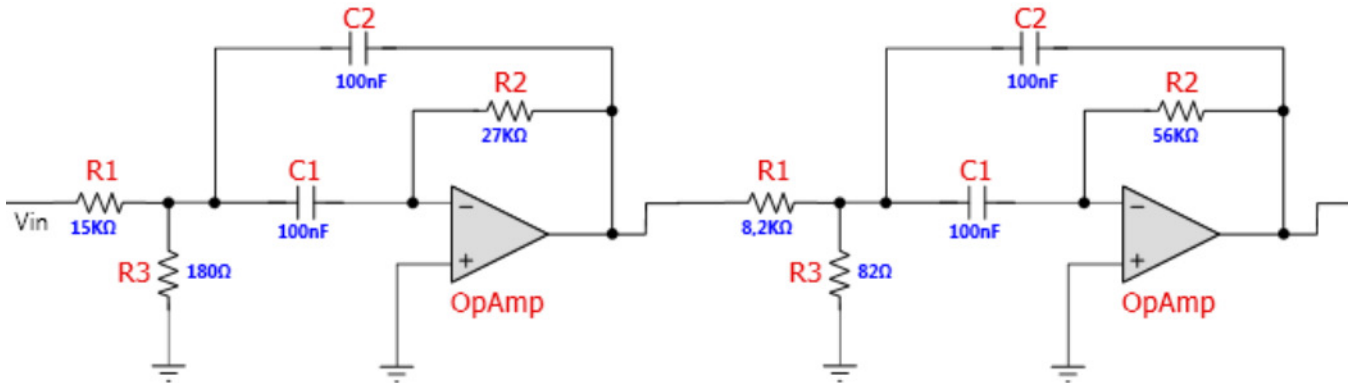


# FilterPro Design Report

## Schematic

**Design Name:** Bandpass, Multiple Feedback, Chebyshev 0,5 dB    **Part:** Ideal Opamp    **Order:** 6 Stages: 3  
**Gain:** 1 V/V ( 0 dB)    **Allowable PassBand Ripple:** 1 dB    **Center Frequency:** 800 Hz  
**Corner Frequency Attenuation:** 0 dB    **Passband Bandwidth:** 200 Hz



Filter Stage: 1

Passband Gain(Ao) : 1

Center Frequency (fo): 800 Hz

QualityFactor (Q): 6,385

Passband BW. (BW): 125,291 Hz

Filter Response: Chebyshev05dB

Circuit Topology: MultipleFeedback

Min GBW reqd.: 510,8 kHz

Filter Stage: 2

Passband Gain(Ao) : 1

Center Frequency (fo): 704,241 Hz

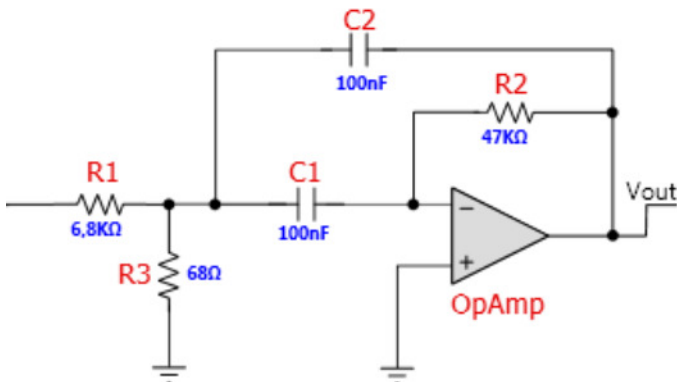
QualityFactor (Q): 12,874

Passband BW. (BW): 54,702 Hz

Filter Response: Chebyshev05dB

Circuit Topology: MultipleFeedback

Min GBW reqd.: 906,6399 kHz



Filter Stage: 3

Passband Gain(Ao) : 1

Center Frequency (fo): 908,78 Hz

QualityFactor (Q): 12,874

Passband BW. (BW): 70,589 Hz

Filter Response: Chebyshev05dB

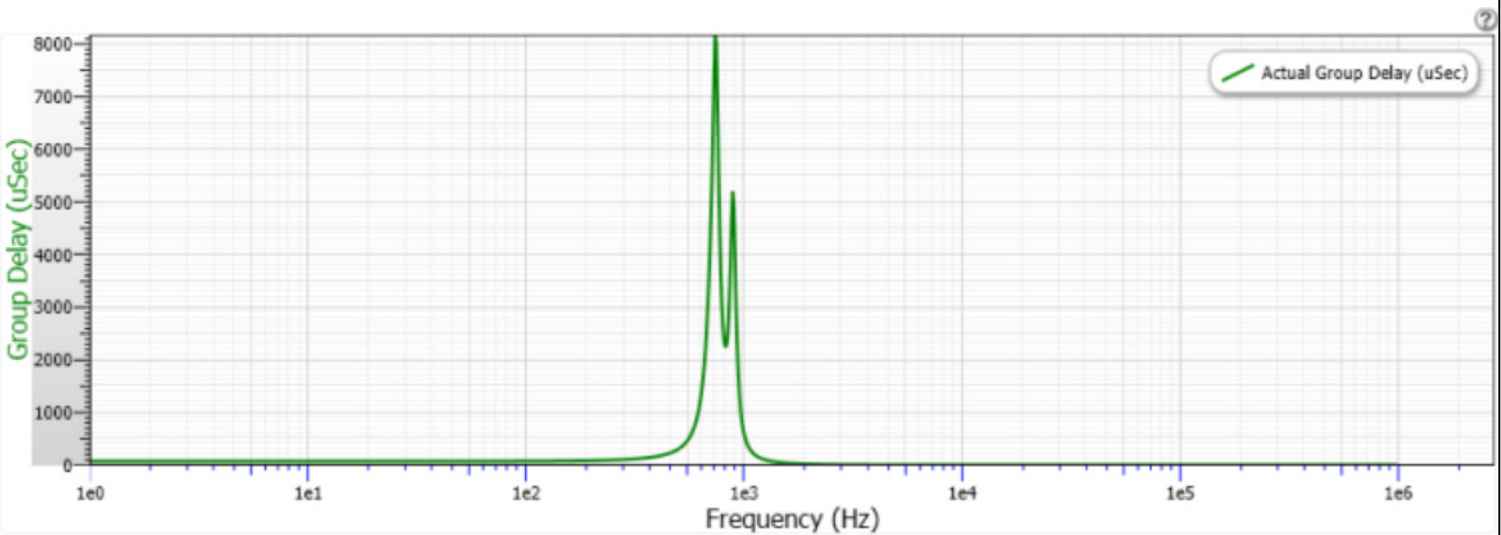
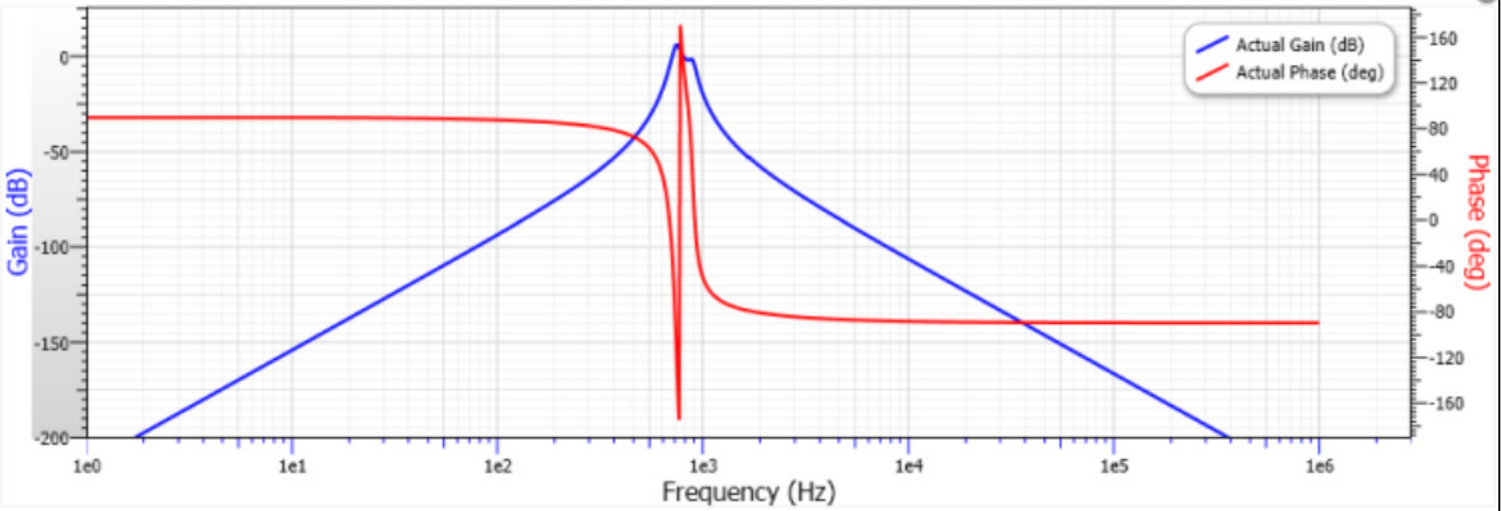
Circuit Topology: MultipleFeedback

Min GBW reqd.: 1,17 MHz

# FilterPro Design Report

## Frequency and Phase Responses

**Design Name:** Bandpass, Multiple Feedback, Chebyshev 0,5 dB    **Part:** Ideal Opamp    **Order:** 6 Stages: 3  
**Gain:** 1 V/V (0 dB)    **Allowable PassBand Ripple:** 1 dB    **Center Frequency:** 800 Hz  
**Corner Frequency Attenuation:** 0 dB    **Passband Bandwidth:** 200 Hz



## FilterPro Design Report Bill of Materials

**Design Name:** Bandpass, Multiple Feedback, Chebyshev 0,5 dB    **Part:** Ideal Opamp    **Order:** 6    **Stages:** 3  
**Gain:** 1 V/V ( 0 dB)    **Allowable PassBand Ripple:** 1 dB    **Center Frequency:** 800 Hz  
**Corner Frequency Attenuation:** 0 dB    **Passband Bandwidth:** 200 Hz

Element ID	Quantity	Part Number	Value	Tolerance	Description	Manufacturer
R1 (Stage 1)	1	Standard	15K $\Omega$	E12: 10%	Resistor	
R2 (Stage 1)	1	Standard	27K $\Omega$	E12: 10%	Resistor	
R3 (Stage 1)	1	Standard	180 $\Omega$	E12: 10%	Resistor	
C1 (Stage 1)	1	Standard	100nF	E12: 10%	Capacitor	
C2 (Stage 1)	1	Standard	100nF	E12: 10%	Capacitor	
OpAmp (Stage 1)	1	Standard			Ideal OpAmp	
R1 (Stage 2)	1	Standard	8,2K $\Omega$	E12: 10%	Resistor	
R2 (Stage 2)	1	Standard	56K $\Omega$	E12: 10%	Resistor	
R3 (Stage 2)	1	Standard	82 $\Omega$	E12: 10%	Resistor	
C1 (Stage 2)	1	Standard	100nF	E12: 10%	Capacitor	
C2 (Stage 2)	1	Standard	100nF	E12: 10%	Capacitor	
OpAmp (Stage 2)	1	Standard			Ideal OpAmp	
R1 (Stage 3)	1	Standard	6,8K $\Omega$	E12: 10%	Resistor	
R2 (Stage 3)	1	Standard	47K $\Omega$	E12: 10%	Resistor	
R3 (Stage 3)	1	Standard	68 $\Omega$	E12: 10%	Resistor	
C1 (Stage 3)	1	Standard	100nF	E12: 10%	Capacitor	
C2 (Stage 3)	1	Standard	100nF	E12: 10%	Capacitor	
OpAmp (Stage 3)	1	Standard			Ideal OpAmp	

# FilterPro Design Report

## Design Notes

**Design Name:** Bandpass, Multiple Feedback, Chebyshev 0,5 dB    **Part:** Ideal Opamp    **Order:** 6    **Stages:** 3  
**Gain:** 1 V/V ( 0 dB)    **Allowable PassBand Ripple:** 1 dB    **Center Frequency:** 800 Hz  
**Corner Frequency Attenuation:** 0 dB    **Passband Bandwidth:** 200 Hz