

Infinity Kappa 1200W - Vented HF

By Rick Sykora, Reasonable Technical Services

Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 3.603 cu.ft

V(total) = 3.824 cu.ft

Fb = 20.66 Hz

QL = 6.436

F3 = 27.59 Hz

Fill = minimal

--Vents--

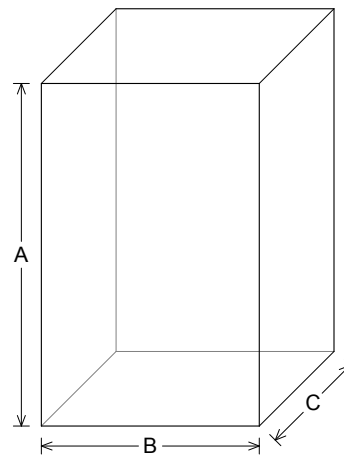
No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 3 in

Lv = 9.888 in



--External Dimensions--

A = 31.86 in

B = 20.27 in

C = 13.1 in

--Internal Dimensions--

A = 30.36 in

B = 18.77 in

C = 11.6 in

--Wall Thickness--

Front = 0.75 in

Side = 0.75 in

Driver Properties

--Description--

Name: Kappa 1200W

Type: Standard one-way driver

Company: Infinity Systems Inc.

--Configuration--

No. of Drivers = 1

Dual voice coils = series

--Mechanical Parameters--

Fs = 26.5 Hz

Qms = 4

Vas = 2.277 cu.ft

Cms = 0.161 mm/N

Mms = 7.901 oz

Xmax = 0.502 in

Xmech = 0.753 in

Sd = 82.29 sq.in

P-Vd = 0.0239 cu.ft

--Electrical Parameters--

Qes = 0.566

Re = 3.762 ohms

Le = 0.85 mH

Z = 4 ohms

BL = 3.538 lb/A

Pe = 2400 watts

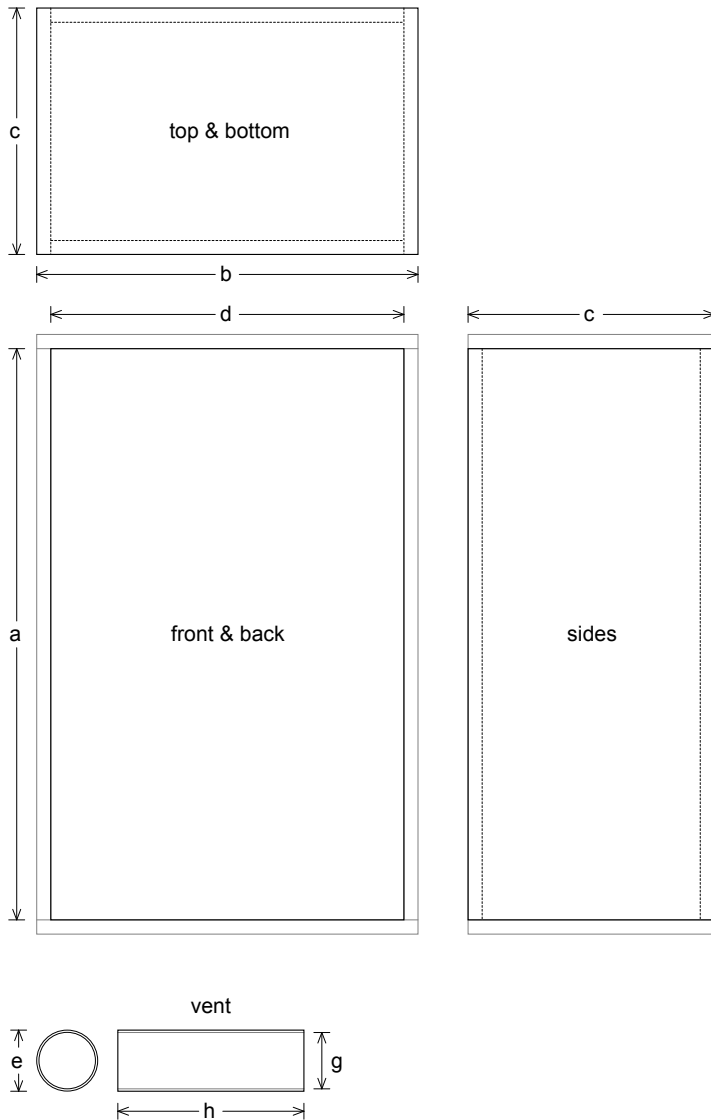
--Electromech. Parameters--

Qts = 0.496

no = 0.204 %

1-W SPL = 85.25 dB

2.83-V SPL = 91 dB



Box Parts

Box Shape: Optimum Square Prism

1 Top, 1 Bottom: depth (c) = 13.1 in
width (b) = 20.27, thickness = 0.75 in

1 Front, 1 Back: height (a) = 30.36 in
width (d) = 18.77, thickness = 0.75 in

2 Sides: height (a) = 30.36 in
depth (c) = 13.1, thickness = 0.75 in

--Driver Mounting--
Mounting: Flush

--Vent Parts--

1 Duct: outside diameter (e) = 3.25 in
inside diameter (g) = 3 in
length (h) = 9.888 in

Wiring Diagram

