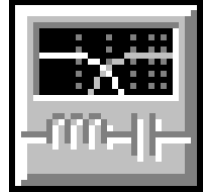


# Custom Two-Way Crossover Network Design

By Chris, Solen Inc.



## 2-Way Crossover Network

Low-Pass (LP) Filter: 1 required

Type: 2nd-Order Linkwitz-Riley

Desired Corner Frequency: 2000 Hz

High-Pass (HP) Filter: 1 required

Type: 2nd-Order Linkwitz-Riley

Desired Corner Frequency: 2000 Hz

C1 = 5.6  $\mu$ F, Polypropylene, 0.00698 ohms

C2 = 13  $\mu$ F, Polypropylene, 0.00461 ohms

L1 = 1.3 mH, Air Core (#18), 0.539 ohms

L2 = 0.47 mH, Litz (#16), 0.304 ohms

## Tweeter

4.11 dB L-Pad

Rp1 = 3 ohms

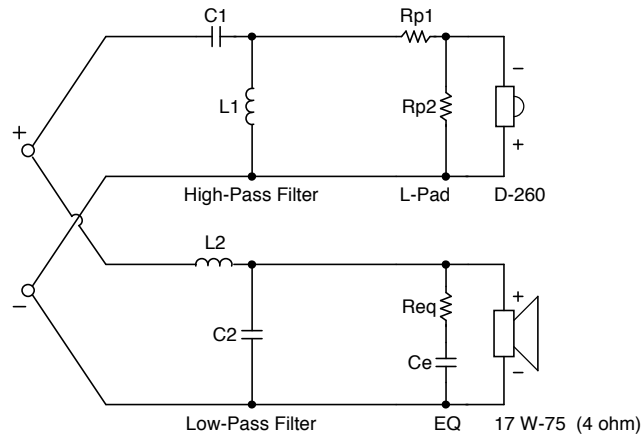
Rp2 = 13 ohms

## Woofers

Impedance EQ

Req = 3.6 ohms

Ce = 18  $\mu$ F





## Tweeter Properties

--Driver Description--

Name: D-260

Type: Standard one-way driver

Company: Dynaudio

Piston: Dome material is doped fabric

Voice Coil: Diameter-28 mm x 2.8 mm

Ferrofluid included

--Driver Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 1000 Hz

Qms = 0.83

Mms = 0.51 g

Xmax = 0.15 mm

Xmech = 1.6 mm

Sd = 7.7 sq.cm

Qes = 1.14

Re = 5.2 ohms

Z = 8 ohms

BL = 3.9 Tm

Pe = 130 watts

Qts = 0.48

1-W SPL = 90 dB

2.83-V SPL = 90 dB

## Woofers Properties

--Driver Description--

Name: 17 W-75 (4 ohm)

Type: Standard one-way driver

Company: Dynaudio

Piston: MSP polypropylene cone

Voice Coil: 75 mm, coil and former made of aluminum

Magnet: Vented magnet system

--Driver Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 40 Hz

Qms = 3

Vas = 22 liters

Mms = 15 g

Xmax = 3 mm

Xmech = 9.5 mm

Sd = 120 sq.cm

Qes = 0.9

Re = 3 ohms

Le = 0.17 mH

Z = 4 ohms

BL = 3.5 Tm

Pe = 130 watts

Qts = 0.7

1-W SPL = 88 dB

2.83-V SPL = 88 dB

Graph Key: — LP — HP — Net

