

Custom Vented Box Design

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Box Properties

--Description--

Name: Dave's Sub

Type: Vented Box

Shape: Prism, square (optimum)

Company: Hooligan

--Box Parameters--

Vb = 9 cu.ft

Fb = 20 Hz

QL = 5

F3 = 18.85 Hz

Fill = minimal

--Vents--

No. of Vents = 3

Vent shape = round

Vent ends = one flush

Dv = 101.6 mm

Lv = 611.9 mm

Driver Properties

--Description--

Name: RSS390HF-4

Type: Standard woofer

Company: Dayton

--Configuration--

No. of Drivers = 1

--Mechanical Parameters--

Fs = 18 Hz

Qms = 3.1

Vas = 281.8 liters

Cms = 0.28 mm/N

Mms = 282.6 g

Rms = 10.19 kg/s

Xmax = 14 mm

Xmech = 21 mm

P-Dia = 327.4 mm

Sd = 829.6 sq.cm

P-Vd = 0.0416 cu.ft

--Electrical Parameters--

Qes = 0.49

Re = 3.3 ohms

Le = 1 mH

Z = 4 ohms

BL = 14.67 Tm

Pe = 500 watts

--Electromech. Parameters--

Qts = 0.42

1-W SPL = 87 dB

2.83-V SPL = 90.85 dB

fractions

1/16	1/8	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	11/16	3/4	13/16	7/8	15/16
0.0625	0.1250	0.1875	0.2500	0.3125	0.3750	0.4375	0.5000	0.5625	0.6250	0.6875	0.7500	0.8125	0.8750	0.9375

decimal equivalents

File: Dave's Sub.bb6