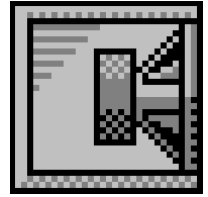


Custom Vented Box Design

By Dr F. Mark Carter, Walberswick Studios



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 2.389 cu.ft

V(total) = 2.87 cu.ft

Fb = 18.56 Hz

QL = 6.701

F3 = 18.87 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = rectangle

Vent ends = one flared

Hv = 2.5 in

Wv = 6 in

Lv = 48.09 in

Driver Properties

--Description--

Name: infinity Kappa perfect 10 VQ M

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 = 0.44

Re = 3.367 ohms

Le = 1.2 mH

Z = 4 ohms

BL = 13.05 Tm

Pe = 400 watts

--Electromech. Parameters--

Qts = 0.42

no = 0.124 %

1-W SPL = 83.07 dB

2.83-V SPL = 87 dB



Wiring Diagram

