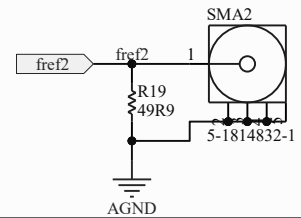
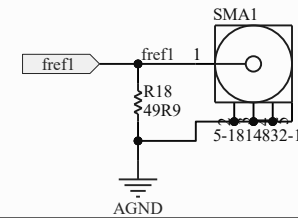
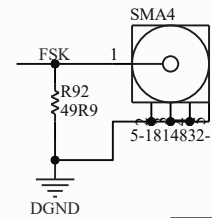
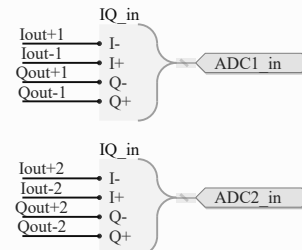
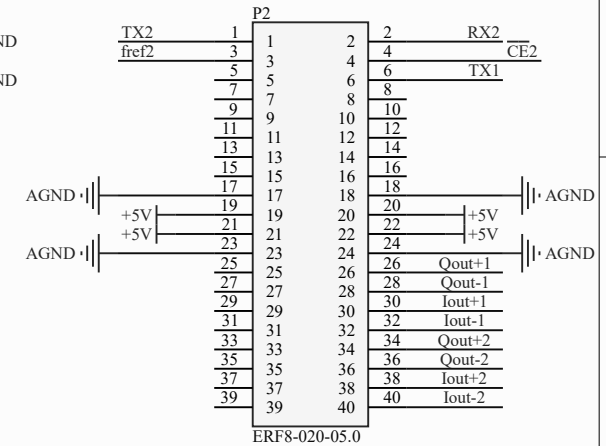
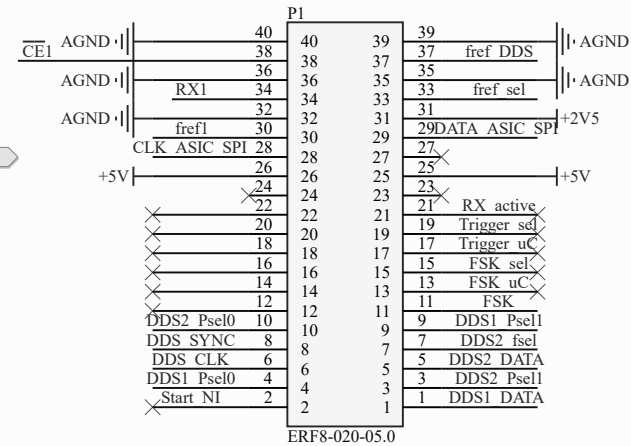
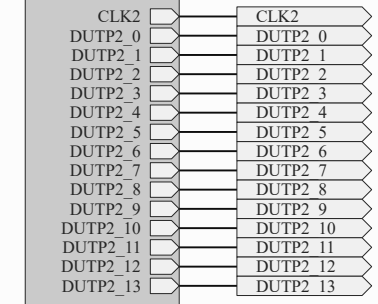
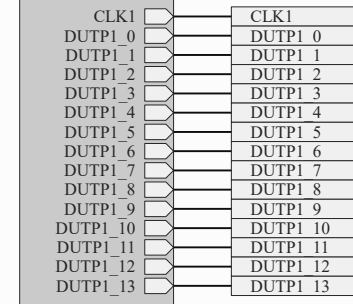
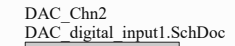
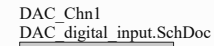
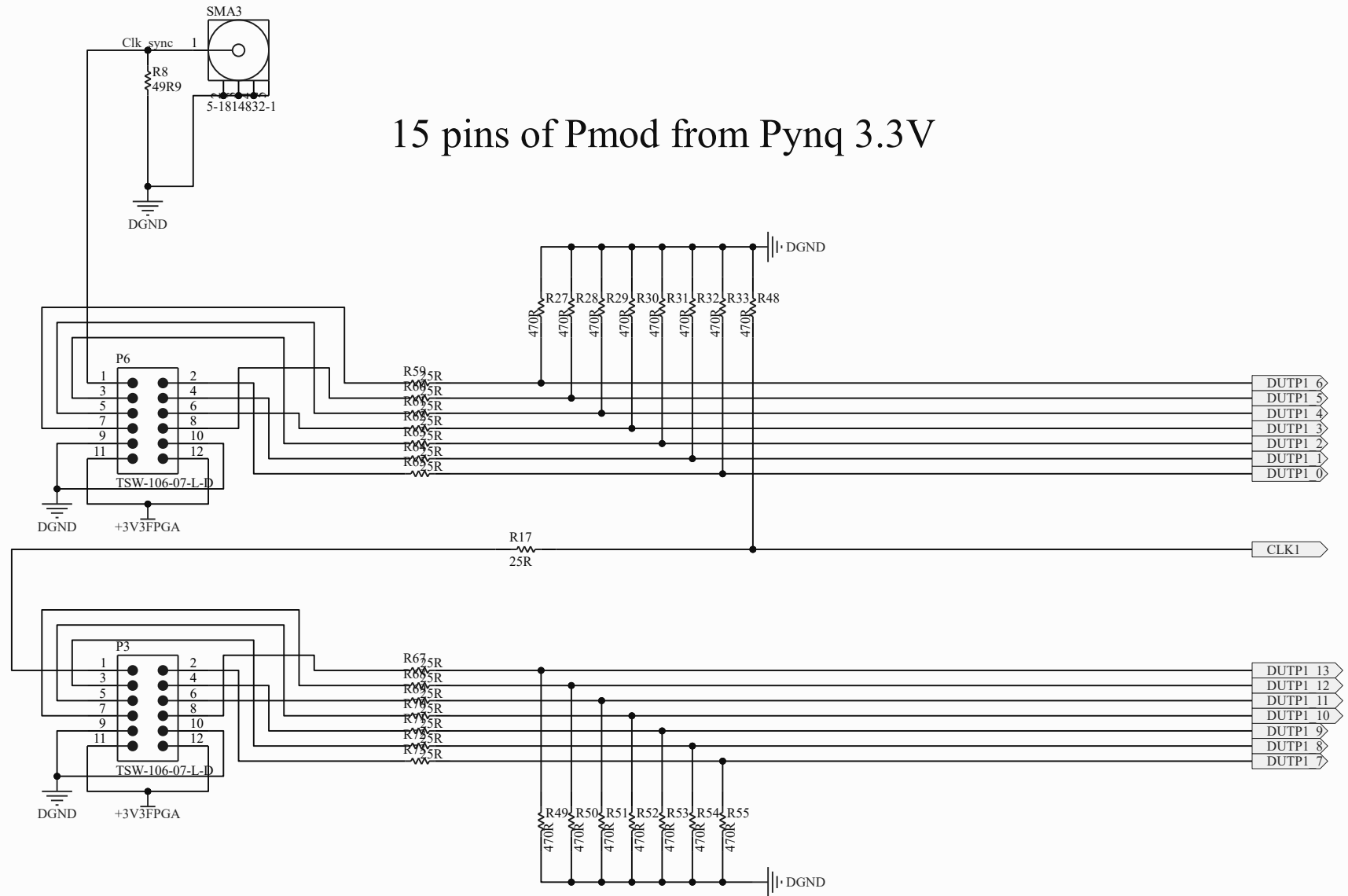


Title			Z2 NMR Board - Top Level
Size	Number	Revision	
A4	1		
Date:	6/28/2023	Sheet of	10
File:	\\.\FPGA_ADCandDACboard.SchDoc	Drawn By:	



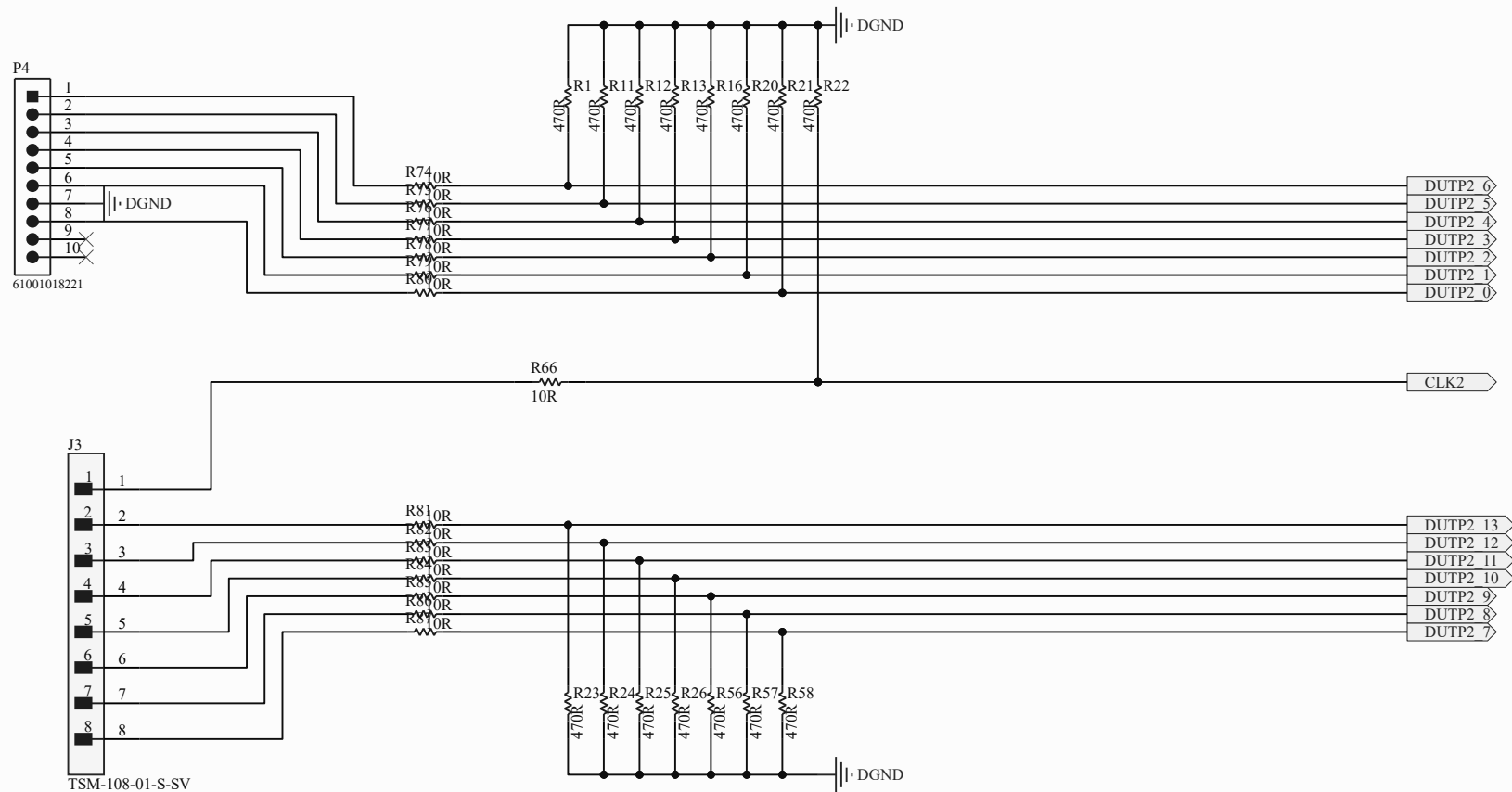
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Size A4	Number 2	Revision
Date: 6/28/2023	Sheet of 10	
File: \\.\Connector.SchDoc	Drawn By:	

15 pins of Pmod from Pynq 3.3V

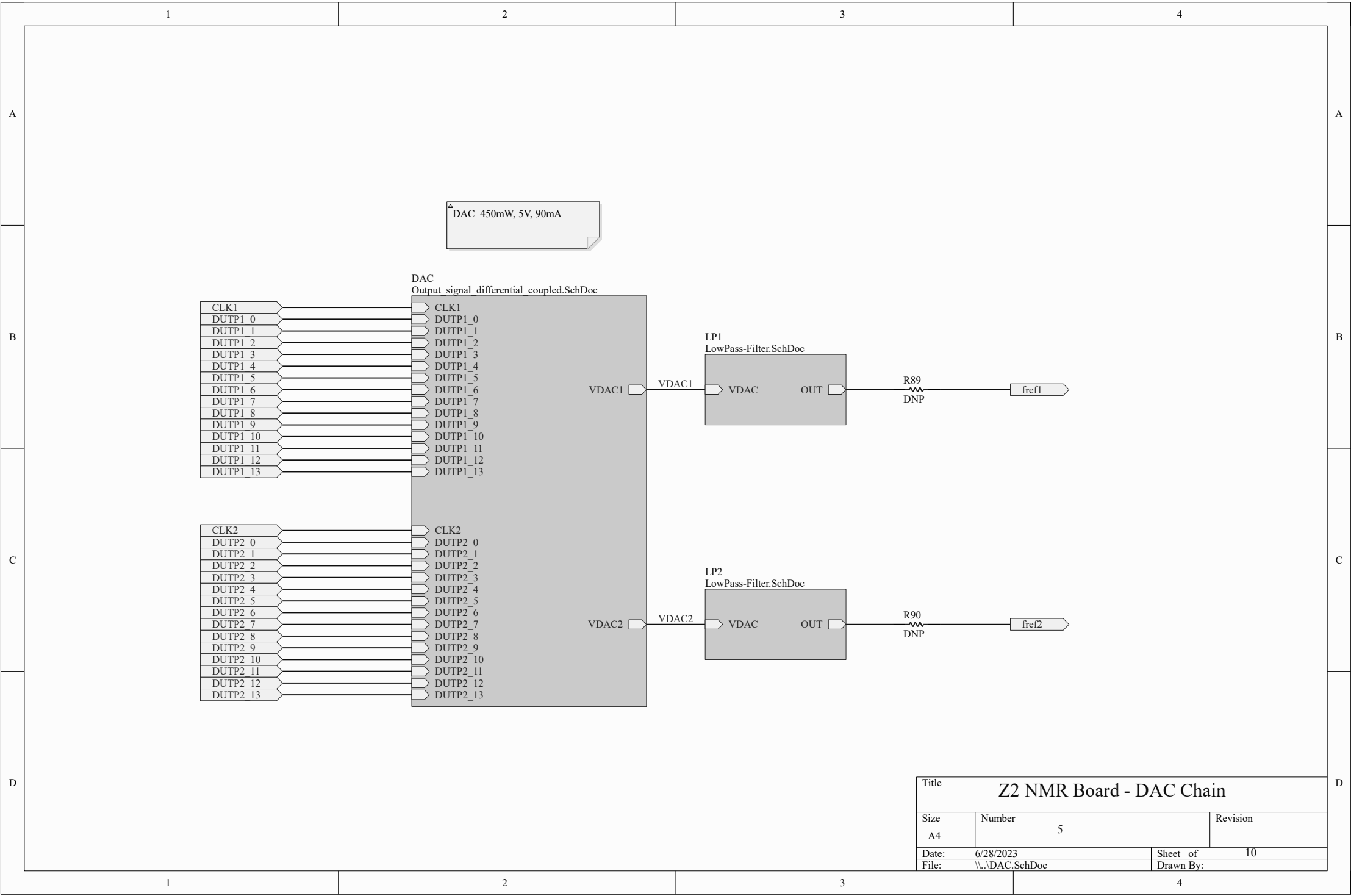


Title		
Z2 NMR Board - DAC Chn1		
Size	Number	Revision
A4	3	
Date:	6/28/2023	Sheet of 10
File:	\\.\DAC digital input.SchDoc	Drawn By:

15 pins of Pmod from Pynq 3.3V

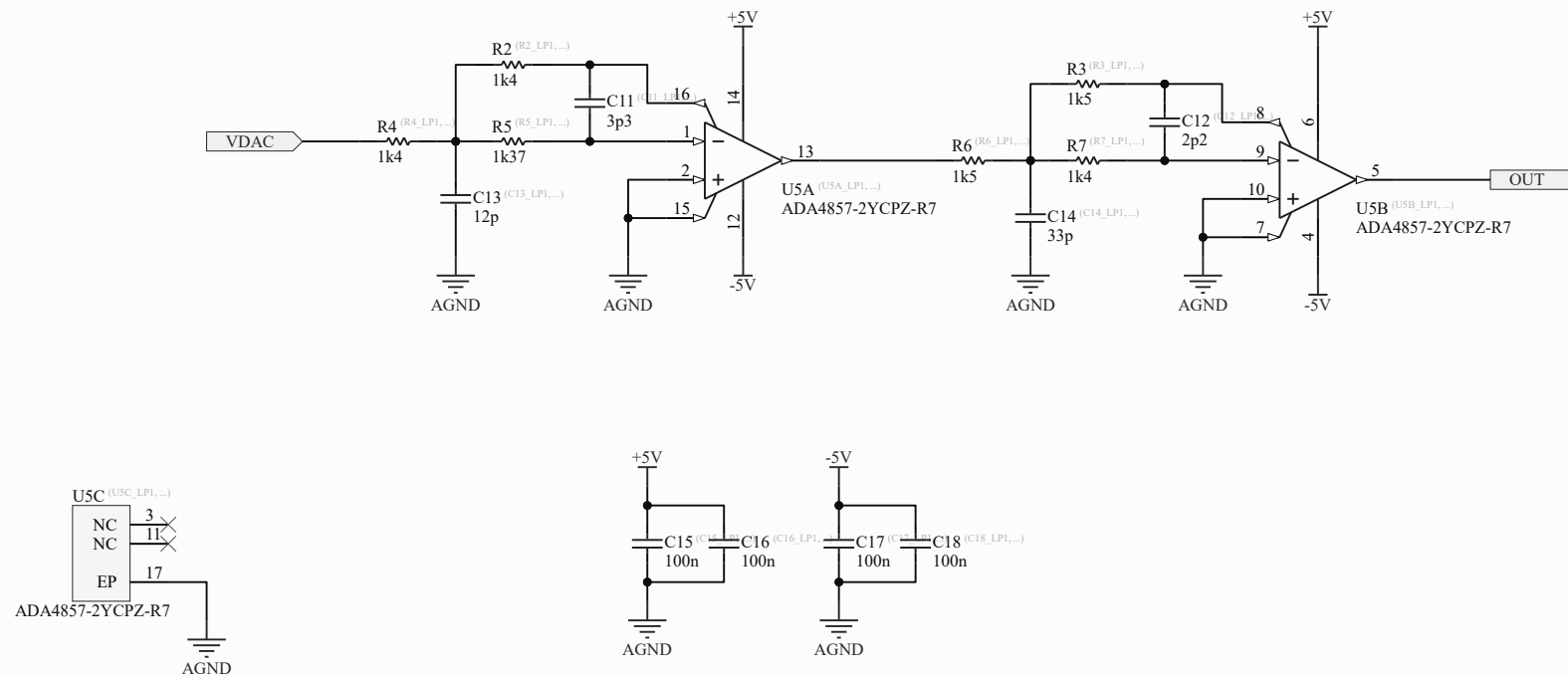


Title			Z2 NMR Board - DAC Chn2
Size	Number	Revision	
A4	4		
Date:	6/28/2023	Sheet of	10
File:	\\.\DAC digital input1.SchDoc	Drawn By:	

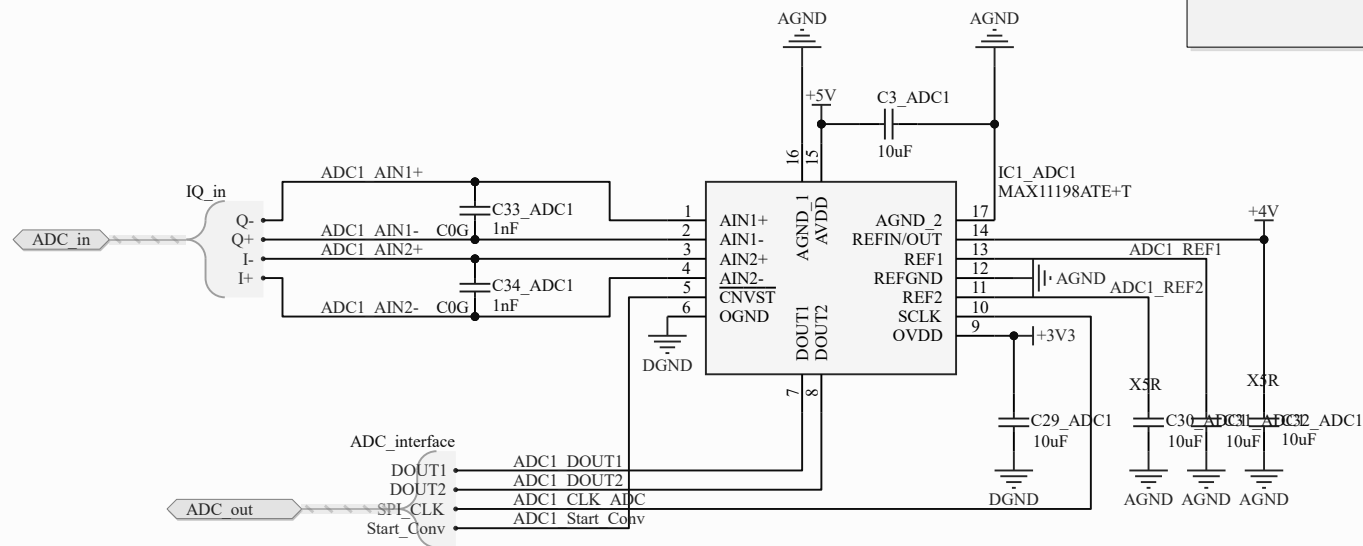


Acitive Butterworth Lowpass Filter

$F_c = 12 \text{ MHz}$ Gain = 0 dB

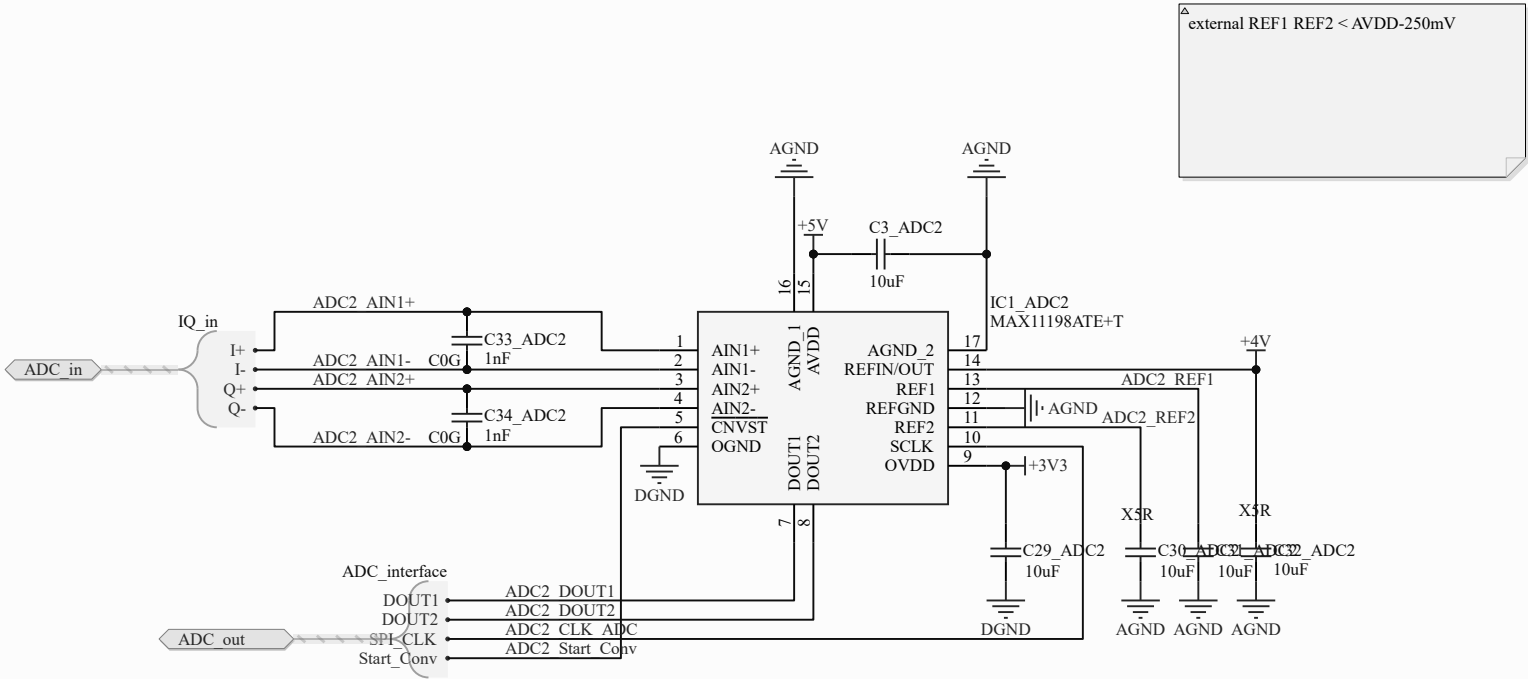


Title			Z2 NMR Board - DAC Lowpass Filter
Size	Number	Revision	
A4	7		
Date:	6/28/2023	Sheet of	10
File:	\\.\LowPass-Filter.SchDoc	Drawn By:	

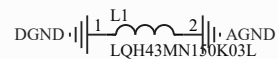
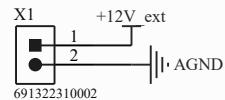


external REF1 REF2 < AVDD-250mV

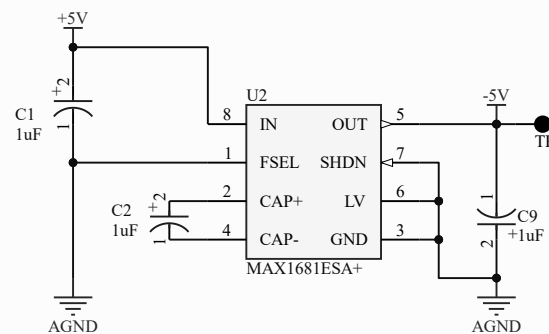
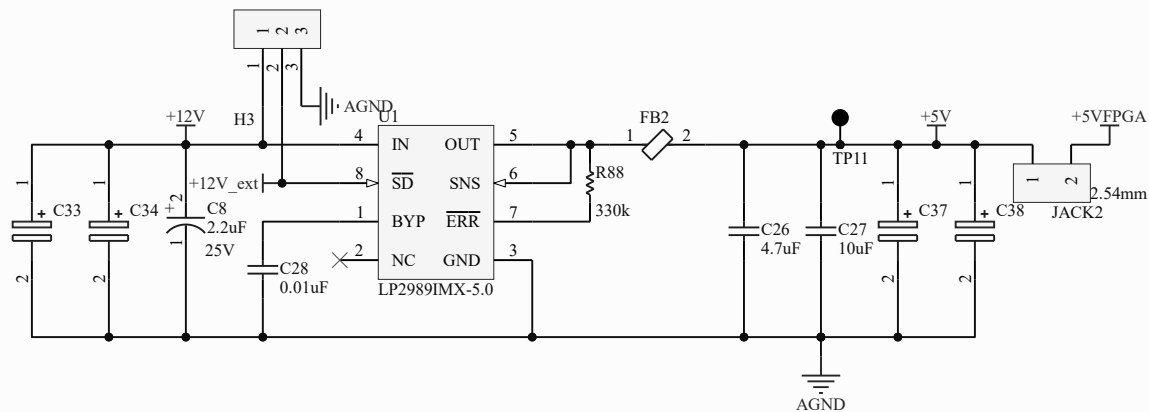
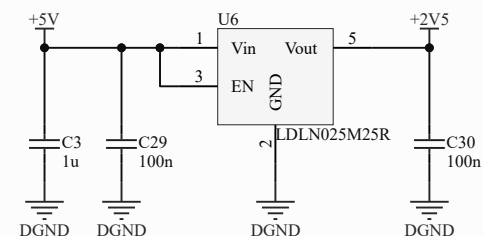
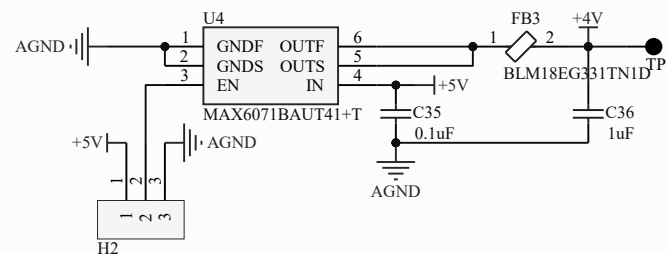
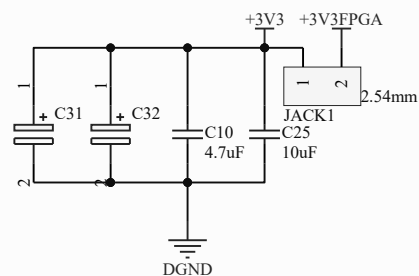
Title			Z2 NMR Board - ADC1
Size	Number	Revision	
A4	8		
Date:	6/28/2023	Sheet of	10
File:	\\.\ADC1 MAX11198.SchDoc	Drawn By:	



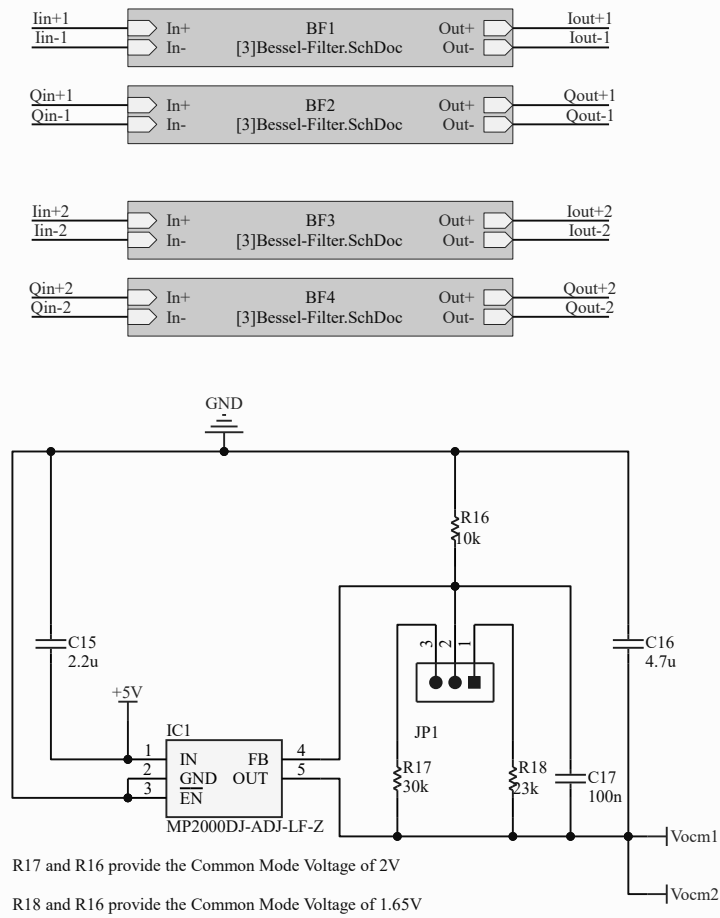
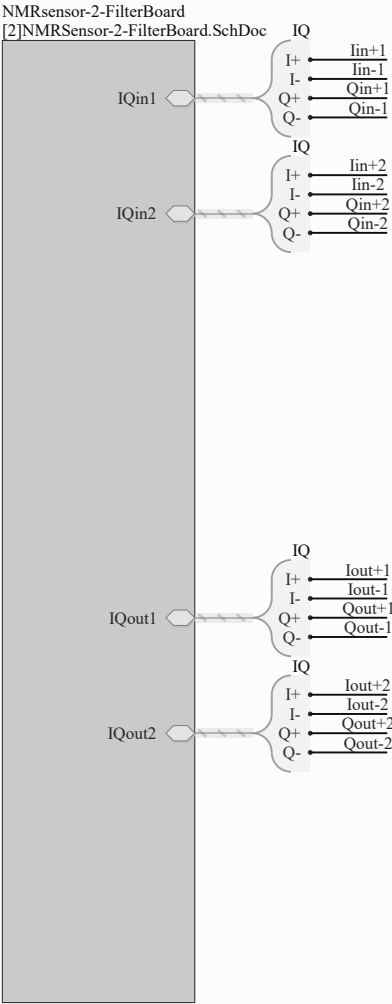
Title			Z2 NMR Board - ADC2	
Size	Number	Revision		
A4	9			
Date:	6/28/2023	Sheet of	10	
File:	\\.\ADC2 MAX11198.SchDoc	Drawn By:		



Short OUTF to OUTS as close as possible to the load

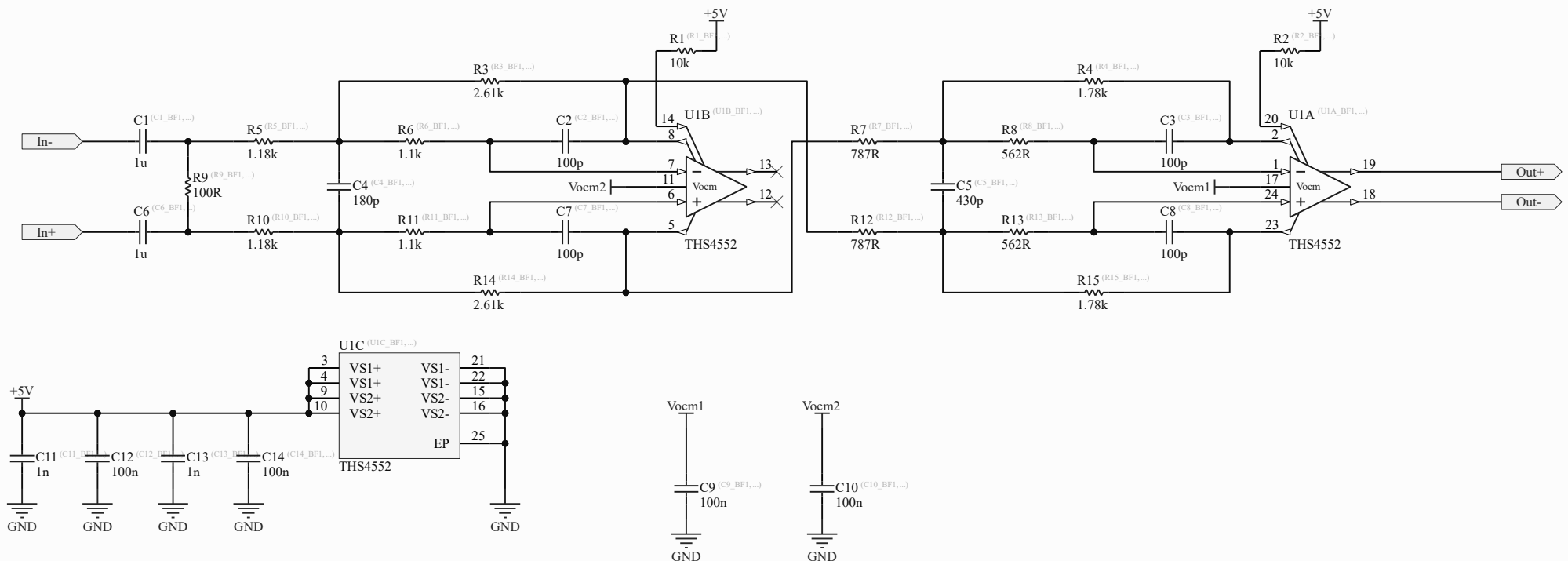


Title		
Z2 NMR Board - Power		
Size	Number	Revision
A4	10	
Date:	6/28/2023	Sheet of 10
File:	\\.\Power Decoupling.SchDoc	Drawn By:



Title		
Z2 Filter Board - Top Level		
Size	Number	Revision
A4	1	
Date:	6/28/2023	Sheet of 3
File:	\\.\[1]Top.SchDoc	Drawn By:

4th Order Bessel Filter, $f_{3dB} = 350 \text{ kHz}$, Gain = 14 dB



Title			Z2 Filter Board - Bessel Filter	
Size	Number	Revision		
A4	3			
Date:	6/28/2023	Sheet of	3	
File:	\\.\[3]Bessel-Filter.SchDoc	Drawn By:		