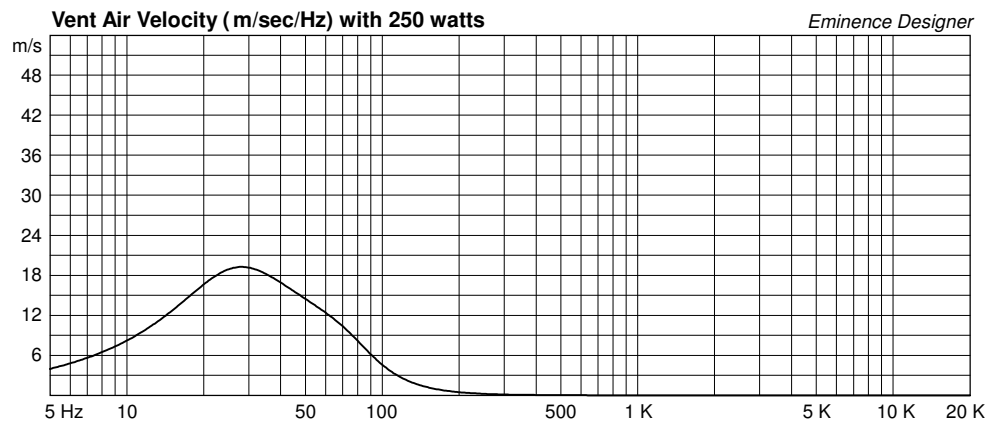
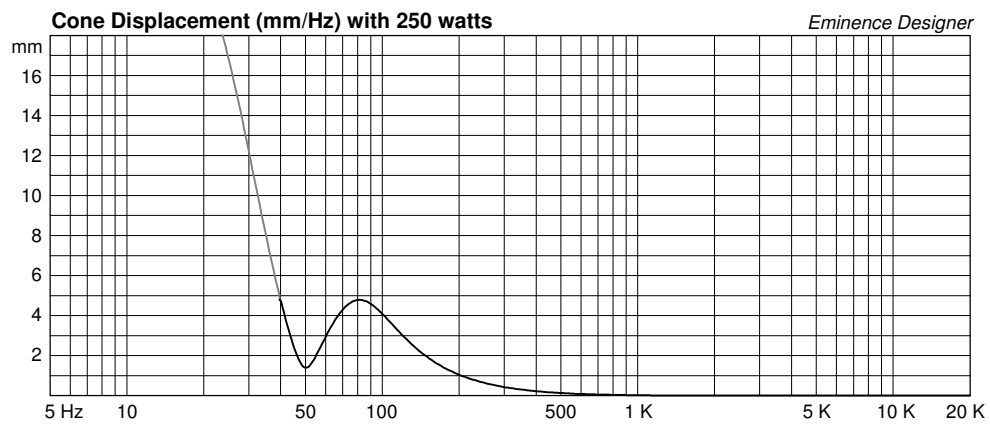
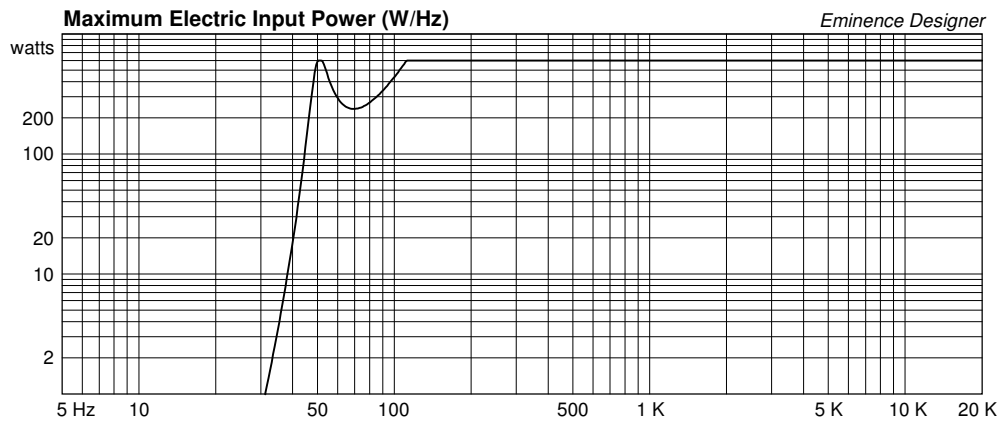
Eminence Designer

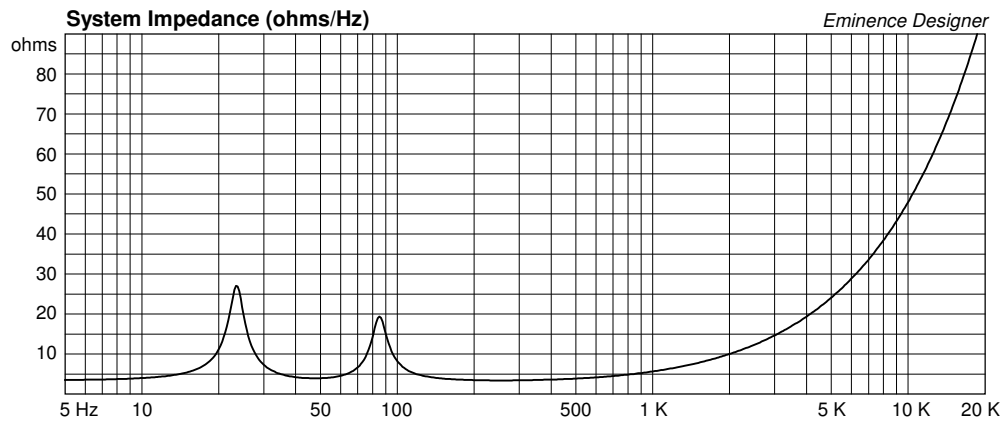


Maximum Acoustic Power (dB-SPL/Hz at 1 m)

Eminence Designer







Delta-15LF-4 Large Sealed Design

By Jerry McNutt, Eminence Speaker LLC

Limit to 200 Watts; F3 of 72 Hz.

Good for a Sealed Mid/bass or a sealed Floor Wedge



Box Properties

--Description--

Name:

Type: Closed Box

Shape: Prism, square

--Box Parameters--

Vb = 3.25 cu.ft

V(total) = 3.447 cu.ft

Qtc = 0.728

QL = 20

F3 = 71.93 Hz

Fill = heavy

Driver Properties

--Description--

Name: Delta-15LF-4

Type: Standard one-way driver

Company: Eminence Speaker USA

Comment: Four Ohm

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 40.43 Hz

Qms = 6.22

Vas = 253.9 liters

Cms = 0.24 mm/N

Mms = 65.8 g

Rms = 2.69 kg/s

Xmax = 4.8 mm

Xmech = 16.5 mm

P-Dia = 331.5 mm

Sd = 873 sq.cm

P-Vd = 0.414 liters

--Electrical Parameters--

Qes = 0.53

Re = 3.37 ohms

Le = 0.76 mH

Z = 4 ohms

BL = 10.32 Tm

Pe = 600 watts

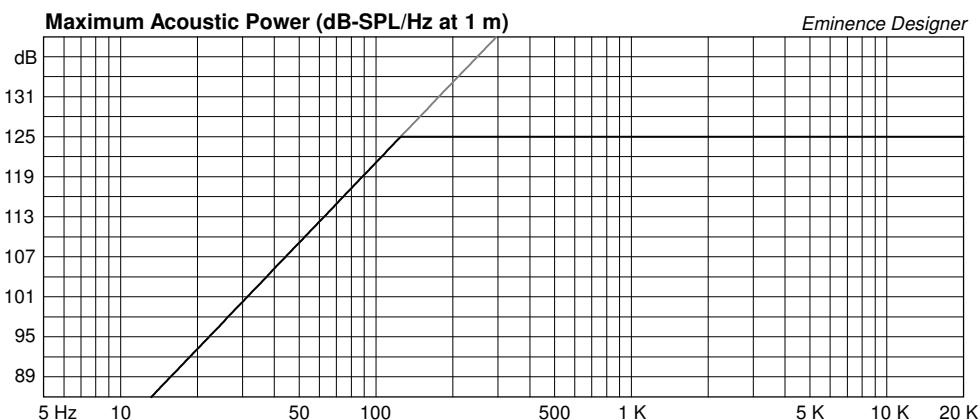
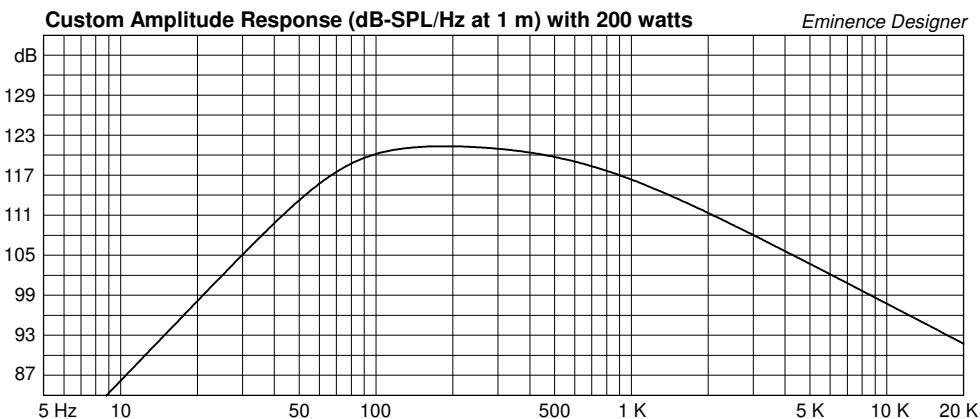
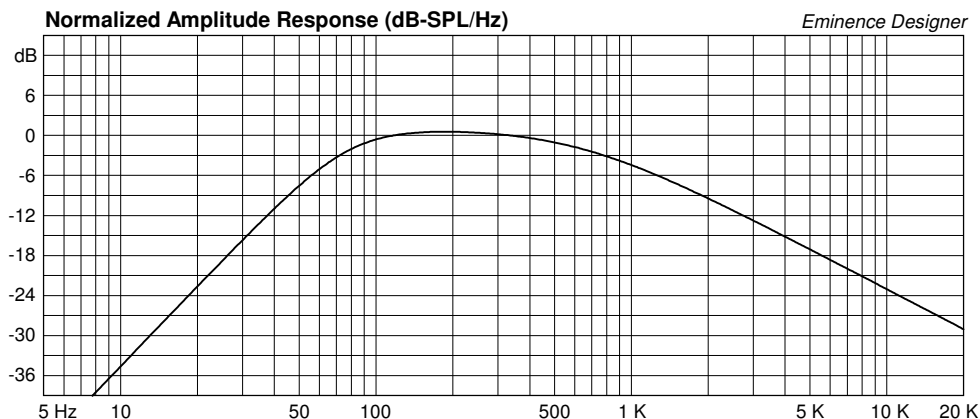
--Electromech. Parameters--

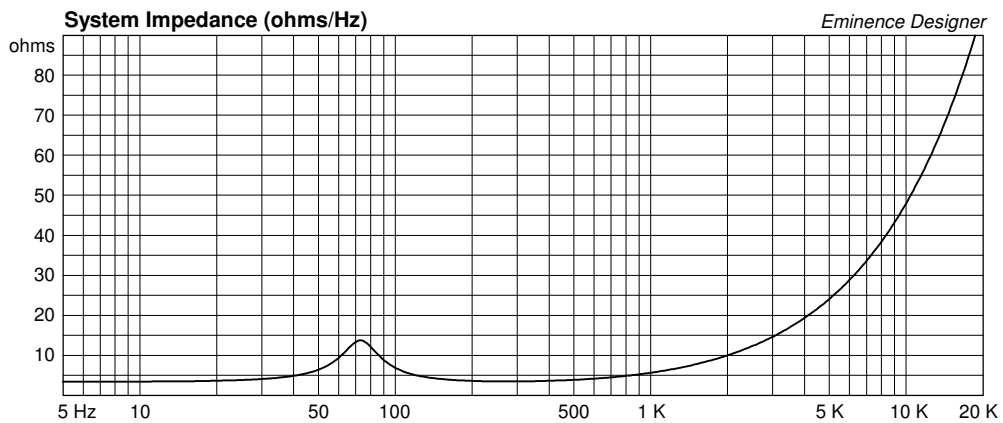
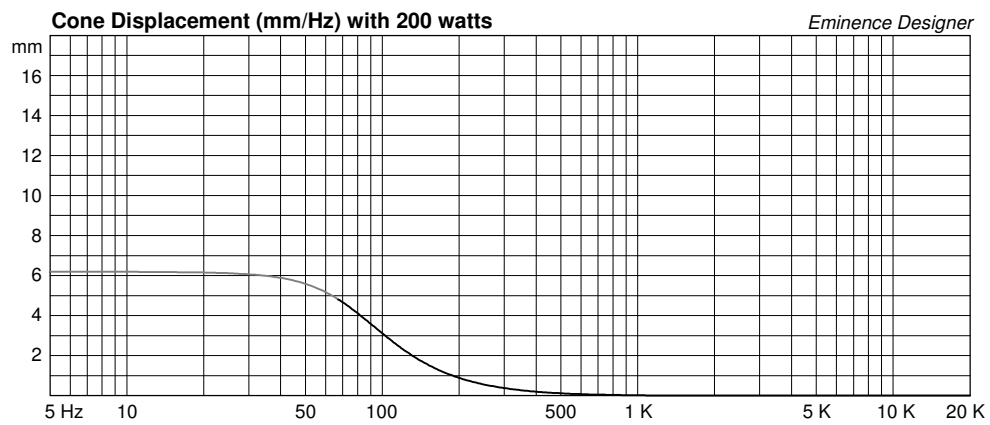
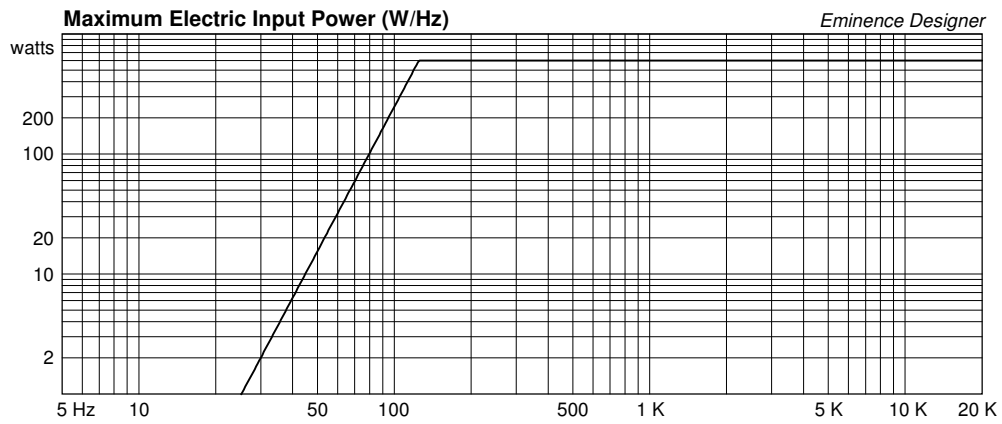
Qts = 0.49

no = 3.053 %

1-W SPL = 96.99 dB

2.83-V SPL = 100.7 dB





Delta-15LF-4 Large Vented Design

By Jerry McNutt, Eminence Speaker LLC

Limit to 200 Watts; F3 of 48 Hz. Use a Steep Highpass filter at 35 Hz.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 5.25 cu.ft

V(total) = 5.452 cu.ft

Fb = 48 Hz

QL = 7

F3 = 48.35 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 1.067 in

Driver Properties

--Description--

Name: Delta-15LF-4

Type: Standard one-way driver

Company: Eminence Speaker USA

Comment: Four Ohm

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 40.43 Hz

Qms = 6.22

Vas = 253.9 liters

Cms = 0.24 mm/N

Mms = 65.8 g

Rms = 2.69 kg/s

Xmax = 4.8 mm

Xmech = 16.5 mm

P-Dia = 331.5 mm

Sd = 873 sq.cm

P-Vd = 0.414 liters

--Electrical Parameters--

Qes = 0.53

Re = 3.37 ohms

Le = 0.76 mH

Z = 4 ohms

BL = 10.32 Tm

Pe = 600 watts

--Electromech. Parameters--

Qts = 0.49

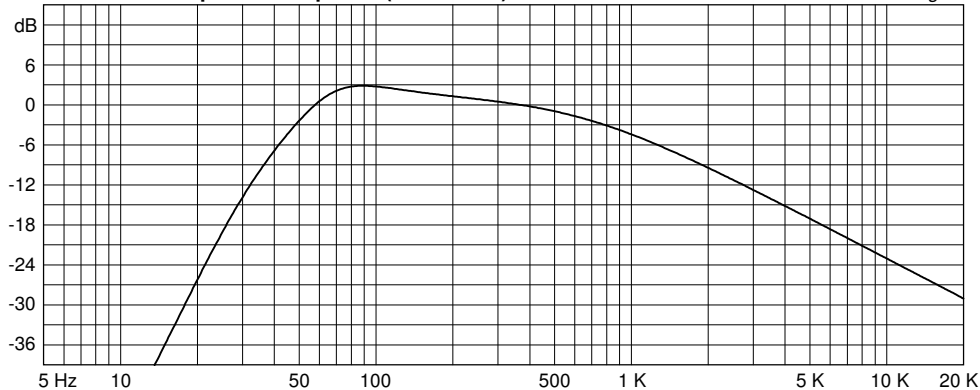
no = 3.053 %

1-W SPL = 96.99 dB

2.83-V SPL = 100.7 dB

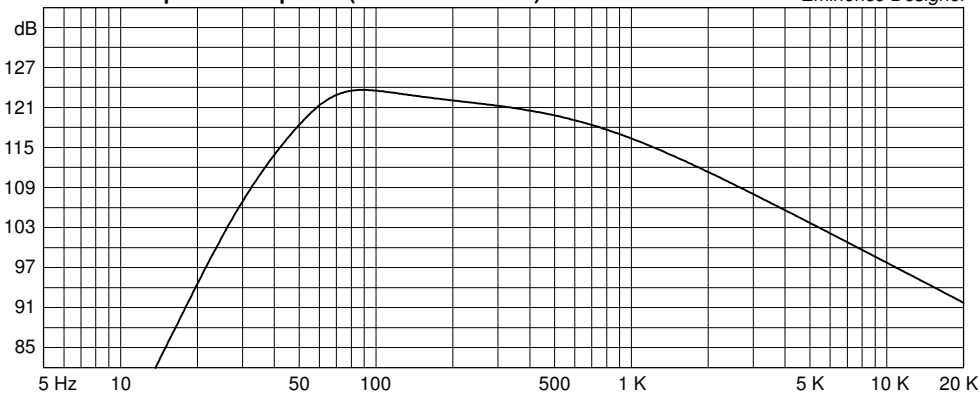
Normalized Amplitude Response (dB-SPL/Hz)

Eminence Designer



Custom Amplitude Response (dB-SPL/Hz at 1 m) with 200 watts

Eminence Designer



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

Eminence Designer

