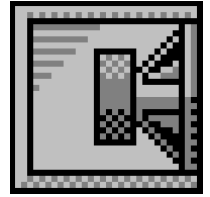


Custom Vented Box Design

By Mark, Walberswick Studios



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square

--Box Parameters--

Vb = 1.109 cu.ft

V(total) = 1.393 cu.ft

Fb = 30.35 Hz

QL = 6.98

F3 = 34.78 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = rectangle

Vent ends = one flush

Hv = 2 in

Wv = 7 in

Lv = 35.33 in

Driver Properties

--Description--

Name: Dayton Audio LS10-44 10

Type: Standard one-way driver

Company: Dayton Loudspeaker Co.

--Configuration--

No. of Drivers = 4

Mounting = Compound (isobaric), Push-pull

Wiring = Parallel

Drivers sum coherently = Yes

--Mechanical Parameters--

Fs = 34.3 Hz

Qms = 5.14

Vas = 31 liters [31]

Cms = 0.16 mm/N [0.04]

Mms = 131.7 g [526.8]

Rms = 5.642 kg/s [22.57]

Xmax = 10 mm

Xmech = 15 mm

P-Dia = 216.9 mm [306.7]

Sd = 366.4 sq.cm [732.8]

P-Vd = 0.369 liters [0.739]

--Electrical Parameters--

Qes = 0.47

Re = 7.4 ohms [1.85]

Le = 5.2 mH [1.3]

Z = 8 ohms [2]

BL = 21.1 Tm [21.14]

Pe = 250 watts [1000]

--Electromech. Parameters--

Qts = 0.43

no = 0.257 % [0.257]

1-W SPL = 86.24 dB [86.24]

2.83-V SPL = 85 dB [91.02]



Wiring Diagram

