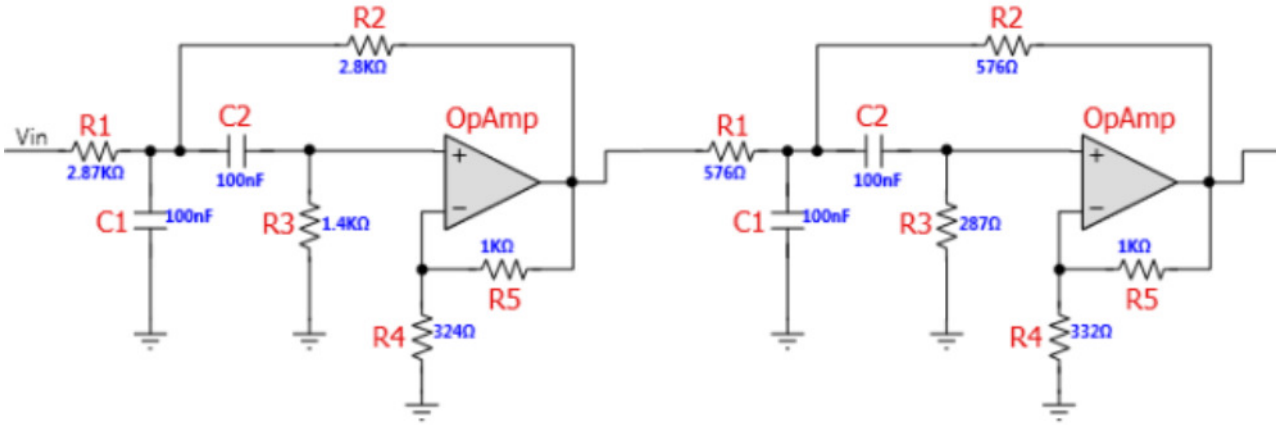
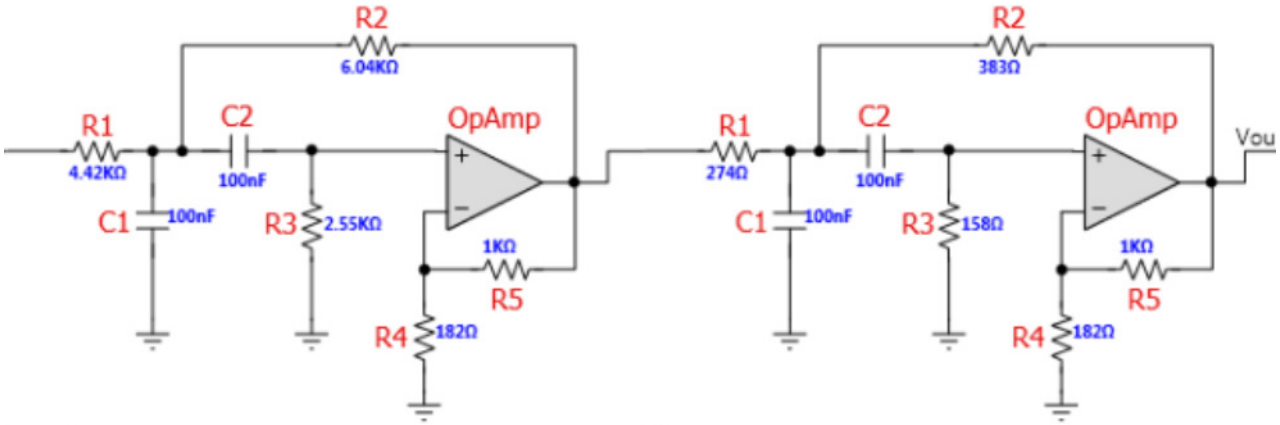
FilterPro Design Report
Schematic

Design Name: Bandpass, Sallen Key, Chebyshev 1 dB **Part:** Ideal Opamp **Order:** 8 **Stages:** 4
Gain: 1 V/V (0 dB) **Allowable PassBand Ripple:** 1 dB **Center Frequency:** 2.5 kHz
Corner Frequency Attenuation: 0 dB **Passband Bandwidth:** 9.5 kHz



Filter Stage:	1
Passband Gain(Ao) :	1
Center Frequency (fo):	1.1283 kHz
QualityFactor (Q):	1.042
Passband BW. (BW):	1.0831 kHz
Filter Response:	Chebyshev1dB
Circuit Topology:	SallenKey
Min GBW reqd.:	117.5703 kHz

Filter Stage:	2
Passband Gain(Ao) :	1
Center Frequency (fo):	5.5392 kHz
QualityFactor (Q):	1.042
Passband BW. (BW):	5.3174 kHz
Filter Response:	Chebyshev1dB
Circuit Topology:	SallenKey
Min GBW reqd.:	577.1888 kHz

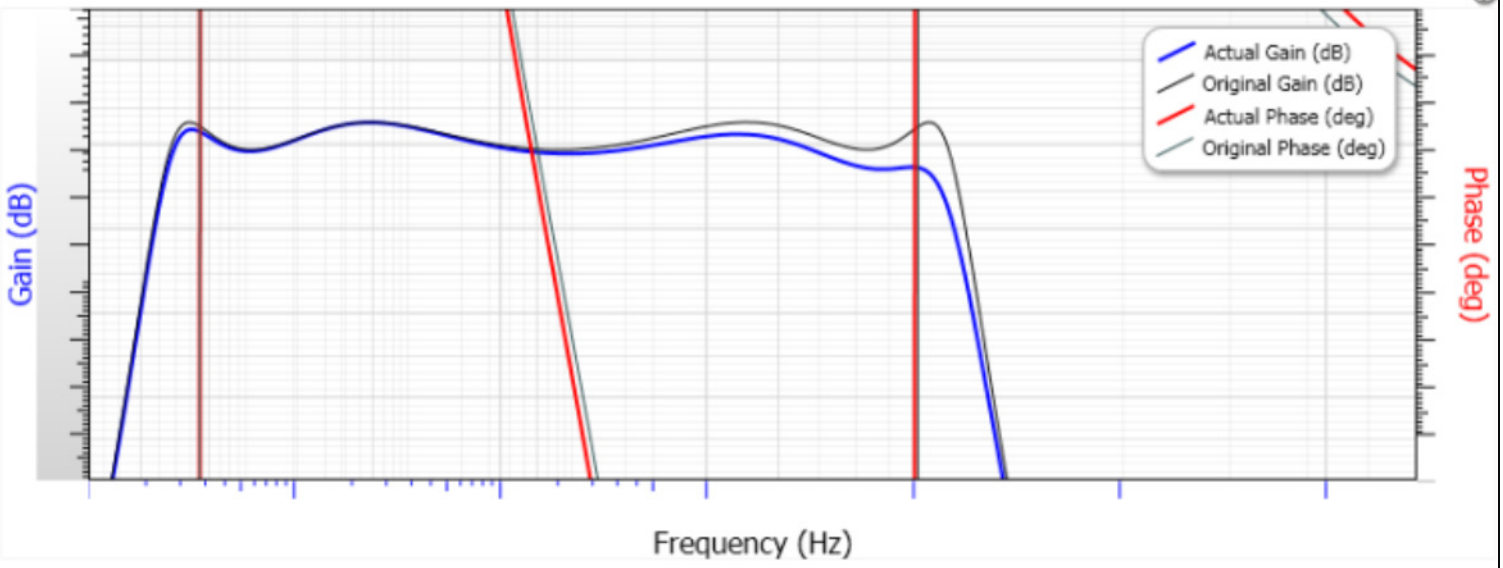


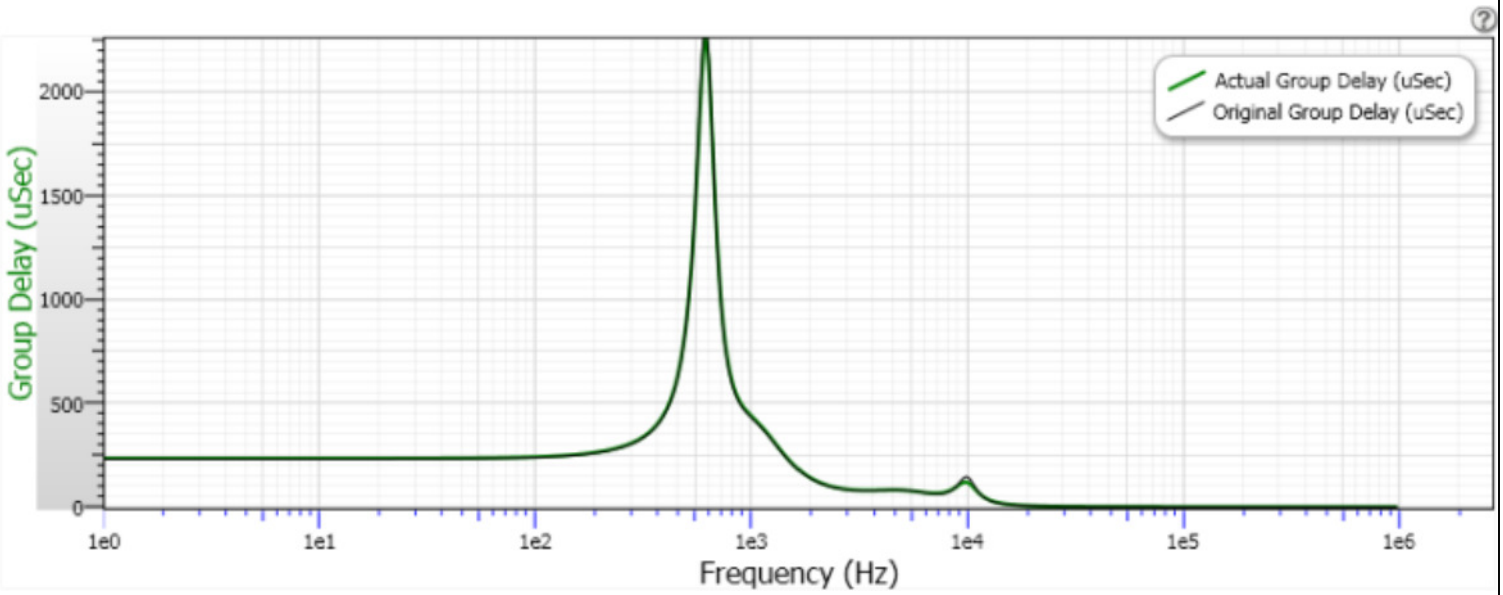
Filter Stage:	3
Passband Gain(Ao) :	1
Center Frequency (fo):	622.645 Hz
QualityFactor (Q):	4.021
Passband BW. (BW):	154.848 Hz
Filter Response:	Chebyshev1dB
Circuit Topology:	SallenKey
Min GBW reqd.:	250.3656 kHz

Filter Stage:	4
Passband Gain(Ao) :	1
Center Frequency (fo):	10.0378 kHz
QualityFactor (Q):	4.021
Passband BW. (BW):	2.4963 kHz
Filter Response:	Chebyshev1dB
Circuit Topology:	SallenKey
Min GBW reqd.:	4.0362 MHz

FilterPro Design Report
Frequency and Phase Responses

Design Name: Bandpass, Sallen Key, Chebyshev 1 dB **Part:** Ideal Opamp **Order:** 8 **Stages:** 4
Gain: 1 V/V (0 dB) **Allowable PassBand Ripple:** 1 dB **Center Frequency:** 2.5 kHz
Corner Frequency Attenuation: 0 dB **Passband Bandwidth:** 9.5 kHz





FilterPro Design Report
Bill of Materials

Design Name: Bandpass, Sallen Key, Chebyshev 1 dB **Part:** Ideal Opamp **Order:** 8 **Stages:** 4
Gain: 1 V/V (0 dB) **Allowable PassBand Ripple:** 1 dB **Center Frequency:** 2.5 kHz
Corner Frequency Attenuation: 0 dB **Passband Bandwidth:** 9.5 kHz

Element ID	Quantity	Part Number	Value	Tolerance	Description	Manufacturer
R1 (Stage 1)	1	Standard	2.87KΩ	E96: 1%	Resistor	
R2 (Stage 1)	1	Standard	2.8KΩ	E96: 1%	Resistor	
R3 (Stage 1)	1	Standard	1.4KΩ	E96: 1%	Resistor	
C1 (Stage 1)	1	Standard	100nF	E96: 1%	Capacitor	
C2 (Stage 1)	1	Standard	100nF	E96: 1%	Capacitor	
R4 (Stage 1)	1	Standard	324Ω	E96: 1%	Resistor	
R5 (Stage 1)	1	Standard	1KΩ	E96: 1%	Resistor	
OpAmp (Stage 1)	1	Standard			Ideal OpAmp	
R1 (Stage 2)	1	Standard	576Ω	E96: 1%	Resistor	
R2 (Stage 2)	1	Standard	576Ω	E96: 1%	Resistor	
R3 (Stage 2)	1	Standard	287Ω	E96: 1%	Resistor	
C1 (Stage 2)	1	Standard	100nF	E96: 1%	Capacitor	
C2 (Stage 2)	1	Standard	100nF	E96: 1%	Capacitor	
R4 (Stage 2)	1	Standard	332Ω	E96: 1%	Resistor	
R5 (Stage 2)	1	Standard	1KΩ	E96: 1%	Resistor	
OpAmp (Stage 2)	1	Standard			Ideal OpAmp	
R1 (Stage 3)	1	Standard	4.42KΩ	E96: 1%	Resistor	
R2 (Stage 3)	1	Standard	6.04KΩ	E96: 1%	Resistor	
R3 (Stage 3)	1	Standard	2.55KΩ	E96: 1%	Resistor	
C1 (Stage 3)	1	Standard	100nF	E96: 1%	Capacitor	
C2 (Stage 3)	1	Standard	100nF	E96: 1%	Capacitor	
R4 (Stage 3)	1	Standard	182Ω	E96: 1%	Resistor	
R5 (Stage 3)	1	Standard	1KΩ	E96: 1%	Resistor	
OpAmp (Stage 3)	1	Standard			Ideal OpAmp	
R1 (Stage 4)	1	Standard	274Ω	E96: 1%	Resistor	
R2 (Stage 4)	1	Standard	383Ω	E96: 1%	Resistor	
R3 (Stage 4)	1	Standard	158Ω	E96: 1%	Resistor	
C1 (Stage 4)	1	Standard	100nF	E96: 1%	Capacitor	
C2 (Stage 4)	1	Standard	100nF	E96: 1%	Capacitor	
R4 (Stage 4)	1	Standard	182Ω	E96: 1%	Resistor	
R5 (Stage 4)	1	Standard	1KΩ	E96: 1%	Resistor	
OpAmp (Stage 4)	1	Standard			Ideal OpAmp	

FilterPro Design Report
Design Notes

Design Name: Bandpass, Sallen Key, Chebyshev 1 dB **Part:** Ideal Opamp **Order:** 8 **Stages:** 4
Gain: 1 V/V (0 dB) **Allowable PassBand Ripple:** 1 dB **Center Frequency:** 2.5 kHz
Corner Frequency Attenuation: 0 dB **Passband Bandwidth:** 9.5 kHz