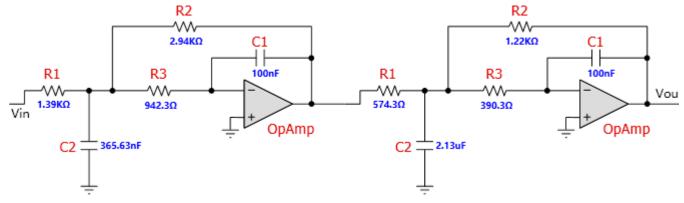
FilterPro Design Report Schematic

Design Name: Lowpass, Multiple Feedback, Butterworth Part: Ideal Opamp Order: 4 Stages: 2

Gain: 4.5 V/V (13.0616267406625 dB)

Allowable PassBand Ripple: 1 dB Passband Frequency: 500 Hz

Corner Frequency Attenuation: 10.062 dB



2

Filter Stage: 1 Filter Stage:

Passband Gain(Ao): 2.121 Passband Gain(Ao): 2.121

Cutoff Frequency(fn): 500 Hz Cutoff Frequency(fn): 500 Hz

QualityFactor (Q): 0.54 QualityFactor (Q): 1.31

Filter Response: Butterworth Filter Response: Butterworth

Circuit Topology: MultipleFeedback Circuit Topology: MultipleFeedback

Min GBW reqd.: 57.267 kHz Min GBW reqd.: 138.9255 kHz

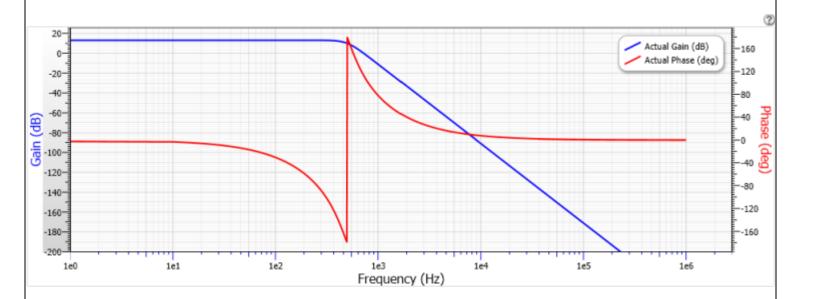
FilterPro Design Report Frequency and Phase Responses

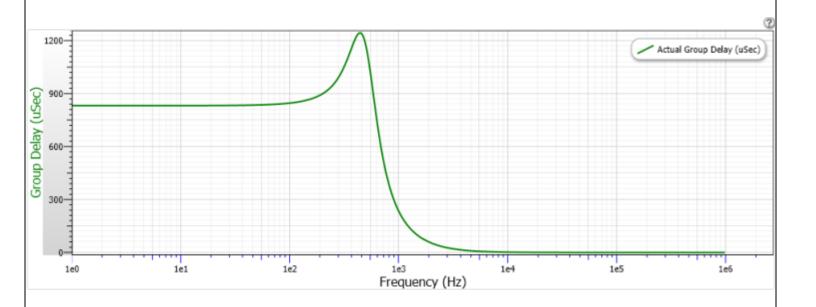
Design Name: Lowpass, Multiple Feedback, Butterworth **Part:** Ideal Opamp **Order:** 4 **Stages:** 2

Gain: 4.5 V/V (13.0616267406625 dB)

Allowable PassBand Ripple: 1 dB Passband Frequency: 500 Hz

Corner Frequency Attenuation: 10.062 dB





FilterPro Design Report Bill of Materials

Design Name: Lowpass, Multiple Feedback, Butterworth Part: Ideal Opamp Order: 4 Stages: 2

Gain: 4.5 V/V (13.0616267406625 dB)

Allowable PassBand Ripple: 1 dB Passband Frequency: 500 Hz

Corner Frequency Attenuation: 10.062 dB

Element ID	Quantity	Part Number	Value	Tolerance	Description	Manufacturer
R1 (Stage 1)	1	Standard	1.39ΚΩ	Exact: 0%	Resistor	
R2 (Stage 1)	1	Standard	2.94ΚΩ	Exact: 0%	Resistor	
R3 (Stage 1)	1	Standard	942.3Ω	Exact: 0%	Resistor	
C1 (Stage 1)	1	Standard	100nF	Exact: 0%	Capacitor	
C2 (Stage 1)	1	Standard	365.63nF	Exact: 0%	Capacitor	
OpAmp (Stage 1)	1	Standard			ldeal OpAmp	
R1 (Stage 2)	1	Standard	574.3Ω	Exact: 0%	Resistor	
R2 (Stage 2)	1	Standard	1.22ΚΩ	Exact: 0%	Resistor	
R3 (Stage 2)	1	Standard	390.3Ω	Exact: 0%	Resistor	
C1 (Stage 2)	1	Standard	100nF	Exact: 0%	Capacitor	
C2 (Stage 2)	1	Standard	2.13uF	Exact: 0%	Capacitor	
OpAmp (Stage 2)	1	Standard			ldeal OpAmp	

FilterPro Design Report Design Notes							
Design Name: Lowpass, Multiple Feedback, B. Gain: 4.5 V/V (13.0616267406625 dB) Corner Frequency Attenuation: 10.062 dB	utterworth Part: Ideal Opamp Order: 4 Stages: 2 Allowable PassBand Ripple: 1 dB Passband Frequency: 500 Hz						