

Low-Frequency Enclosure Design

by Solen Inc.

Loudspeaker Parameters

--General Information--

Company: Volt Loudspeakers

Model: BM220.808

Note/SN:

--Mechanical Parameters--

F_s = 32.0 hertz

Q_{ms} = 3.100

V_{as} = 1.695 cu.ft

C_{ms} =

M_{ms} = 0.882 oz

R_{ms} =

X_{max} = 0.157 in

S_d = 35.2 sq.in

D_{ia} = 7.5 in

--Electrical Parameters--

Q_{es} = 0.340

R_e = 5.0 ohms

L_e = 0.9 mH

Z = 8.0 ohms

BL = 8.9 N/A

P_e = 150.0 watts

--Combination Parameters--

Q_{ts} = 0.310

η_o = 0.238%

$Sens$ = 88.00 dB (2.83 V)

--Multiple Drivers--

Number = 1

Single

Wiring: single

NetZ =

NetRe =

NetSens =

Single Driver

Custom Vented Box Parameters

V_b = 1.112 cu.ft

F_b = 38.6 hertz

F_3 = 37.8 hertz

QL = 7.0

Fill = normal

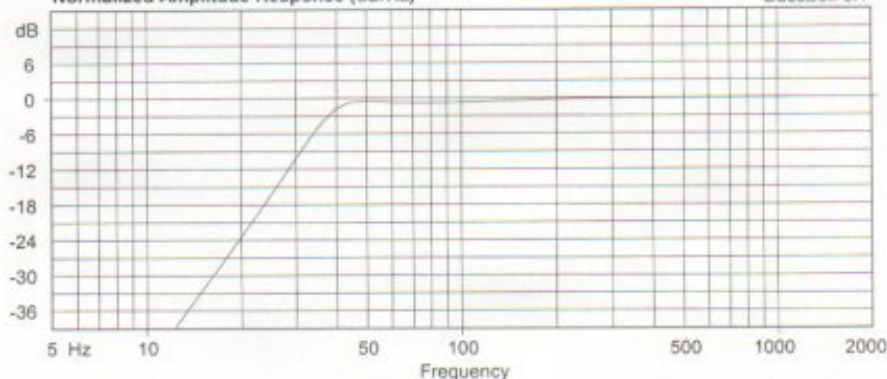
Ports = 1 (round)

D_v = 3.00 in

L_v = 8.50 in

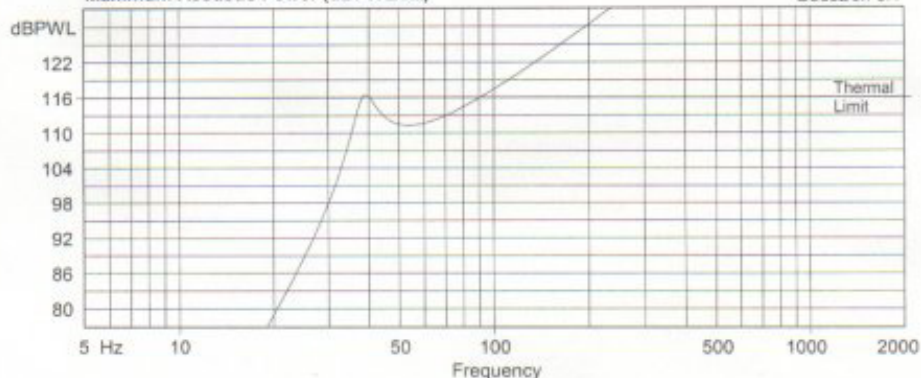
Normalized Amplitude Response (dB/Hz)

BassBox 5.1



Maximum Acoustic Power (dB/PWL/Hz)

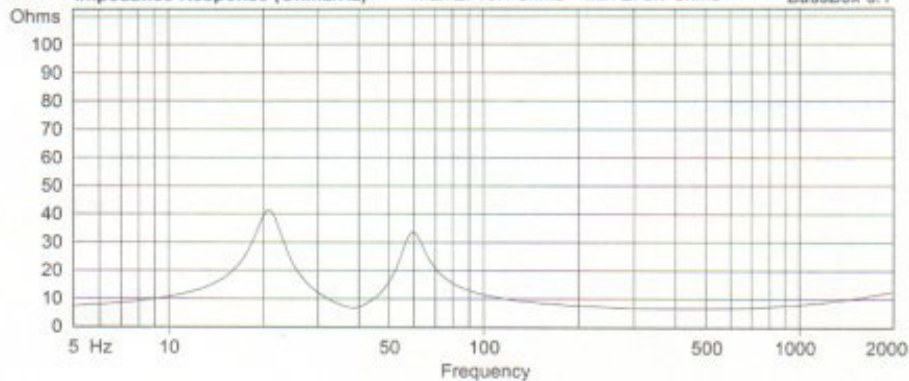
BassBox 5.1



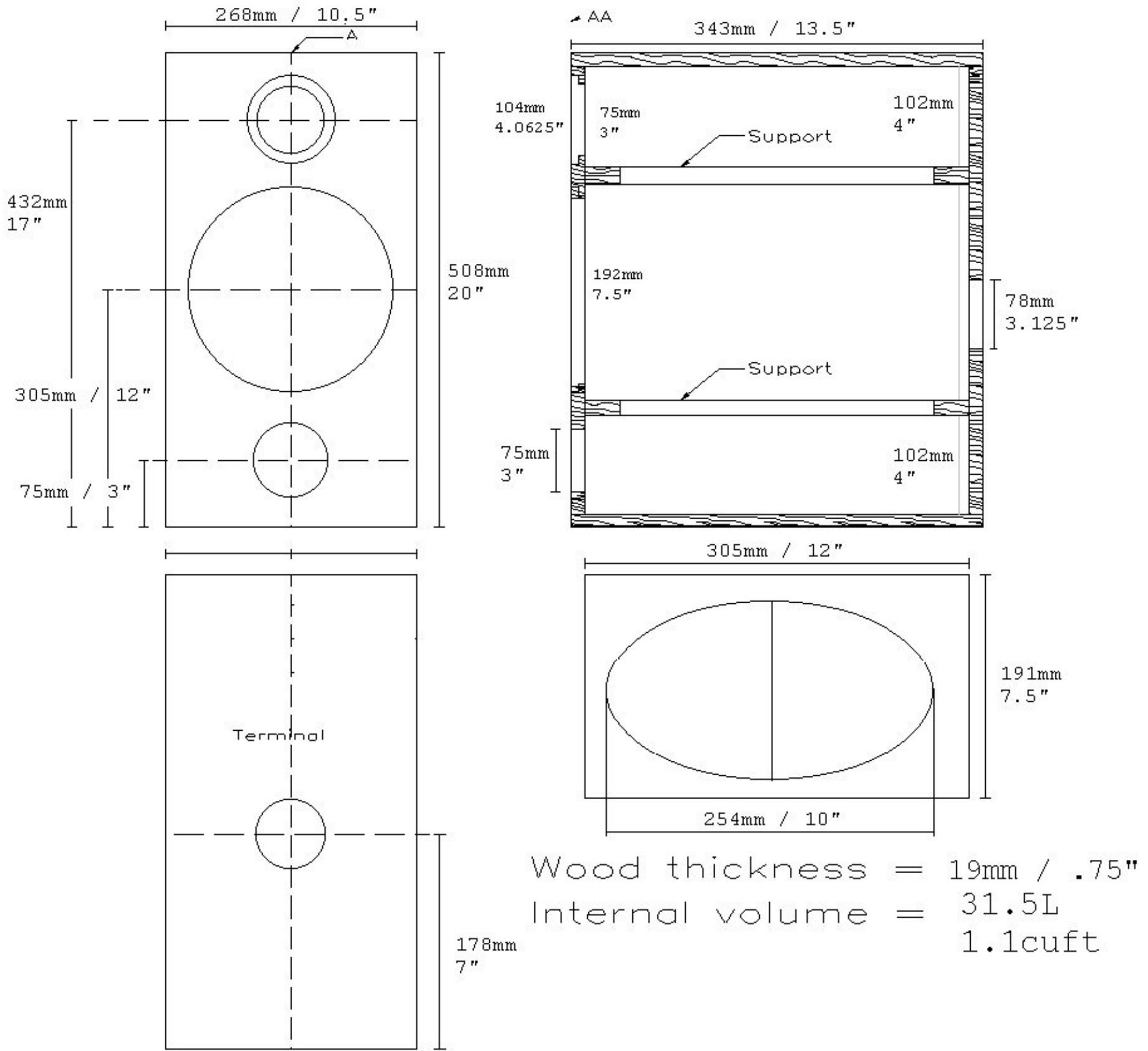
Impedance Response (Ohms/Hz)

Max Z: 40.1 ohms Min Z: 6.7 ohms

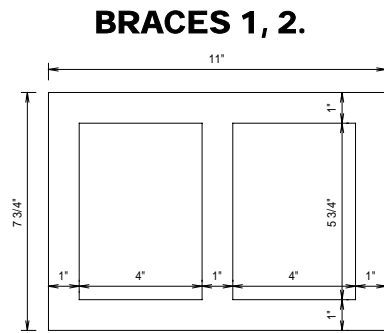
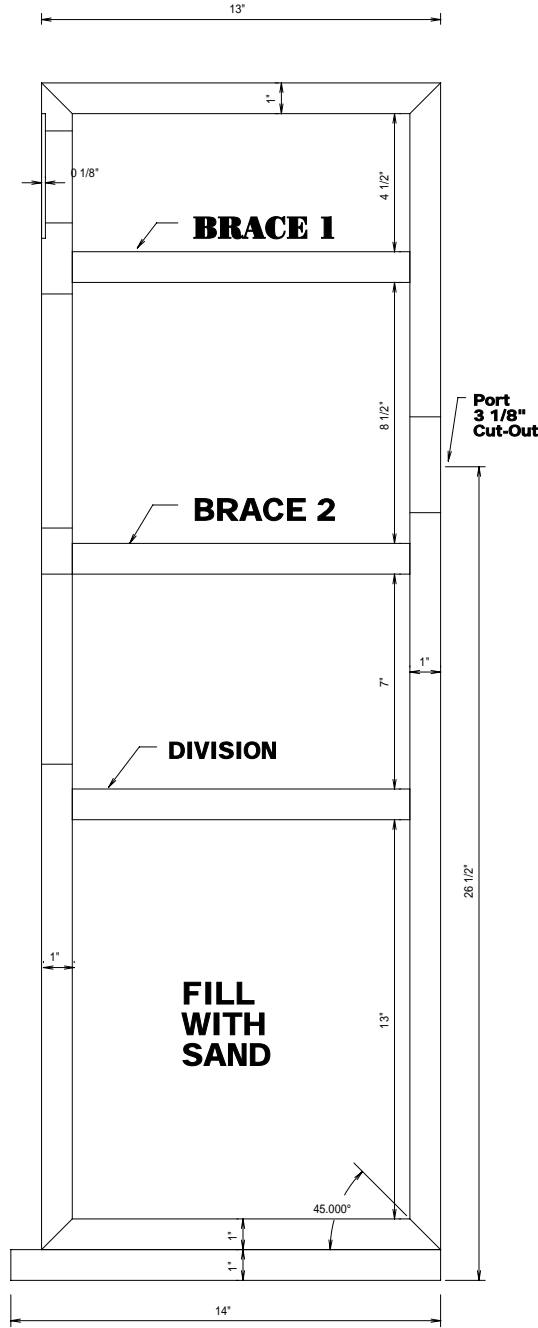
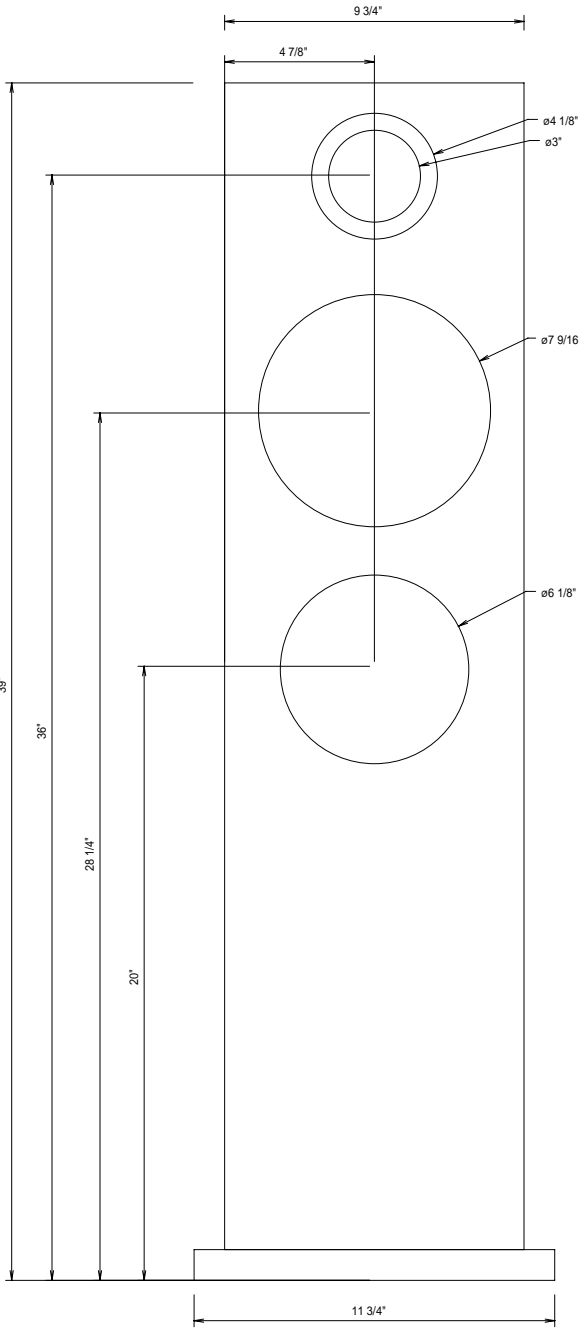
BassBox 5.1



Volt HSM mk2



VOLT HSM mk2fs



Wood Thickness = 1"
Internal Volume = 1.1cuft