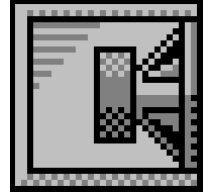


Custom Vented Box Design

By Dr F. Mark Carter, Walberswick Studios



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 1.244 cu.ft

V(total) = 1.534 cu.ft

Fb = 22.39 Hz

QL = 6.951

F3 = 25.7 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = rectangle

Vent ends = one flush

Hv = 2 in

Wv = 5 in

Lv = 42.1 in

Driver Properties

--Description--

Name: Kappa perfect 10 VQ

Type: Standard one-way driver

Company: Infinity systems inc

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 23.09 Hz

Qms = 9.67

Vas = 45.88 liters

Cms = 309.7 mm/N

Mms = 153.4 g

Rms = 0.0023 kg/s

Xmax = 16.75 mm

Xmech = 25.13 mm

P-Dia = 36.06 mm

Sd = 323 sq.cm

P-Vd = 2.04 liters

--Electrical Parameters--

Qes = 0.33

Re = 3.359 ohms

Le = 1.2 mH

Z = 4 ohms

BL = 15.05 Tm

Pe = 400 watts

--Electromech. Parameters--

Qts = 0.32

no = 0.165 %

1-W SPL = 84.32 dB

2.83-V SPL = 87 dB



Wiring Diagram

