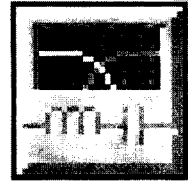


Custom Three-Way Crossover Network Design

By Solen, Solen Inc.



3-Way Crossover Network

Low-Pass (LP) Filter: 1 required

Type: 1st-Order Solen Split -6 dB

Desired Corner Frequency: 330 Hz

Band-Pass (BP) Filter: 1 required

Type: 2nd-Order Constant-Power (CPC)

Desired Lower Corner Freq: 270 Hz

Desired Upper Corner Freq: 2200 Hz

High-Pass (HP) Filter: 1 required

Type: 2nd-Order Constant-Power (CPC)

Desired Corner Frequency: 3500 Hz

C1 = 4.7 μ F, Polypropylene, 0.00693 ohms

C2 = 68 μ F, Polypropylene, 0.00183 ohms

C3 = 6.8 μ F, Polypropylene, 0.00616 ohms

L1 = 0.33 mH, Air Core (#20), 0.297 ohms

L2 = 5.6 mH, Air Core (#16), 0.762 ohms

L3 = 0.68 mH, Air Core (#16), 0.228 ohms

L4 = 2.2 mH, Air Core (#14), 0.33 ohms

Band-pass Gain = 1.122 dB

R = 5.6 ohms

Woofers

Impedance EQ

Req = 1 ohms

Ce = 330 μ F

