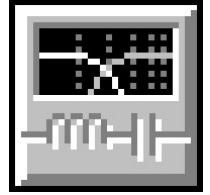


Custom Two-Way Crossover Network Design

By Mark Carter, Walberswick Studios



2-Way Crossover Network

Low-Pass (LP) Filter: 1 required

Type: 3rd-Order Butterworth

Desired Corner Frequency: 1750 Hz

High-Pass (HP) Filter: 1 required

Type: 2nd-Order Linkwitz-Riley

Desired Corner Frequency: 1500 Hz

C1 = 20 μ F, Polypropylene, 0.0036 ohms

C2 = 40 μ F, Polypropylene, 0.00269 ohms

L1 = 0.2 mH, Air Core (#16), 0.273 ohms

L2 = 0.4 mH, Air Core (#16), 0.296 ohms

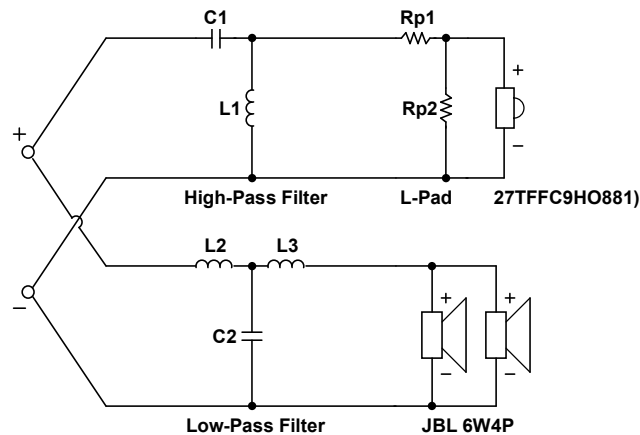
L3 = 0.13 mH, Air Core (#16), 0.265 ohms

Tweeter

11.38 dB L-Pad

Rp1 = 5 ohms

Rp2 = 3 ohms



Tweeter Properties

--Driver Description--

Name: 27TFFC9HO881)

Type: Standard one-way driver

Company: SEAS

--Driver Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 550 Hz

Re = 4.8 ohms

Le = 0.05 mH

Z = 6 ohms

2.83-V SPL = 91 dB

Woofer Properties

--Driver Description--

Name: JBL 6W4P

Type: Standard one-way driver

Company: JBL

--Driver Configuration--

No. of Drivers = 2

Mounting = Standard

Wiring = Parallel

--Driver Parameters--

Fs = 76 Hz

Qms = 6.7

Vas = 8 liters [16]

Sd = 238 sq.cm [476]

Qes = 95

Re = 5.9 ohms [2.95]

Le = 0.569 mH [0.285]

Z = 8 ohms [4]

2.83-V SPL = 91 dB [97.02]



Graph Key: — LP — HP — Net

