

# Custom Vented Box Design

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## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 0.637 cu.ft

V(total) = 0.743 cu.ft

Fb = 37.06 Hz

QL = 7

F3 = 35.7 Hz

Fill = minimal

--Vents--

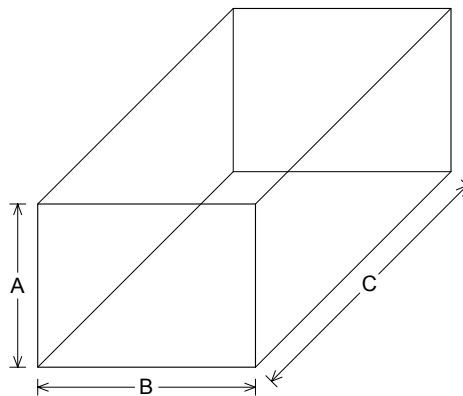
No. of Vents = 2

Vent shape = round

Vent ends = one flush

Dv = 2 in

Lv = 17.76 in



--External Dimensions--

A = 9 in

B = 12 in

C = 20.33 in

--Internal Dimensions--

A = 7 in

B = 10 in

C = 18.33 in

--Wall Thickness--

Front = 1 in

Side = 1 in

## Driver Properties

--Description--

Name: Apex Jr Super8

Type: Standard one-way driver

Company: Apex Jr

--Configuration--

**No. of Drivers = 1**

--Mechanical Parameters--

Fs = 47.74 Hz

Qms = 7.334

Vas = 0.376 cu.ft

Cms = 0.0271 in/lb

Mms = 2.533 oz

Rms = 6.476 lb/s

P-Dia = 6.589 in

Sd = 34.1 sq.in

--Electrical Parameters--

Qes = 0.552

Re = 2.653 ohms

Le = 0.157 mH

Z = 3 ohms

BL = 2.287 lb/A

Pe = 250 watts

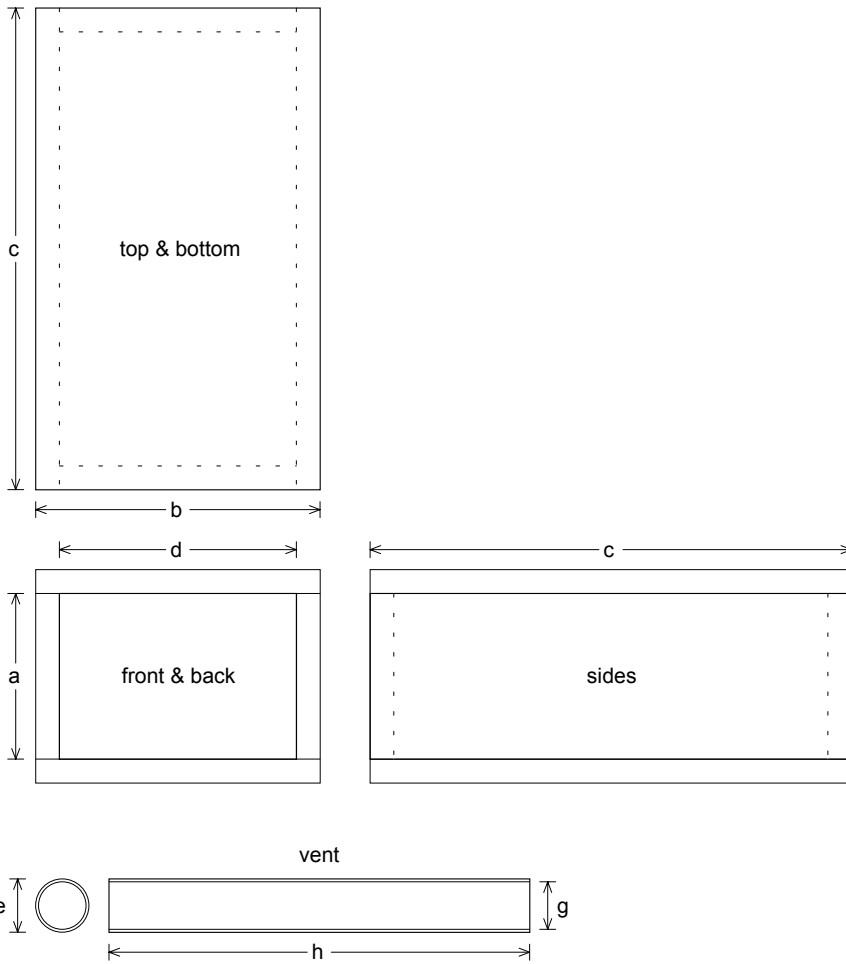
--Electromech. Parameters--

Qts = 0.514

no = 0.203 %

1-W SPL = 85.22 dB

2.83-V SPL = 90.01 dB



**Box Parts**

Box Shape: Square Prism

1 Top, 1 Bottom: depth (c) = 20.33 in  
width (b) = 12, thickness = 1 in

1 Front, 1 Back: height (a) = 7 in  
width (d) = 10, thickness = 1 in

2 Sides: height (a) = 7 in  
depth (c) = 20.33, thickness = 1 in

--Driver Mounting--  
Mounting: Flush

--Vent Parts--

2 Ducts: outside diameter (e) = 2.25 in  
inside diameter (g) = 2 in  
length (h) = 17.76 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

