

Custom Vented Box Design

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Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 1.915 cu.ft

V(total) = 2.164 cu.ft

Fb = 26.71 Hz

QL = 6.124

F3 = 28.65 Hz

Fill = heavy

--Vents--

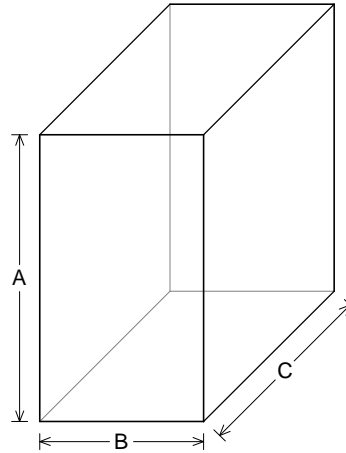
No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 4.192 in

Lv = 20.36 in



--External Dimensions--

A = 21 in

B = 12 in

C = 18 in

--Internal Dimensions--

A = 20 in

B = 11 in

C = 17 in

--Wall Thickness--

Front = 0.5 in

Side = 0.5 in

Driver Properties

--Description--

Name: 1020w

Type: Standard one-way driver

Company: Infinity Systems Inc.

Comment: Reference series

Suspension: Hi-roll rubber surround. Flat progressive spider.

Voice Coil: 2 inch (50.8 mm) diameter.

Magnet: Dual stacked magnets.

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 29.24 Hz

Qms = 8.87

Vas = 52.9 liters

Cms = 0.296 mm/N

Mms = 100.2 g

Xmax = 11.91 mm

Sd = 350 sq.cm

--Electrical Parameters--

Qes = 0.58

Re = 3.44 ohms

Le = 1.18 mH

Z = 4 ohms

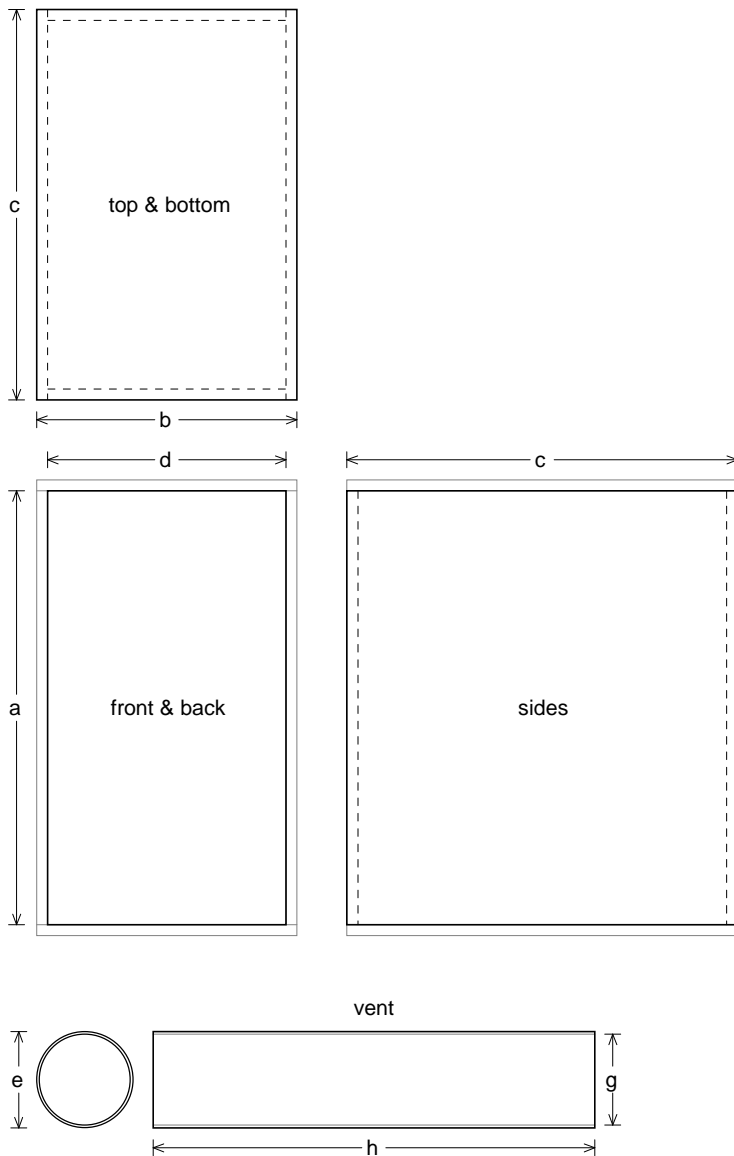
BL = 10.45 Tm

Pe = 250 watts

--Electromech. Parameters--

Qts = 0.54

2.83-V SPL = 90 dB

**Box Parts**

Box Shape: Square Prism

1 Top, 1 Bottom: depth (c) = 18 in
width (b) = 12, thickness = 0.5 in

1 Front, 1 Back: height (a) = 20 in
width (d) = 11, thickness = 0.5 in

2 Sides: height (a) = 20 in
depth (c) = 18, thickness = 0.5 in

--Driver Mounting--
Mounting: Front

--Vent Parts--

1 Duct: outside diameter (e) = 4.442 in
inside diameter (g) = 4.192 in
length (h) = 20.36 in

Wiring Diagram

