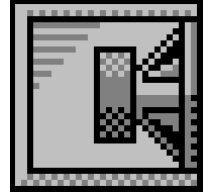


# Custom Vented Box Design

By Dr F. Mark Carter, Walberswick Studios



## Box Properties

--Description--

Name:

Type: Vented Box

Shape: Prism, square (optimum)

--Box Parameters--

Vb = 8.933 cu.ft

V(total) = 9.838 cu.ft

Fb = 16.29 Hz

QL = 5.274

F3 = 19.13 Hz

Fill = minimal

--Vents--

No. of Vents = 1

Vent shape = rectangle

Vent ends = two flared

Hv = 3 in

Wv = 10 in

Lv = 31.88 in

## Driver Properties

--Description--

Name: RSS390HF-4 15"

Type: Standard one-way driver

Company: Dayton Loudspeaker Co.

--Configuration--

**No. of Drivers = 1**

--Mechanical Parameters--

Fs = 18 Hz

Qms = 3.1

Vas = 270.3 liters

Cms = 0.168 mm/N

Mms = 466.2 g

Rms = 17.01 kg/s

Xmax = 14 mm

Xmech = 21 mm

P-Dia = 368.3 mm

Sd = 1065 sq.cm

P-Vd = 1.491 liters

--Electrical Parameters--

Qes = 0.49

Re = 3.3 ohms

Le = 1 mH

Z = 4 ohms

BL = 18.84 Tm

Pe = 500 watts

--Electromech. Parameters--

Qts = 0.42

no = 0.31 %

1-W SPL = 87.06 dB

2.83-V SPL = 90 dB



### Wiring Diagram

