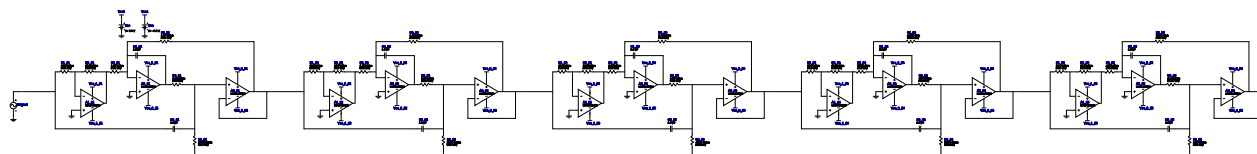


WEBENCH[®] Design Report

Design : 4406513/27 LMC6462BIM
Bandstop, Bainter, Butterworth



My Comments

No comments

Electrical BOM

#	Name	Manufacturer	Part Number	Properties	Qty	Price	Footprint
1.	A1_S1	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
2.	A1_S2	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
3.	A1_S3	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
4.	A1_S4	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
5.	A1_S5	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
6.	A2_S1	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
7.	A2_S2	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
8.	A2_S3	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
9.	A2_S4	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
10.	A2_S5	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
11.	A3_S1	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
12.	A3_S2	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
13.	A3_S3	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
14.	A3_S4	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²

#	Name	Manufacturer	Part Number	Properties	Qty	Price	Footprint
15.	A3_S5	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
16.	C1_S1	CUSTOM	CUSTOM Series= ?	Cap= 1.0 uF VDC= 0.0 V Tolerance= 0.0 %	1	NA	CUSTOM 0 mm ²
17.	C1_S2	CUSTOM	CUSTOM Series= ?	Cap= 1.0 uF VDC= 0.0 V Tolerance= 0.0 %	1	NA	CUSTOM 0 mm ²
18.	C1_S3	CUSTOM	CUSTOM Series= ?	Cap= 1.0 uF VDC= 0.0 V Tolerance= 0.0 %	1	NA	CUSTOM 0 mm ²
19.	C1_S4	CUSTOM	CUSTOM Series= ?	Cap= 1.0 uF VDC= 0.0 V Tolerance= 0.0 %	1	NA	CUSTOM 0 mm ²
20.	C1_S5	CUSTOM	CUSTOM Series= ?	Cap= 1.0 uF VDC= 0.0 V Tolerance= 0.0 %	1	NA	CUSTOM 0 mm ²
21.	C2_S1	CUSTOM	CUSTOM Series= ?	Cap= 1.0 uF VDC= 0.0 V Tolerance= 0.0 %	1	NA	CUSTOM 0 mm ²
22.	C2_S2	CUSTOM	CUSTOM Series= ?	Cap= 1.0 uF VDC= 0.0 V Tolerance= 0.0 %	1	NA	CUSTOM 0 mm ²
23.	C2_S3	CUSTOM	CUSTOM Series= ?	Cap= 1.0 uF VDC= 0.0 V Tolerance= 0.0 %	1	NA	CUSTOM 0 mm ²
24.	C2_S4	CUSTOM	CUSTOM Series= ?	Cap= 1.0 uF VDC= 0.0 V Tolerance= 0.0 %	1	NA	CUSTOM 0 mm ²
25.	C2_S5	CUSTOM	CUSTOM Series= ?	Cap= 1.0 uF VDC= 0.0 V Tolerance= 0.0 %	1	NA	CUSTOM 0 mm ²
26.	R1_S1	Vishay-Dale	CRCW040210K0FKED Series= CRCW..e3	Res= 10.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	 0402 3 mm ²
27.	R1_S2	Vishay-Dale	CRCW040210K0FKED Series= CRCW..e3	Res= 10.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	 0402 3 mm ²
28.	R1_S3	Vishay-Dale	CRCW040210K0FKED Series= CRCW..e3	Res= 10.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	 0402 3 mm ²
29.	R1_S4	Vishay-Dale	CRCW040210K0FKED Series= CRCW..e3	Res= 10.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	 0402 3 mm ²
30.	R1_S5	Vishay-Dale	CRCW040210K0FKED Series= CRCW..e3	Res= 10.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	 0402 3 mm ²
31.	R2_S1	Vishay-Dale	CRCW040210K0FKED Series= CRCW..e3	Res= 10.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	 0402 3 mm ²
32.	R2_S2	Vishay-Dale	CRCW040210K0FKED Series= CRCW..e3	Res= 10.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	 0402 3 mm ²
33.	R2_S3	Vishay-Dale	CRCW040210K0FKED Series= CRCW..e3	Res= 10.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	 0402 3 mm ²
34.	R2_S4	Vishay-Dale	CRCW040210K0FKED Series= CRCW..e3	Res= 10.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	 0402 3 mm ²
35.	R2_S5	Vishay-Dale	CRCW040210K0FKED Series= CRCW..e3	Res= 10.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	 0402 3 mm ²

#	Name	Manufacturer	Part Number	Properties	Qty	Price	Footprint
36.	R3_S1	Vishay-Dale	CRCW04021K87FKED Series= CRCW..e3	Res= 1.87 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	 0402 3 mm²
37.	R3_S2	Vishay-Dale	CRCW04021K78FKED Series= CRCW..e3	Res= 1.78 kOhm Power= 63.0 mW Tolerance= 1.0%	1	NA	 0402 3 mm²
38.	R3_S3	Vishay-Dale	CRCW04021K24FKED Series= CRCW..e3	Res= 1.24 kOhm Power= 63.0 mW Tolerance= 1.0%	1	NA	 0402 3 mm²
39.	R3_S4	Vishay-Dale	CRCW0402732RFKED Series= CRCW..e3	Res= 732.0 Ohm Power= 63.0 mW Tolerance= 1.0%	1	NA	 0402 3 mm²
40.	R3_S5	Vishay-Dale	CRCW0603422RFKEA Series= CRCW..e3	Res= 422.0 Ohm Power= 100.0 mW Tolerance= 1.0%	1	NA	 0603 5 mm²
41.	R4_S1	Vishay-Dale	CRCW04021K87FKED Series= CRCW..e3	Res= 1.87 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	 0402 3 mm²
42.	R4_S2	Vishay-Dale	CRCW04021K24FKED Series= CRCW..e3	Res= 1.24 kOhm Power= 63.0 mW Tolerance= 1.0%	1	NA	 0402 3 mm²
43.	R4_S3	Vishay-Dale	CRCW04021K78FKED Series= CRCW..e3	Res= 1.78 kOhm Power= 63.0 mW Tolerance= 1.0%	1	NA	 0402 3 mm²
44.	R4_S4	Vishay-Dale	CRCW0603412RFKEA Series= CRCW..e3	Res= 412.0 Ohm Power= 100.0 mW Tolerance= 1.0%	1	NA	 0603 5 mm²
45.	R4_S5	Vishay-Dale	CRCW0402750RFKED Series= CRCW..e3	Res= 750.0 Ohm Power= 63.0 mW Tolerance= 1.0%	1	NA	 0402 3 mm²
46.	R5_S1	Vishay-Dale	CRCW04025K36FKED Series= CRCW..e3	Res= 5.36 kOhm Power= 63.0 mW Tolerance= 1.0%	1	NA	 0402 3 mm²
47.	R5_S2	Panasonic	ERJ-6ENF5621V Series= ERJ-6E	Res= 5.62 kOhm Power= 125.0 mW Tolerance= 1.0%	1	\$0.01	 0805 7 mm²
48.	R5_S3	Vishay-Dale	CRCW04028K06FKED Series= CRCW..e3	Res= 8.06 kOhm Power= 63.0 mW Tolerance= 1.0%	1	NA	 0402 3 mm²
49.	R5_S4	Vishay-Dale	CRCW040213K7FKED Series= CRCW..e3	Res= 13.7 kOhm Power= 63.0 mW Tolerance= 1.0%	1	NA	 0402 3 mm²
50.	R5_S5	Panasonic	ERJ-6ENF2432V Series= ERJ-6E	Res= 24.3 kOhm Power= 125.0 mW Tolerance= 1.0%	1	\$0.01	 0805 7 mm²
51.	R6_S1	Vishay-Dale	CRCW0402267KFKED Series= CRCW..e3	Res= 267.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	 0402 3 mm²
52.	R6_S2	Vishay-Dale	CRCW0402280KFKED Series= CRCW..e3	Res= 280.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	NA	 0402 3 mm²
53.	R6_S3	Vishay-Dale	CRCW0402402KFKED Series= CRCW..e3	Res= 402.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	NA	 0402 3 mm²
54.	R6_S4	Vishay-Dale	CRCW0402681KFKED Series= CRCW..e3	Res= 681.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	NA	 0402 3 mm²

#	Name	Manufacturer	Part Number	Properties	Qty	Price	Footprint
55.	R6_S5	Vishay-Dale	CRCW04021M18FKED Series= CRCW..e3	Res= 1.18 MOhm Power= 63.0 mW Tolerance= 1.0%	1	NA	0402 3 mm ²

Design Inputs

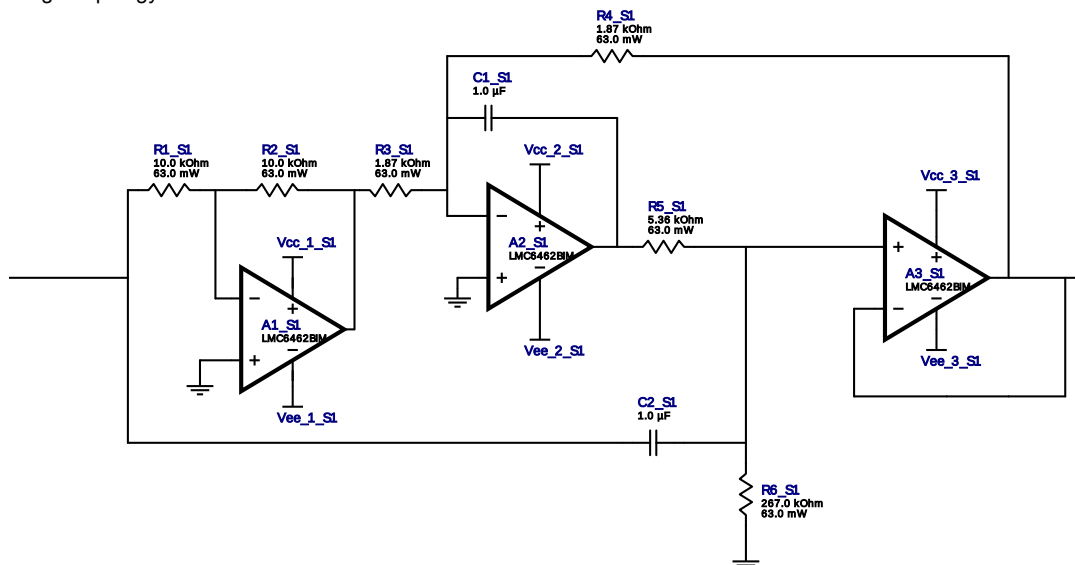
#	Name	Value	Description
1.	FilterType	Bandstop	
2.	FilterResponse	Butterworth	
3.	FilterOrder	10.0	
4.	FilterTopology	Bainter	
5.	NumberOfStages	0.0	
6.	CenterFrequency	50.0	
7.	StopbandAttenuation	-45.0	
8.	PassbandBandwidth	30.0	
9.	StopbandBandwidth	10.0	
10.	Gain	1.0	
11.	DualSupply	+/-5.0 V	Power supply(s) to active chips
12.	ResistorTolerance	E96	Resistor series - 1% Passive resistor tolerance
13.	CapacitorTolerance	E24	Capacitor series - 5% Passive capacitance tolerance
14.	SeedCapacitance	1.0 μ	Seed Capacitance to start design of filter

Design Assistance

1. LMC6462BIM Product Folder : <http://www.ti.com//product/LMC6462> : contains the data sheet and other resources.

Filter Stage :1

Cutoff Frequency 50.0 Hz
 Min GBW Req'd 8.333 kHz
 Stage Gain 1.0 V/V
 Stage Q 1.667
 Stage Topology Bainter



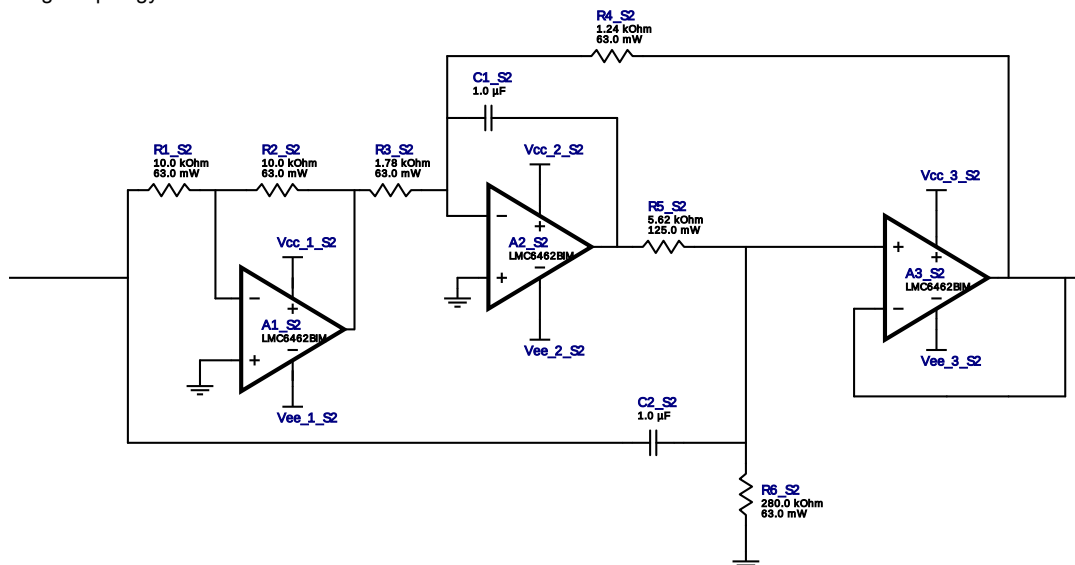
Electrical BOM

#	Name	Manufacturer	Part Number	Properties	Qty	Price	Footprint
1.	A1_S1	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
2.	A2_S1	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
3.	A3_S1	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
4.	C1_S1	CUSTOM	CUSTOM Series= ?	Cap= 1.0 uF VDC= 0.0 V Tolerance= 0.0 %	1	NA	CUSTOM 0 mm ²
5.	C2_S1	CUSTOM	CUSTOM Series= ?	Cap= 1.0 uF VDC= 0.0 V Tolerance= 0.0 %	1	NA	CUSTOM 0 mm ²
6.	R1_S1	Vishay-Dale	CRCW040210K0FKED Series= CRCW..e3	Res= 10.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	0402 3 mm ²
7.	R2_S1	Vishay-Dale	CRCW040210K0FKED Series= CRCW..e3	Res= 10.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	0402 3 mm ²
8.	R3_S1	Vishay-Dale	CRCW04021K87FKED Series= CRCW..e3	Res= 1.87 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	0402 3 mm ²
9.	R4_S1	Vishay-Dale	CRCW04021K87FKED Series= CRCW..e3	Res= 1.87 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	0402 3 mm ²
10.	R5_S1	Vishay-Dale	CRCW04025K36FKED Series= CRCW..e3	Res= 5.36 kOhm Power= 63.0 mW Tolerance= 1.0%	1	NA	0402 3 mm ²

#	Name	Manufacturer	Part Number	Properties	Qty	Price	Footprint
11.	R6_S1	Vishay-Dale	CRCW0402267KFKED Series= CRCW..e3	Res= 267.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	 0402 3 mm ²

Filter Stage :2

Cutoff Frequency 50.0 Hz
 Min GBW Req'd 12.542 kHz
 Stage Gain 1.0 V/V
 Stage Q 2.094
 Stage Topology Bainter



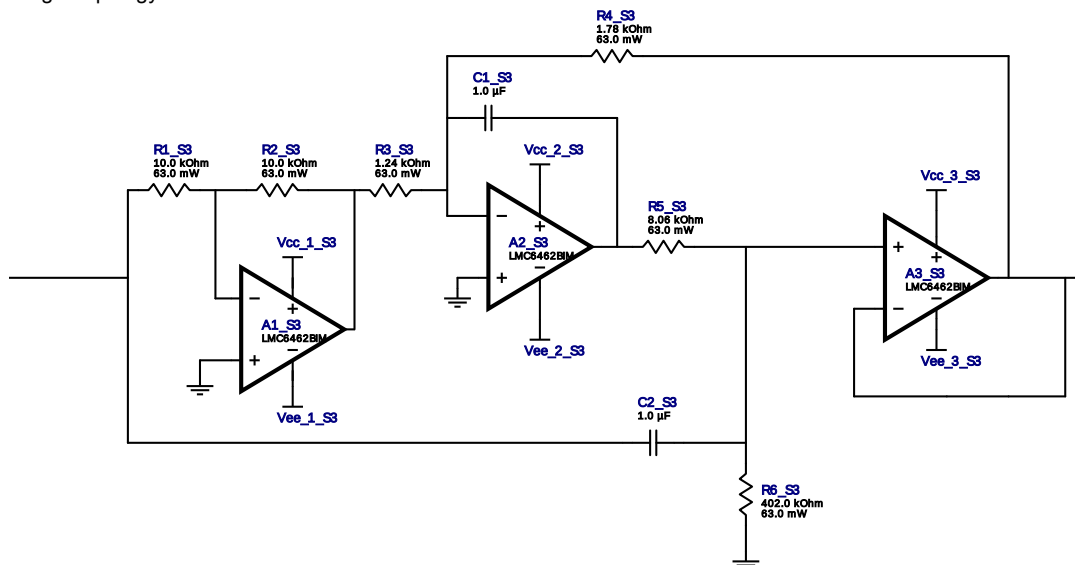
Electrical BOM

#	Name	Manufacturer	Part Number	Properties	Qty	Price	Footprint
1.	A1_S2	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
2.	A2_S2	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
3.	A3_S2	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
4.	C1_S2	CUSTOM	CUSTOM Series= ?	Cap= 1.0 uF VDC= 0.0 V Tolerance= 0.0 %	1	NA	CUSTOM 0 mm ²
5.	C2_S2	CUSTOM	CUSTOM Series= ?	Cap= 1.0 uF VDC= 0.0 V Tolerance= 0.0 %	1	NA	CUSTOM 0 mm ²
6.	R1_S2	Vishay-Dale	CRCW040210K0FKED Series= CRCW..e3	Res= 10.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	0402 3 mm ²
7.	R2_S2	Vishay-Dale	CRCW040210K0FKED Series= CRCW..e3	Res= 10.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	0402 3 mm ²
8.	R3_S2	Vishay-Dale	CRCW04021K78FKED Series= CRCW..e3	Res= 1.78 kOhm Power= 63.0 mW Tolerance= 1.0%	1	NA	0402 3 mm ²
9.	R4_S2	Vishay-Dale	CRCW04021K24FKED Series= CRCW..e3	Res= 1.24 kOhm Power= 63.0 mW Tolerance= 1.0%	1	NA	0402 3 mm ²
10.	R5_S2	Panasonic	ERJ-6ENF5621V Series= ERJ-6E	Res= 5.62 kOhm Power= 125.0 mW Tolerance= 1.0%	1	\$0.01	0805 7 mm ²

#	Name	Manufacturer	Part Number	Properties	Qty	Price	Footprint
11.	R6_S2	Vishay-Dale	CRCW0402280KFKED Series= CRCW..e3	Res= 280.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	NA	 0402 3 mm ²

Filter Stage :3

Cutoff Frequency 50.0 Hz
 Min GBW Req'd 8.739 kHz
 Stage Gain 1.0 V/V
 Stage Q 2.094
 Stage Topology Bainter



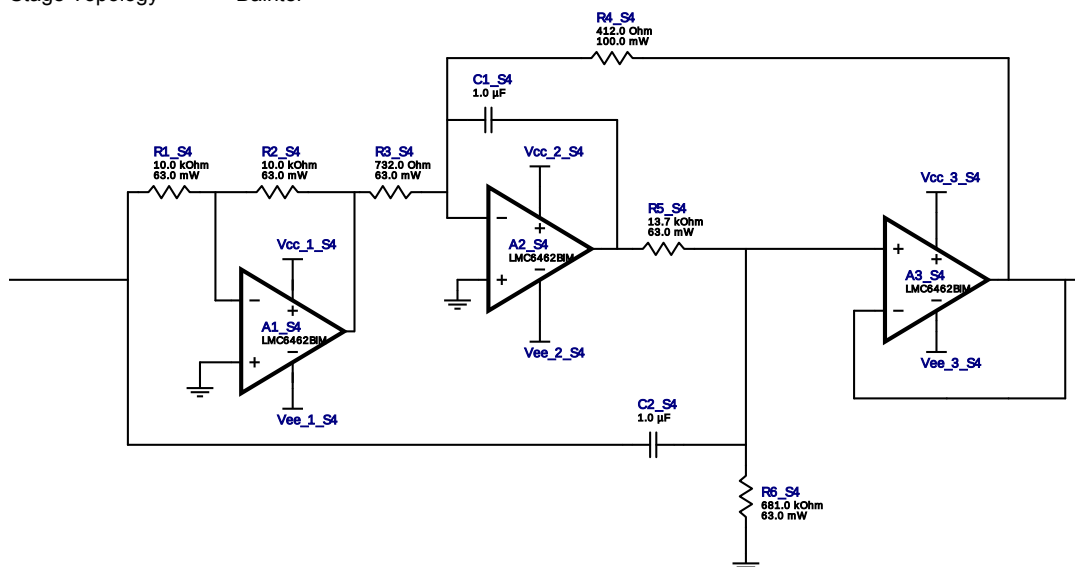
Electrical BOM

#	Name	Manufacturer	Part Number	Properties	Qty	Price	Footprint
1.	A1_S3	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
2.	A2_S3	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
3.	A3_S3	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
4.	C1_S3	CUSTOM	CUSTOM Series= ?	Cap= 1.0 uF VDC= 0.0 V Tolerance= 0.0 %	1	NA	CUSTOM 0 mm ²
5.	C2_S3	CUSTOM	CUSTOM Series= ?	Cap= 1.0 uF VDC= 0.0 V Tolerance= 0.0 %	1	NA	CUSTOM 0 mm ²
6.	R1_S3	Vishay-Dale	CRCW040210K0FKED Series= CRCW..e3	Res= 10.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	0402 3 mm ²
7.	R2_S3	Vishay-Dale	CRCW040210K0FKED Series= CRCW..e3	Res= 10.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	0402 3 mm ²
8.	R3_S3	Vishay-Dale	CRCW04021K24FKED Series= CRCW..e3	Res= 1.24 kOhm Power= 63.0 mW Tolerance= 1.0%	1	NA	0402 3 mm ²
9.	R4_S3	Vishay-Dale	CRCW04021K78FKED Series= CRCW..e3	Res= 1.78 kOhm Power= 63.0 mW Tolerance= 1.0%	1	NA	0402 3 mm ²
10.	R5_S3	Vishay-Dale	CRCW04028K06FKED Series= CRCW..e3	Res= 8.06 kOhm Power= 63.0 mW Tolerance= 1.0%	1	NA	0402 3 mm ²

#	Name	Manufacturer	Part Number	Properties	Qty	Price	Footprint
11.	R6_S3	Vishay-Dale	CRCW0402402KFKED Series= CRCW..e3	Res= 402.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	NA	 0402 3 mm ²

Filter Stage :4

Cutoff Frequency 50.0 Hz
 Min GBW Req'd 37.22 kHz
 Stage Gain 1.0 V/V
 Stage Q 5.611
 Stage Topology Bainter



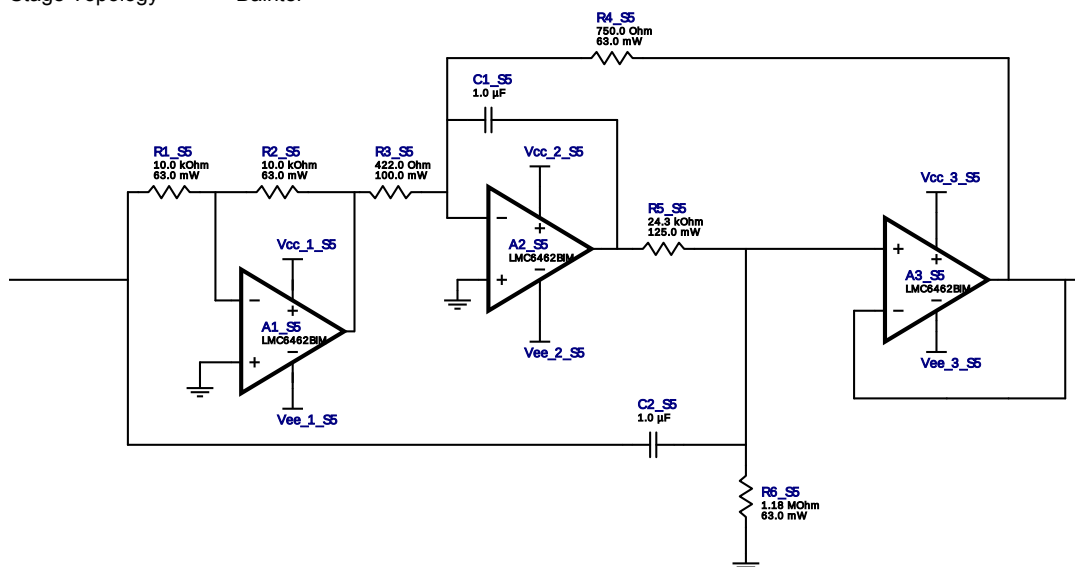
Electrical BOM

#	Name	Manufacturer	Part Number	Properties	Qty	Price	Footprint
1.	A1_S4	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
2.	A2_S4	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
3.	A3_S4	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
4.	C1_S4	CUSTOM	CUSTOM Series= ?	Cap= 1.0 uF VDC= 0.0 V Tolerance= 0.0 %	1	NA	CUSTOM 0 mm ²
5.	C2_S4	CUSTOM	CUSTOM Series= ?	Cap= 1.0 uF VDC= 0.0 V Tolerance= 0.0 %	1	NA	CUSTOM 0 mm ²
6.	R1_S4	Vishay-Dale	CRCW040210K0FKED Series= CRCW..e3	Res= 10.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	0402 3 mm ²
7.	R2_S4	Vishay-Dale	CRCW040210K0FKED Series= CRCW..e3	Res= 10.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	0402 3 mm ²
8.	R3_S4	Vishay-Dale	CRCW0402732RFBKED Series= CRCW..e3	Res= 732.0 Ohm Power= 63.0 mW Tolerance= 1.0%	1	NA	0402 3 mm ²
9.	R4_S4	Vishay-Dale	CRCW0603412RFBKEA Series= CRCW..e3	Res= 412.0 Ohm Power= 100.0 mW Tolerance= 1.0%	1	NA	0603 5 mm ²
10.	R5_S4	Vishay-Dale	CRCW040213K7FKED Series= CRCW..e3	Res= 13.7 kOhm Power= 63.0 mW Tolerance= 1.0%	1	NA	0402 3 mm ²

#	Name	Manufacturer	Part Number	Properties	Qty	Price	Footprint
11.	R6_S4	Vishay-Dale	CRCW0402681KFKED Series= CRCW..e3	Res= 681.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	NA	 0402 3 mm ²

Filter Stage :5

Cutoff Frequency 50.0 Hz
 Min GBW Req'd 21.147 kHz
 Stage Gain 1.0 V/V
 Stage Q 5.611
 Stage Topology Bainter



Electrical BOM

#	Name	Manufacturer	Part Number	Properties	Qty	Price	Footprint
1.	A1_S5	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
2.	A2_S5	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
3.	A3_S5	Texas Instruments	LMC6462BIM	GbwTyp= 0.05MHz VccMin= 3.0 V VccMax= 15.5 V	1	\$1.01	SOIC 0 mm ²
4.	C1_S5	CUSTOM	CUSTOM Series= ?	Cap= 1.0 uF VDC= 0.0 V Tolerance= 0.0 %	1	NA	CUSTOM 0 mm ²
5.	C2_S5	CUSTOM	CUSTOM Series= ?	Cap= 1.0 uF VDC= 0.0 V Tolerance= 0.0 %	1	NA	CUSTOM 0 mm ²
6.	R1_S5	Vishay-Dale	CRCW040210K0FKED Series= CRCW..e3	Res= 10.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	0402 3 mm ²
7.	R2_S5	Vishay-Dale	CRCW040210K0FKED Series= CRCW..e3	Res= 10.0 kOhm Power= 63.0 mW Tolerance= 1.0%	1	\$0.01	0402 3 mm ²
8.	R3_S5	Vishay-Dale	CRCW0603422RFKEA Series= CRCW..e3	Res= 422.0 Ohm Power= 100.0 mW Tolerance= 1.0%	1	NA	0603 5 mm ²
9.	R4_S5	Vishay-Dale	CRCW0402750RFKED Series= CRCW..e3	Res= 750.0 Ohm Power= 63.0 mW Tolerance= 1.0%	1	NA	0402 3 mm ²
10.	R5_S5	Panasonic	ERJ-6ENF2432V Series= ERJ-6E	Res= 24.3 kOhm Power= 125.0 mW Tolerance= 1.0%	1	\$0.01	0805 7 mm ²

#	Name	Manufacturer	Part Number	Properties	Qty	Price	Footprint
11.	R6_S5	Vishay-Dale	CRCW04021M18FKED Series= CRCW..e3	Res= 1.18 MOhm Power= 63.0 mW Tolerance= 1.0%	1	NA	 0402 3 mm ²

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