

Custom Vented Box Design

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Box Properties

--Description--

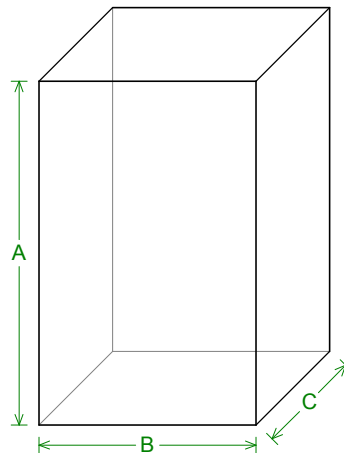
Name: Bass reflex
Type: Vented Box
Shape: Prism, square (optimum)
Company: Audio Sudamericana

--Box Parameters--

Vb = 120 liters
V(total) = 130.1 liters
Fb = 35 Hz
QL = 7
F3 = 39.81 Hz
Fill = normal

--Vents--

No. of Vents = 1
Vent shape = other
Vent ends = one flush
Av = 200 sq.cm
Lv = 265.6 mm



--External Dimensions--

A = 849.8 mm
B = 536.7 mm
C = 343.1 mm

--Internal Dimensions--

A = 819.8 mm
B = 506.7 mm
C = 313.1 mm

--Wall Thickness--

Front = 15 mm
Side = 15 mm

Driver Properties

--Description--

Name: AV 1560
Type: Standard one-way driver
Company: American Vox

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

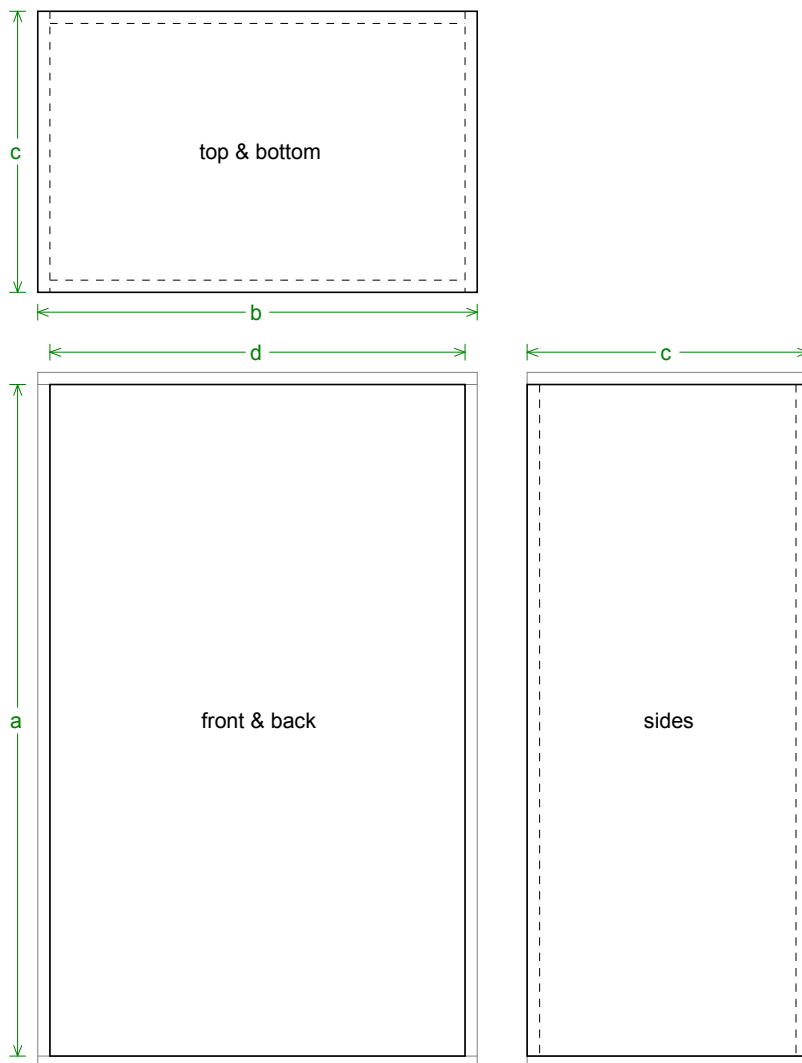
Fs = 31.97 Hz
Qms = 4.163
Vas = 230.7 liters
Cms = 0.209 mm/N
Mms = 118.6 g
Rms = 5.723 kg/s
Xmax = 6.26 mm
Xmech = 9.39 mm
P-Dia = 335 mm
Sd = 881.4 sq.cm
P-Vd = 0.552 liters

--Electrical Parameters--

Qes = 0.638
Re = 6 ohms
Le = 1.038 mH
Z = 7.2 ohms
BL = 14.97 Tm
Pe = 200 watts

--Electromech. Parameters--

Qts = 0.563
no = 1.138 %
1-W SPL = 92.71 dB
2.83-V SPL = 92.6 dB



Box Parts

Box Shape: Optimum Square Prism

1 Top, 1 Bottom: depth (c) = 343.1 mm
width (b) = 536.7, thickness = 15 mm

1 Front, 1 Back: height (a) = 819.8 mm
width (d) = 506.7, thickness = 15 mm

2 Sides: height (a) = 819.8 mm
depth (c) = 343.1, thickness = 15 mm

--Driver Mounting--
Mounting: Flush

Wiring Diagram

