

Passive Crossover Design

by Solen Inc.

Tweeter: VIFA D27TG4506

Number = 1
Z = 6.0 ohms
Sens = 91.0 dB (2.83 V)
Re =
Le =
Box = None
Fs =
Qms =
Qes =

2-Way Crossover Network

2nd-order Linkwitz-Riley
Frequency: 2400 Hz
C1 = 5.53 μ F
C2 = 8.29 μ F
L1 = 0.80 mH
L2 = 0.53 mH

Tweeter 3.00 dB L-Pad

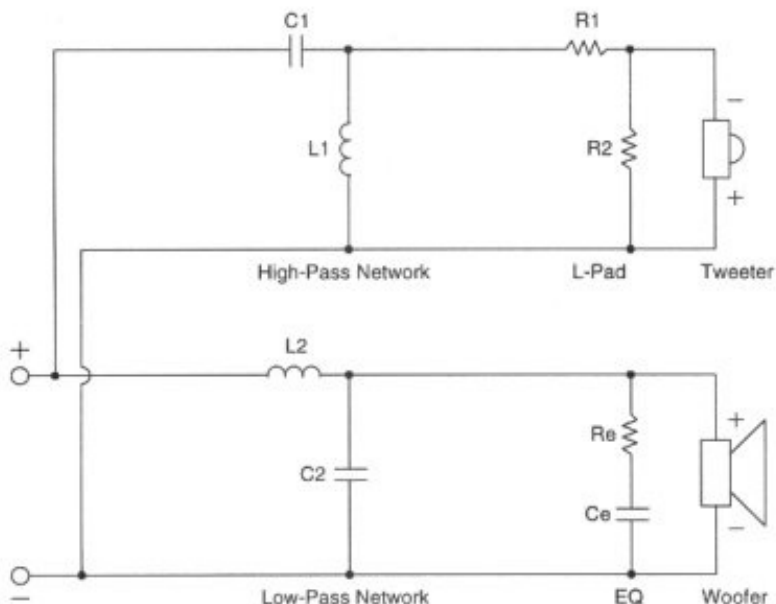
R1 = 1.75 ohms
R2 = 14.54 ohms

Woofer Impedance EQ

Re = 3.10 ohms
Ce = 32.26 μ F

Woofer: VIFA PL14WJ0004

Number = 1
Z = 4.0 ohms
Sens = 88.0 dB (2.83 V)
Re = 3.1 ohms
Le = 0.31 mH
Box = None (Ignore Res. Peaks)
Qms =
Qes =



Low-Frequency Enclosure Design

by Solen Inc.

Loudspeaker Parameters

--General Information--

Company: Vifa

Model: PL14WJ0004

Note/SN:

--Mechanical Parameters--

Fs = 43.0 hertz

Qms = 1.800

Vas = 14.00 liters

Cms =

Mms =

Rms =

Xmax = 3.000 mm

Sd =

Dia =

--Electrical Parameters--

Qes = 0.360

Re = 3.1 ohms

Le = 0.3 mH

Z = 4.0 ohms

BL =

Pe = 50.0 watts

--Combination Parameters--

Qts = 0.300

η_0 = 0.147%

Sens = 88.00 dB (2.83 V)

--Multiple Drivers--

Number = 1

Single

Wiring: single

NetZ =

NetRe =

NetSens =

Box Parameters

Custom Vented Box

Vb = 11.00 liters

Fb = 44.0 hertz

F3 = 47.1 hertz

QL = 7.0

Fill = normal

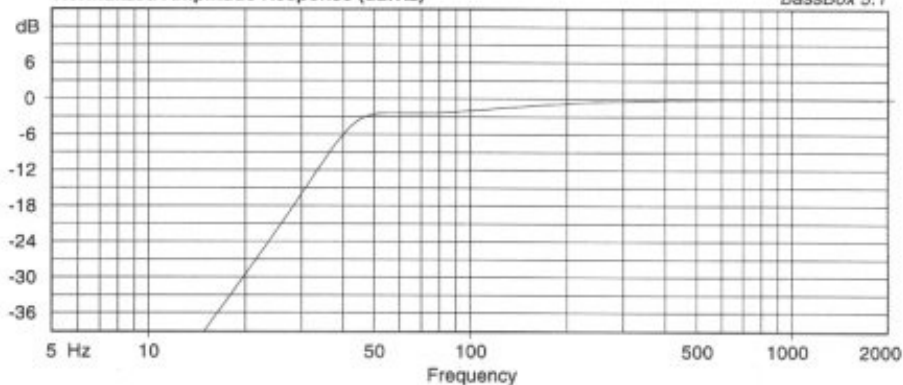
Ports = 1 (round)

Dv = 3.80 cm

Lv = 12.23 cm

Normalized Amplitude Response (dB/Hz)

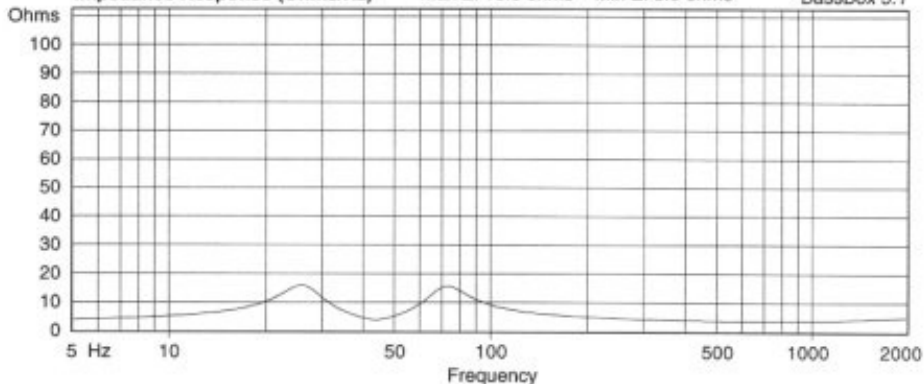
BassBox 5.1



Impedance Response (Ohms/Hz)

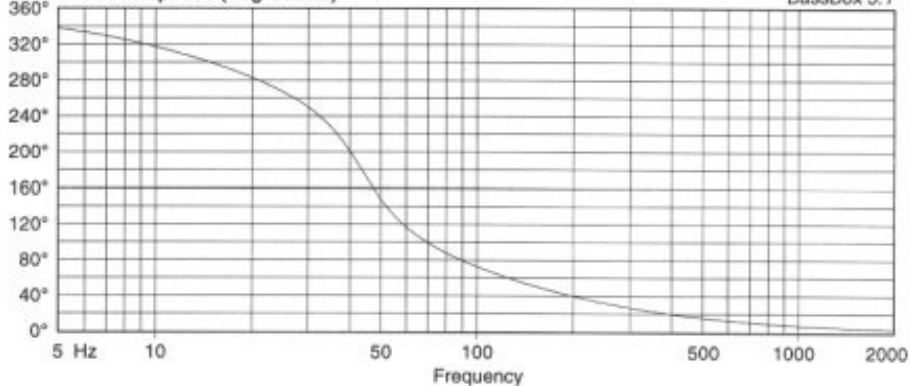
Max Z: 15.6 ohms Min Z: 3.9 ohms

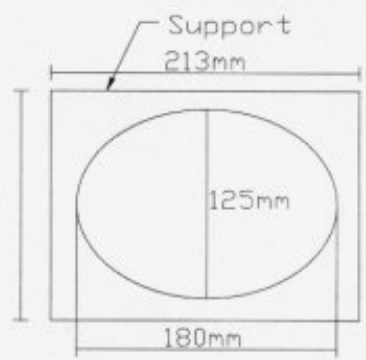
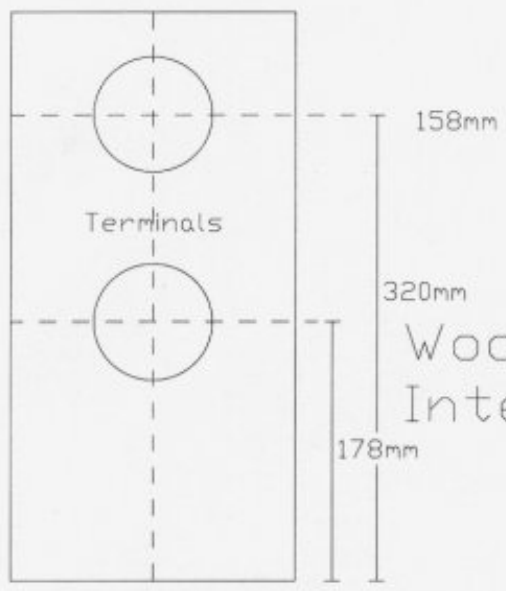
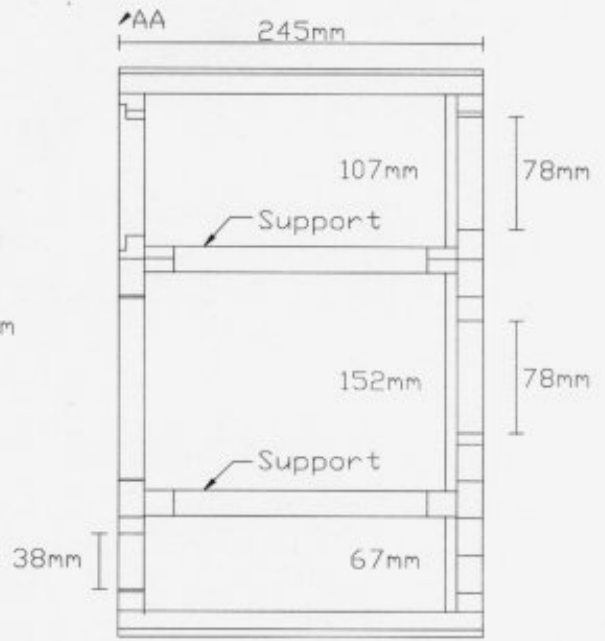
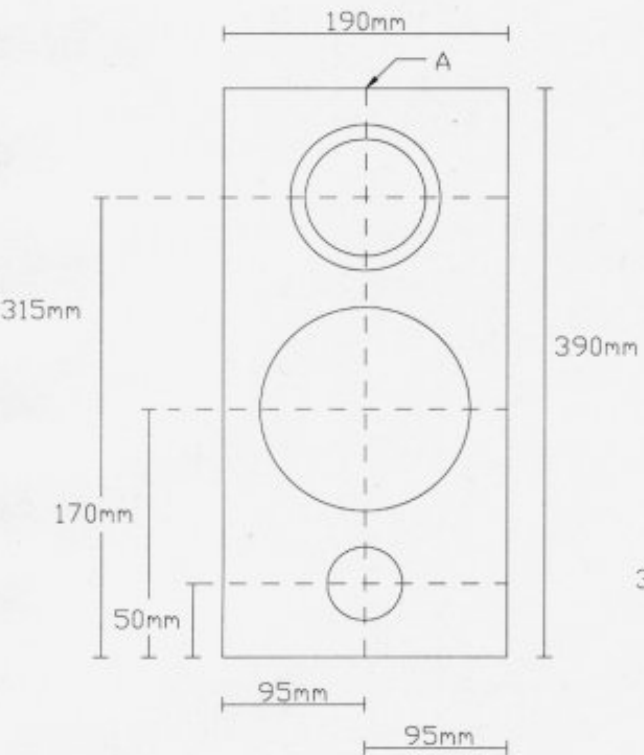
BassBox 5.1



Phase Response (Degrees/Hz)

BassBox 5.1





Wood thickness = 16mm

Internal volume = 11L