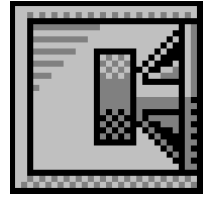


Custom Vented Box Design

By Dr F. Mark Carter, Walberswick Studios



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 1.642 cu.ft

V(total) = 1.642 cu.ft

Fb = 19.91 Hz

QL = 6.864

F3 = 21.67 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = rectangle

Vent ends = two flush

Hv = 2 in

Wv = 7.5 in

Lv = 60.98 in

Driver Properties

--Description--

Name: RSS315HF-4 12"

Type: Standard one-way driver

Company: Dayton Loudspeaker Co.

--Configuration--

No. of Drivers = 2

Mounting = Compound (isobaric)

Wiring = Parallel

Drivers sum coherently = Yes

--Mechanical Parameters--

Fs = 23 Hz

Qms = 3

Vas = 84.95 liters [42.48]

Cms = 0.114 mm/N [0.0568]

Mms = 421.7 g [843.5]

Rms = 20.32 kg/s [40.63]

Xmax = 14 mm

Xmech = 21 mm

P-Dia = 304 mm [304]

Sd = 725.8 sq.cm [725.8]

P-Vd = 1.016 liters [1.016]

--Electrical Parameters--

Qes = 0.52

Re = 3.3 ohms [1.65]

Le = 0.95 mH [0.475]

Z = 4 ohms [2]

BL = 19.67 Tm

Pe = 400 watts [800]

--Electromech. Parameters--

Qts = 0.44

no = 0.192 % [0.0958]

1-W SPL = 84.97 dB [81.96]

2.83-V SPL = 89 dB [89]



Wiring Diagram

