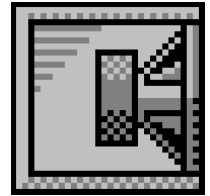


Custom Vented Box Design

By karsten, cad



Box Properties

--Description--

Name: 1x15 sub comparison

Type: Vented Box

Shape: Prism, square

Finish: black warnex

Veneer: 15mm birch ply

--Box Parameters--

Vb = 110,4 liters

V(total) = 114,9 liters

Fb = 54, Hz

F3 = 55,5 Hz

Fill = minimal

--Vents--

No. of Vents = 1

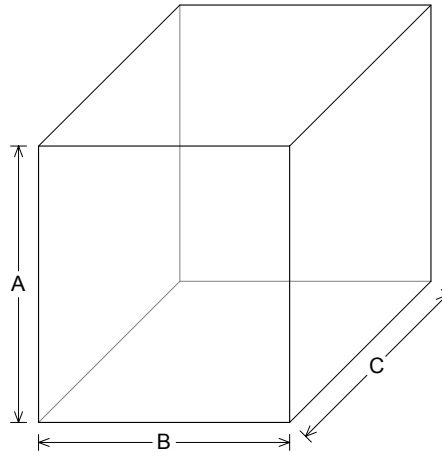
Vent shape = rectangle

Vent ends = one flush

Hv = 55, mm

Wv = 425, mm

Lv = 123,3 mm



--External Dimensions--

A = 550, mm

B = 500, mm

C = 530, mm

--Internal Dimensions--

A = 520, mm

B = 470, mm

C = 470, mm

--Wall Thickness--

Front = 45, mm

Side = 15, mm

Driver Properties

--Description--

Name: BX15-3075

Type: Standard one-way driver

Company: Celestion International Ltd.

Voice Coil: 3 in, copper on Kapton former

Magnet: 86 oz

--Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 35, Hz

Qms = 7,792

Vas = 243,5 liters

Xmax = 3,25 mm

Sd = 850, sq.cm

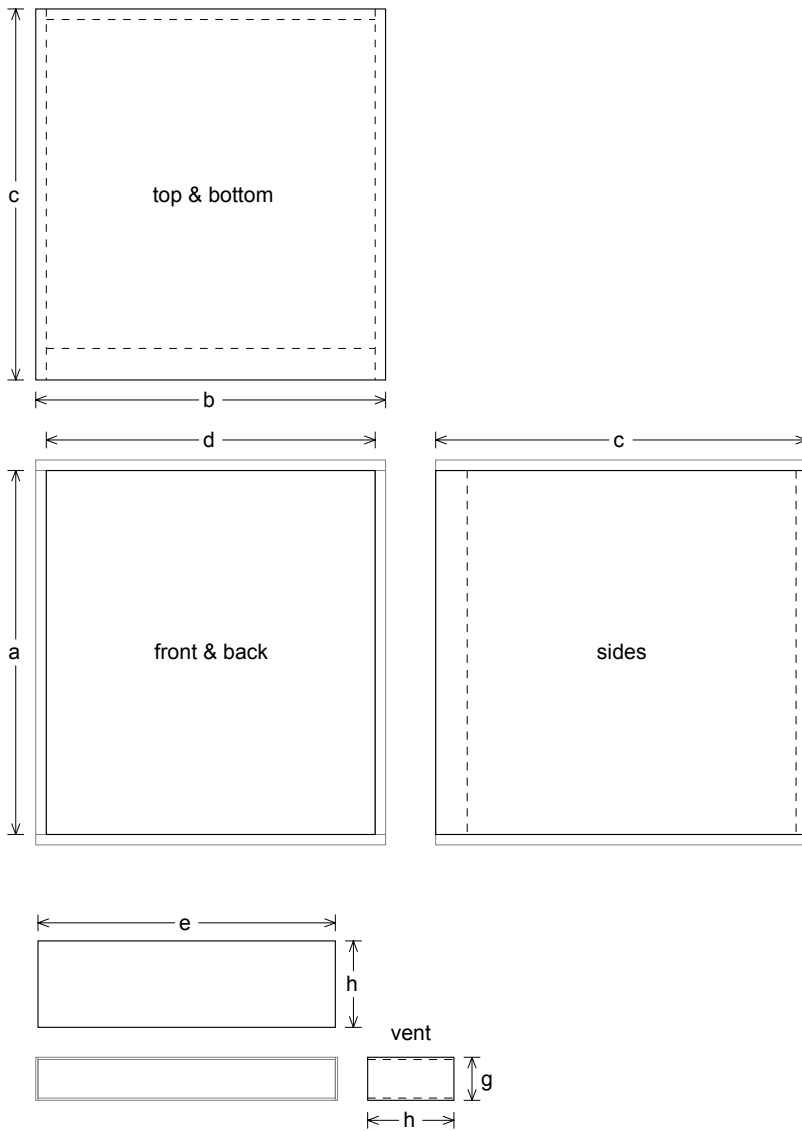
Qes = 0,189

Re = 5,44 ohms

Le = 1,03 mH

Z = 8, ohms

Pe = 300, watts



Box Parts

Box Shape: Square Prism

1 Top, 1 Bottom: depth (c) = 530, mm
width (b) = 500,, thickness = 15, mm

1 Front: height (a) = 520, mm

width (d) = 470,, thickness = 45, mm

1 Back: height (a) = 520, mm

width (d) = 470,, thickness = 15, mm

2 Sides: height (a) = 520, mm

depth (c) = 530,, thickness = 15, mm

--Driver Mounting--

Mounting: Flush

--Vent Parts--

1 Top, 1 Bottom:

width (e) = 425,, length (h) = 123,3 mm

thickness = 3,175 mm

2 Sides:

height (g) = 61,35, length (h) = 123,3 mm

thickness = 3,175 mm

