

# EW1

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## 2-Way Crossover Network

Low-Pass (LP) Filter: 1 required

Type: 1st-Order Solen -6 dB

Desired Corner Frequency: 2000 Hz

High-Pass (HP) Filter: 1 required

Type: 4th-Order Linkwitz-Riley

Desired Corner Frequency: 2000 Hz

C1 = 5.275  $\mu$ F, Polypropylene, 0.00685 ohms

C2 = 10.55  $\mu$ F, Polypropylene, 0.00502 ohms

L1 = 0.4 mH, Air Core (#16), 0.296 ohms

L2 = 1.8 mH, Air Core (#16), 0.457 ohms

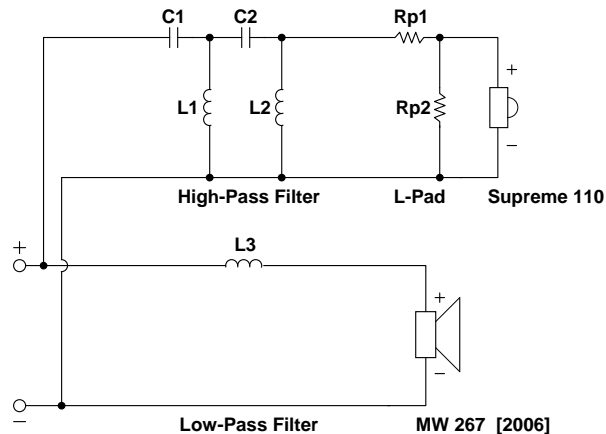
L3 = 0.9 mH, Air Core (#16), 0.354 ohms

## Tweeter

2.50 dB L-Pad

Rp1 = 2 ohms

Rp2 = 24 ohms



## Tweeter Properties

--Driver Description--

Name: Supreme 110

Type: Standard one-way driver

Company: Morel Ltd. (Israel)

--Driver Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 680 Hz  
Qms = 1.32  
Xmax = 0.75 mm  
Xmech = 1.125 mm  
P-Dia = 28 mm  
Sd = 6.158 sq.cm  
P-Vd = 0.000462 liters  
Qes = 0.536  
Re = 5.2 ohms  
Le = 0.077 mH  
Z = 8 ohms  
Pe = 120 watts  
Qts = 0.38  
no = 0.862 %  
1-W SPL = 91.5 dB  
2.83-V SPL = 93.37 dB

## Woofer Properties

--Driver Description--

Name: MW 267 [2006]

Type: Standard one-way driver

Company: Morel Ltd. (Israel)

--Driver Configuration--

No. of Drivers = 1

--Driver Parameters--

Fs = 30 Hz  
Qms = 2.5  
Vas = 62.5 liters  
Cms = 0.926 mm/N  
Mms = 30.39 g  
Rms = 2.3 kg/s  
Xmax = 4.25 mm  
Xmech = 6.375 mm  
P-Dia = 166.6 mm  
Sd = 219 sq.cm  
P-Vd = 0.0926 liters  
Qes = 0.5  
Re = 6.6 ohms  
Le = 1 mH  
Z = 8 ohms  
BL = 8.696 Tm  
Pe = 180 watts  
Qts = 0.42  
no = 0.325 %  
1-W SPL = 89 dB  
2.83-V SPL = 88.1 dB

