

# KappaLite 3010LF-4 Small Vented Box

By Matt Marcum, Eminence Speaker LLC

550 Watts Power Handling, F3 of 71 Hz, High Pass Suggested at 60 Hz.

## Box Properties

--Description--

Name: Vented Box 1

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 0.54 cu.ft

V(total) = 0.674 cu.ft

Fb = 65 Hz

QL = 7

F3 = 70.59 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 13.8 in

## Driver Properties

--Description--

Name: KappaLite 3010LF

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Neodymium series

Piston: Treated paper cone.

Suspension: Sealed cloth surround.

Dust Cap: Treated paper dust cap.

Frame: Diecast aluminum basket.

Voice Coil: 3 inch (76.2 mm) copper coil. Polyimide former.

Magnet: 11 oz neodymium magnet.

Magnetic shielding

--Configuration--

**No. of Drivers = 1**

--Mechanical Parameters--

Fs = 39.78 Hz

Qms = 7.09

Vas = 54.73 liters

Cms = 0.3 mm/N

Mms = 52.85 g

Rms = 1.881 kg/s

Xmax = 8.52 mm

Xmech = 15.7 mm

P-Dia = 213.6 mm

Sd = 358.4 sq.cm

P-Vd = 0.305 liters

--Electrical Parameters--

Qes = 0.259

Re = 3.78 ohms

Le = 0.62 mH

Z = 4 ohms

BL = 13.89 Tm

Pe = 550 watts

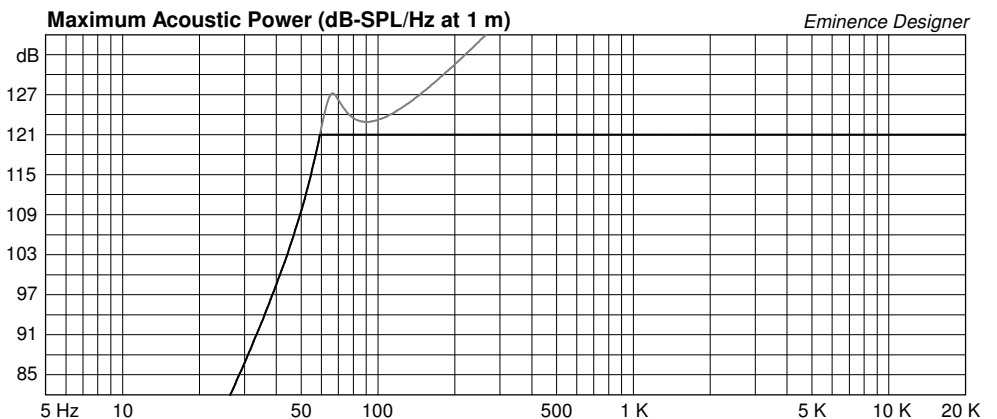
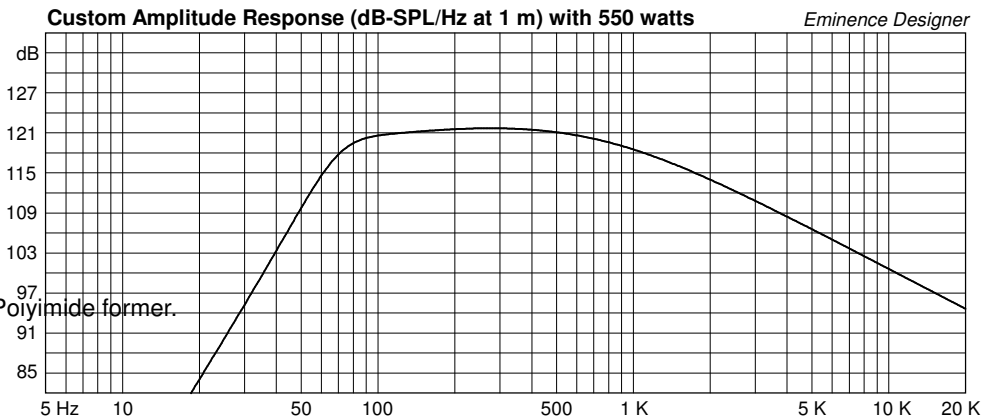
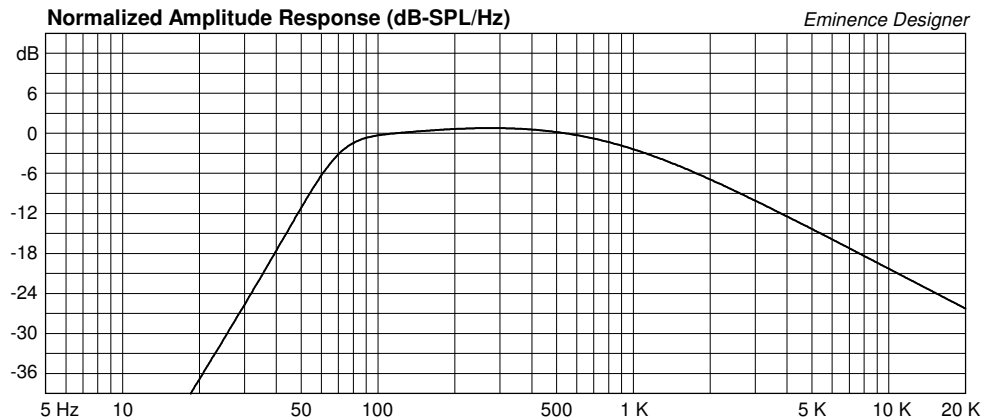
--Electromech. Parameters--

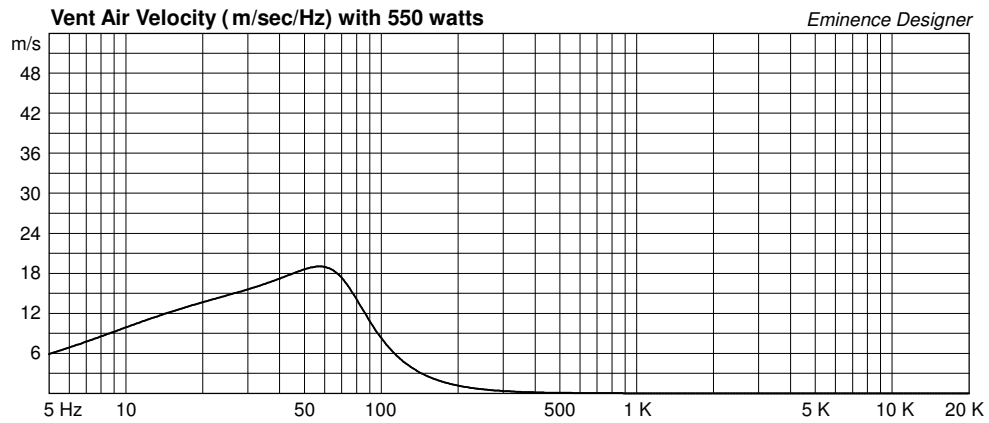
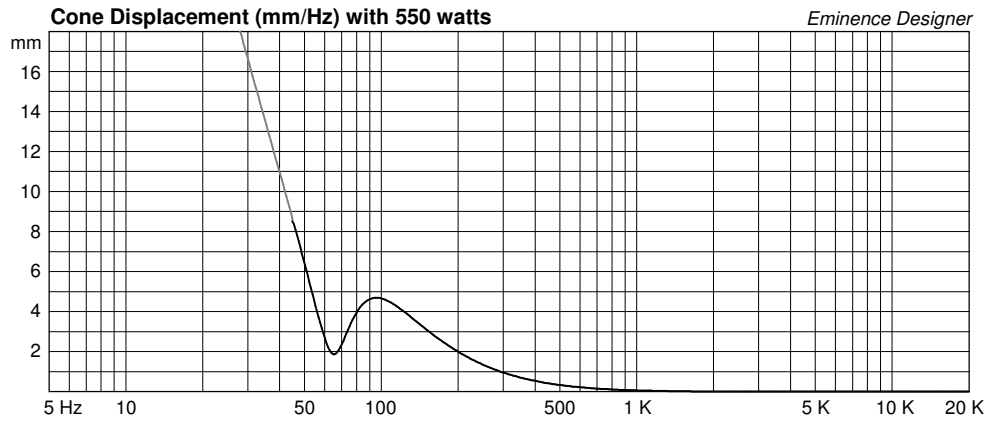
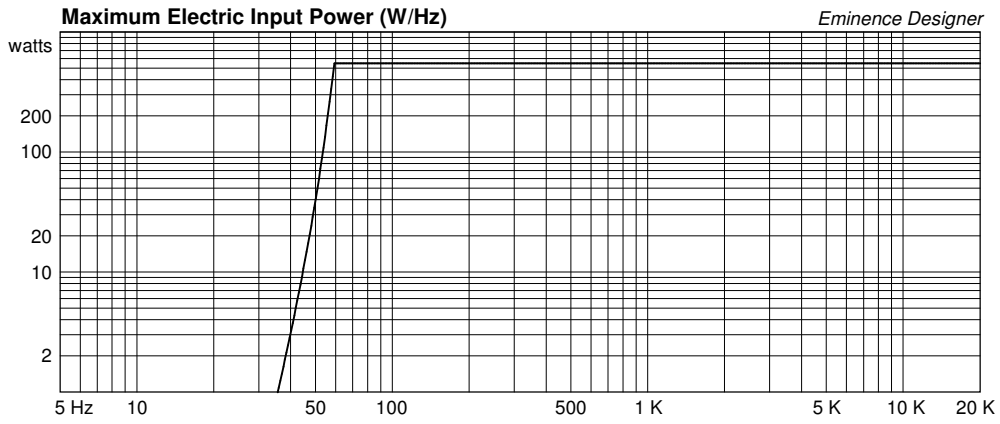
Qts = 0.25

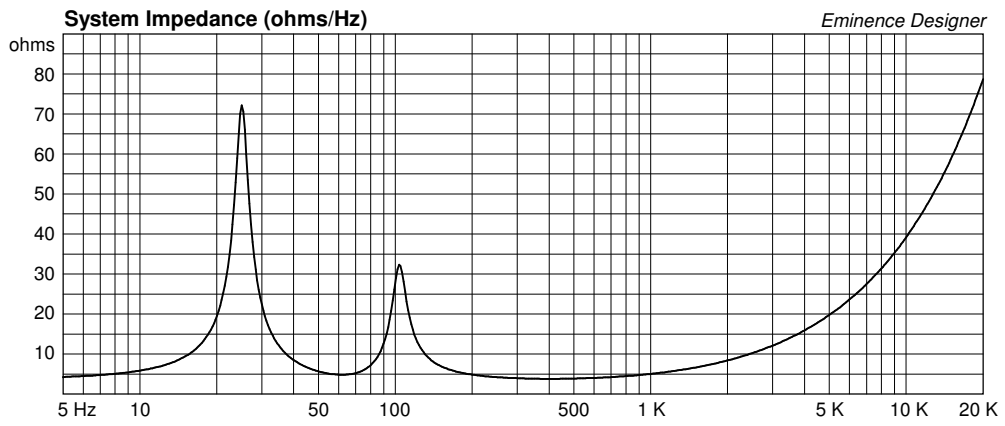
no = 1.282 %

1-W SPL = 91.6 dB

2.83-V SPL = 94.86 dB







# KappaLite 3010LF-4 Large Vented Box

By Matt Marcum, Eminence Speaker LLC

200 Watts Power Handling, F3 of 42Hz, High Pass Suggested at 38 Hz.

## Box Properties

--Description--

Name: Vented Box 1

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 2.969 cu.ft

V(total) = 3.072 cu.ft

Fb = 46 Hz

QL = 7

F3 = 42.1 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 6.457 in

## Driver Properties

--Description--

Name: KappaLite 3010LF

Type: Standard one-way driver

Company: Eminence Speaker LLC

Comment: Neodymium series

Piston: Treated paper cone.

Suspension: Sealed cloth surround.

Dust Cap: Treated paper dust cap.

Frame: Diecast aluminum basket.

Voice Coil: 3 inch (76.2 mm) copper coil. Polyimide former.

Magnet: 11 oz neodymium magnet.

Magnetic shielding

--Configuration--

**No. of Drivers = 1**

--Mechanical Parameters--

Fs = 39.78 Hz

Qms = 7.09

Vas = 54.73 liters

Cms = 0.3 mm/N

Mms = 52.85 g

Rms = 1.881 kg/s

Xmax = 8.52 mm

Xmech = 15.7 mm

P-Dia = 213.6 mm

Sd = 358.4 sq.cm

P-Vd = 0.305 liters

--Electrical Parameters--

Qes = 0.259

Re = 3.78 ohms

Le = 0.62 mH

Z = 4 ohms

BL = 13.89 Tm

Pe = 550 watts

--Electromech. Parameters--

Qts = 0.25

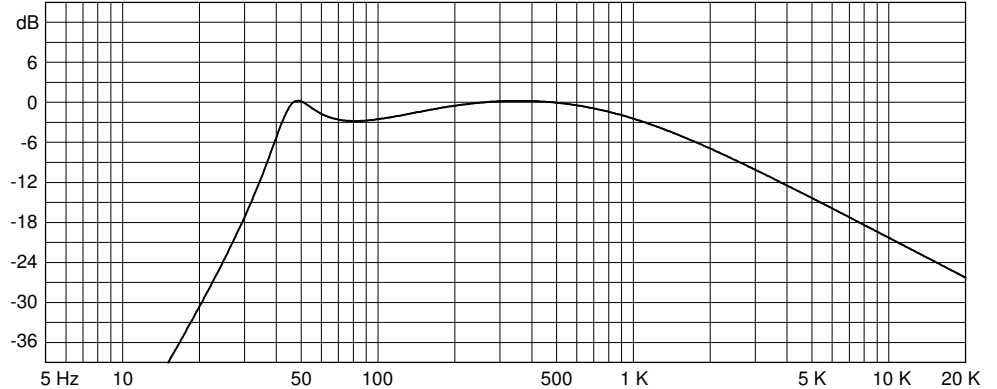
no = 1.282 %

1-W SPL = 91.6 dB

2.83-V SPL = 94.86 dB

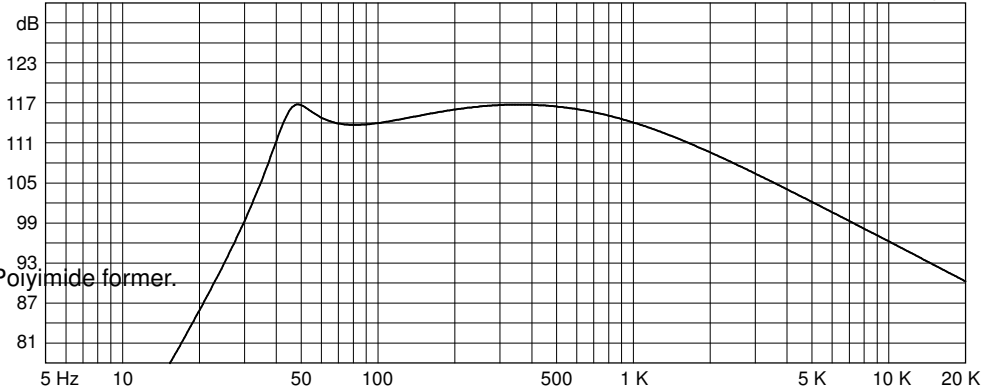
Normalized Amplitude Response (dB-SPL/Hz)

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

