

Filter Wizard Design Report

Filter Requirements for Low-Pass, 3rd order Butterworth Bessel

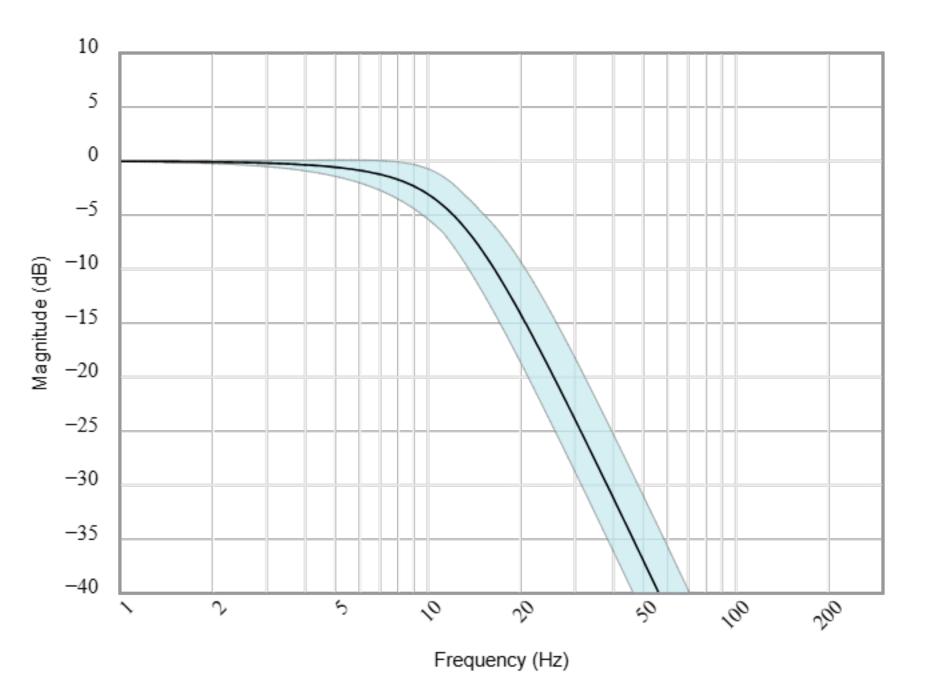
Specifications: Optimize: Specific Parts; +Vs: 3.3; -Vs: -3.3

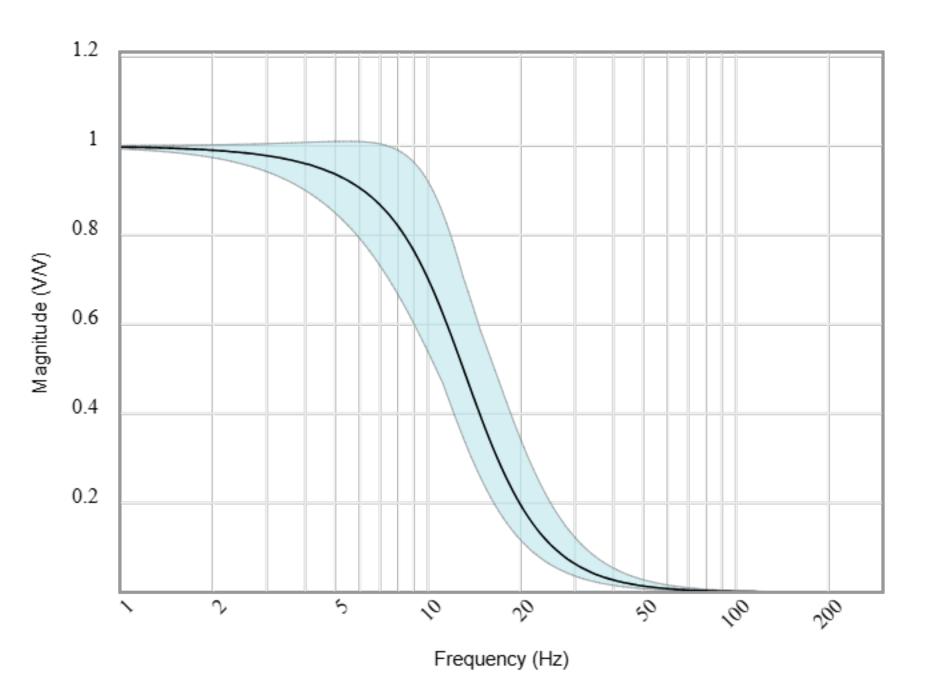
Gain: 0 dB

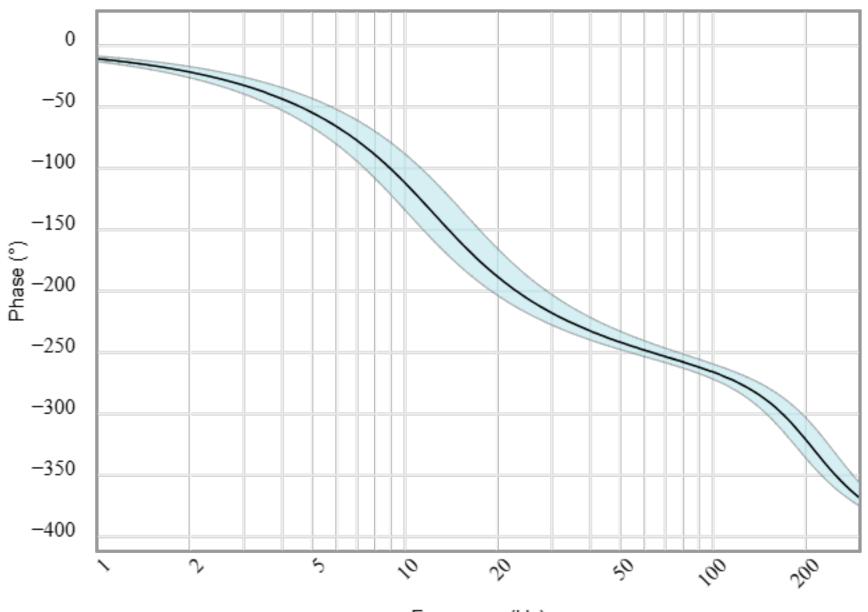
Passband: -3dB at 10Hz Stopband: -20dB at 30Hz

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

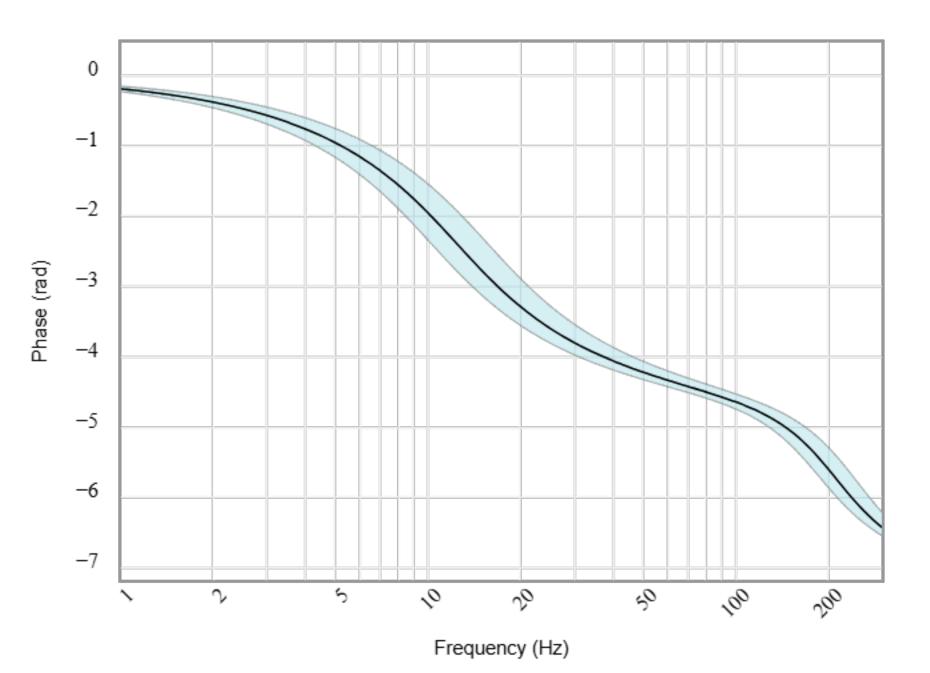
BOM: refer to BOM.csv file



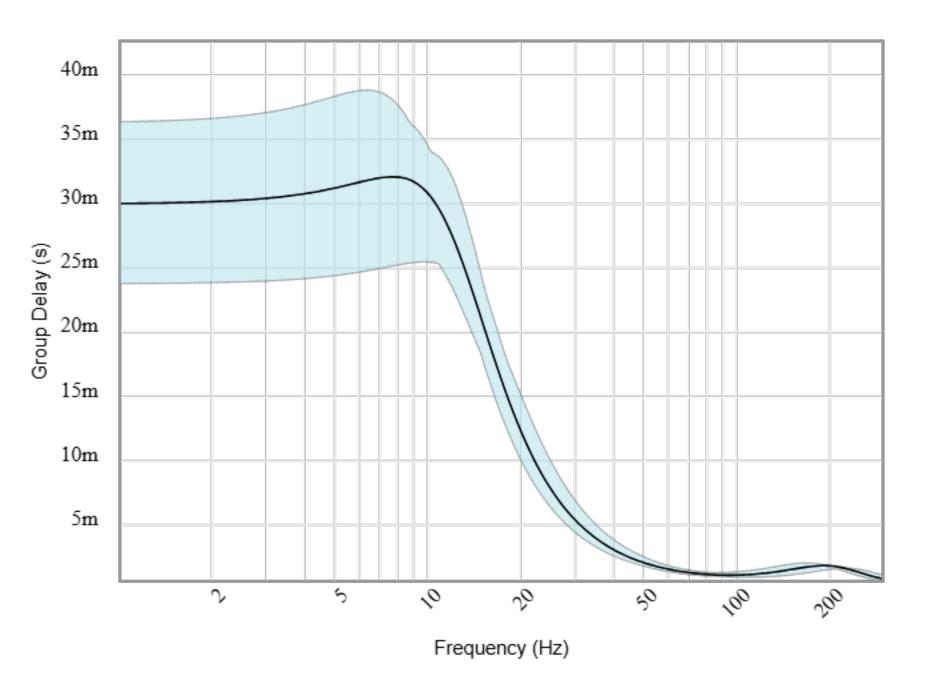


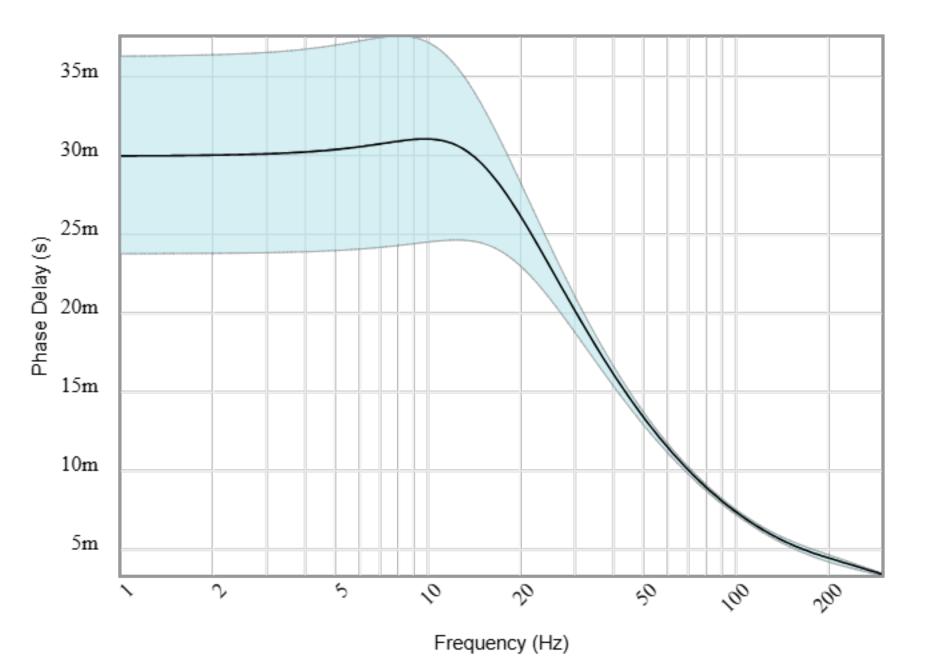


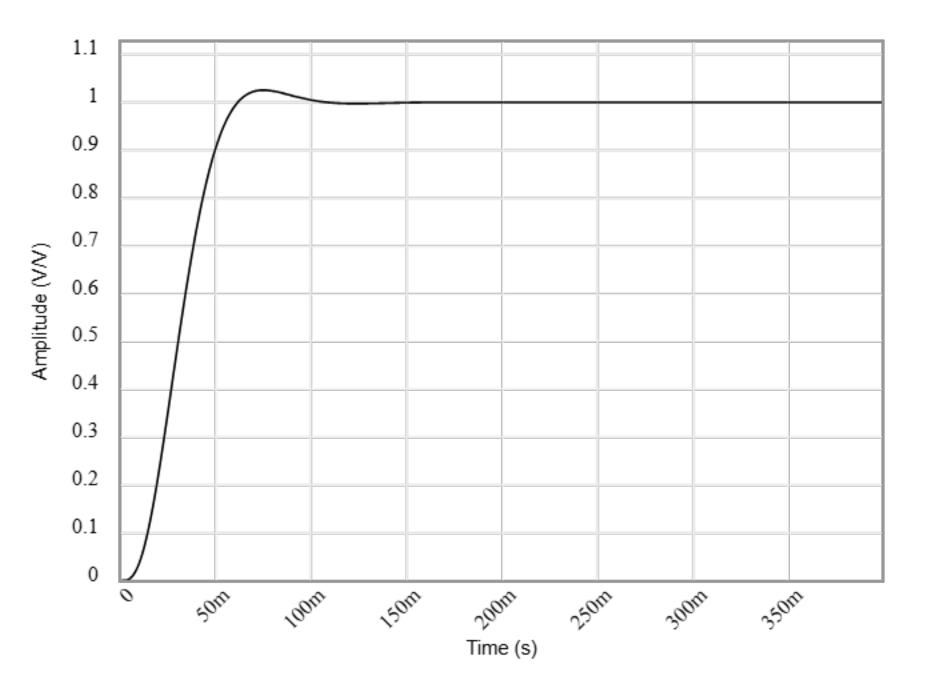
Frequency (Hz)



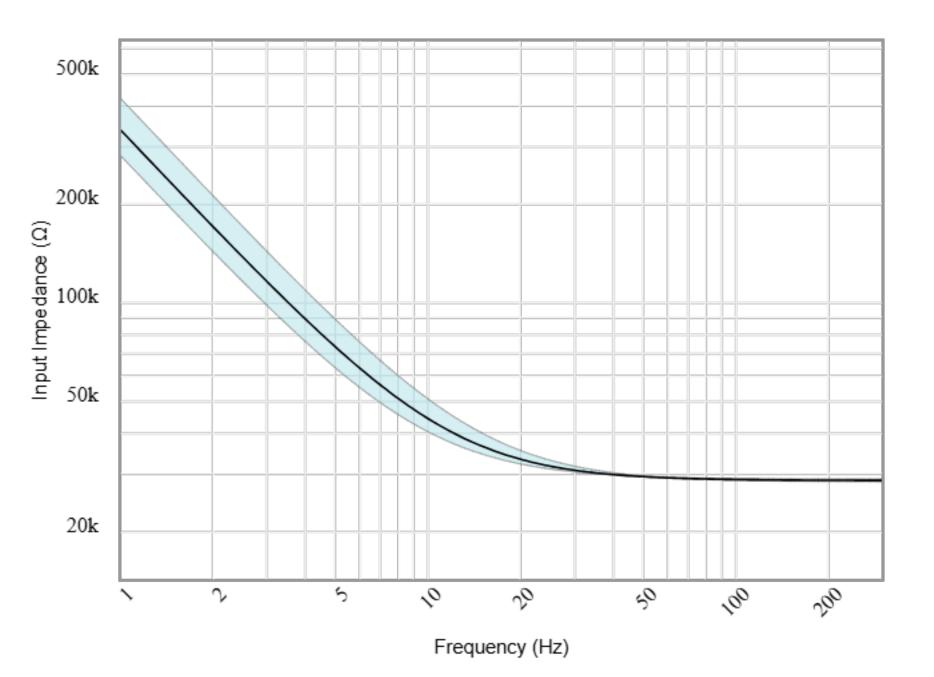
Group Delay



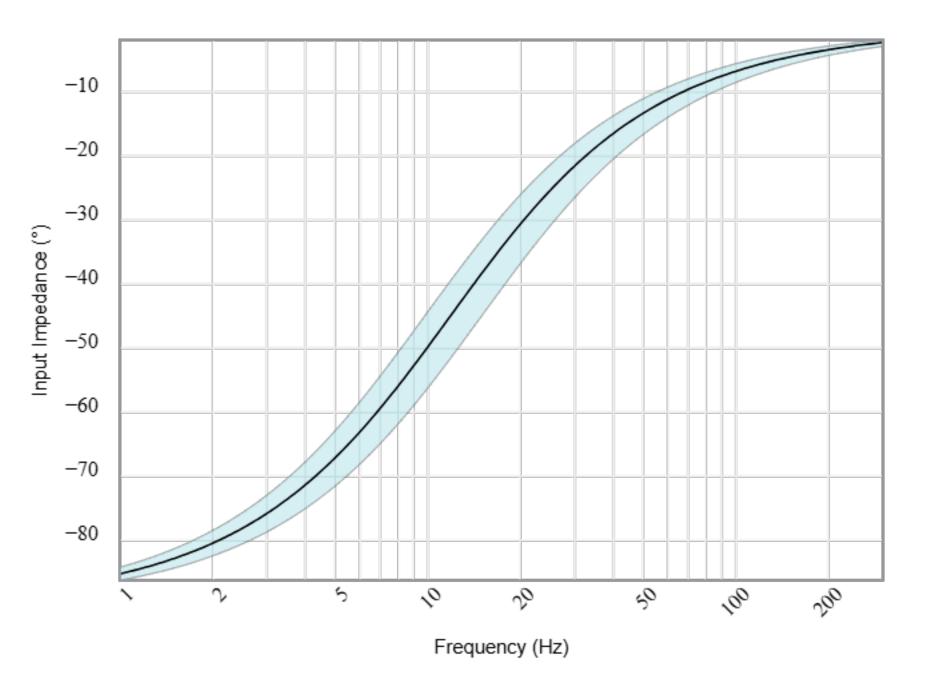


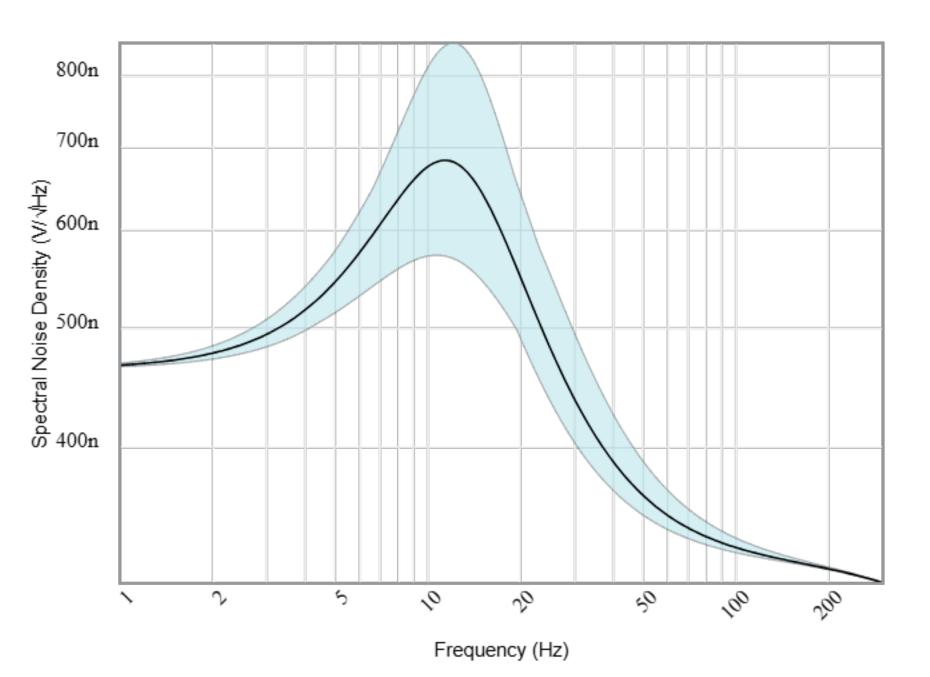


Input Impedance Magnitude



Input Impedance Phase



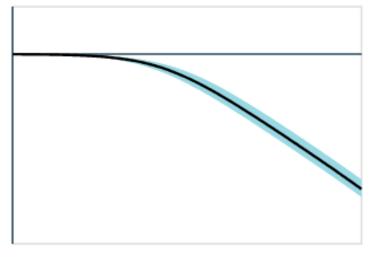


Your filter requires 2 op amp stage(s) with the following characteristics



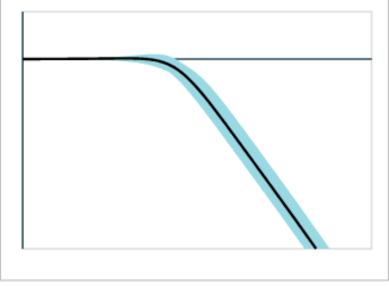
Gain (V/V): f_p (Hz): Q:

larget	Simulated	
1	1 to 1	
11.9	9.73 to 14.9	
N/A	N/A to N/A	

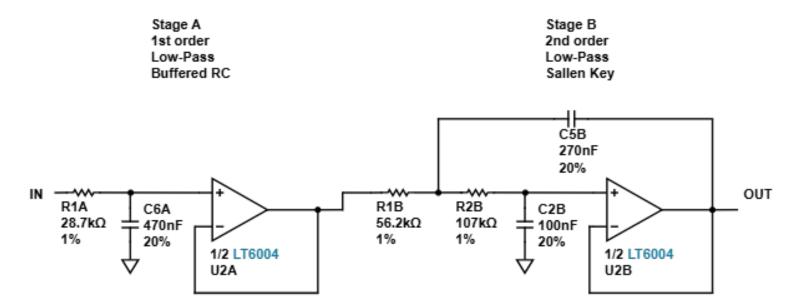




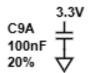
Target	Simulated	
1	1 to 1	
12.6	10.3 to 15.7	
781m	639m to 964m	



Circuit



BYPASS CAPACITORS



C0A -3.3V 100nF T C9B 100nF 20% C0B -3.3V 100nF V 3.3V C101M ⊥+ 10µF Ţ 20% -3.3V C100M ↓ 10µF ☐ 20% ↓ SPARES Why The Spares?

