

KappaLite 3010LF Small Vented Floor Wedge Or Sat

By Jerry McNutt, Eminence Speaker LLC

450 Watts Power Handling, F3 of 72 Hz, High Pass Suggested at 60 Hz.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, truncated edge

--Box Parameters--

Vb = 0.65 cu.ft

V(total) = 0.746 cu.ft

Fb = 70 Hz

QL = 7

F3 = 71.81 Hz

Fill = minimal

--Vents--

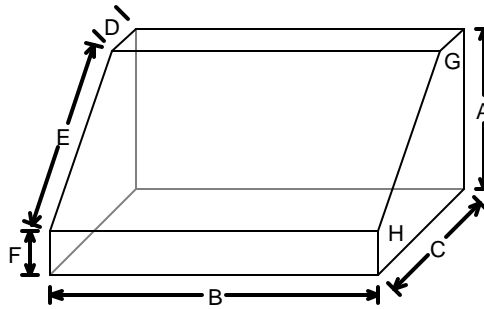
No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 2.5 in

Lv = 5.667 in



--External Dimensions--

A = 11 in

B = 22.41 in

C = 11 in

D = 3 in

E = 11.31 in

F = 3 in

--Internal Dimensions--

A = 9.5 in

B = 20.91 in

C = 9.5 in

D = 1.939 in

E = 10.69 in

F = 1.939 in

--Wall Thickness--

Wall = 0.75 in

--Angles--

G = 135°

H = 135°

Driver Properties

--Description--

Name: KappaLite 3010LF

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: 10" Cast Neo Subwoofer

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 38.67 Hz

Qms = 11.75

Vas = 62.41 liters

Cms = 0.35 mm/N

Mms = 48.72 g

Rms = 1.01 kg/s

Xmax = 8.52 mm

Xmech = 15.7 mm

P-Dia = 212.4 mm

Sd = 358.4 sq.cm

P-Vd = 0.302 liters

--Electrical Parameters--

Qes = 0.28

Re = 7.2 ohms

Le = 1.13 mH

Z = 8 ohms

BL = 17.45 Tm

Pe = 450 watts

--Electromech. Parameters--

Qts = 0.273

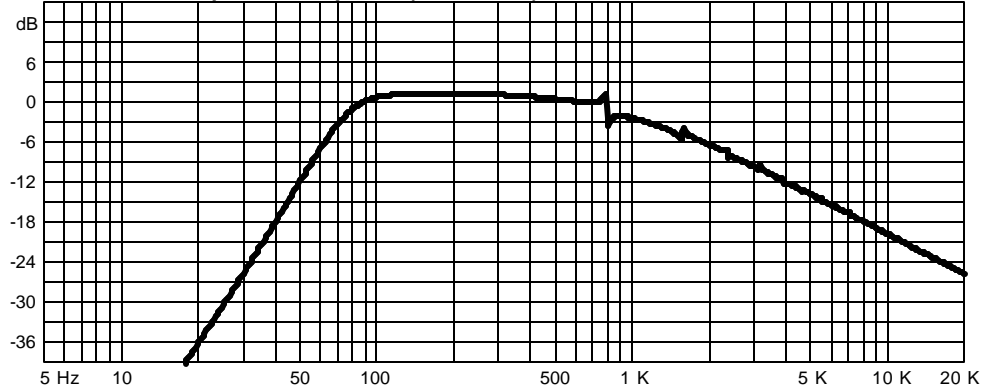
no = 1.243 %

1-W SPL = 93.09 dB

2.83-V SPL = 93.55 dB

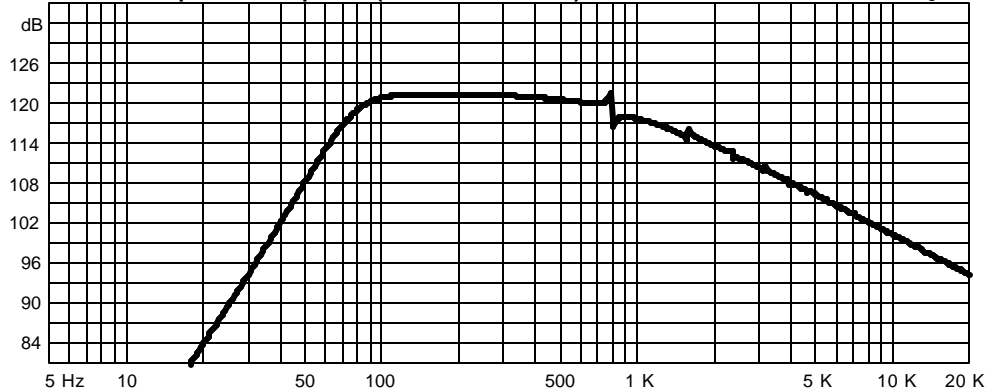
Normalized Amplitude Response (dB-SPL/Hz)

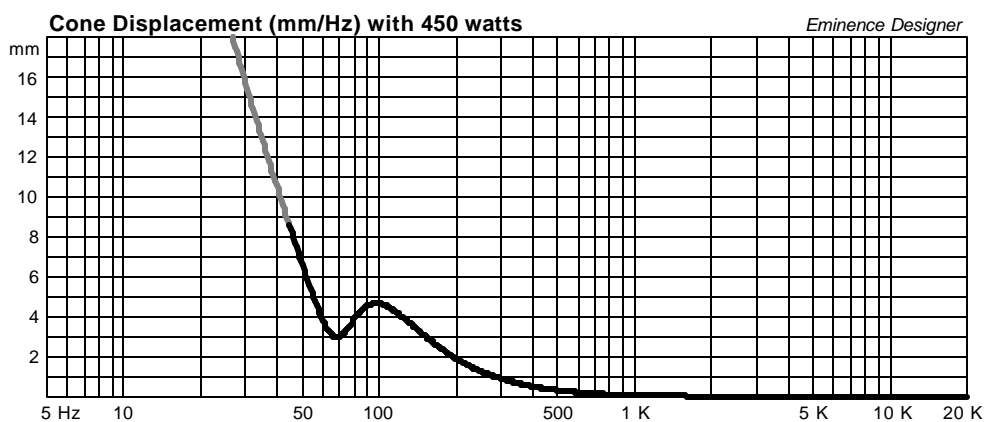
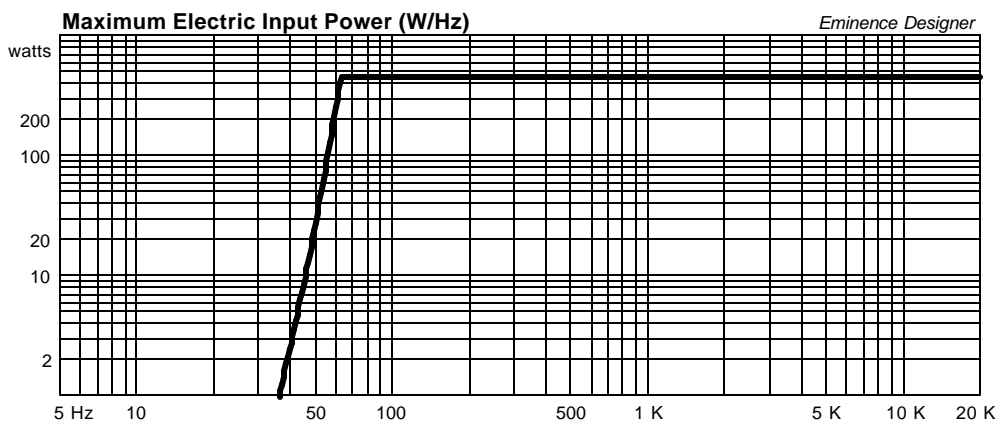
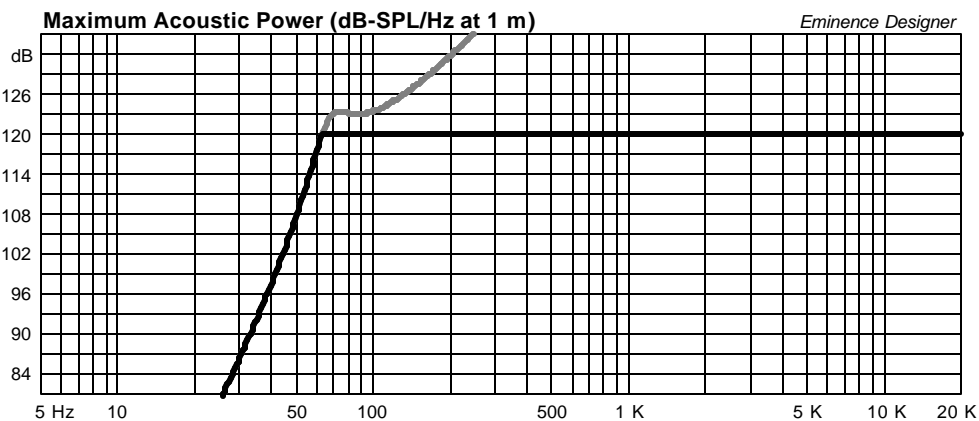
Eminence Designer

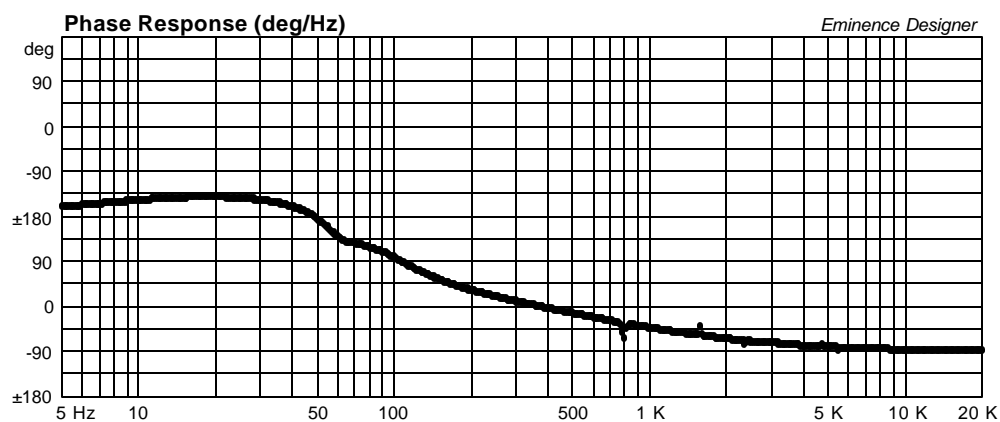
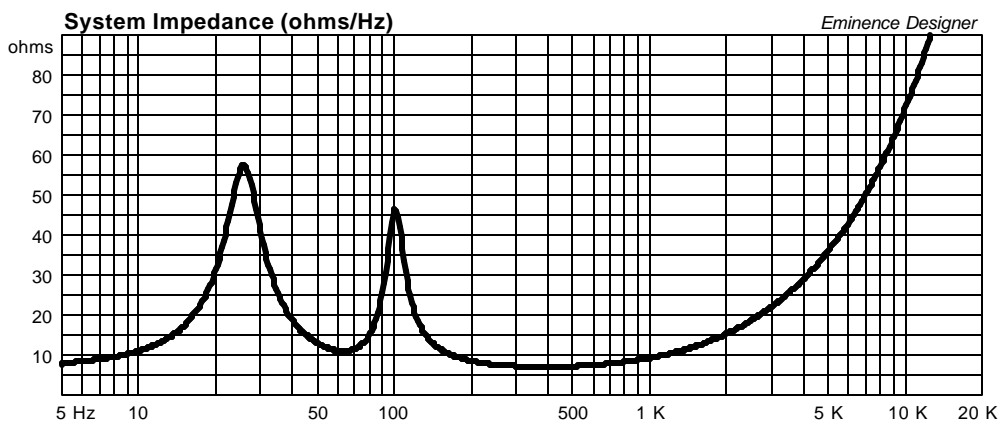
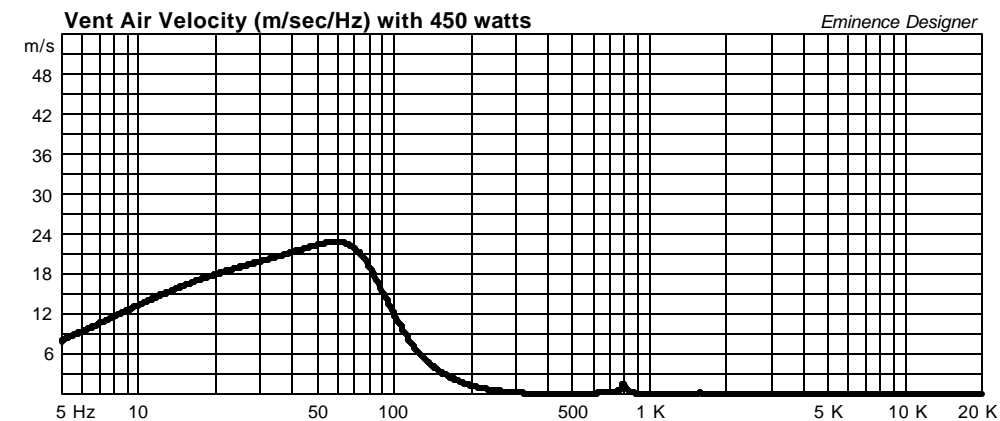


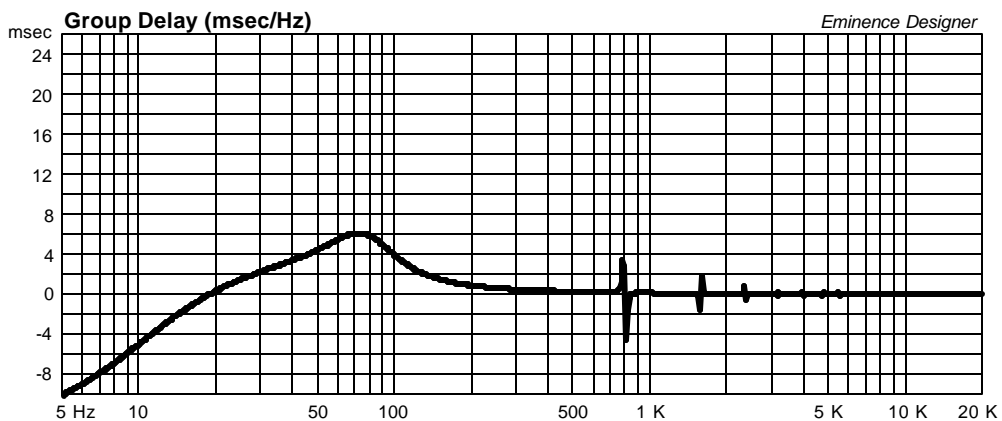
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 450 watts

Eminence Designer









KappaLite 3010LF Med Vented Box, Bass Guitar

By Jerry McNutt, Eminence Speaker LLC

450 Watts Power Handling, F3 of 52Hz, High Pass Suggested at 40 Hz.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 1.2 cu.ft

V(total) = 1.361 cu.ft

Fb = 52 Hz

QL = 7

F3 = 57.45 Hz

Fill = minimal

--Vents--

No. of Vents = 1

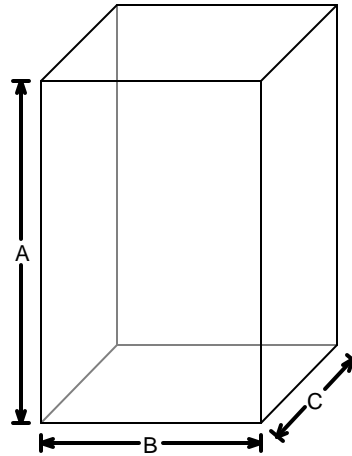
Vent shape = rectangle

Vent ends = one flush

Hv = 1.1 in

Wv = 13.14 in

Lv = 10.18 in



--External Dimensions--

A = 23.02 in

B = 14.8 in

C = 9.719 in

--Internal Dimensions--

A = 21.52 in

B = 13.3 in

C = 8.219 in

--Wall Thickness--

Front = 0.75 in

Side = 0.75 in

Driver Properties

--Description--

Name: KappaLite 3010LF

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: 10" Cast Neo Subwoofer

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 38.67 Hz

Qms = 11.75

Vas = 62.41 liters

Cms = 0.35 mm/N

Mms = 48.72 g

Rms = 1.01 kg/s

Xmax = 8.52 mm

Xmech = 15.7 mm

P-Dia = 212.4 mm

Sd = 358.4 sq.cm

P-Vd = 0.302 liters

--Electrical Parameters--

Qes = 0.28

Re = 7.2 ohms

Le = 1.13 mH

Z = 8 ohms

BL = 17.45 Tm

Pe = 450 watts

--Electromech. Parameters--

Qts = 0.273

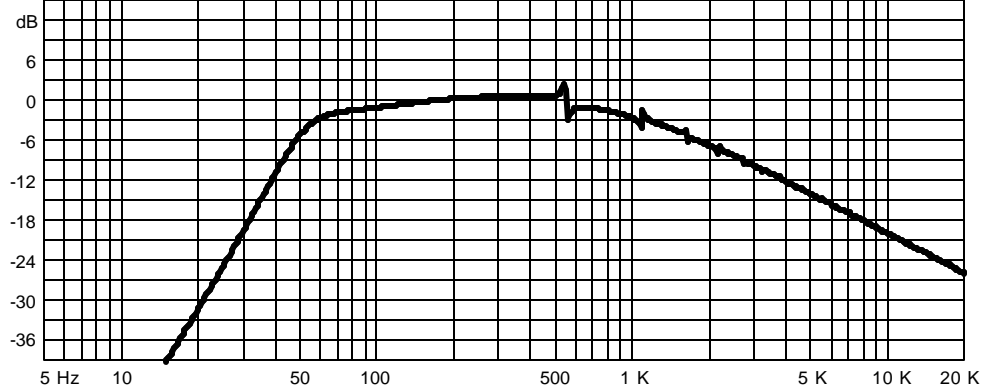
no = 1.243 %

1-W SPL = 93.09 dB

2.83-V SPL = 93.55 dB

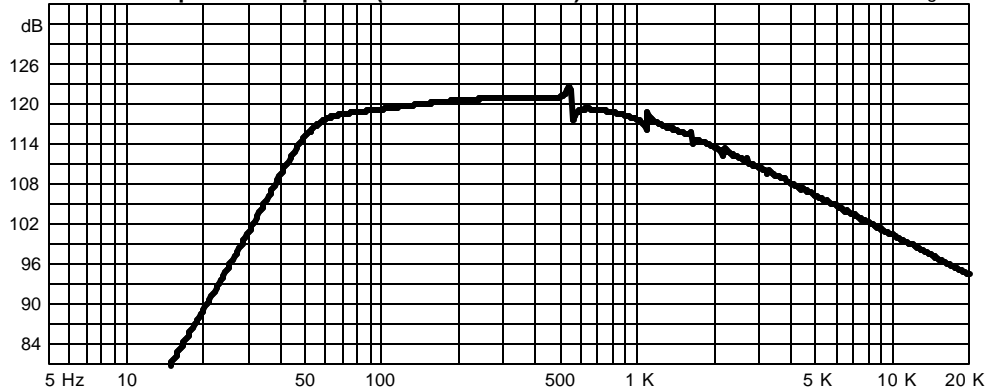
Normalized Amplitude Response (dB-SPL/Hz)

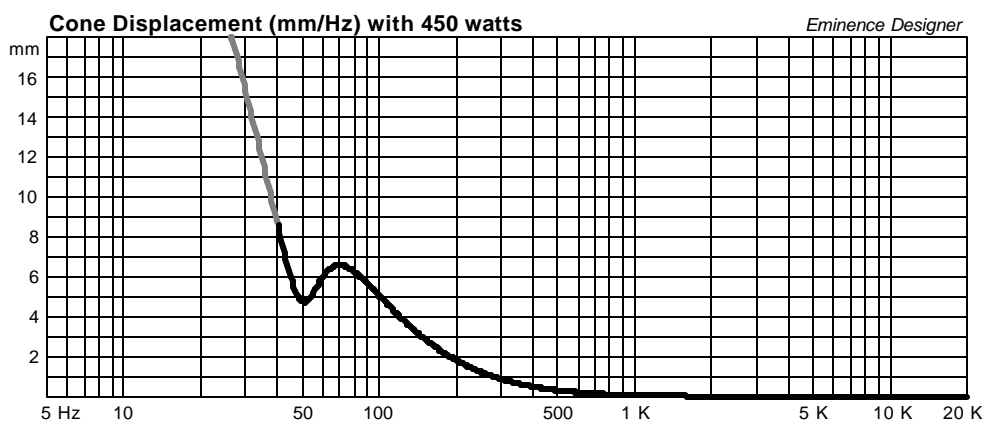
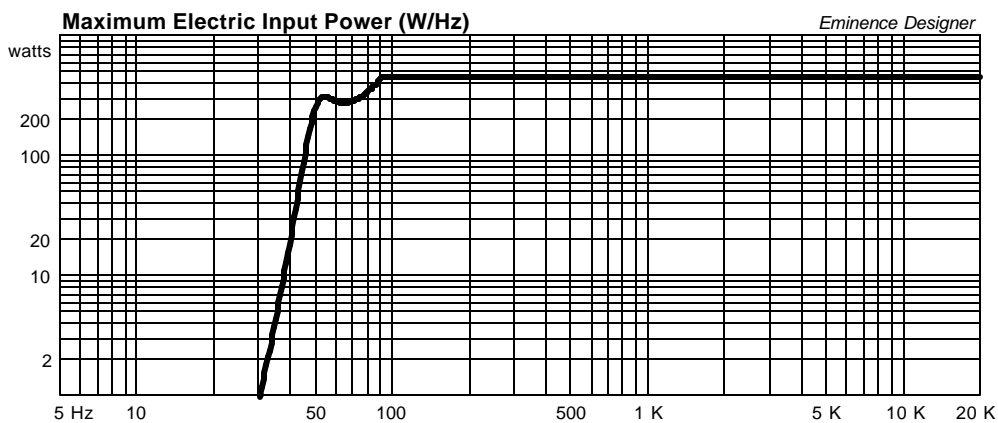
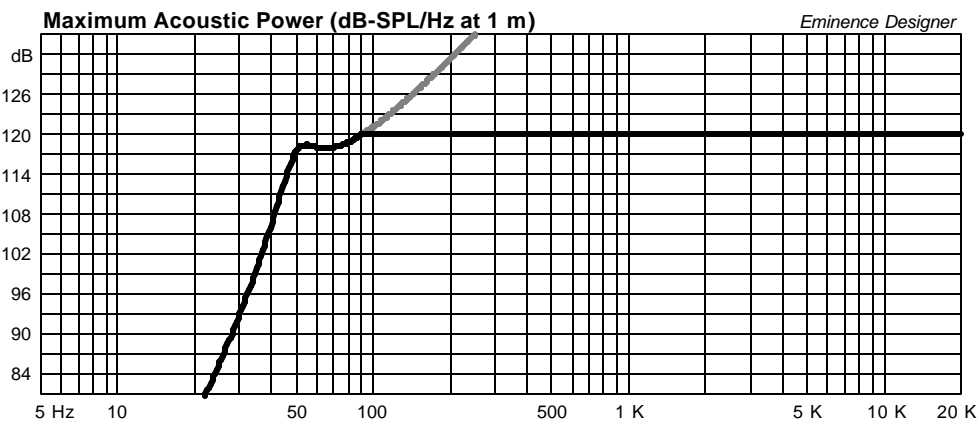
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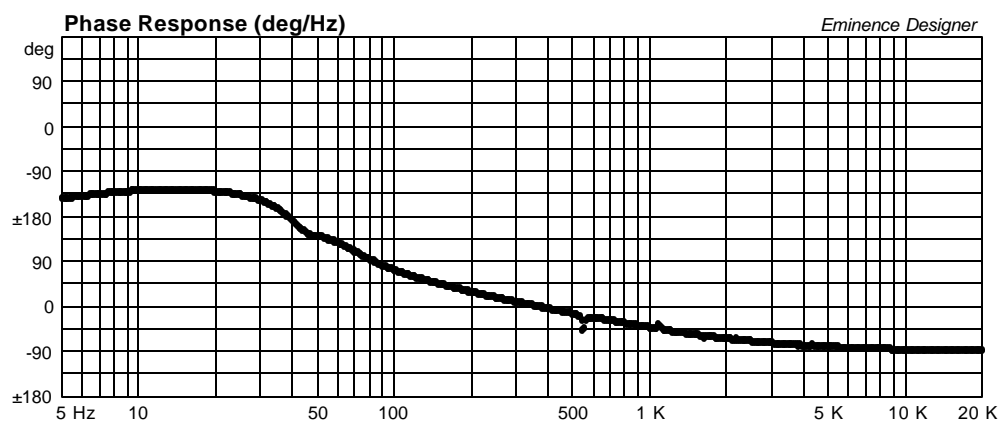
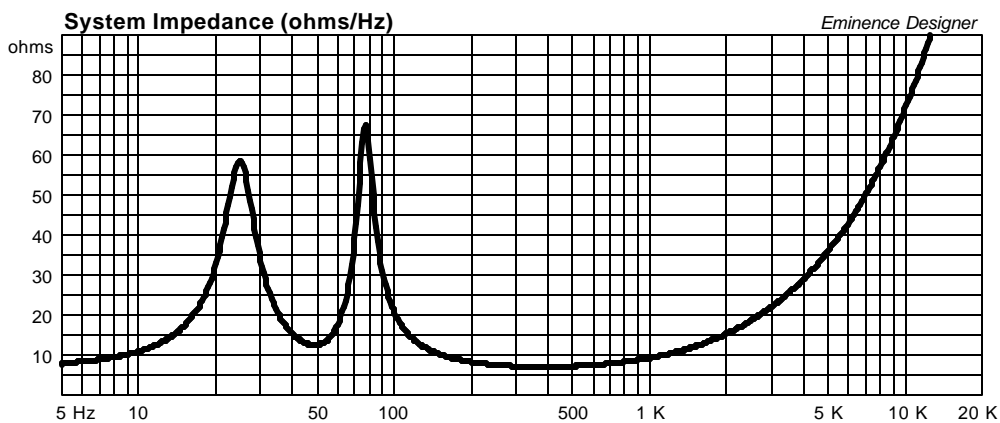
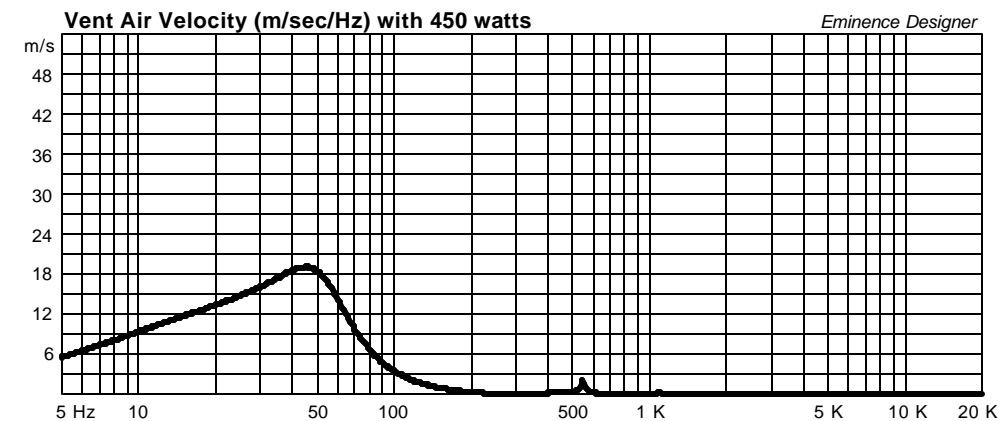


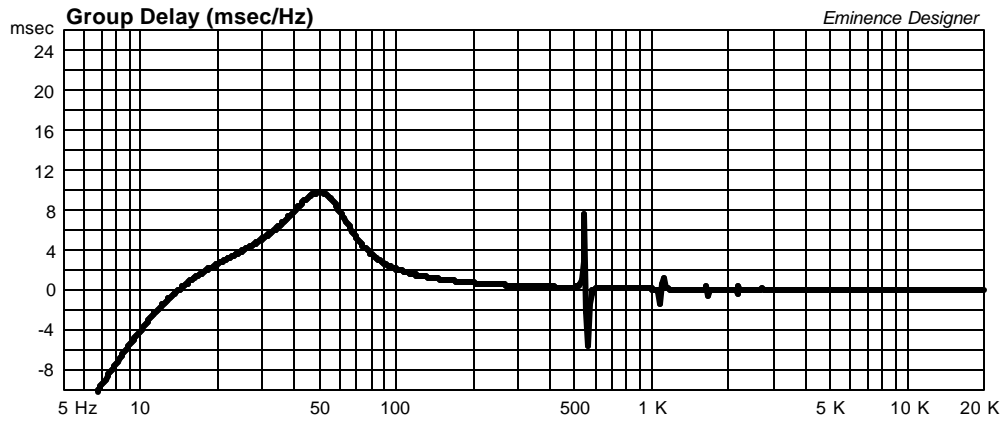
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 450 watts

Eminence Designer









KappaLite 3010LF Large Vented Box Design

By Jerry McNutt, Eminence Speaker LLC

450 Watts Power Handling, F3 of 44 Hz, High Pass Suggested at 38 Hz.



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 2.66 cu.ft

V(total) = 2.821 cu.ft

Fb = 48 Hz

QL = 20

F3 = 43.85 Hz

Fill = minimal

--Vents--

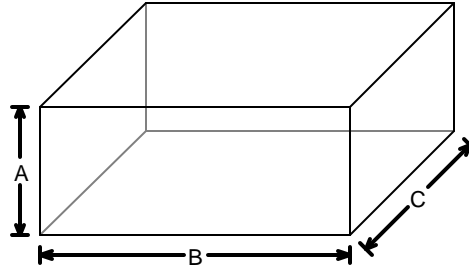
No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 6.738 in



--External Dimensions--

A = 11.98 in

B = 28.93 in

C = 18.46 in

--Internal Dimensions--

A = 10.48 in

B = 27.43 in

C = 16.96 in

--Wall Thickness--

Front = 0.75 in

Side = 0.75 in

Driver Properties

--Description--

Name: KappaLite 3010LF

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: 10" Cast Neo Subwoofer

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 38.67 Hz

Qms = 11.75

Vas = 62.41 liters

Cms = 0.35 mm/N

Mms = 48.72 g

Rms = 1.01 kg/s

Xmax = 8.52 mm

Xmech = 15.7 mm

P-Dia = 212.4 mm

Sd = 358.4 sq.cm

P-Vd = 0.302 liters

--Electrical Parameters--

Qes = 0.28

Re = 7.2 ohms

Le = 1.13 mH

Z = 8 ohms

BL = 17.45 Tm

Pe = 450 watts

--Electromech. Parameters--

Qts = 0.273

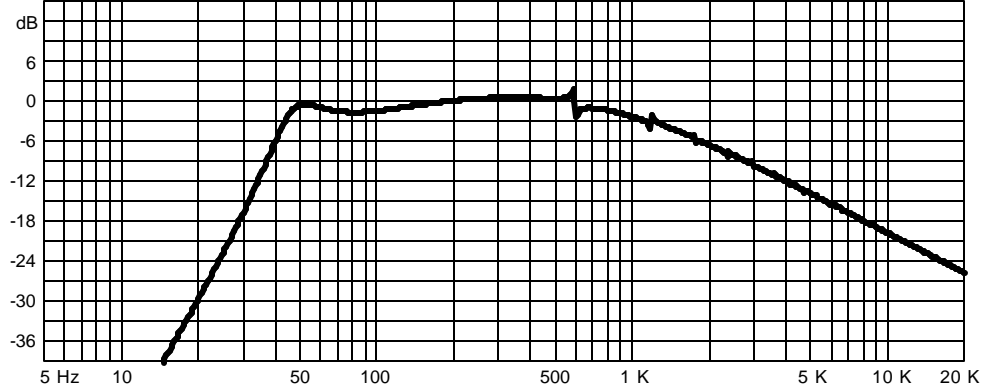
no = 1.243 %

1-W SPL = 93.09 dB

2.83-V SPL = 93.55 dB

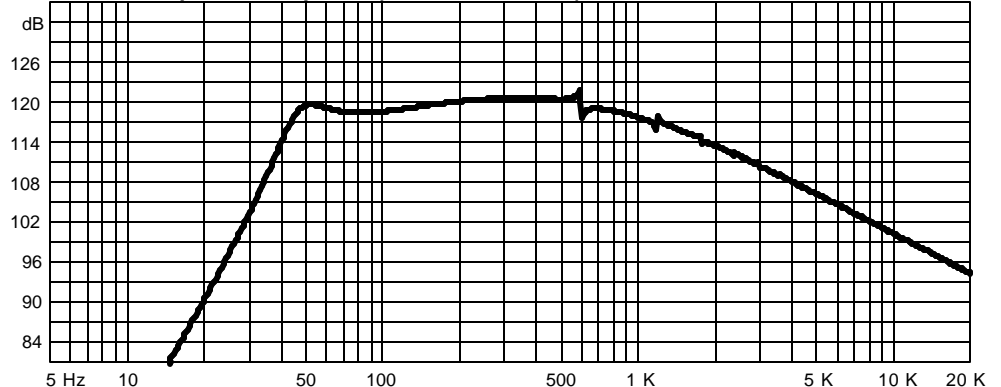
Normalized Amplitude Response (dB-SPL/Hz)

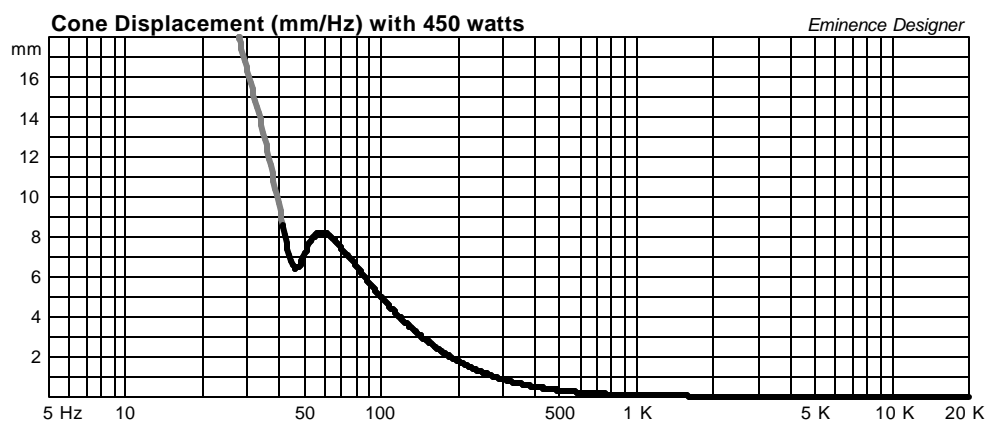
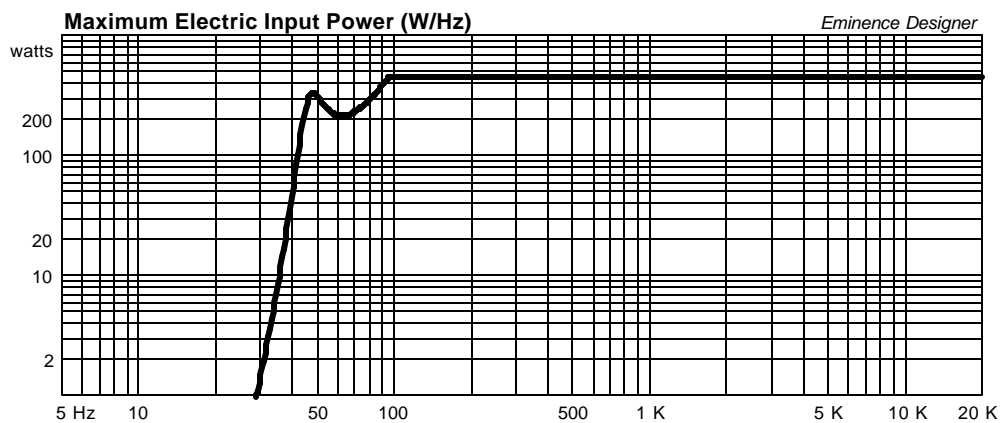
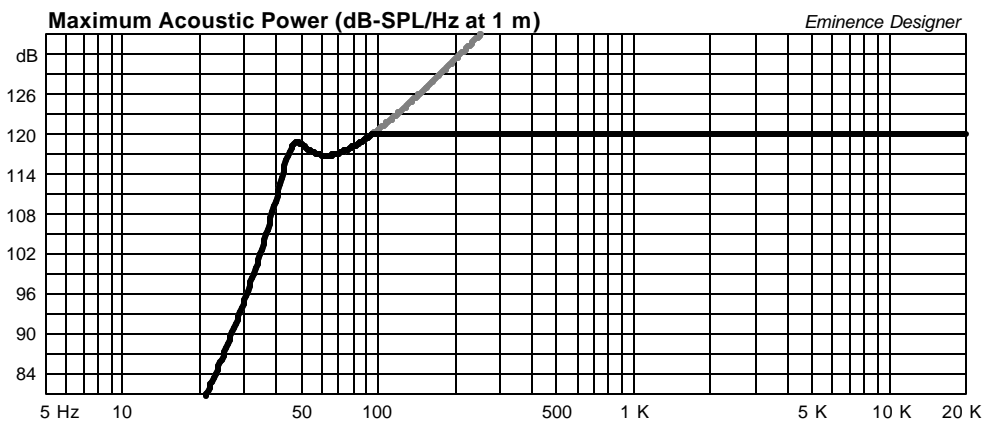
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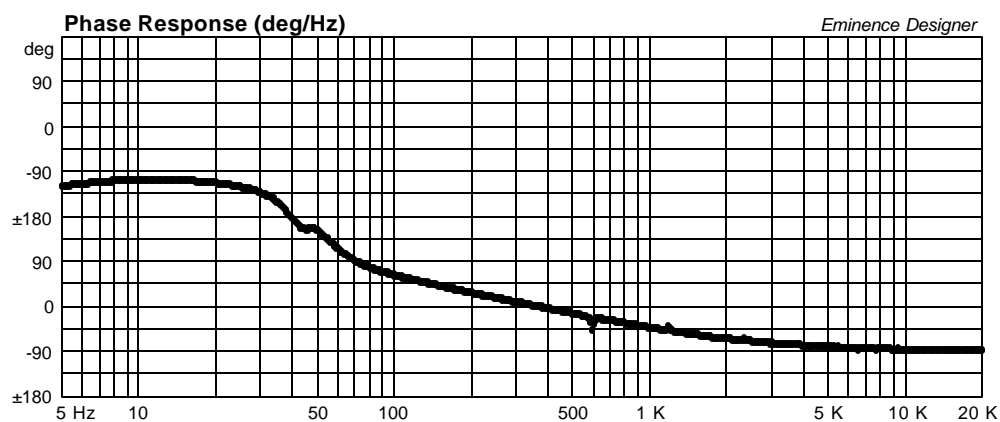
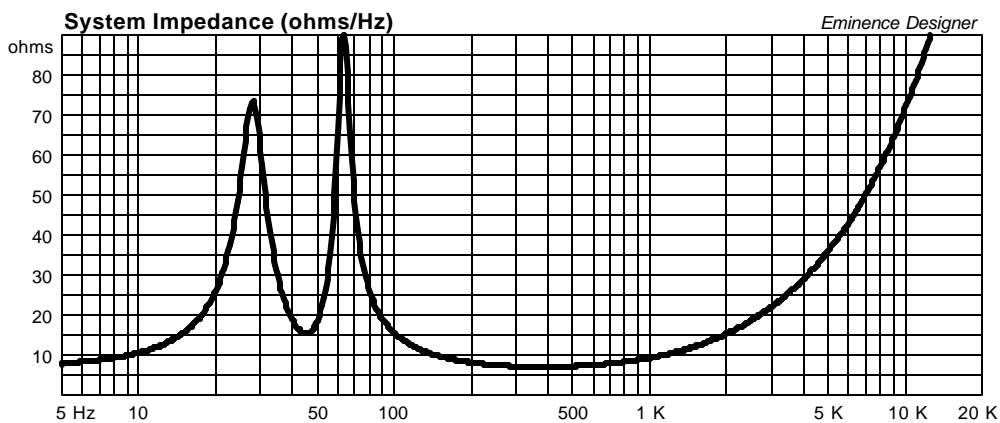
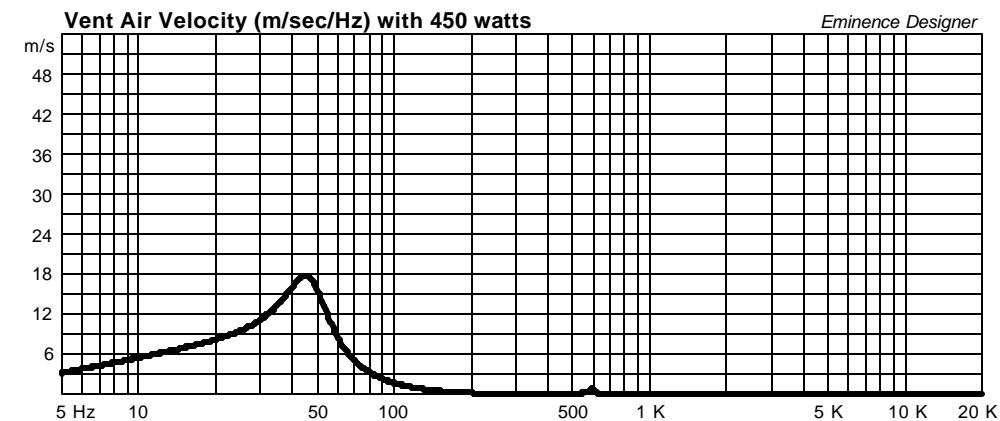


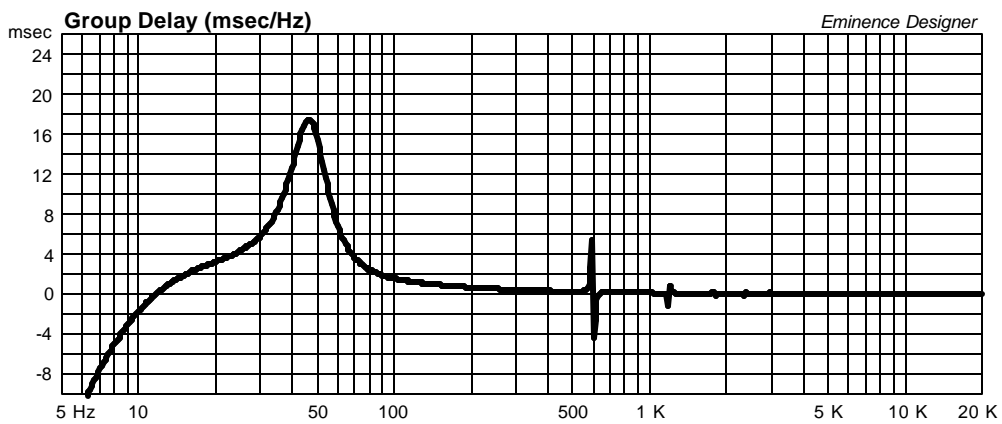
Custom Amplitude Response (dB-SPL/Hz at 1 m) with 450 watts

Eminence Designer









KappaLite 3010LF x2, MicroSub, Advanced Design

By Jerry McNutt, Eminence Speaker LLC
600 Watts Power Handling, F3 of 47 Hz. Not For First Time Builders.
Fx at 48 Hz and Qx at 1.4 or other types of EQ to play this low.



Box Properties

--Description--

Name:

Type: Vented Box w/ Active HP Filter

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 2.8 cu.ft

V(total) = 3.019 cu.ft

Fb = 48 Hz

QL = 7

F3 = 46.93 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

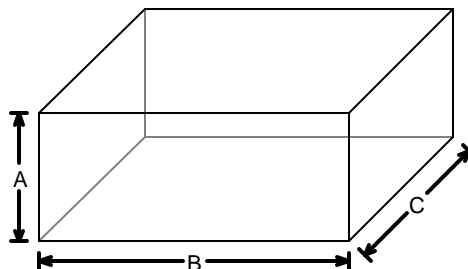
Dv = 4 in

Lv = 6.163 in

--Active 12 dB/oct. HP Filter--

Fx = 48 Hz

Qx = 1.4



--External Dimensions--

A = 12.22 in

B = 29.56 in

C = 18.84 in

--Internal Dimensions--

A = 10.72 in

B = 28.06 in

C = 17.34 in

--Wall Thickness--

Front = 0.75 in

Side = 0.75 in

Driver Properties

--Description--

Name: KappaLite 3010LF

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: 10" Cast Neo Subwoofer

--Configuration--

No. of Drivers = 2

Mounting = Standard

Wiring = Parallel

Drivers sum coherently = Yes

--Mechanical Parameters--

Fs = 38.67 Hz

Qms = 11.75

Vas = 62.41 liters [124.8]

Cms = 0.35 mm/N [0.175]

Mms = 48.72 g [97.44]

Rms = 1.01 kg/s [2.02]

Xmax = 8.52 mm

Xmech = 15.7 mm

P-Dia = 212.4 mm [300.4]

Sd = 358.4 sq.cm [716.8]

P-Vd = 0.302 liters [0.604]

--Electrical Parameters--

Qes = 0.28

Re = 7.2 ohms [3.6]

Le = 1.13 mH [0.565]

Z = 8 ohms [4]

BL = 17.45 Tm [17.45]

Pe = 450 watts [900]

--Electromech. Parameters--

Qts = 0.273

no = 1.243 % [2.485]

1-W SPL = 93.09 dB [96.1]

2.83-V SPL = 93.55 dB [99.57]

