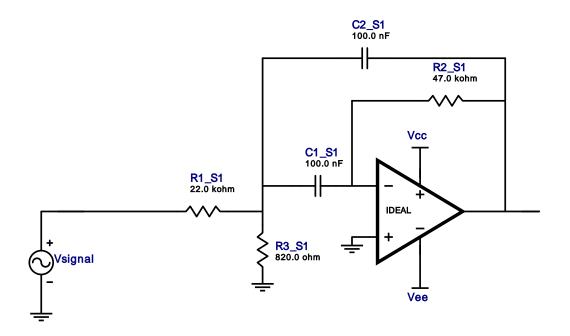
Type: Bandpass Response : Butterworth Order : 2

Number of Stages: 1

Filter Design Report

Design: Bandpass Filter - 2nd order Butterworth

Design ID: 28

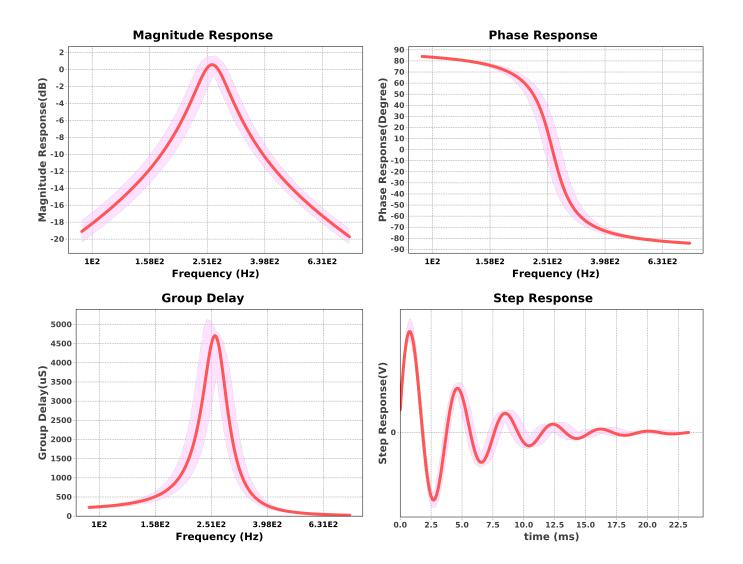


Electrical BOM

# Name	Manufacturer	Part Number	Properties	Qty
1. A1_S1	Texas Instruments Inc.	IDEAL	GbwTyp= 0MHz VccMax= 0V VccMin= 0V	1
2. C1_S1	Generic	Ideal	Cap= 100.0 nF Tolerance= 5.0 %	1
3. C2_S1	Generic	Ideal	Cap= 100.0 nF Tolerance= 5.0 %	1
4. R1_S1	Generic	Ideal	Res= 22000.0ohm Tolerance= 5%	1
5. R2_S1	Generic	Ideal	Res= 47000.0ohm Tolerance= 5%	1
6. R3_S1	Generic	Ideal	Res= 820.0ohm Tolerance= 5%	1

Sensitivity Analysis

#	Name	Series	Tolerance
1.	Сар	E24	5%
2.	Res	E24	5%



Design Inputs

	0 1		
#	Name	Value	Description
1.	FilterType	bandpass	
2.	FilterResponse	Butterworth	
3.	FilterOrder	2.0	
4.	FilterTopology	Multiple Feedback	
5.	NumberOfStages	1.0	
6.	CenterFrequency	270.0	
7.	StopbandAttenuation	-20.043	
8.	PassbandBandwidth	70.0	
9.	StopbandBandwidth	700.0	
10.	Gain	1.0	
11.	DualSupply	+/-15.00 V	Power supply(s) to active chips
12.	ResistorTolerance	E24	Resistor series - 5% Passive resistor tolerance
13.	CapacitorTolerance	E24	Capacitor series - 5% Passive capacitor tolerance

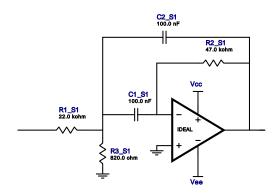
Design Assistance

 ${\bf 1.\,IDEAL\,\,Product\,Folder:\,http://www.ti.com/product/IDEAL:\,contains\,\,the\,\,data\,\,sheet\,\,and\,\,other\,\,resources.}$

Filter Stage :1

Cutoff Frequency 261.102 Hz Min GBW Reqd 104.143 kHz Stage Gain 1.068 V/V Stage Q 3.855

Stage Topology Multiple Feedback



Electrical BOM

#	Name	Manufacturer	Part Number	Properties	Qty
1.	A1_S1	Texas Instruments Inc.	IDEAL	GbwTyp= 0MHz VccMax= 0V VccMin= 0V	1
2.	C1_S1	Generic	Ideal	Cap= 100.0 nF Tolerance= 5.0 %	1
3.	C2_S1	Generic	Ideal	Cap= 100.0 nF Tolerance= 5.0 %	1
4.	R1_S1	Generic	Ideal	Res= 22000.0ohm Tolerance= 5%	1
5.	R2_S1	Generic	Ideal	Res= 47000.0ohm Tolerance= 5%	1
6.	R3_S1	Generic	Ideal	Res= 820.0ohm Tolerance= 5%	1

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