Custom Three-Way Crossover Network Design

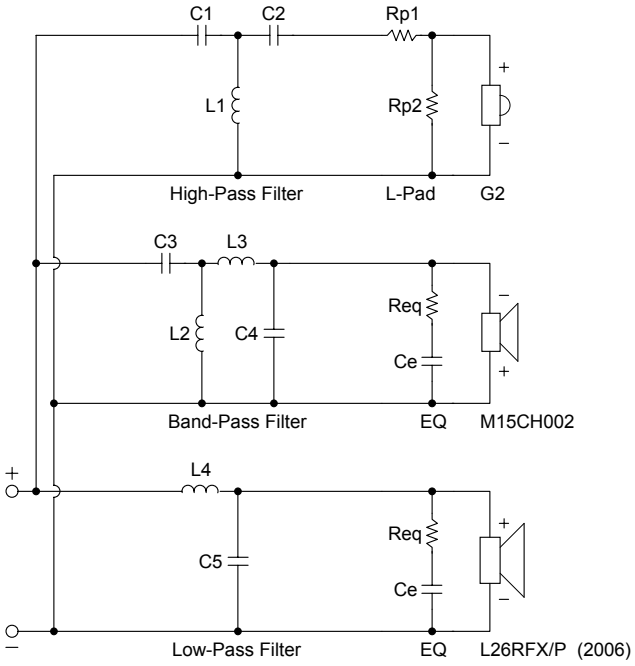
Meniscus Audio Group Inc.

3-Way Crossover Network
Low-Pass (LP) Filter: 1 required
  Type: 2nd-Order All-Pass (APC)
  Desired Corner Frequency: 350 Hz
Band-Pass (BP) Filter: 1 required
  Type: 2nd-Order All-Pass (APC)
  Desired Lower Corner Freq: 350 Hz
  Desired Upper Corner Freq: 3000 Hz
High-Pass (HP) Filter: 1 required
  Type: 3rd-Order All-Pass (APC)
  Desired Corner Frequency: 3000 Hz
C1 = 3.3 µF, Polypropylene, 0.00755 ohms
C2 = 9.1 µF, Polypropylene, 0.00535 ohms
C3 = 68 µF, Electrolytic, 0.0857 ohms
C4 = 4.7 µF, Polypropylene, 0.0071 ohms
C5 = 33 µF, Electrolytic, 0.196 ohms
L1 = 0.45 mH, Air Core (#20), 0.447 ohms
L2 = 4.5 mH, Laminate I Core (#18), 0.3 ohms
L3 = 0.45 mH, Air Core (#18), 0.297 ohms
L4 = 6 mH, Laminate I Core (#18), 0.39 ohms
Band-pass Gain = 2.33 dB

Tweeter
9.78 dB L-Pad
Rp1 = 8.2 ohms
Rp2 = 10 ohms

Midrange
Impedance EQ
Req = 5 ohms
Ce = 22 µF

Woofer
Impedance EQ
Req = 6.2 ohms
Ce = 22 µF



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