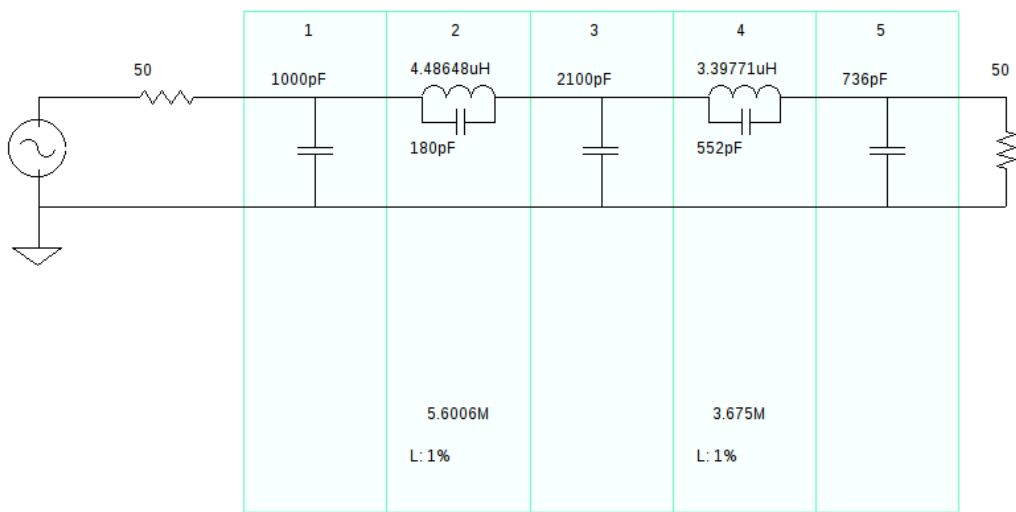
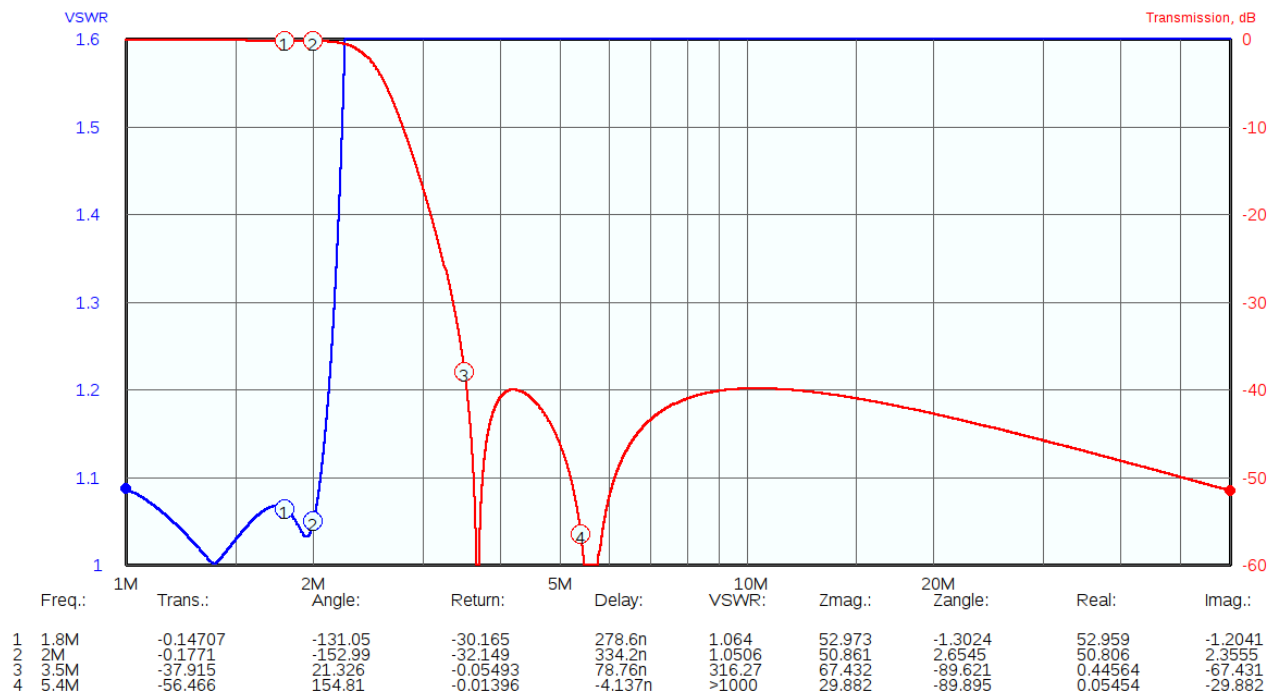


The following are a set of plots for suitable Hi pass filters for Hermes lite. All filters with the exception of the 30 Mhz roofing filter are 5 pole Cauer and designed with a maximum of 2 E12 caps in parallel but in most cases will be a single cap.

160 Metre Plot and schematic follow



Design data:  
Bandwidth: 2.04M  
Family: Manual entry

Q values:  
Inductors: 120  
Capacitors: 1000

Maximum / minimum ratios:  
Capacitors: 11.667  
Inductors: 1.3204

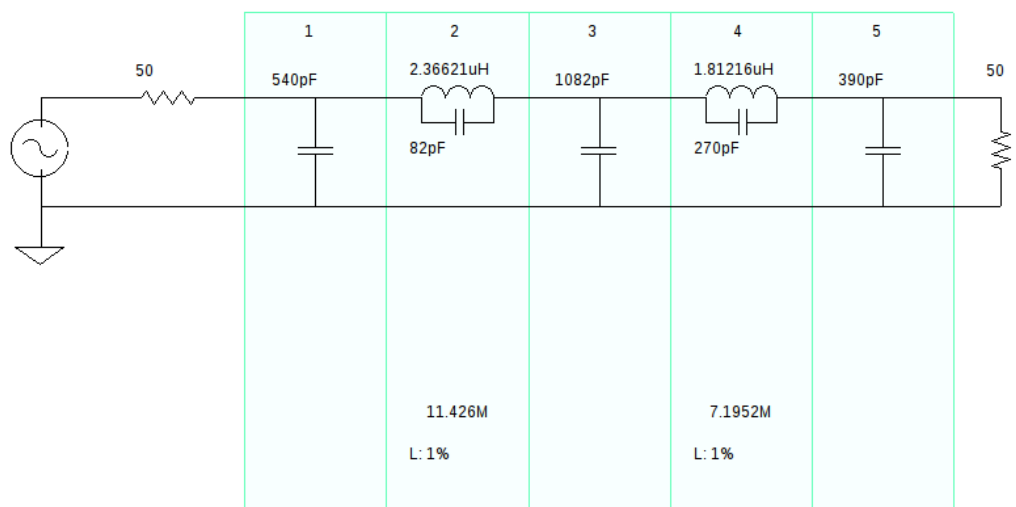
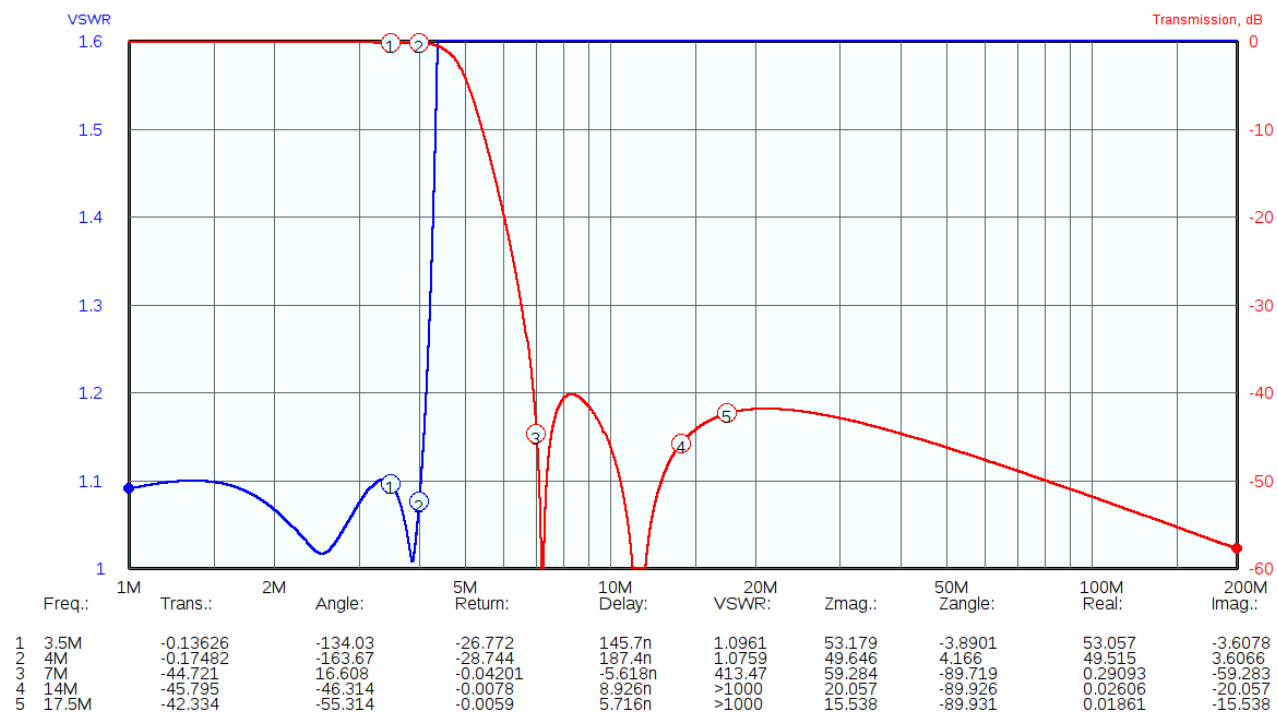
Unbalanced preview

Normal - unbalanced

Balanced - A

Balanced - B

80 Metre Plot and schematic follow



Design data:  
Bandwidth: 4M  
Family: Manual entry

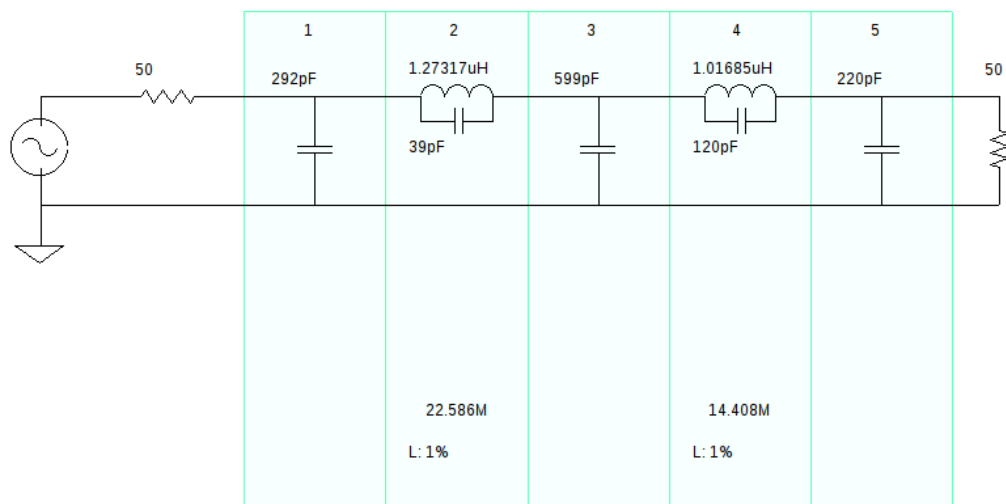
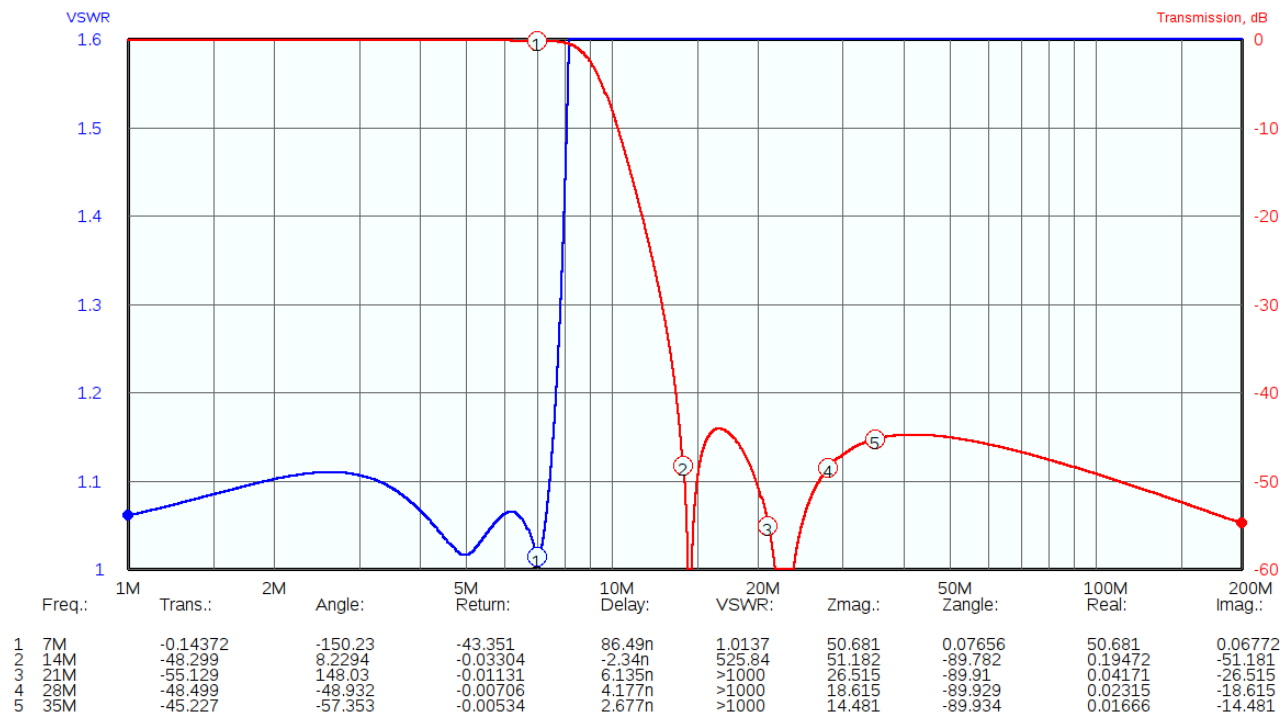
Q values:  
Inductors: 140  
Capacitors: 1000

Maximum / minimum ratios:  
Capacitors: 13.195  
Inductors: 1.3057

Unbalanced preview

Normal - unbalanced
Balanced - A
Balanced - B

40 Metre Plot and schematic follow



Design data:  
Bandwidth: 7.5M  
Family: Manual entry

Q values:  
Inductors: 140  
Capacitors: 1000

Maximum / minimum ratios:  
Capacitors: 15.359  
Inductors: 1.2521

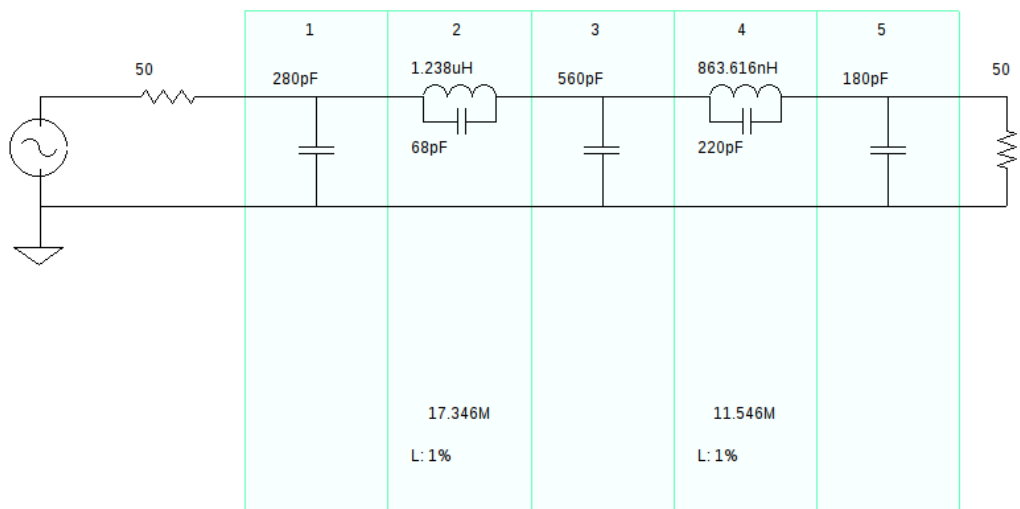
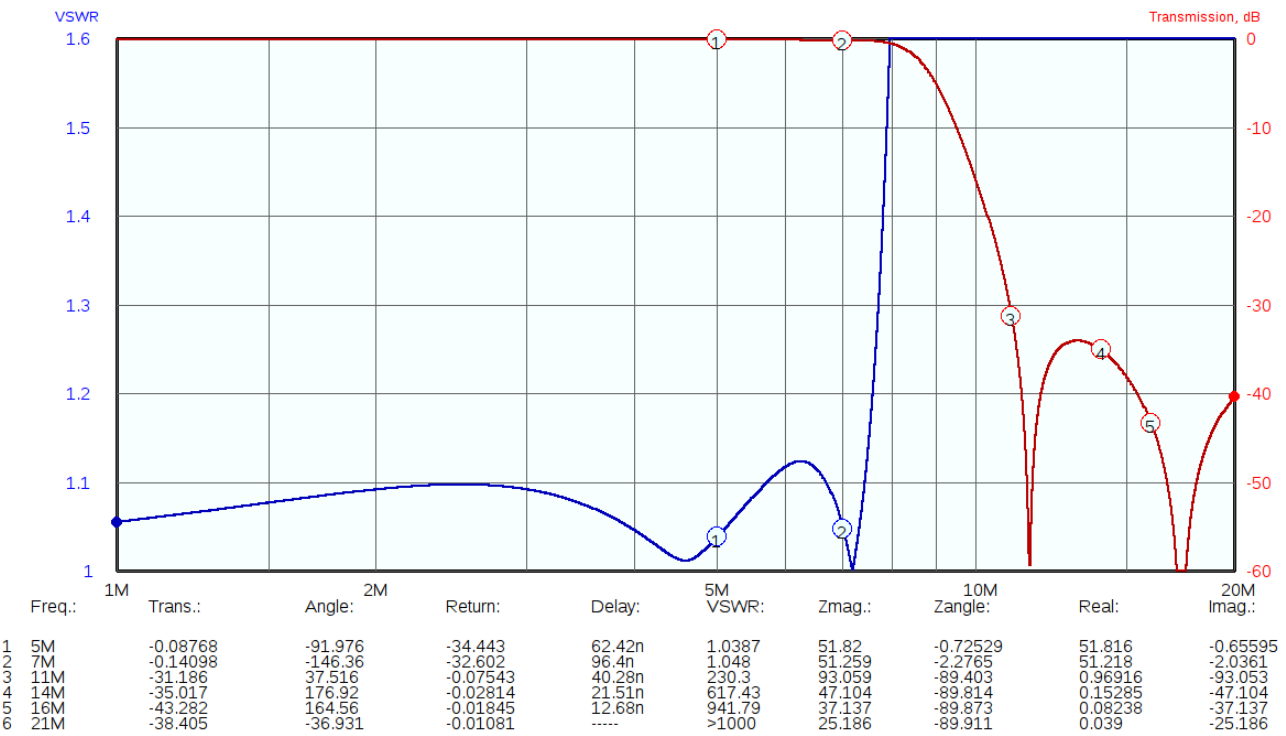
Unbalanced preview

Normal - unbalanced

Balanced - A

Balanced - B

60/40 Metre Plot and schematic follow. This filter compromises the absolute stopband floor to accommodate the 60 metre band with a value of around 35 dB stopband attenuation.



Design data:  
Bandwidth: 7.3M  
Family: Manual entry

Q values:  
Inductors: 160  
Capacitors: 1000

Maximum / minimum ratios:  
Capacitors: 8.2353  
Inductors: 1.4335

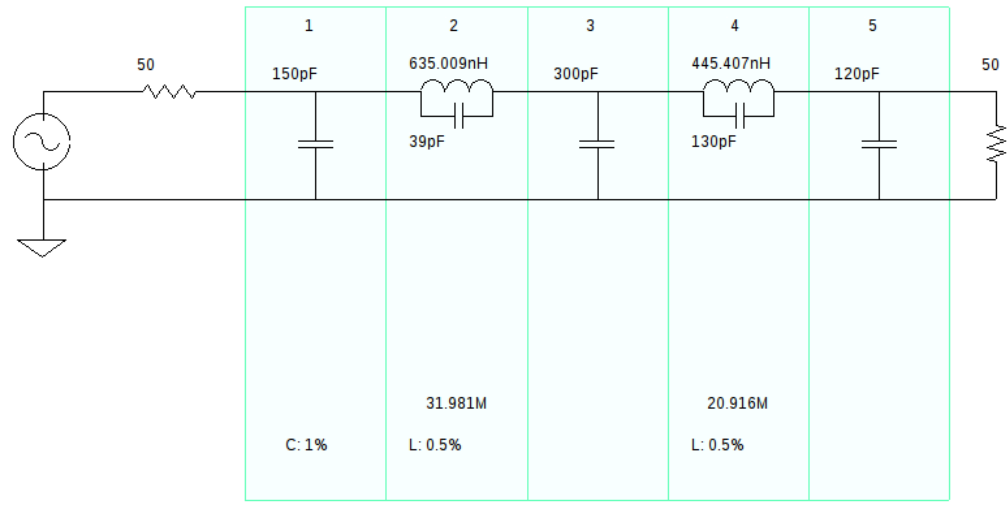
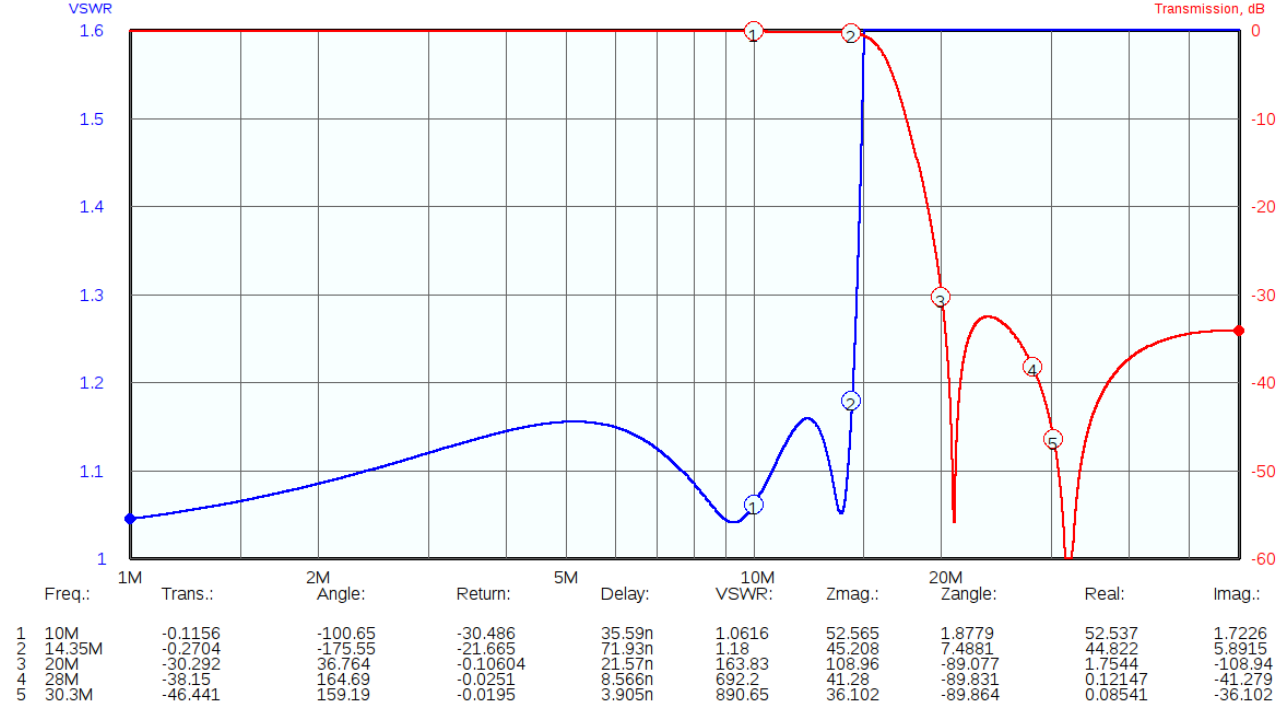
Unbalanced preview

Normal - unbalanced

Balanced - A

Balanced - B

30-20 Metre Plot and schematic follow



Design data:

Bandwidth: 14.5M

Family: Manual entry

Q values:

Inductors: 140

Capacitors: 1000

Maximum / minimum ratios:

Capacitors: 7.6923

Inductors: 1.4257

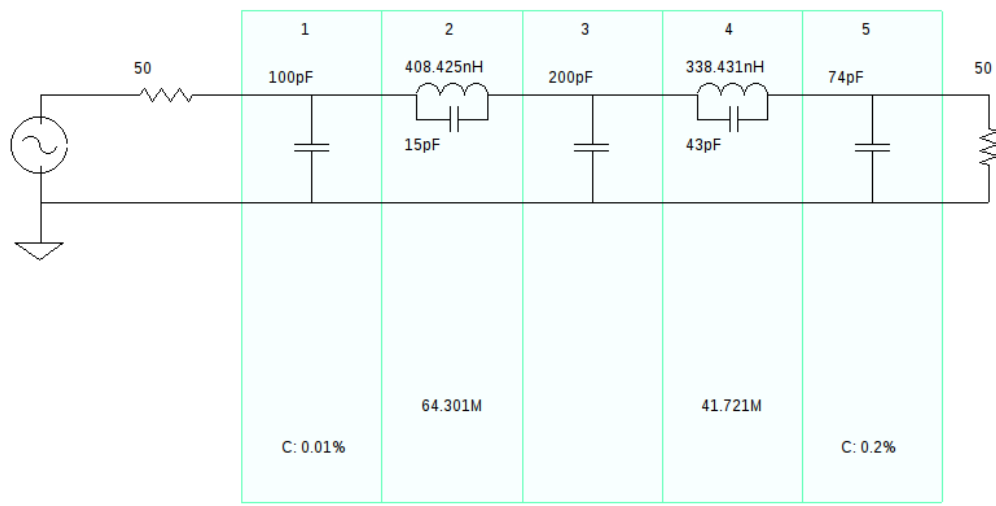
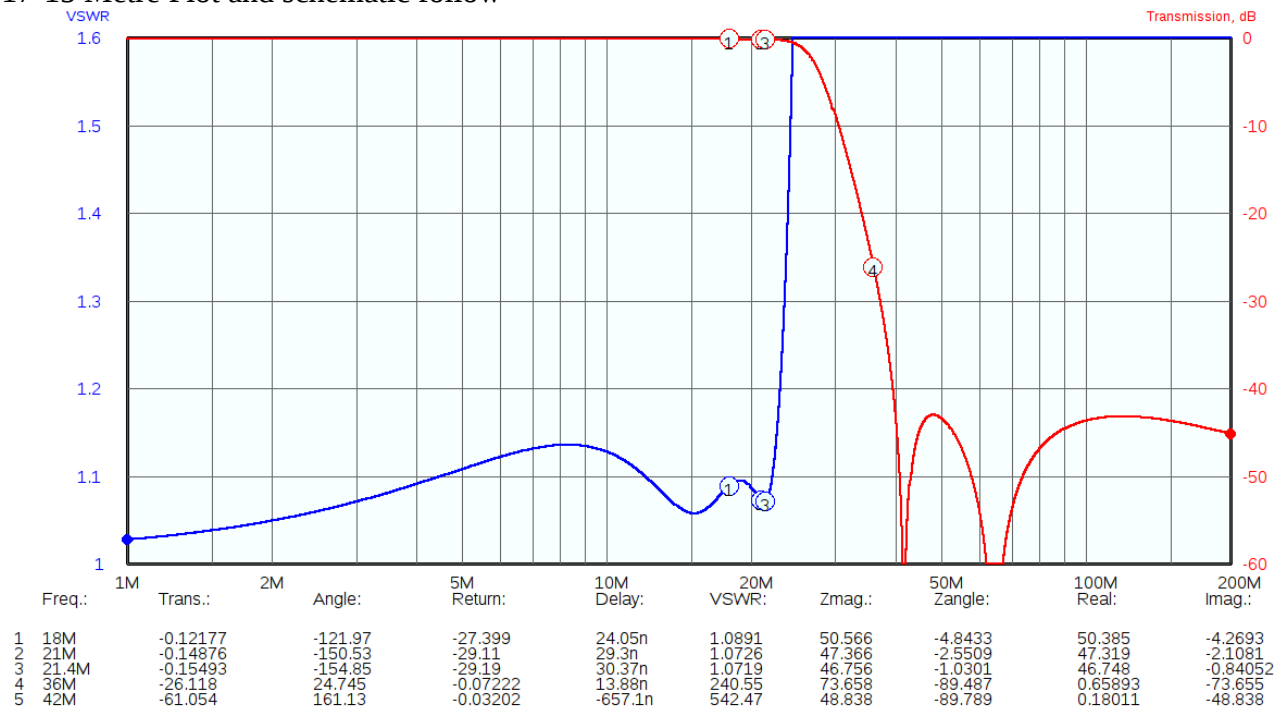
Unbalanced preview:

Normal - unbalanced

Balanced - A

Balanced - B

17-15 Metre Plot and schematic follow



Design data:  
Bandwidth: 22M  
Family: Manual entry

Q values:  
Inductors: 140  
Capacitors: 1000

Maximum / minimum ratios:  
Capacitors: 13.333  
Inductors: 1.2068

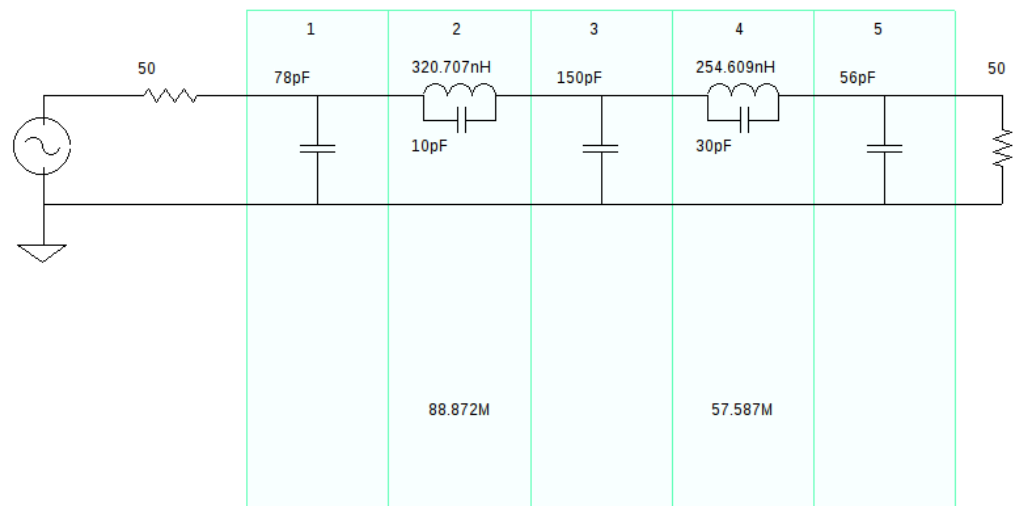
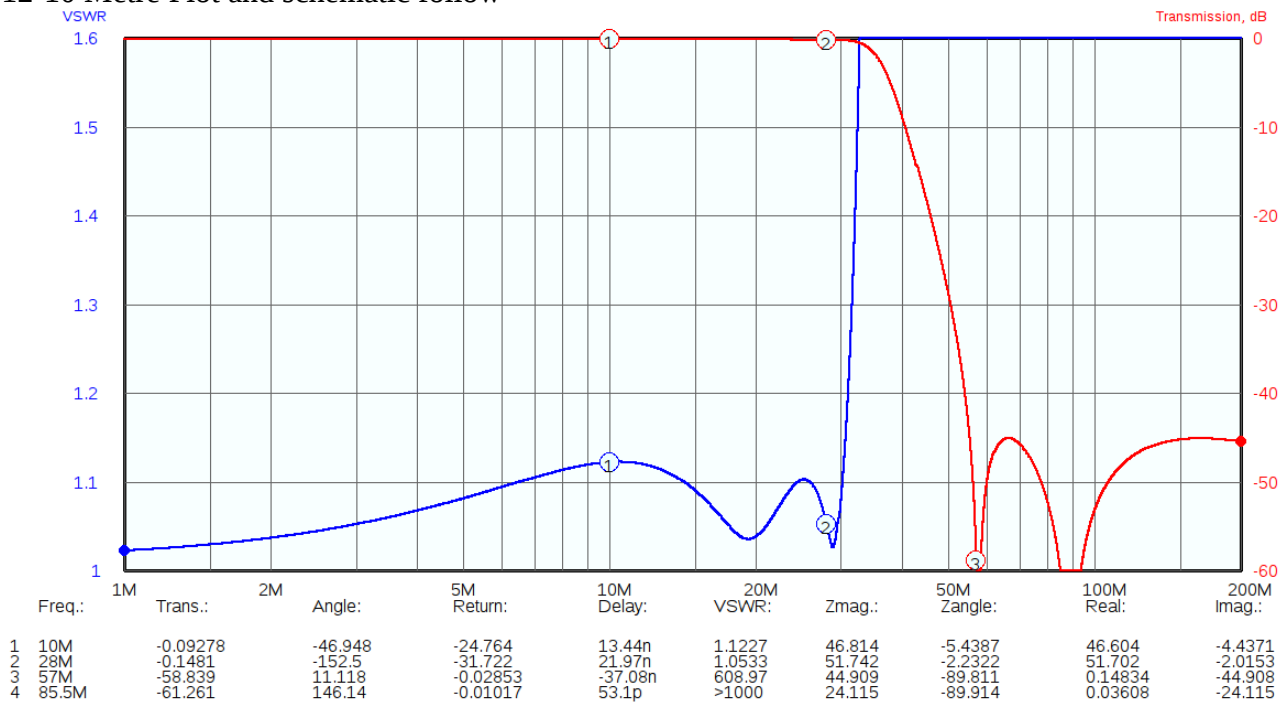
Unbalanced preview

Normal - unbalanced

Balanced - A

Balanced - B

12-10 Metre Plot and schematic follow



Design data:  
Bandwidth: 30M  
Family: Manual entry

Q values:  
Inductors: 140  
Capacitors: 1000

Maximum / minimum ratios:  
Capacitors: 15  
Inductors: 1.2596

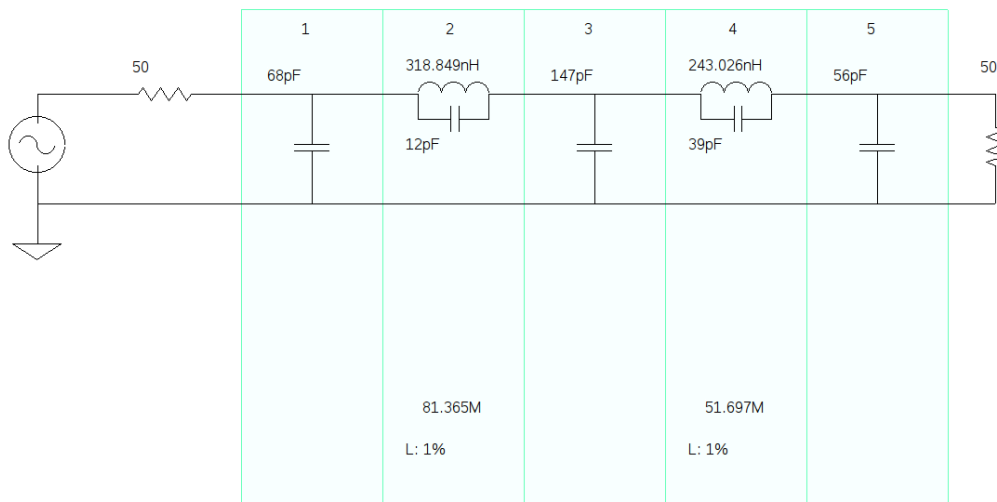
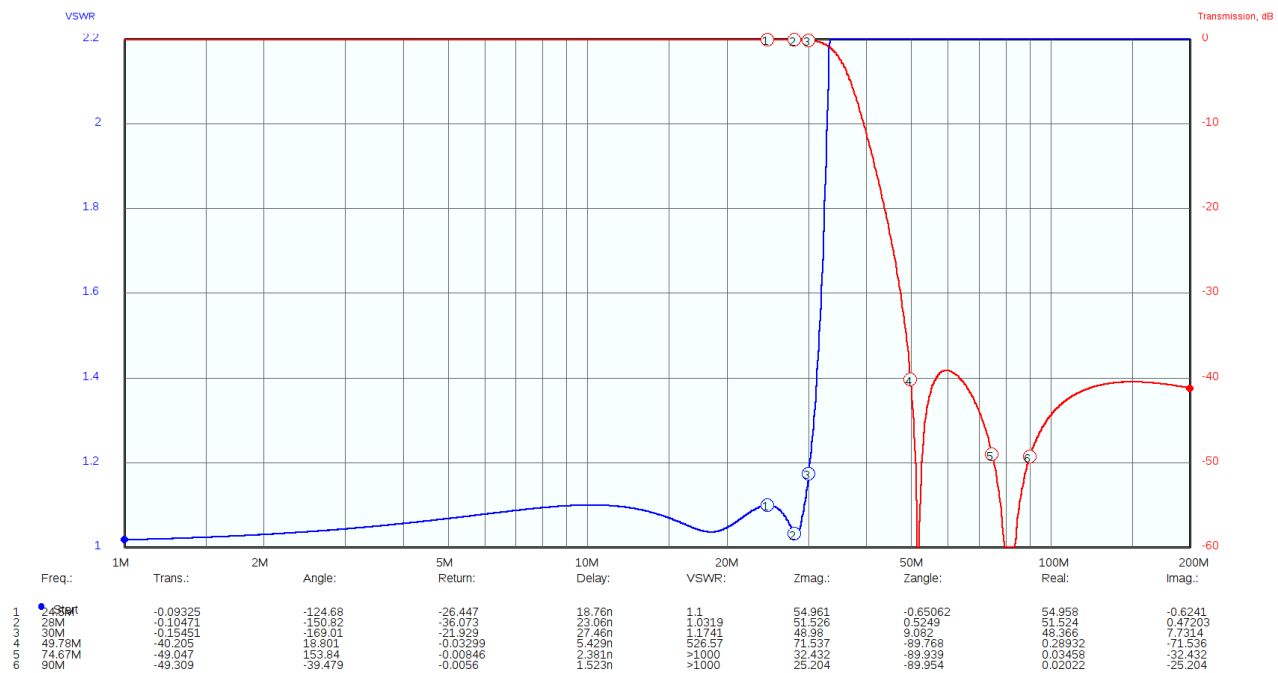
Unbalanced preview

☒ Normal - unbalanced

☐ Balanced - A

☐ Balanced - B

This is an improved 12/10 M filter with better VSWR in passband. A trivial amount of attenuation was sacrificed to get this result. 318.849 nH = 11t and 243.026 nH = 10t all on t37-10 cores.



Design data:  
Bandwidth: 30M  
Family: Manual entry

Q values:  
Inductors: 200  
Capacitors: 2000

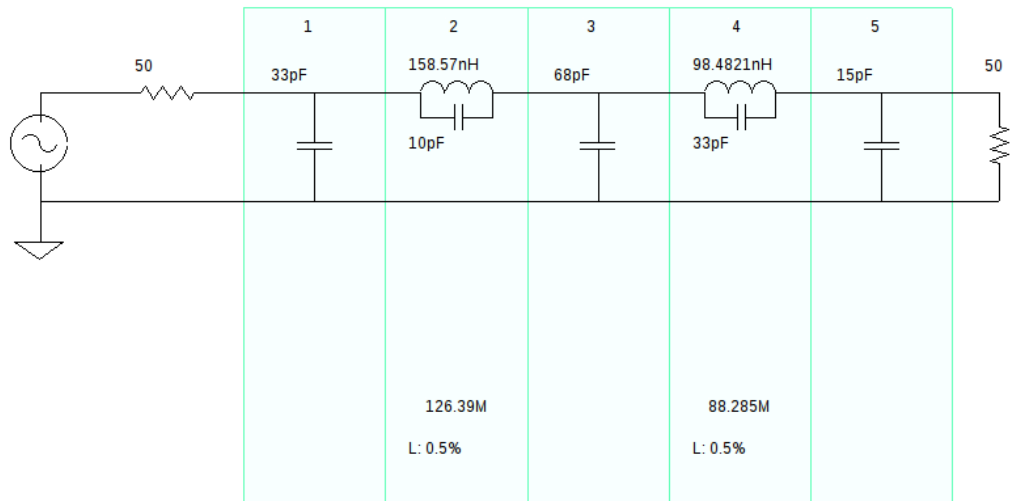
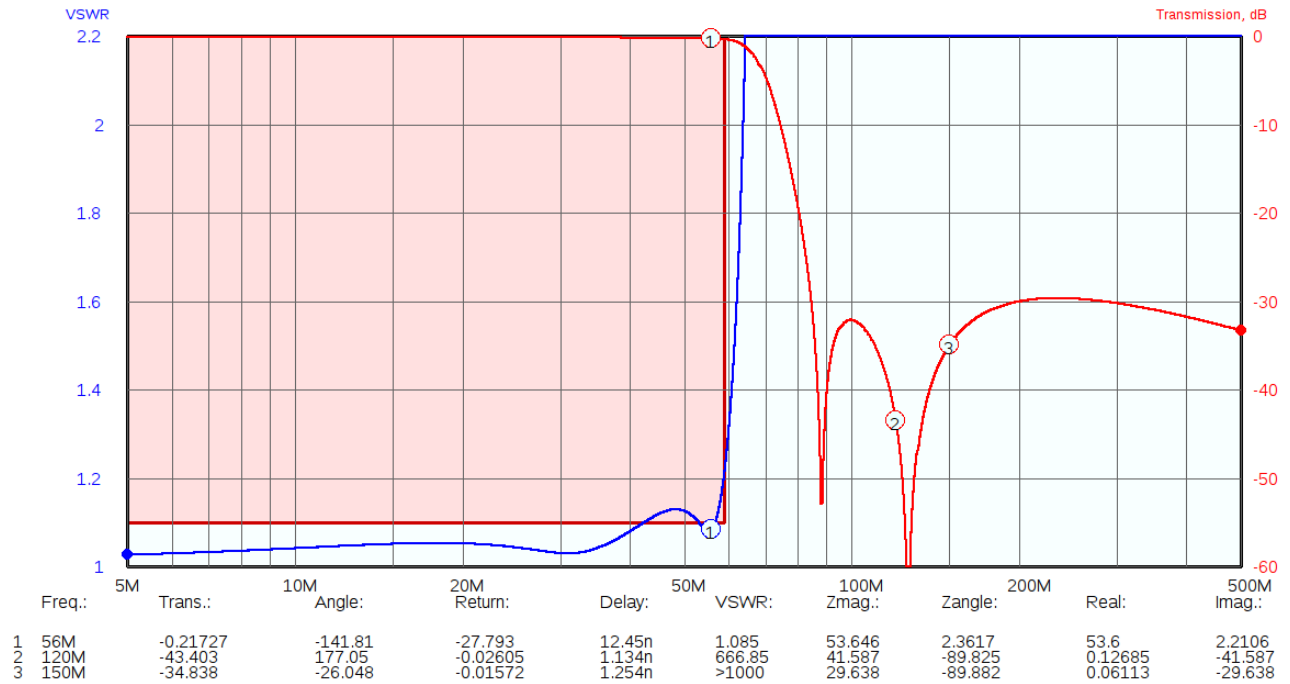
Maximum / minimum ratios:  
Capacitors: 12.25  
Inductors: 1.312

Unbalanced preview

Normal - unbalanced
Balanced - A
Balanced - B



6 Metre Plot and schematic follow



Design data:  
Bandwidth: 56M  
Family: Manual entry

Q values:  
Inductors: 100  
Capacitors: 1000

Maximum / minimum ratios:  
Capacitors: 6.8  
Inductors: 1.6101

Unbalanced preview

Normal - unbalanced

Balanced - A

Balanced - B

