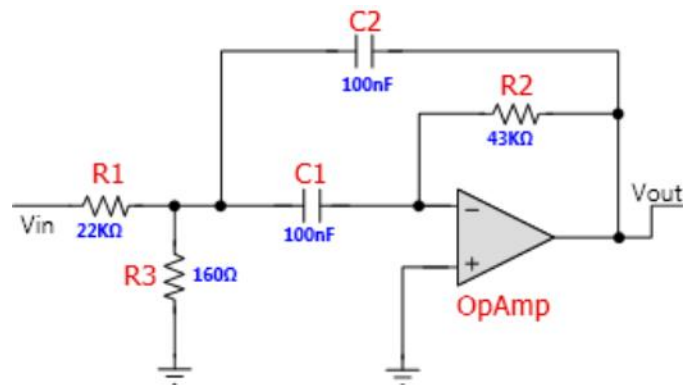


# FilterPro Design Report

## Schematic

**Design Name:** Bandpass, Multiple\_Feedback, Butterworth **Part:** Ideal Opamp **Order:** 2 **Stages:** 1  
**Gain:** 1 V/V (0 dB) **Allowable PassBand Ripple:** 1 dB **Center Frequency:** 600 Hz  
**Corner Frequency Attenuation:** -3 dB **Passband Bandwidth:** 75 Hz

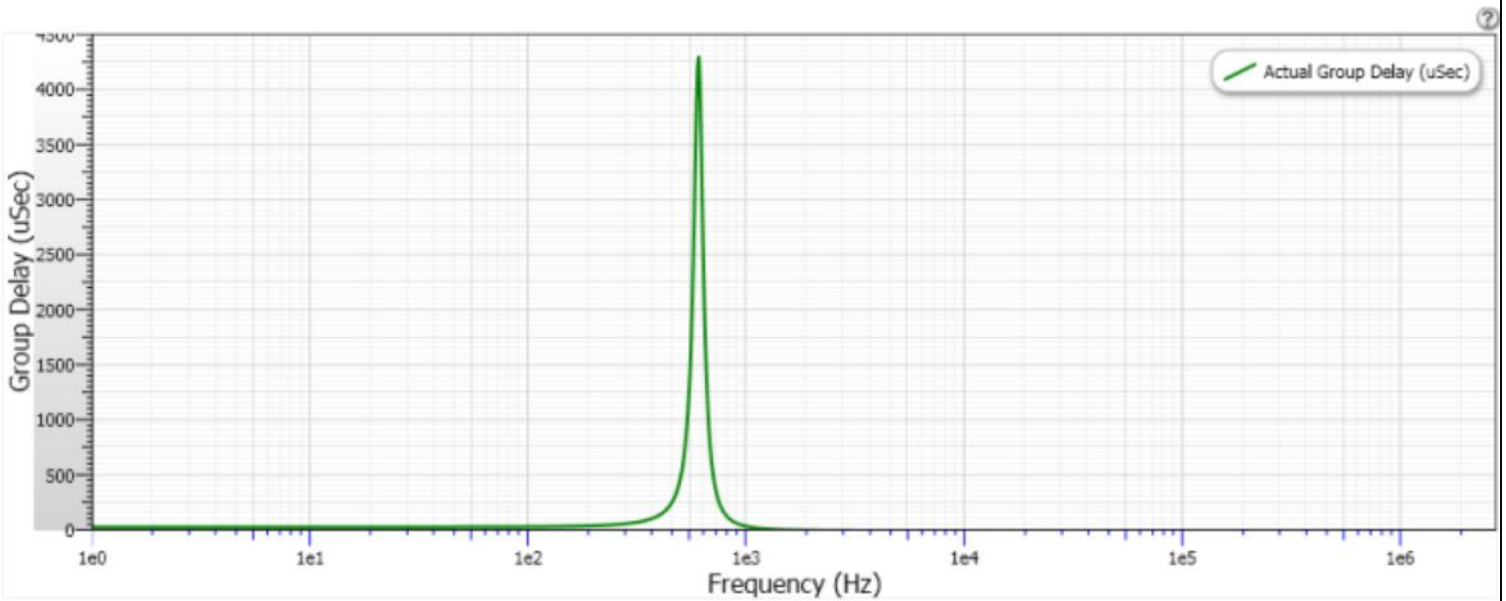
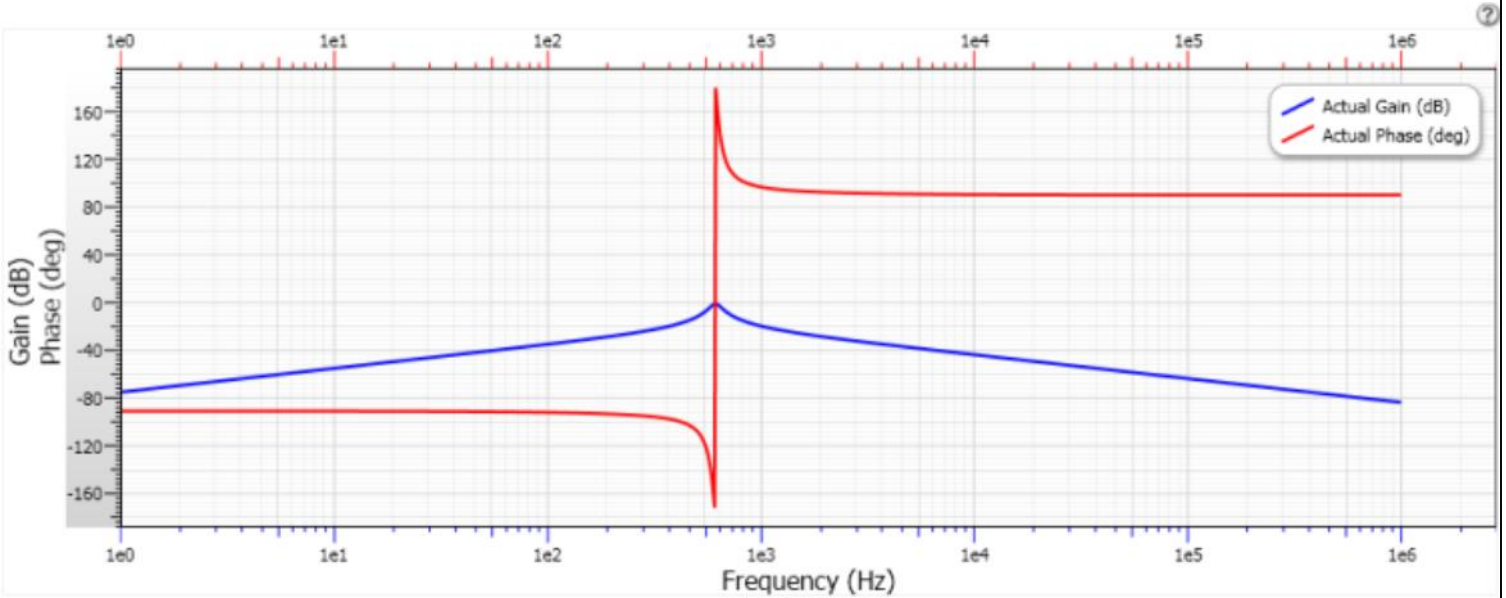


Filter Stage: 1  
Passband Gain(Ao) : 1  
Center Frequency (fo): 600 Hz  
QualityFactor (Q): 8  
Passband BW. (BW): 75 Hz  
Filter Response: Butterworth  
Circuit Topology: MultipleFeedback  
Min GBW reqd.: 480 kHz

# FilterPro Design Report

## Frequency and Phase Responses

**Design Name:** Bandpass, Multiple\_Feedback, Butterworth **Part:** Ideal Opamp **Order:** 2 **Stages:** 1  
**Gain:** 1 V/V (0 dB) **Allowable PassBand Ripple:** 1 dB **Center Frequency:** 600 Hz  
**Corner Frequency Attenuation:** -3 dB **Passband Bandwidth:** 75 Hz



## FilterPro Design Report Bill of Materials

**Design Name:** Bandpass, Multiple\_Feedback, Butterworth **Part:** Ideal Opamp **Order:** 2 **Stages:** 1  
**Gain:** 1 V/V ( 0 dB)      **Allowable PassBand Ripple:** 1 dB      **Center Frequency:** 600 Hz  
**Corner Frequency Attenuation:** -3 dB      **Passband Bandwidth:** 75 Hz

Element ID	Quantity	Part Number	Value	Tolerance	Description	Manufacturer
R1 (Stage 1)	1	Standard	22K $\Omega$	E24: 5%	Resistor	
R2 (Stage 1)	1	Standard	43K $\Omega$	E24: 5%	Resistor	
R3 (Stage 1)	1	Standard	160 $\Omega$	E24: 5%	Resistor	
C1 (Stage 1)	1	Standard	100nF	E24: 5%	Capacitor	
C2 (Stage 1)	1	Standard	100nF	E24: 5%	Capacitor	
OpAmp (Stage 1)	1	Standard			Ideal OpAmp	

# FilterPro Design Report

## Design Notes

**Design Name:** Bandpass, Multiple\_Feedback, Butterworth **Part:** Ideal Opamp **Order:** 2 **Stages:** 1  
**Gain:** 1 V/V (0 dB) **Allowable PassBand Ripple:** 1 dB **Center Frequency:** 600 Hz  
**Corner Frequency Attenuation:** -3 dB **Passband Bandwidth:** 75 Hz