

Custom Vented Box Design

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 60,55 liters

V(total) = 64,83 liters

Fb = 45,81 Hz

Fill = normal

--Vents--

No. of Vents = 2

Vent shape = round

Vent ends = one flared

Dv = 55,06 mm

Lv = 60, mm

Driver Properties

--Description--

Name: Kappa-15 A

Type: Standard one-way driver

Company: Eminence Speaker Corp.

Piston: Paper cone.

Suspension: Cloth surround.

Dust Cap: Solid composition paper dust cap.

Frame: Pressed steel basket.

Voice Coil: 3 in (76.2 mm) coated copper. Kapton former.

Magnet: 80 oz ferrite magnet.

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 33, Hz

Qms = 8,9

Vas = 321,3 liters

Xmax = 4, mm

Sd = 856,3 sq.cm

Qes = 0,33

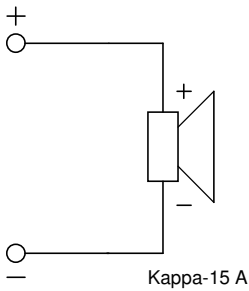
Re = 5,22 ohms

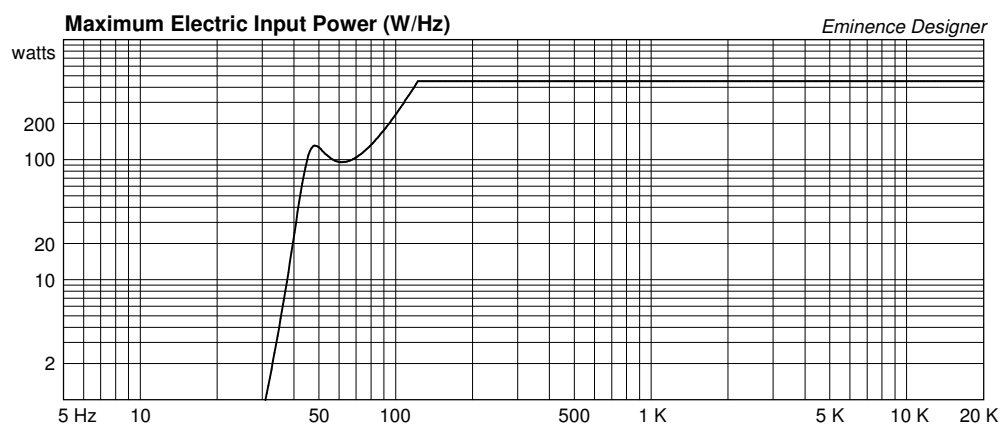
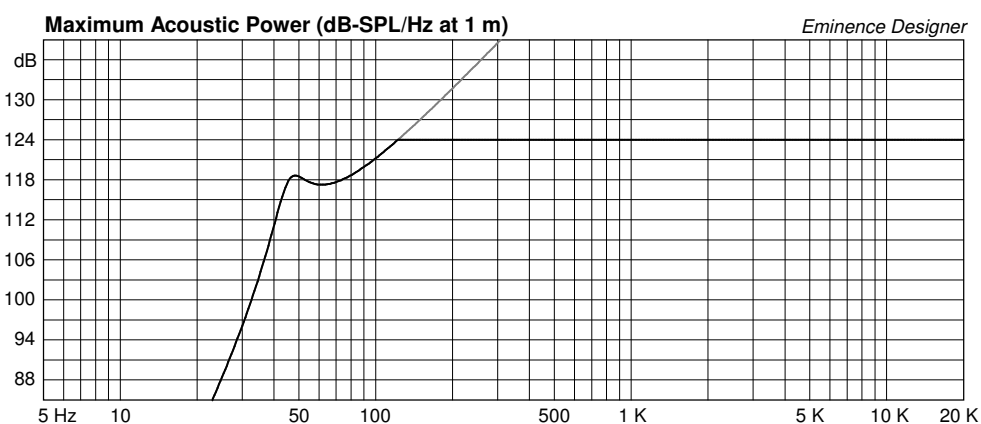
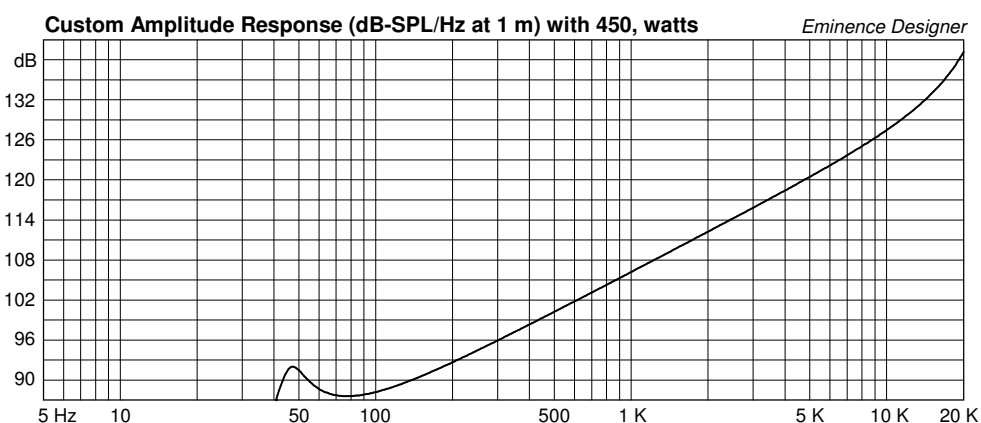
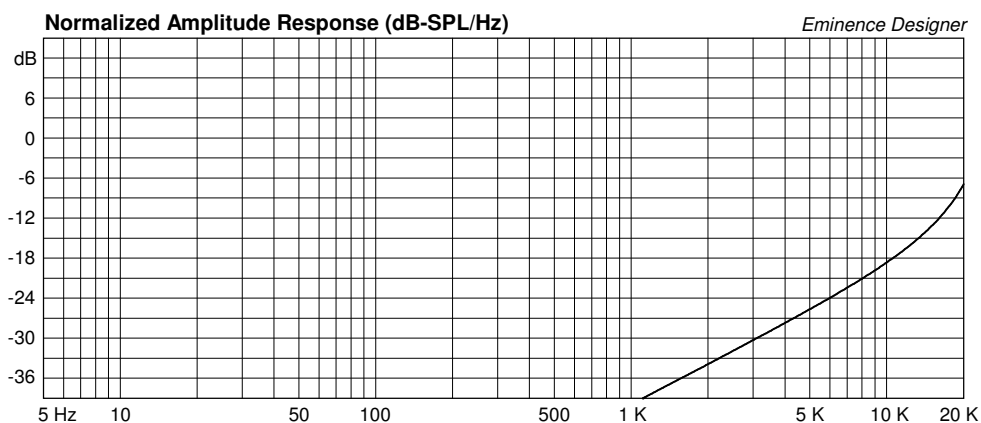
Le = 1,05 mH

Z = 8, ohms

Pe = 450, watts

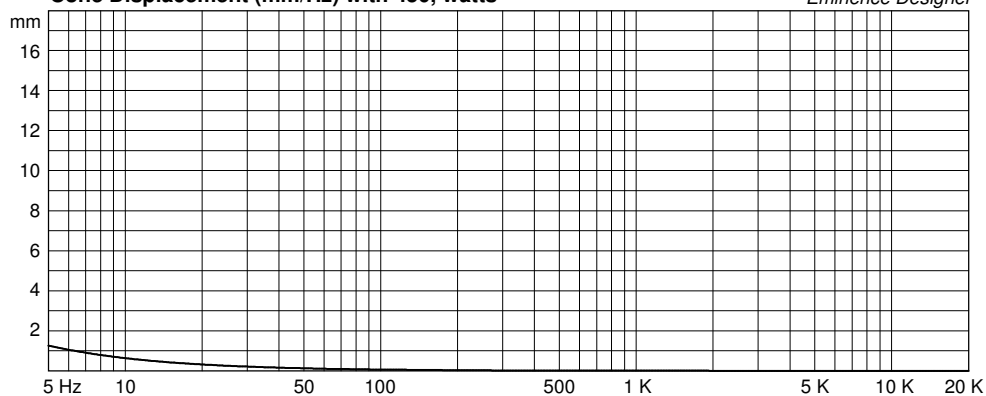
Wiring Diagram





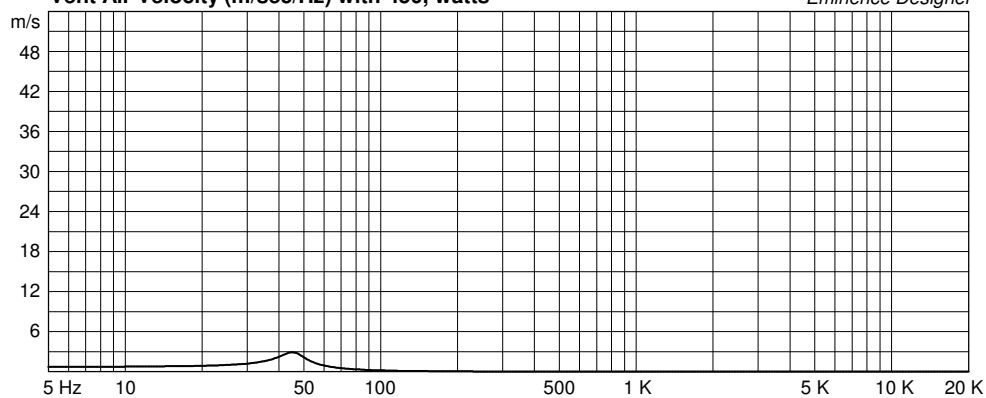
Cone Displacement (mm/Hz) with 450, watts

Eminence Designer



Vent Air Velocity (m/sec/Hz) with 450, watts

Eminence Designer



System Impedance (ohms/Hz)

Eminence Designer

