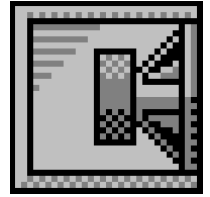


Custom Vented Box Design

By Poweraudio SRL, SC PowerAudio SRL



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Pyramid, truncated

--Box Parameters--

Vb = 87.58 liters

Fb = 47.21 Hz

F3 = 47.46 Hz

Fill = minimal

--Vents--

No. of Vents = 1

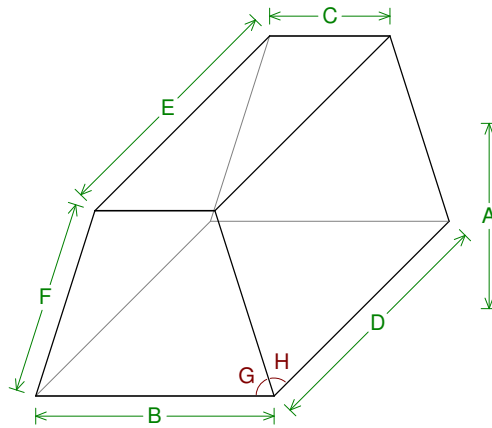
Vent shape = rectangle

Vent ends = one flush

Hv = 315 mm

Wv = 80 mm

Lv = 300 mm



--External Dimensions--

A = 404 mm

B = 520 mm

C = 262 mm

D = 770 mm

E = 770 mm

F = 408.1 mm

--Internal Dimensions--

A = 368 mm

B = 470.7 mm

C = 235.7 mm

D = 734 mm

E = 734 mm

F = 371.5 mm

--Wall Thickness--

Front = 18 mm

Side = 18 mm

--Corner Angles--

G = 71.56°

H = 90°

Driver Properties

--Description--

Name:

Type: Standard one-way driver

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 35 Hz

Qms = 10.4

Vas = 199 liters

Xmax = 9.25 mm

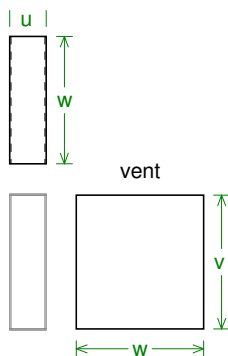
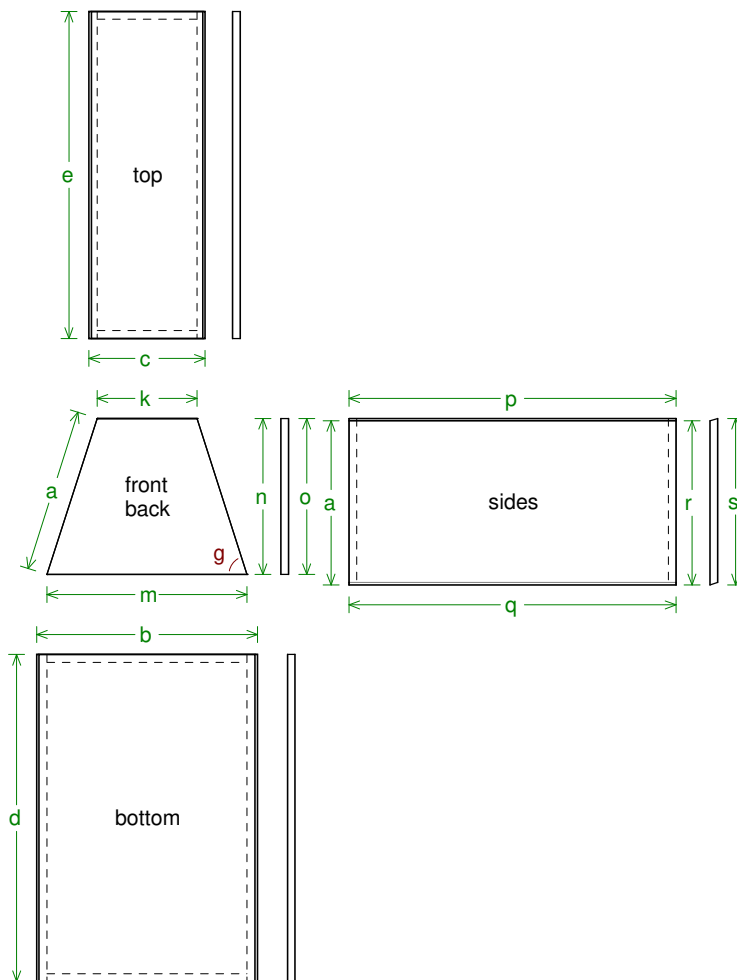
Sd = 847 sq.cm

Qes = 0.32

Re = 5.1 ohms

Z = 8 ohms

Pe = 500 watts



Box Parts

--Truncated Pyramid Box Parts--

- 1 Top: height (e) = 770 mm
width (c) = 273.5 mm
thickness = 18 mm
front/back cut angle = 0°
left/right edge cut angle = 17.71°
- 1 Front, 1 Back: side length (a) = 371.5 mm
top width (k) = 235.7 mm
bottom width (m) = 470.7 mm
surface height (n) = 368 mm
total height (o) = 368 mm
thickness = 18 mm
corner angle (g) = 71.56°
cut angles (top/bottom edge only) = $\pm 0^\circ$
- 2 Sides: side length (a) = 371.5 mm
top width (p) = 770 mm
bottom width (q) = 770 mm
surface height (r) = 386.3 mm
total height (s) = 392.1 mm
thickness = 18 mm
corner angle (h) = 90°
top/bottom cut angle = $\pm 17.71^\circ$
- 1 Bottom: height (d) = 770 mm
width (b) = 520 mm
thickness = 18 mm
front/back cut angle = 0°
left/right cut angle = 17.71°

--Vent Parts--

- 1 Top, 1 Bottom:
width (u) = 86.35, length (w) = 300 mm
thickness = 3.175 mm
- 2 Sides:
height (v) = 315, length (w) = 300 mm
thickness = 3.175 mm

--Driver Mounting-- Mounting:



Wiring Diagram

