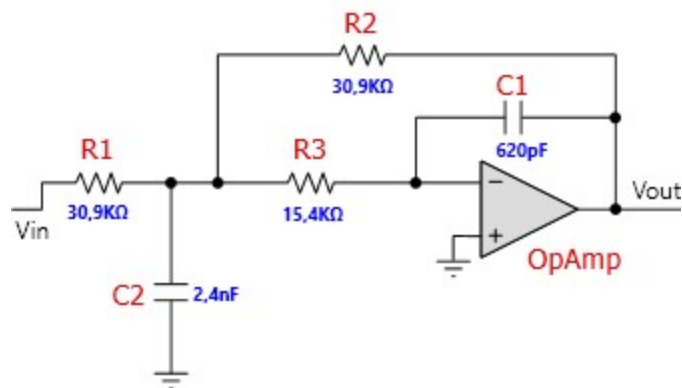


## FilterPro Design Report Schematic

**Design Name:** Lowpass, Multiple Feedback, Butterworth **Part:** Ideal Opamp **Order:** 2 **Stages:** 1  
**Gain:** 1 V/V ( 0 dB) **Allowable PassBand Ripple:** 2 dB **Passband Frequency:** 6 kHz  
**Corner Frequency Attenuation:** -3 dB **Stopband Attenuation:** -35 dB **Stopband Frequency:** 48 kHz

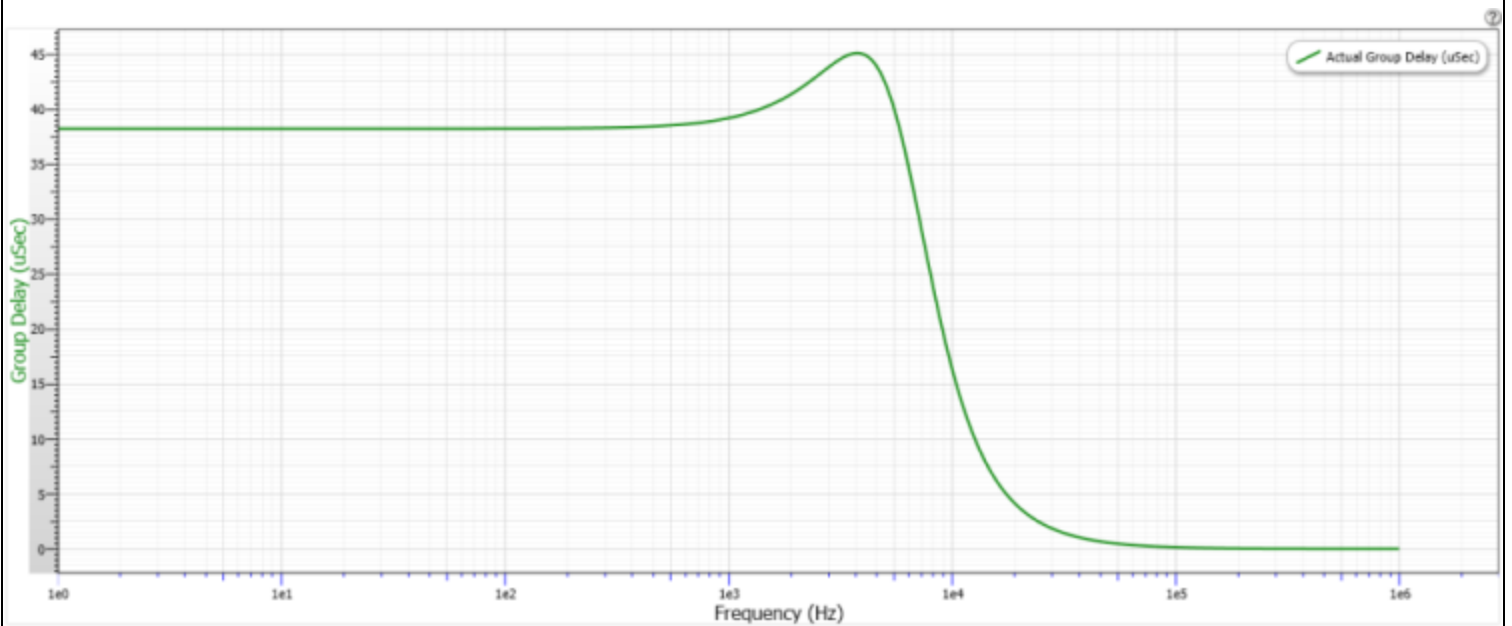
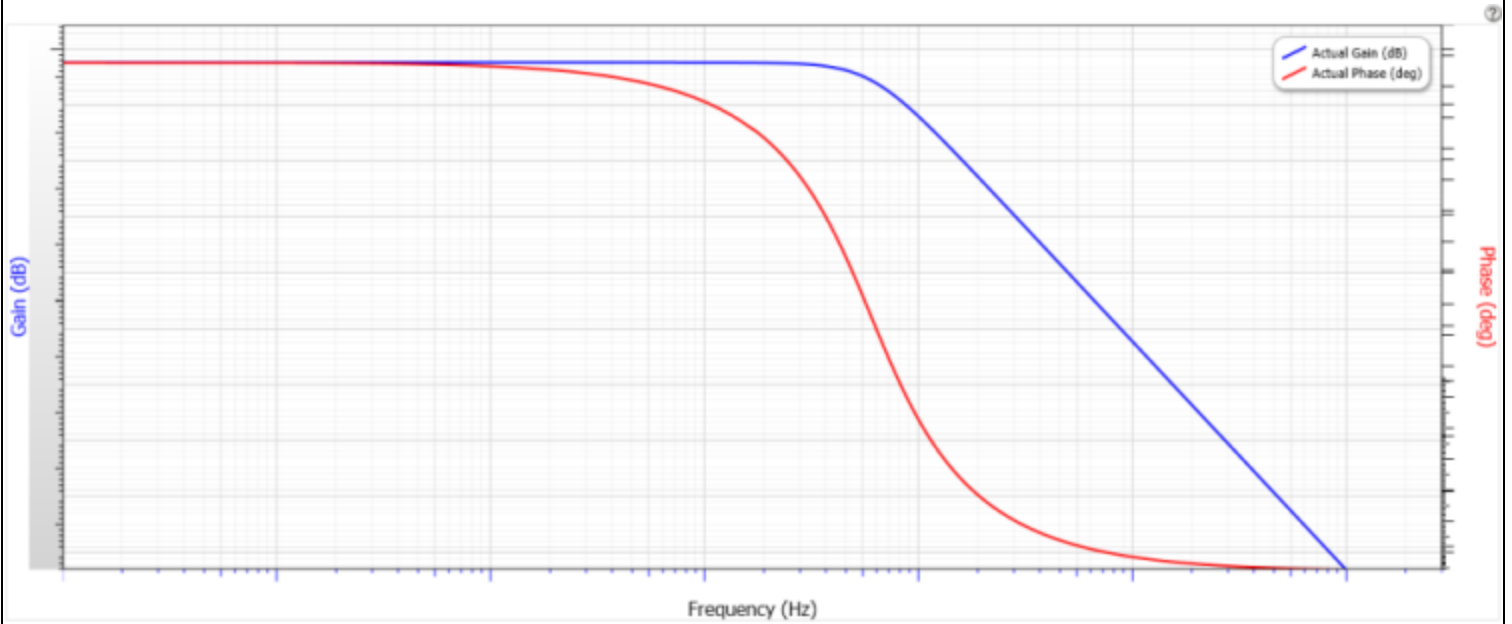


Filter Stage:	1
Passband Gain( $A_o$ ) :	1
Cutoff Frequency( $f_n$ ):	6 kHz
QualityFactor (Q):	0,71
Filter Response:	Butterworth
Circuit Topology:	MultipleFeedback
Min GBW reqd.:	426 kHz

# FilterPro Design Report

## Frequency and Phase Responses

**Design Name:** Lowpass, Multiple Feedback, Butterworth **Part:** Ideal Opamp **Order:** 2 **Stages:** 1  
**Gain:** 1 V/V (0 dB) **Allowable PassBand Ripple:** 2 dB **Passband Frequency:** 6 kHz  
**Corner Frequency Attenuation:** -3 dB **Stopband Attenuation:** -35 dB **Stopband Frequency:** 48 kHz



## FilterPro Design Report

### Bill of Materials

**Design Name:** Lowpass, Multiple Feedback, Butterworth **Part:** Ideal Opamp **Order:** 2 **Stages:** 1  
**Gain:** 1 V/V ( 0 dB) **Allowable PassBand Ripple:** 2 dB **Passband Frequency:** 6 kHz  
**Corner Frequency Attenuation:** -3 dB **Stopband Attenuation:** -35 dB **Stopband Frequency:** 48 kHz

Element ID	Quantity	Part Number	Value	Tolerance	Description	Manufacturer
R1 (Stage 1)	1	Standard	30,9K $\Omega$	E96: 1%	Resistor	
R2 (Stage 1)	1	Standard	30,9K $\Omega$	E96: 1%	Resistor	
R3 (Stage 1)	1	Standard	15,4K $\Omega$	E96: 1%	Resistor	
C1 (Stage 1)	1	Standard	620pF	E24: 5%	Capacitor	
C2 (Stage 1)	1	Standard	2,4nF	E24: 5%	Capacitor	
OpAmp (Stage 1)	1	Standard			Ideal OpAmp	

## FilterPro Design Report

### Design Notes

**Design Name:** Lowpass, Multiple Feedback, Butterworth **Part:** Ideal Opamp **Order:** 2 **Stages:** 1  
**Gain:** 1 V/V ( 0 dB) **Allowable PassBand Ripple:** 2 dB **Passband Frequency:** 6 kHz  
**Corner Frequency Attenuation:** -3 dB **Stopband Attenuation:** -35 dB **Stopband Frequency:** 48 kHz