

Filter Wizard Design Report

Filter Requirements for Band-Pass, 8th order Butterworth

Specifications: Optimize: Noise; +Vs: 5; -Vs: -5

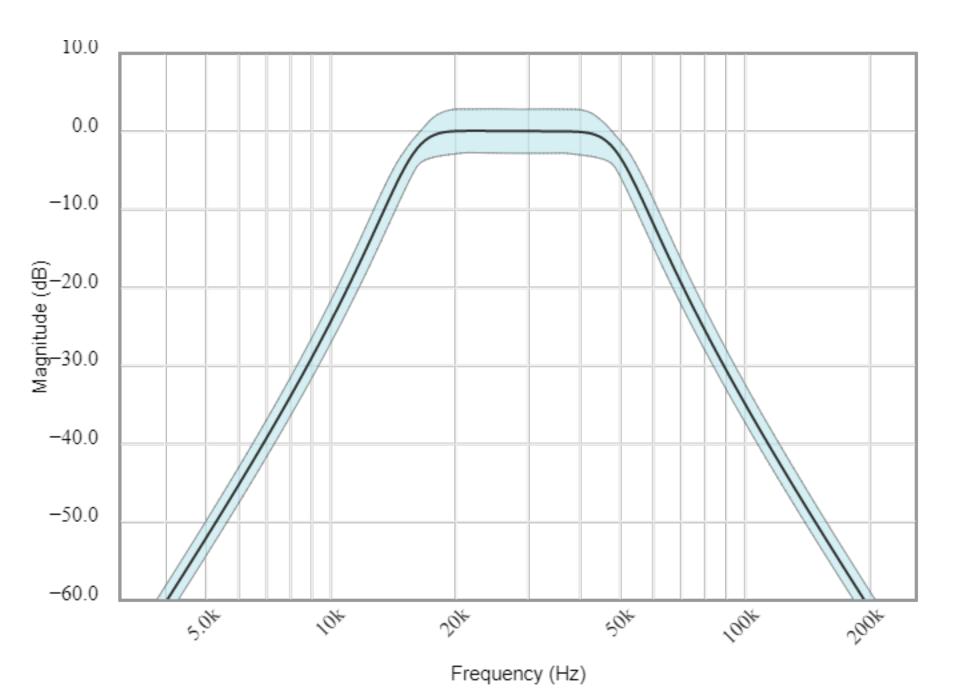
Gain: 0 dB

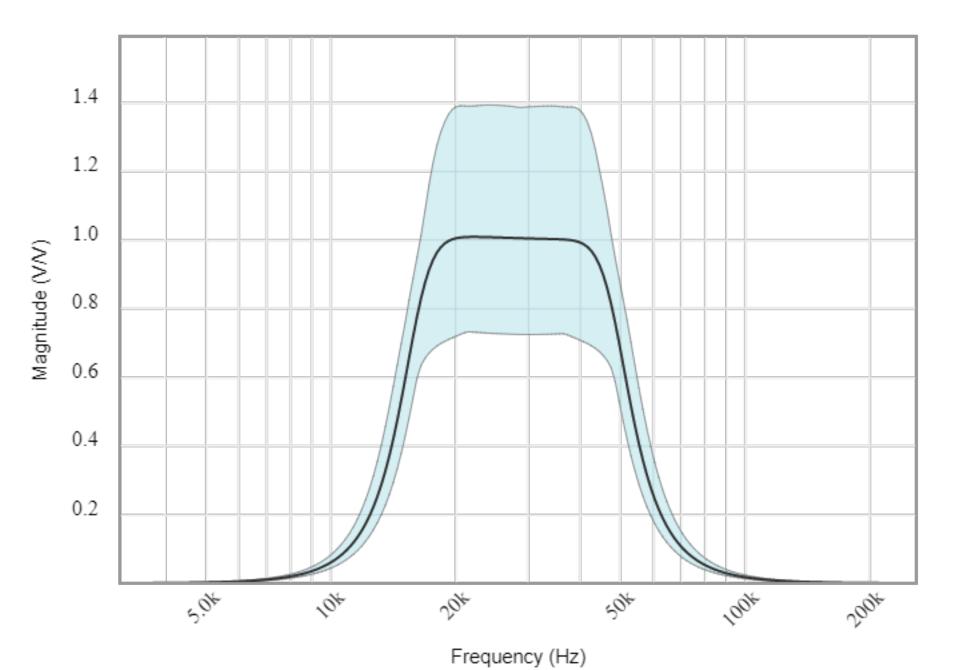
Passband: -20dB at 60kHz Stopband: -40dB at 125kHz

Component Tolerances: Capacitor = 5%; Resistor = 1%; Inductor = 5%; Op Amp GBW = 20%

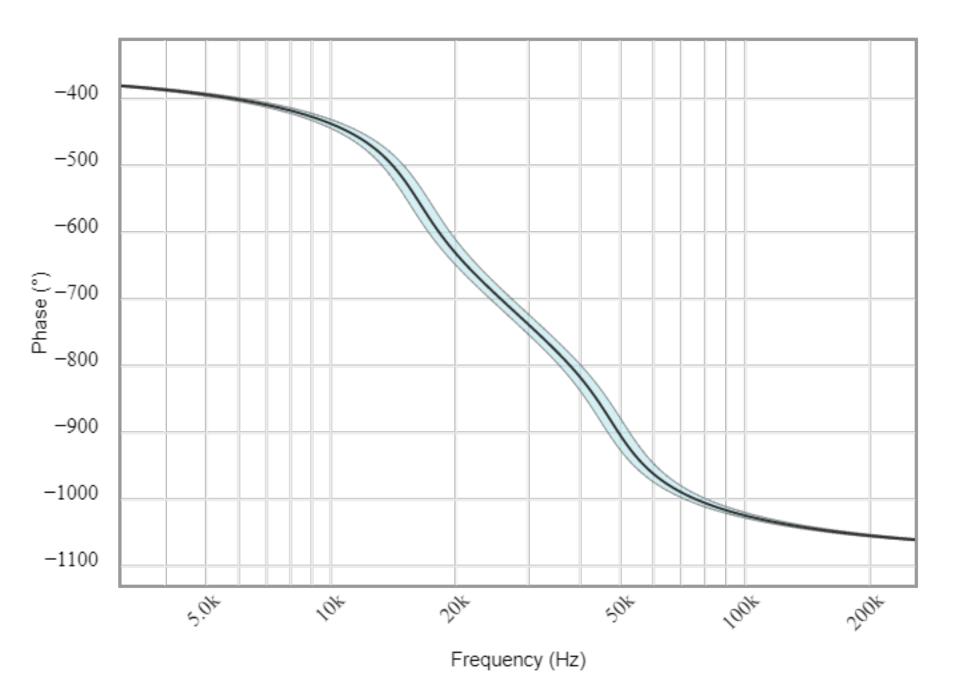
BOM: refer to BOM.csv file

Magnitude(dB)

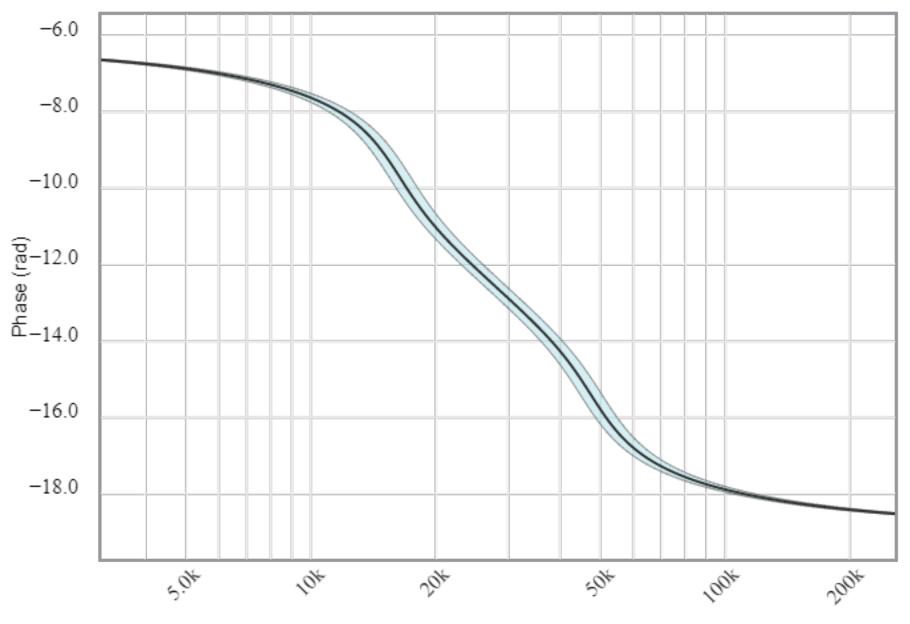




Phase(degrees)

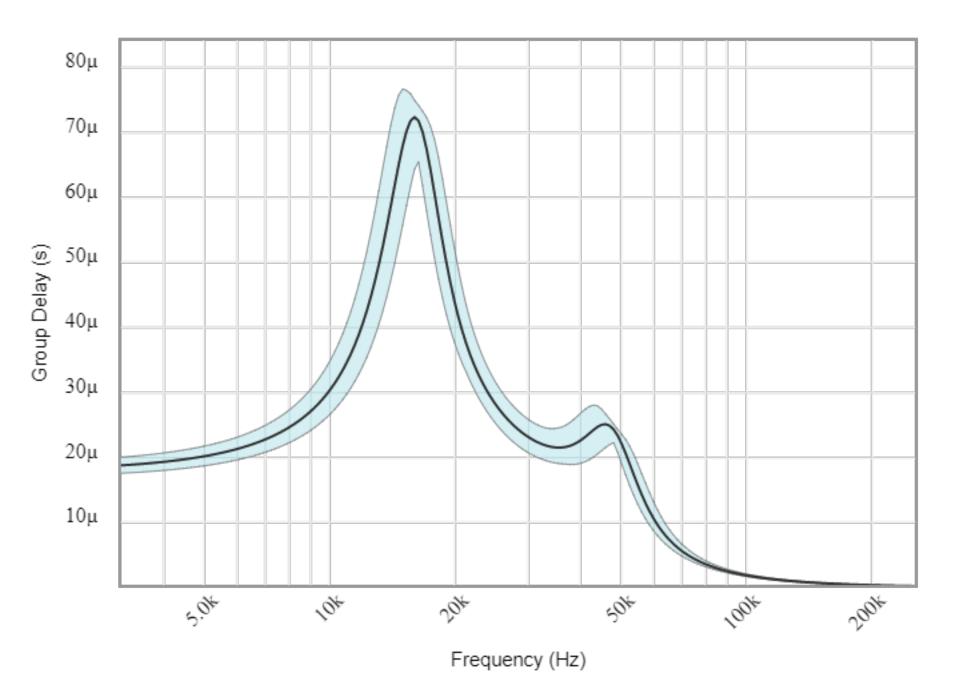


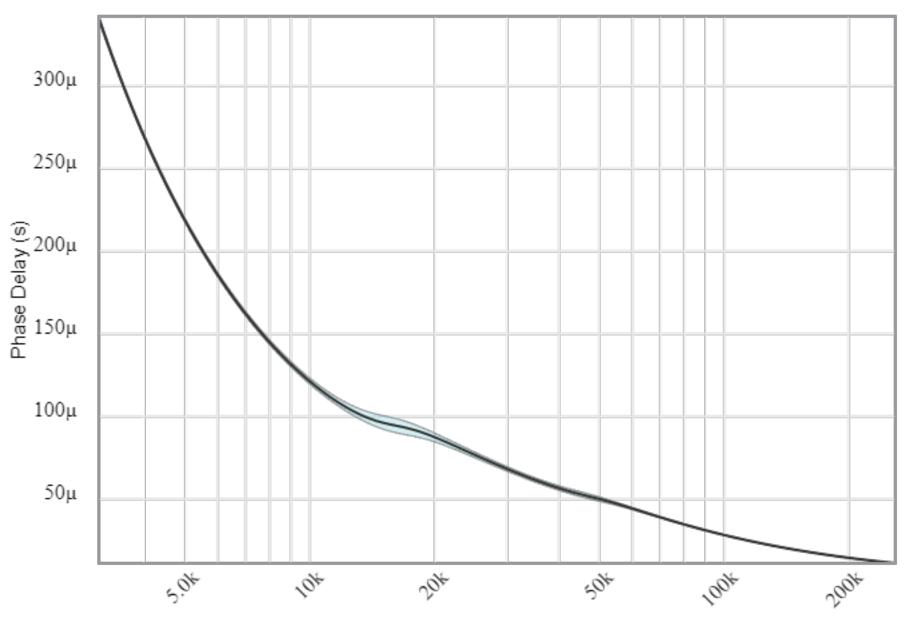
Phase(radians)



Frequency (Hz)

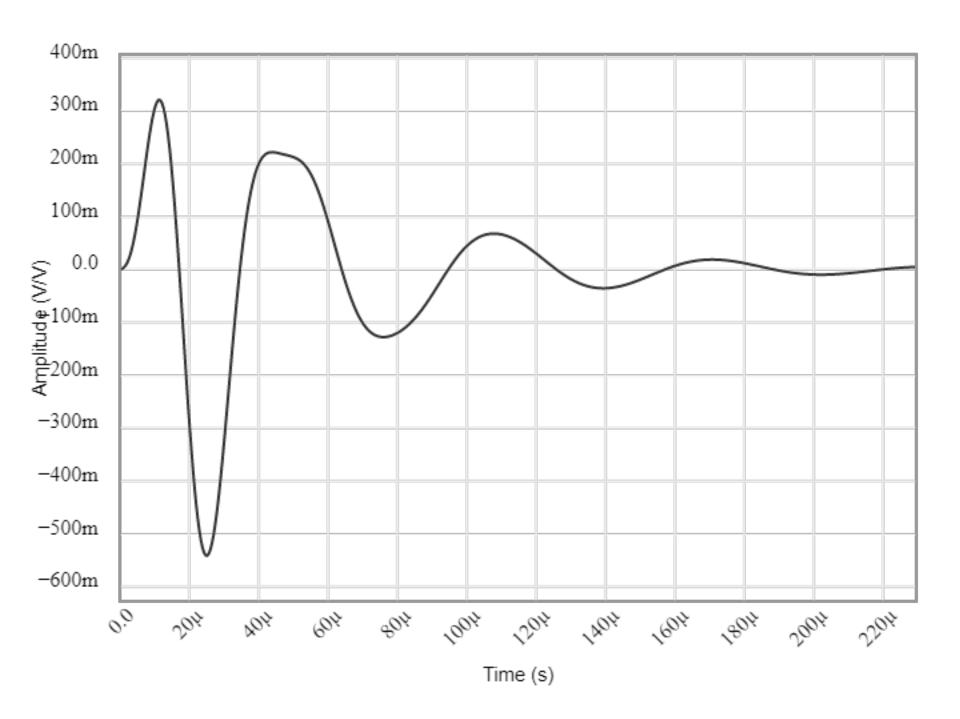
Group Delay



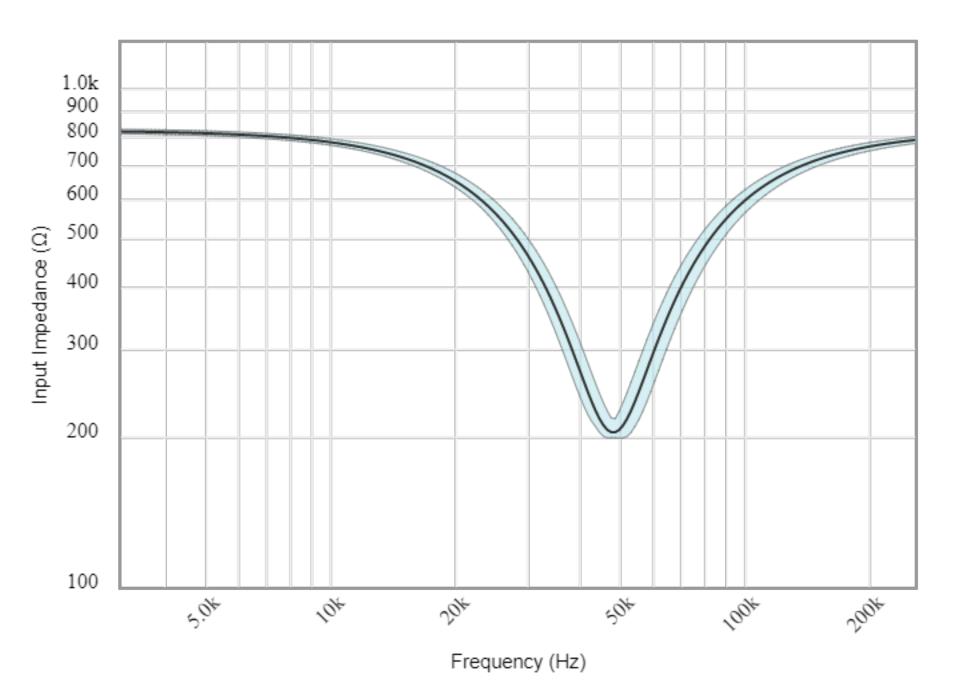


Frequency (Hz)

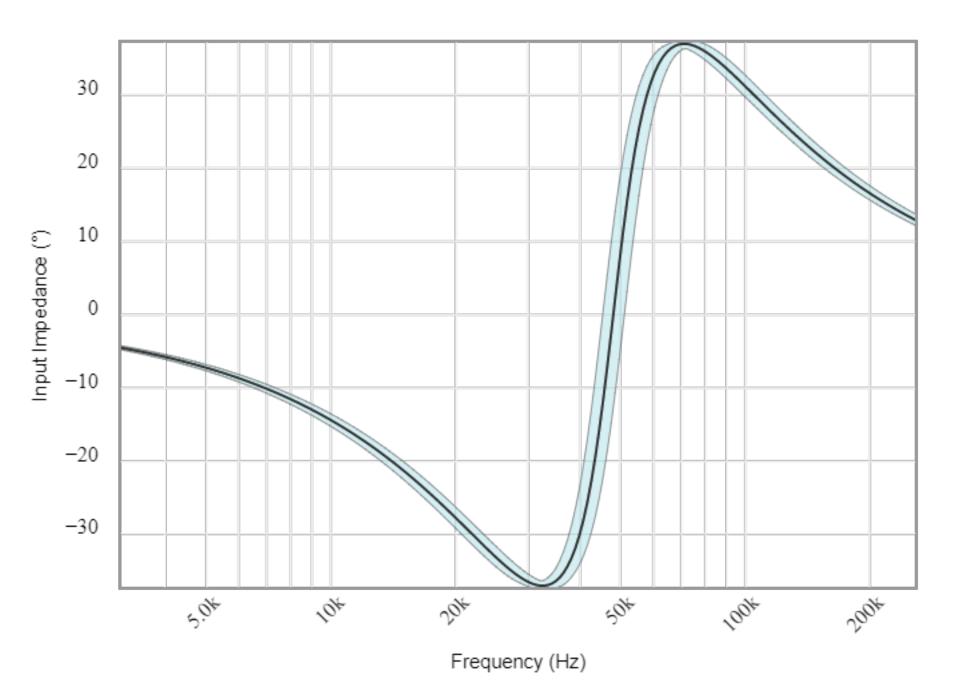
Step Response

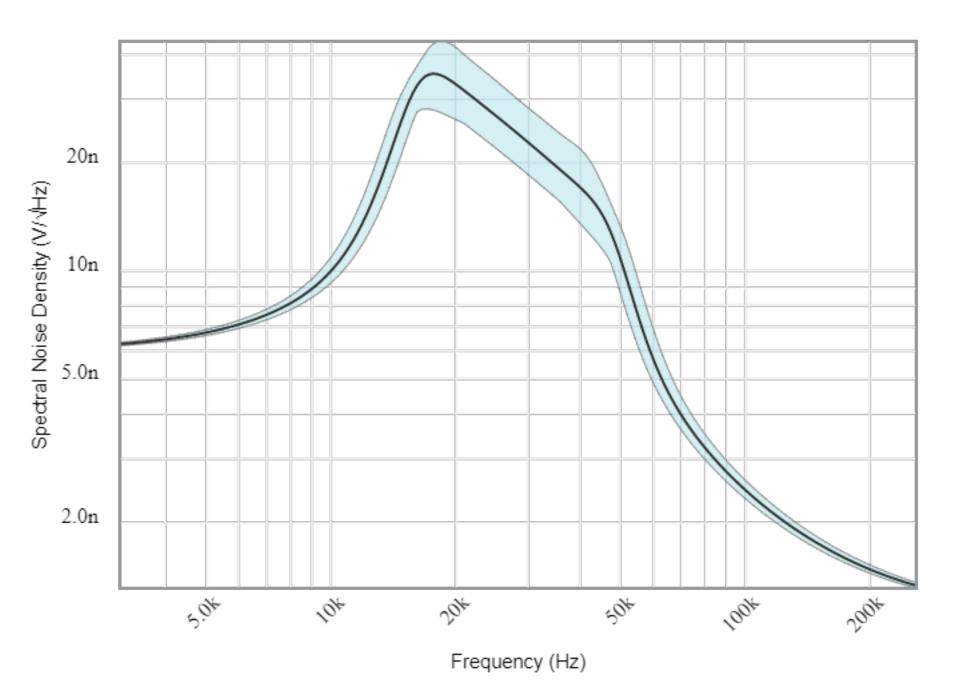


Input Impedance Magnitude



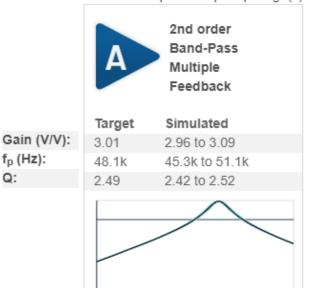
Input Impedance Phase





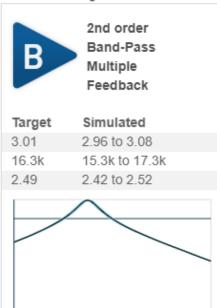
Stages

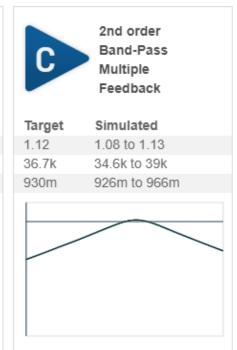
Your filter requires 4 op amp stage(s) with the following characteristics

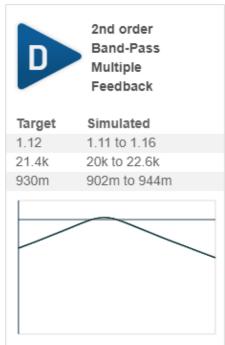


fp (Hz):

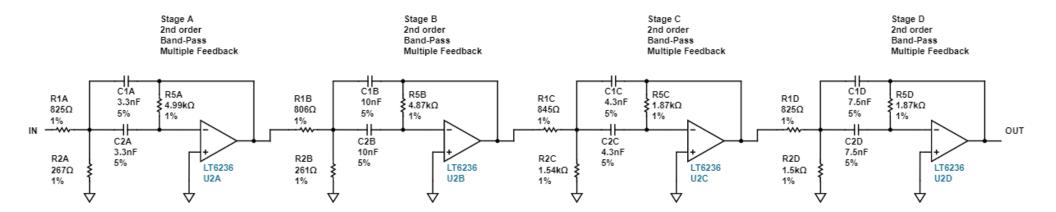
Q:







Circuit



BYPASS CAPACITORS