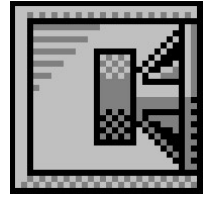


Custom Vented Box Design

By Mark Carter, Walberswick Studios



Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 5 cu.ft

V(total) = 5.271 cu.ft

Fb = 19.2 Hz

QL = 6.222

F3 = 22.16 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = round

Vent ends = one flush

Dv = 4 in

Lv = 15.11 in

Driver Properties

--Description--

Name: 295-402 (Titanic MkII 1202)

Type: Standard one-way driver

Company: Dayton Loudspeaker Co.

Comment: Titanic MkII series

Piston: Polymer coated, Kevlar reinforced paper cone.

Suspension: Santoprene rubber surround.

Frame: Aerodynamic cast aluminum frame.

Voice Coil: 2-inch diameter voice coil. Kapton former.

Magnet: 108 oz magnet. Rubber magnet cover.

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 19.75 Hz

Qms = 8.92

Vas = 178.1 liters

Xmax = 17 mm

Xmech = 25.5 mm

--Electrical Parameters--

Qes = 0.41

Re = 3.22 ohms

Le = 1.88 mH

Z = 4 ohms

Pe = 350 watts

--Electromech. Parameters--

Qts = 0.39

no = 0.323 %

1-W SPL = 87.23 dB

2.83-V SPL = 91.2 dB



Wiring Diagram

