

# Filter Wizard Design Report

Filter Requirements for Low-Pass, 2nd order Butterworth

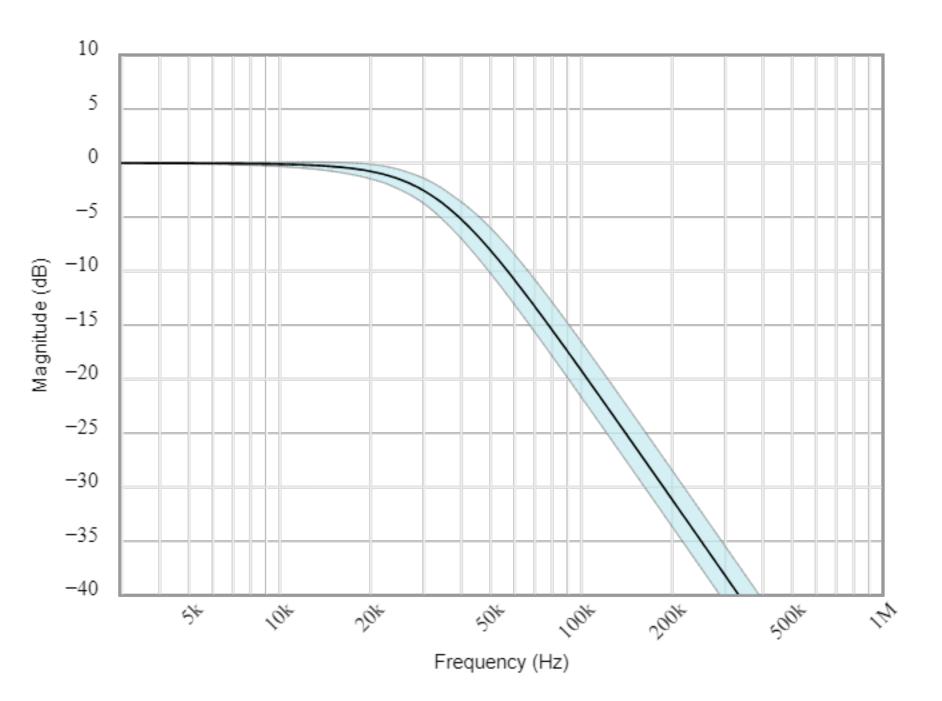
Specifications: Optimize: Noise; +Vs: 9; -Vs: 0

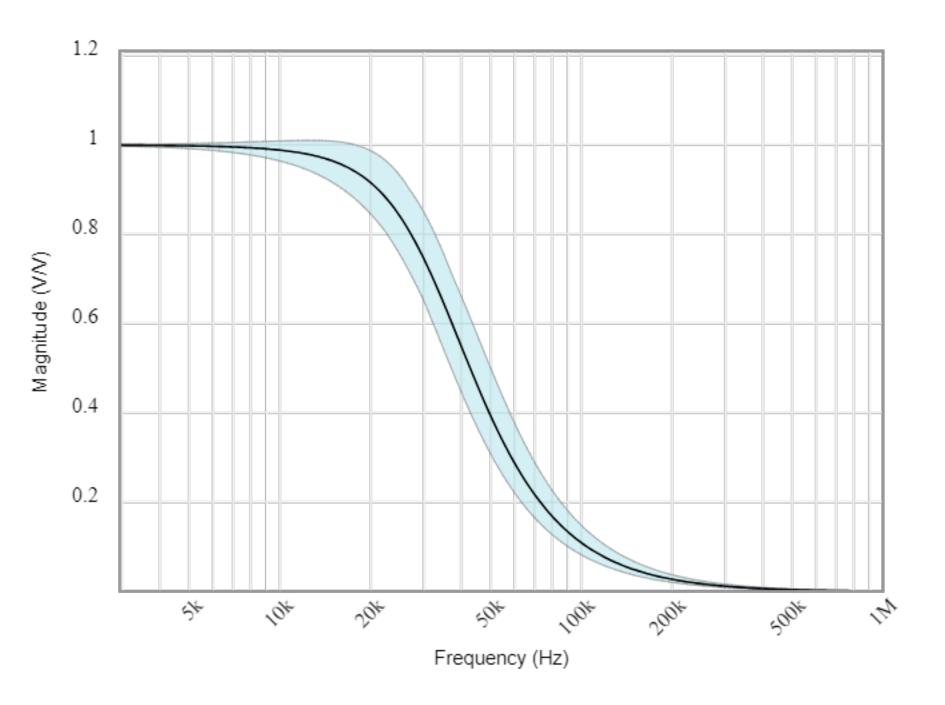
Gain: 0 dB

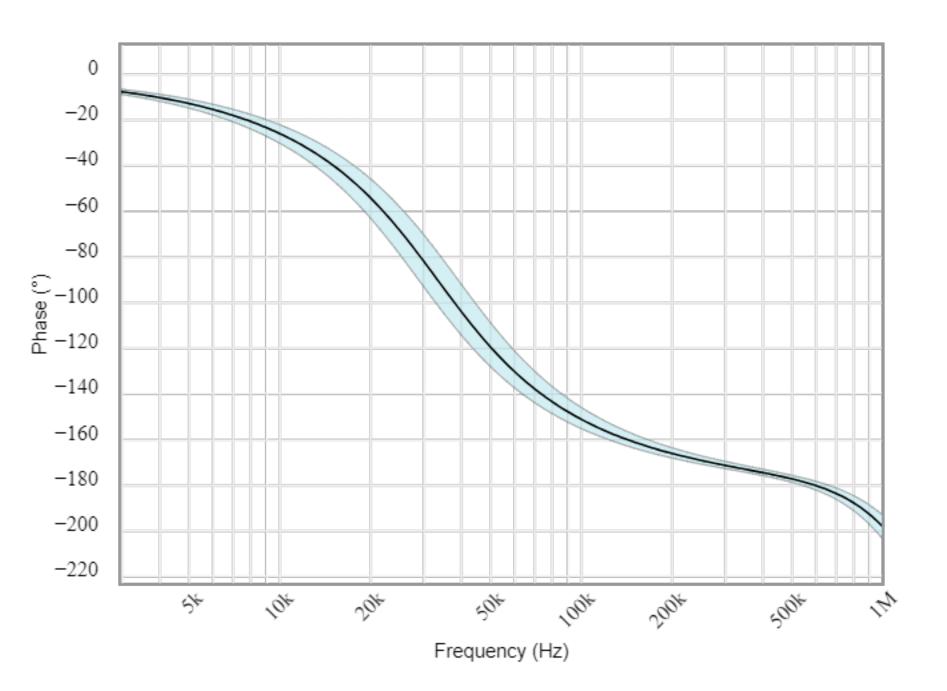
Passband: -3dB at 30kHz Stopband: -20dB at 100kHz

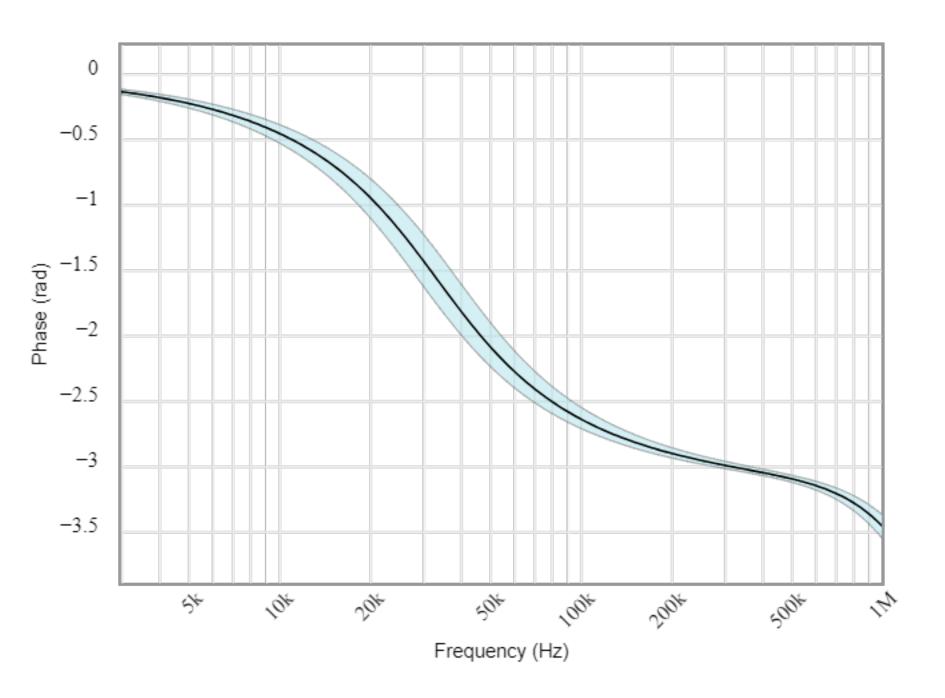
Component Tolerances: Capacitor = 10%; Resistor = 5%; Inductor = 5%; Op Amp GBW = 20%

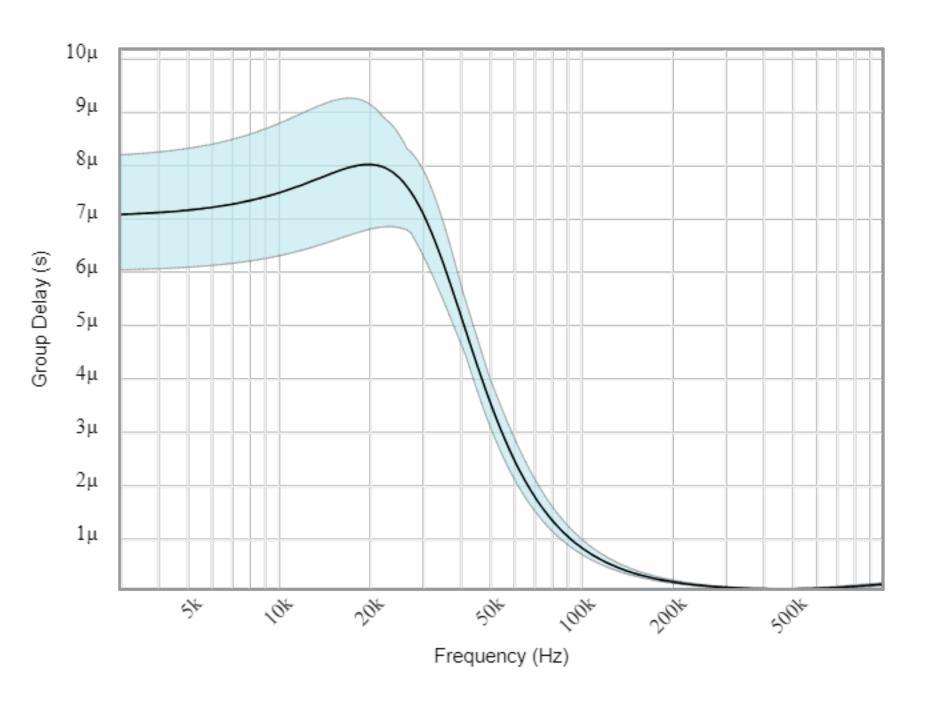
BOM: refer to BOM.csv file

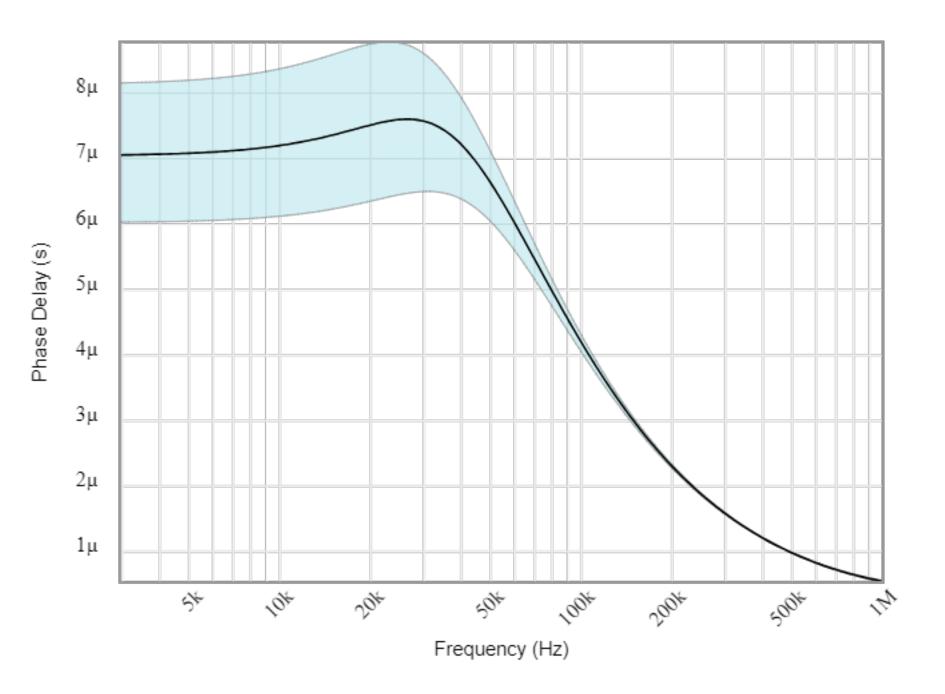


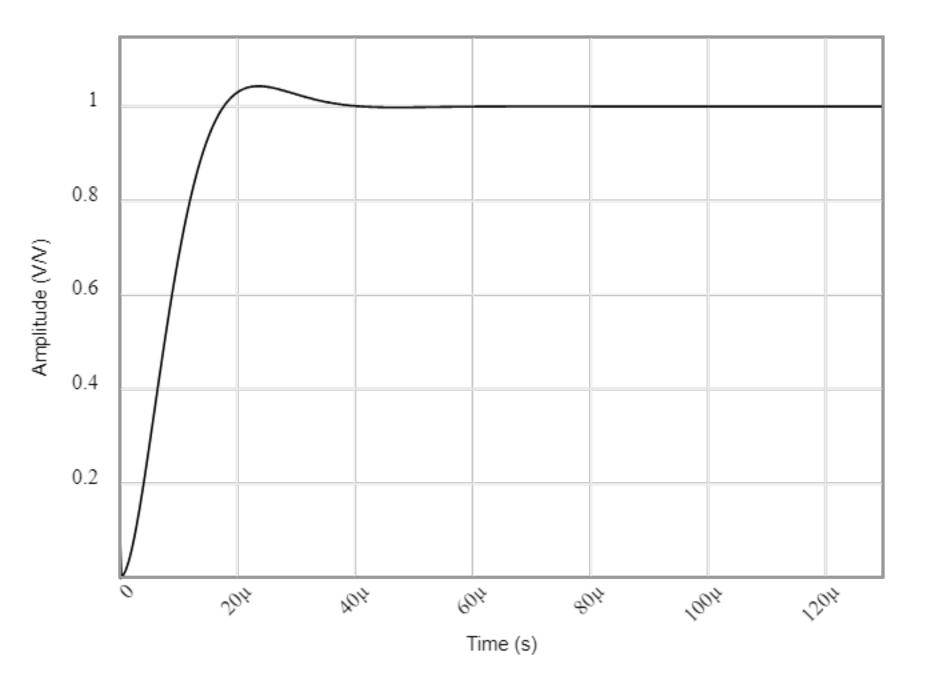




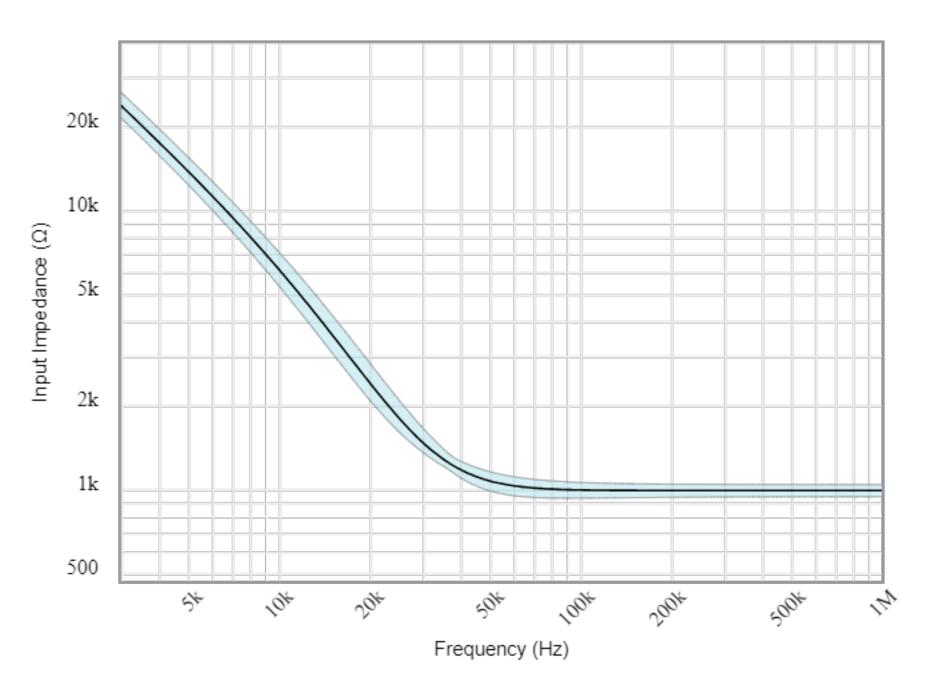




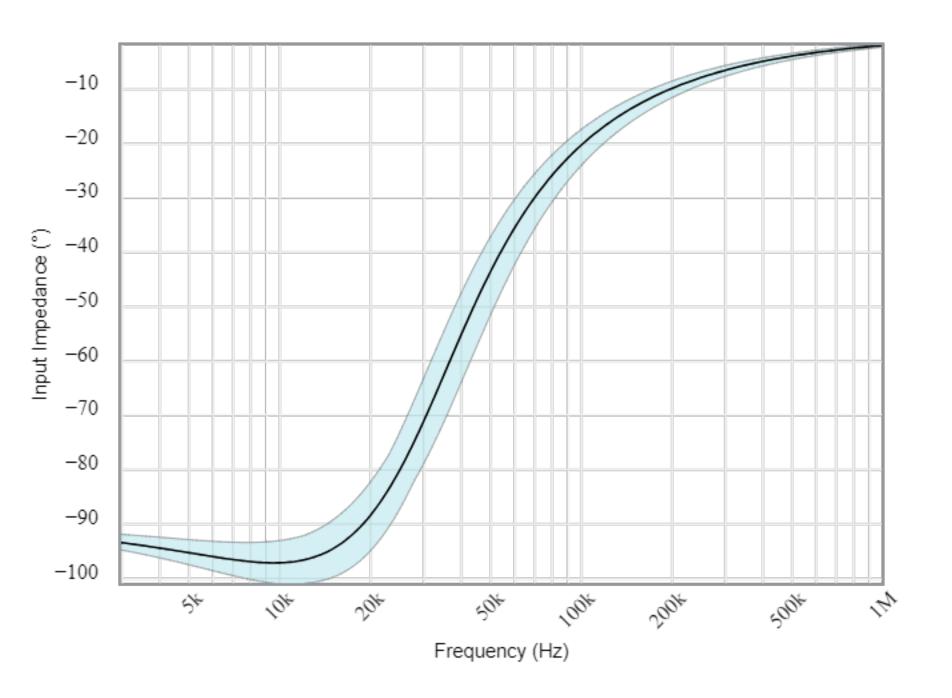


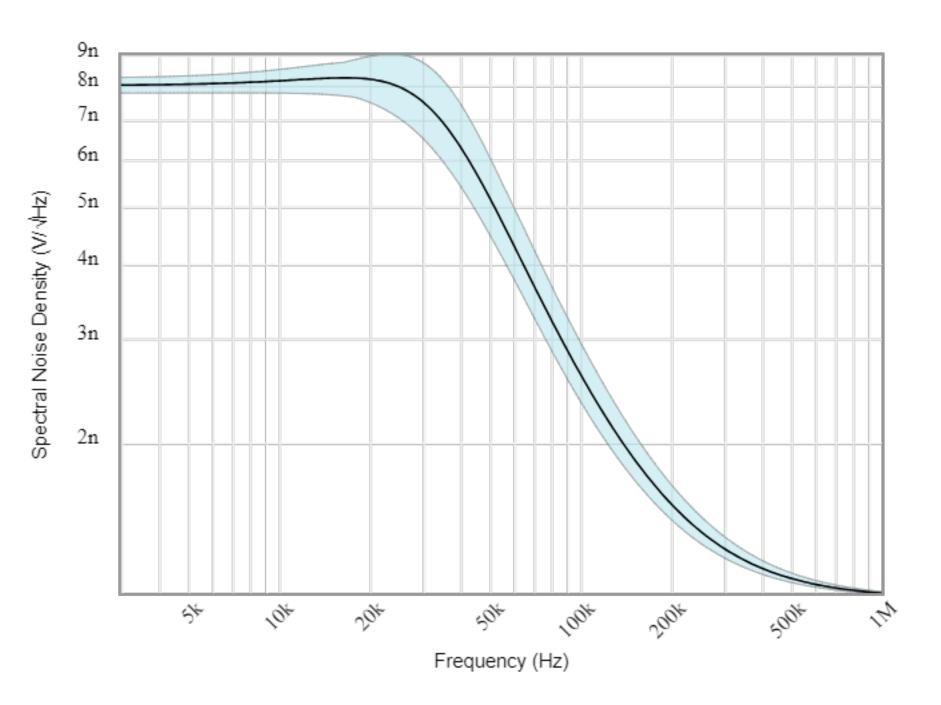


### Input Impedance Magnitude



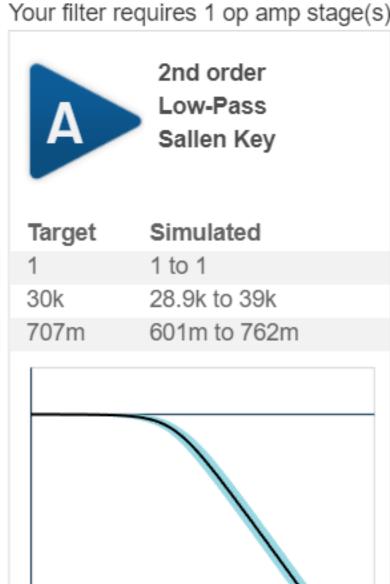
## Input Impedance Phase





#### Stages

Your filter requires 1 op amp stage(s) with the following characteristics



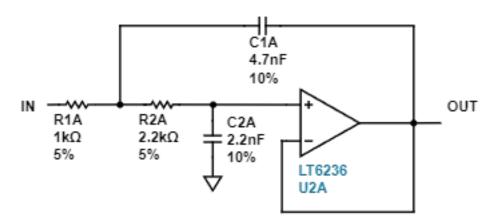
Gain (V/V):

f<sub>p</sub> (Hz):

Q:

Circuit

Stage A 2nd order Low-Pass Sallen Key



#### BYPASS CAPACITORS