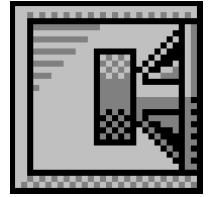


Custom Vented Box Design

By John, Microsoft



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 1.361 cu.ft

V(total) = 1.976 cu.ft

Fb = 33.07 Hz

F3 = 91.94 Hz

Fill = none

--Vents--

No. of Vents = 1

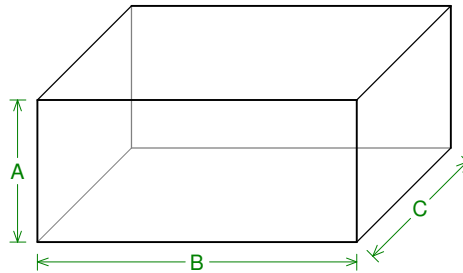
Vent shape = rectangle

Vent ends = one flush

Hv = 10.5 in

Wv = 1.875 in

Lv = 35.5 in



--External Dimensions--

A = 12 in

B = 27 in

C = 15 in

--Internal Dimensions--

A = 10.5 in

B = 25.5 in

C = 12.75 in

--Wall Thickness--

Front = 1.5 in

Side = 0.75 in

Driver Properties

--Description--

Name: Hutchinson NDFEB 10 w carbon

Type: Standard one-way driver

--Configuration--

No. of Drivers = 1

Dual voice coils = parallel

--Driver Parameters--

Fs = 47.8 Hz

Qms = 3.59

Vas = 13.89 liters

Xmax = 28 mm

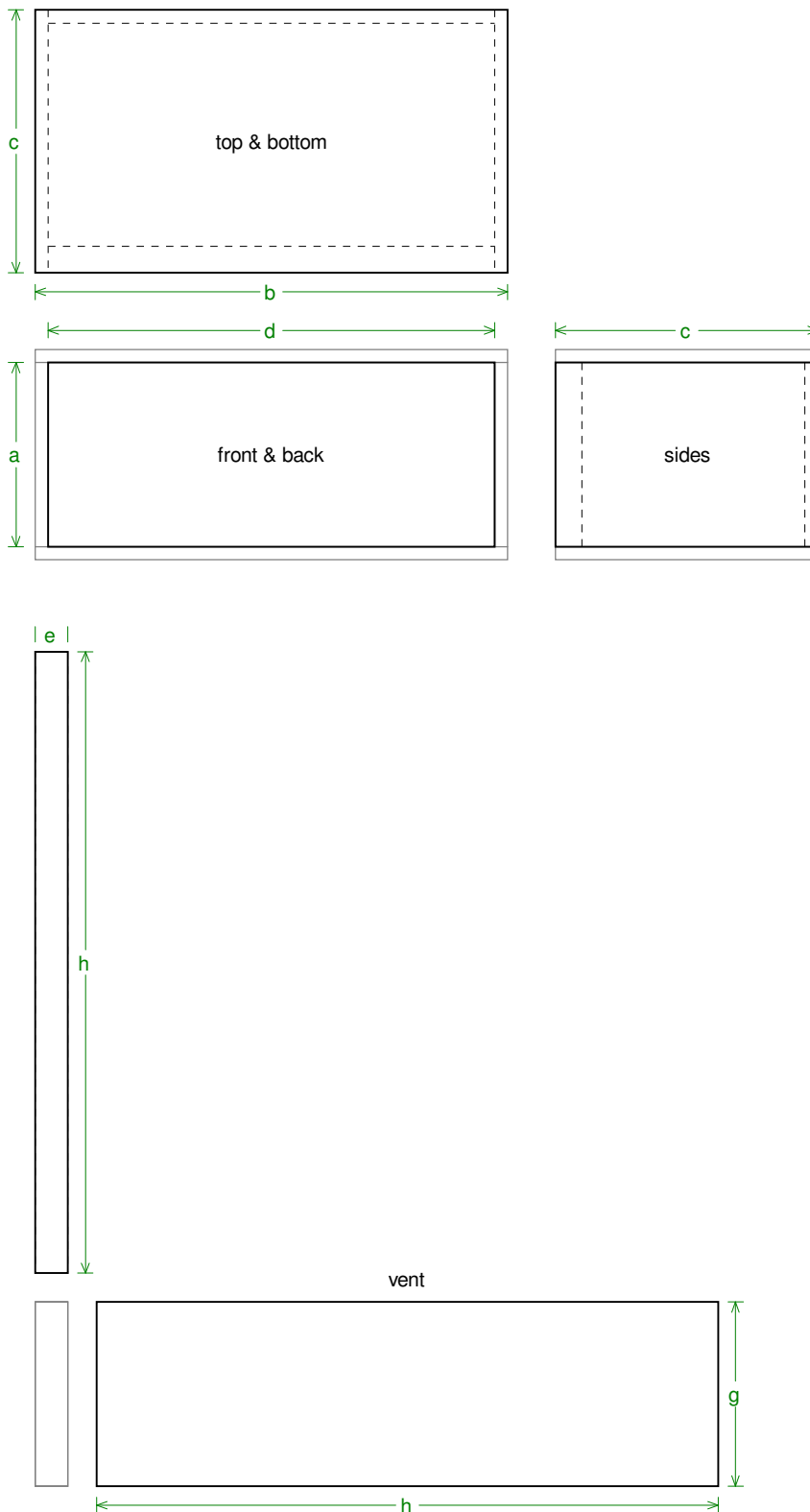
Sd = 388 sq.cm

Qes = 0.323

Re = 0.534 ohm

Le = 0.438 mH

Z = 0.641 ohm



Box Parts

Box Shape: Square Prism

1 Top, 1 Bottom: depth (c) = 15 in
width (b) = 27, thickness = 0.75 in

1 Front: height (a) = 10.5 in
width (d) = 25.5, thickness = 1.5 in

1 Back: height (a) = 10.5 in
width (d) = 25.5, thickness = 0.75 in

2 Sides: height (a) = 10.5 in
depth (c) = 15, thickness = 0.75 in

--Driver Mounting--
Mounting: Flush

--Vent Parts--

1 Top, 1 Bottom:
width (e) = 1.877, length (h) = 35.5 in
thickness = 0.001 in

2 Sides:
height (g) = 10.5, length (h) = 35.5 in
thickness = 0.001 in

--Misc Objects Inside or Part of Box--

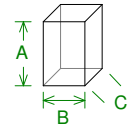
Object: Brace

No. of Objects: 2

Each Object: 0.0145 cu.ft

Total Volume: 0.0291 cu.ft (reduces box)

Shape: Square Prism

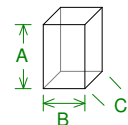
$$A = 6.375 \text{ in}$$
$$B = 0.75 \text{ in}$$
$$C = 5.25 \text{ in}$$


Object: Vent panel at end of box

No. of Objects: 1

Volume: 0.162 cu.ft (reduces box)

Shape: Square Prism

$$A = 35.5 \text{ in}$$
$$B = 10.5 \text{ in}$$
$$C = 0.75 \text{ in}$$


fractions														
1/16	1/8	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	11/16	3/4	13/16	7/8	15/16
0.0625	0.1250	0.1875	0.2500	0.3125	0.3750	0.4375	0.5000	0.5625	0.6250	0.6875	0.7500	0.8125	0.8750	0.9375
decimal equivalents														



Wiring Diagram

