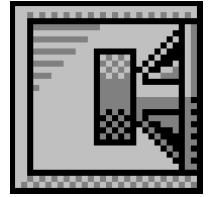


Custom Vented Box Design

By Dr F. Mark Carter, Walberswick Studios



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 10 cu.ft

V(total) = 15.05 cu.ft

Fb = 21.61 Hz

QL = 5.676

F3 = 21.52 Hz

Fill = minimal

--Vents--

No. of Vents = 2

Vent shape = rectangle

Vent ends = one flush

Hv = 15 in

Wv = 4 in

Lv = 64.54 in

Driver Properties

--Description--

Name: AV-15_X

Type: Standard one-way driver

Company: Lambda Acoustics Inc.

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 24 Hz

Qms = 4.1

Vas = 197 liters

Cms = 0.22 mm/N

Mms = 200 g

Rms = 7.4 kg/s

Xmax = 23 mm

Xmech = 34.5 mm

P-Dia = 318 mm

Sd = 794 sq.cm

P-Vd = 1.826 liters

--Electrical Parameters--

Qes = 0.39

Re = 3.2 ohms

Le = 0.196 mH

Z = 4 ohms

BL = 15.6 Tm

Pe = 1000 watts

--Electromech. Parameters--

Qts = 0.36

no = 0.673 %

1-W SPL = 90.4 dB

2.83-V SPL = 94.3 dB



Wiring Diagram

