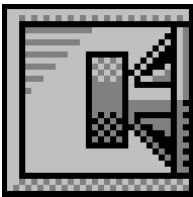


Custom Vented Box w/ Active High-Pass Filter

By S3, S3



Box Properties

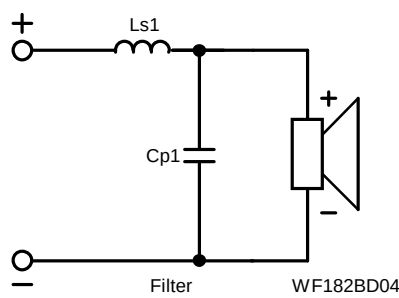
--Description--
Name:
Type: Vented Box w/ Active HP Filter
Shape: Prism, square (optimum)
--Box Parameters--
Vb = 38 liters
Fb = 30 Hz
QL = 12
Fill = minimal
--Vents--
No. of Vents = 0
Vent shape =
Vent ends =
--Active 12 dB/oct. HP Filter--
Fx = 15.15 Hz
Qx = 1

Driver Properties

--Description--
Name: WF182BD04
Type: Standard one-way driver
Company: Wavecor
--Configuration--
No. of Drivers = 1
--Mechanical Parameters--
Fs = 34 Hz
Qms = 10
Vas = 33.39 liters
Cms = 1.37 mm/N
Mms = 16 g
Rms = 0.342 kg/s
Xmax = 5.5 mm
Xmech = 8.25 mm
P-Dia = 129.1 mm
Sd = 131 sq.cm
P-Vd = 0.072 liters
--Electrical Parameters--
Qes = 0.29
Re = 6.3 ohms
Le = 0.2 mH
Z = 8 ohms
BL = 8.6 Tm [0]
Pe = 80 watts
--Electromech. Parameters--
Qts = 0.28 [0]
no = 0.436 %
1-W SPL = 88.41 dB
2.83-V SPL = 89.45 dB



Wiring Diagram



External Circuit Components

Cp1 = 47 μ F (ESR: 0.1 ohms)
Ls1 = 2.3 mH (DCR: 4 ohms)

