

Apex Jr Super8

Spangler Precision Labs
PO Box 6633
Ventura, CA 93006-6633
(805) 218-3231



Box Properties

--Description--

Name:
Type: Bandpass Single-Tuned Box
Shape: Prism, Bandpass with two chambers

--Box Parameters--

Chamber 1 - lower-frequency

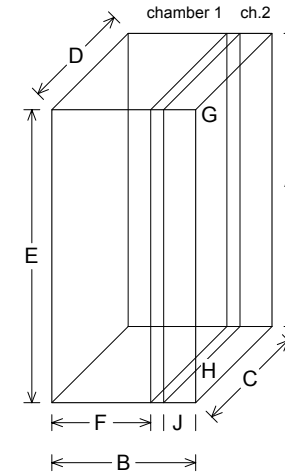
Vb = 0.643 cu.ft
V(total) = 0.697 cu.ft
Fb = 59.69 Hz
QL = 7
F3 = 30.12 Hz
Fill = minimal

Chamber 2 - upper-frequency

Vb = 0.147 cu.ft
V(total) = 0.153 cu.ft
Fb = 59.69 Hz
QL = 7
F3 = 119 Hz
Fill = minimal

--Vents--

No. of Vents = 4
Vent shape = round
Vent ends = one flush
Dv = 1 in
Lv = 15.43 in



--External Dimensions--

A = 22.41 in
B = 11 in
C = 11 in
D = 11 in
E = 22.41 in

--Internal Dimensions--

A = 20.41 in
C = 8.999 in
D = 8.999 in
E = 20.41 in
F = 6.557 in
J = 1.443 in

--Wall Thickness--

Outer Sides = 1 in
Inner Baffle = 1 in

--Angles--

G = 90°
H = 90°

Driver Properties

--Description--

Name: Apex Jr Super8
Type: Standard one-way driver
Company: Apex Jr

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

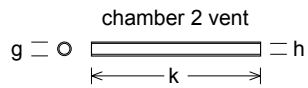
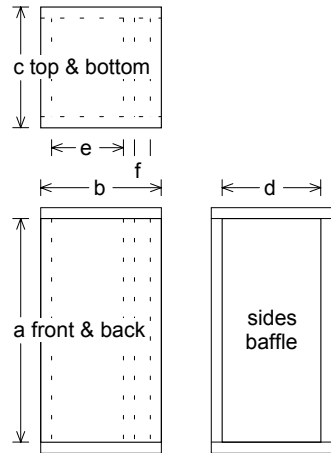
Fs = 47.74 Hz
Qms = 7.334
Vas = 0.376 cu.ft
Cms = 0.0271 in/lb
Mms = 2.533 oz
Rms = 6.476 lb/s
P-Dia = 6.589 in
Sd = 34.1 sq.in

--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: Bandpass Prism

- 1 Top, 1 Bottom: height (c) = 11 in
width (b) = 11, thickness = 1 in
- 1 Front, 1 Back: height (a) = 20.41 in
width (b) = 11, thickness = 1 in
- 3 Sides: height (a) = 20.41 in
width (d) = 8.999, thickness = 1 in
- Baffle Location: e = 6.557, f = 1.443 in

--Driver Mounting--

Mounting: Rear

Aim: Driver faces chamber 2

--Vent Parts--

- 4 Ducts: (chamber 2)
outside diameter (g) = 1.25 in
inside diameter (h) = 1 in
length (k) = 15.43 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

