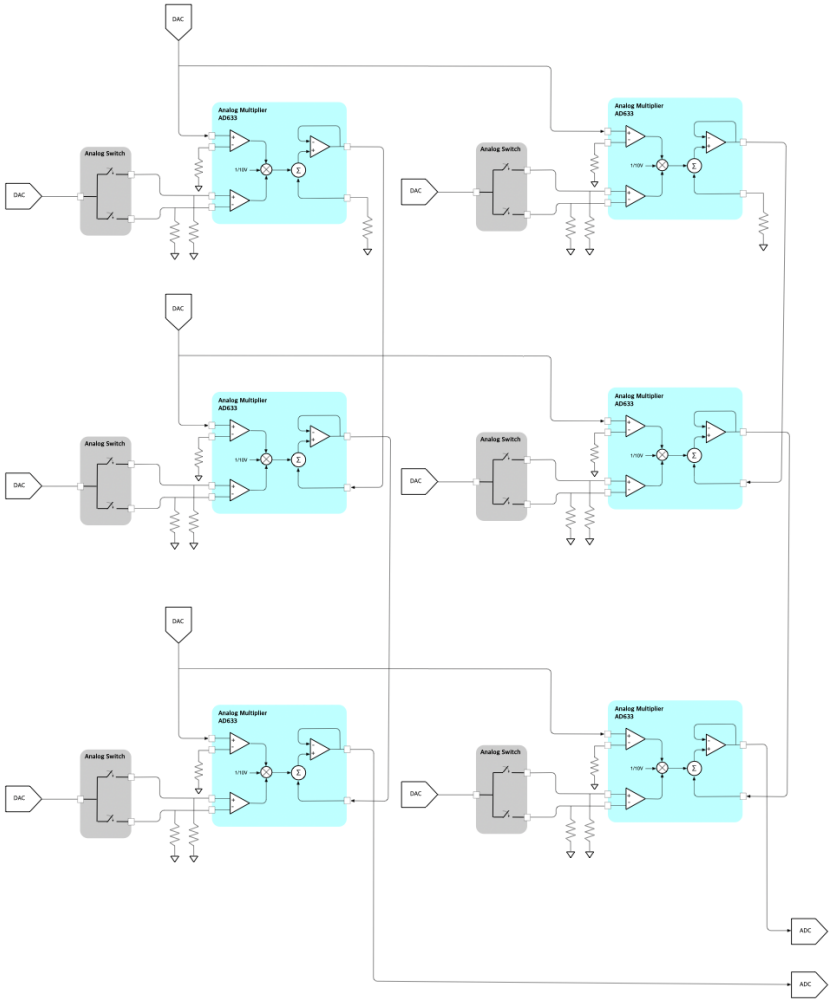
BLOCK DIAGRAM

BASIC BLOCK DIAGRAM FOR A 3X2 MATRIX.
THIS PROJECT USES THE SAME IDEA AS THIS BLOCK DIAGRAM BUT EXPANDS IT TO A 4X4 CASE.



Sheet: /BLOCK DIAGRAM/	
File: Block_Diagran.kicad_sch	
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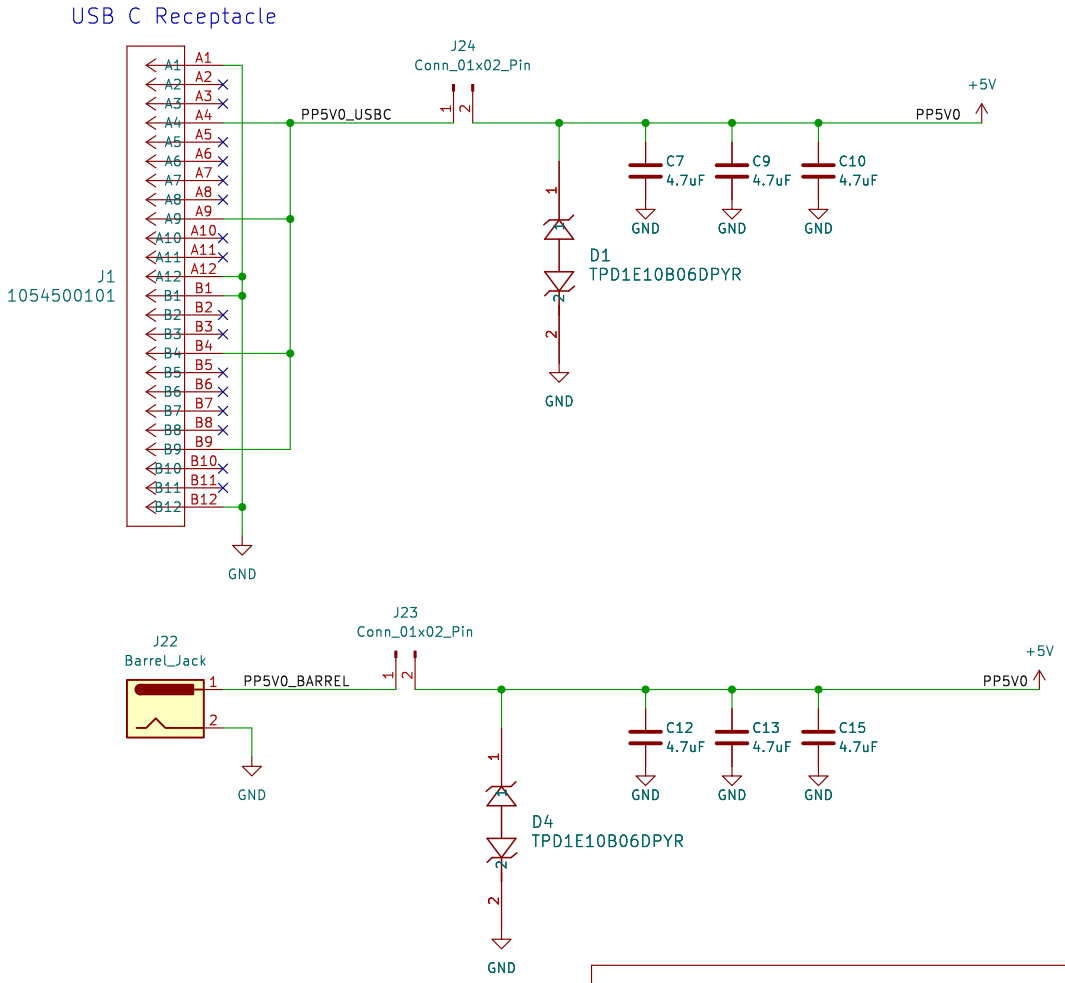
Size: A4	Date:
KiCad E.D.A. kicad 7.0.7	Id: 2/12

Rev:

USB C Receptacle



Sheet: /USBC RECEPTACLE/
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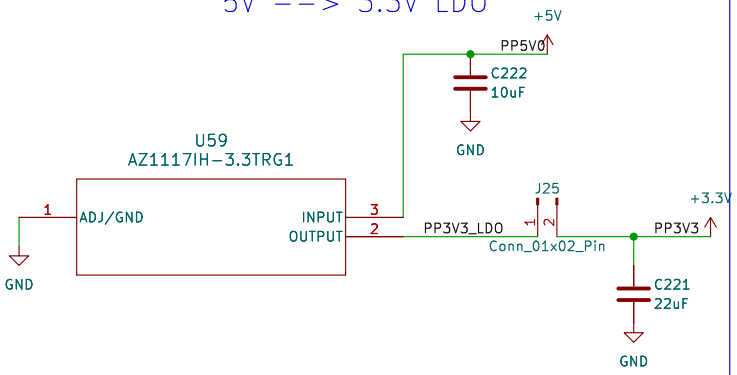
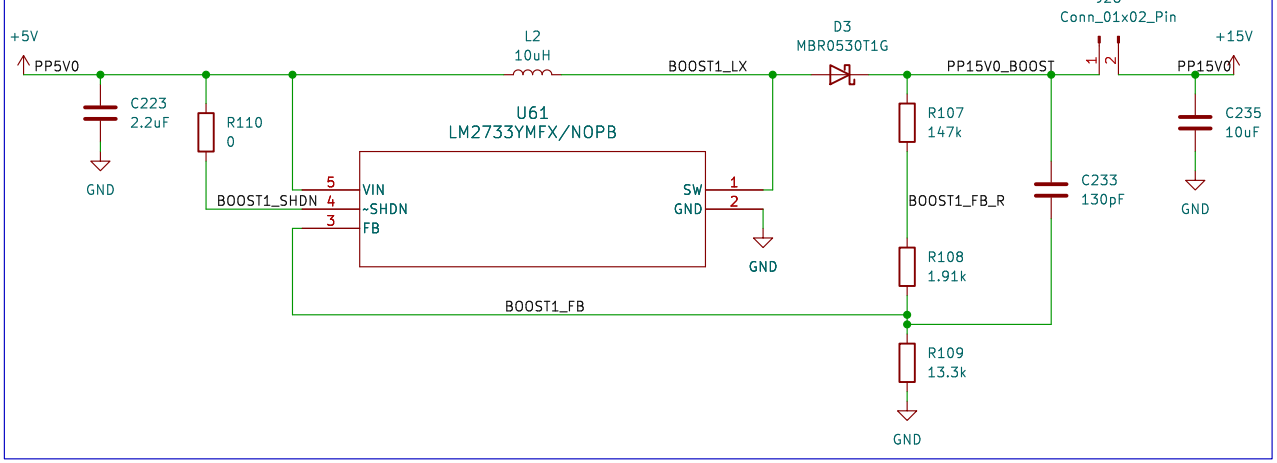
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 7.0.7		Id: 3/12

POWER

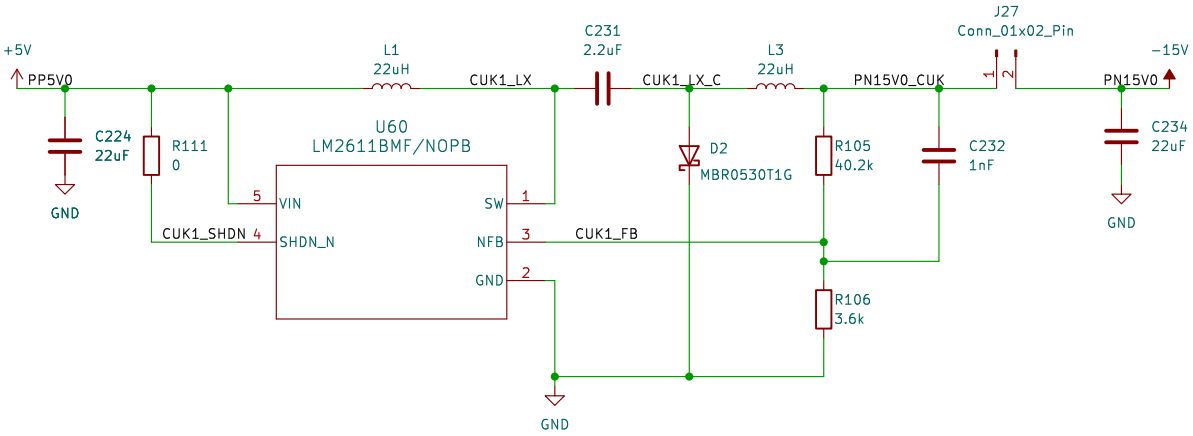
5V --> 3.3V LDO



5V --> 15V Boost Converter



5V --> -15V Cuk Converter



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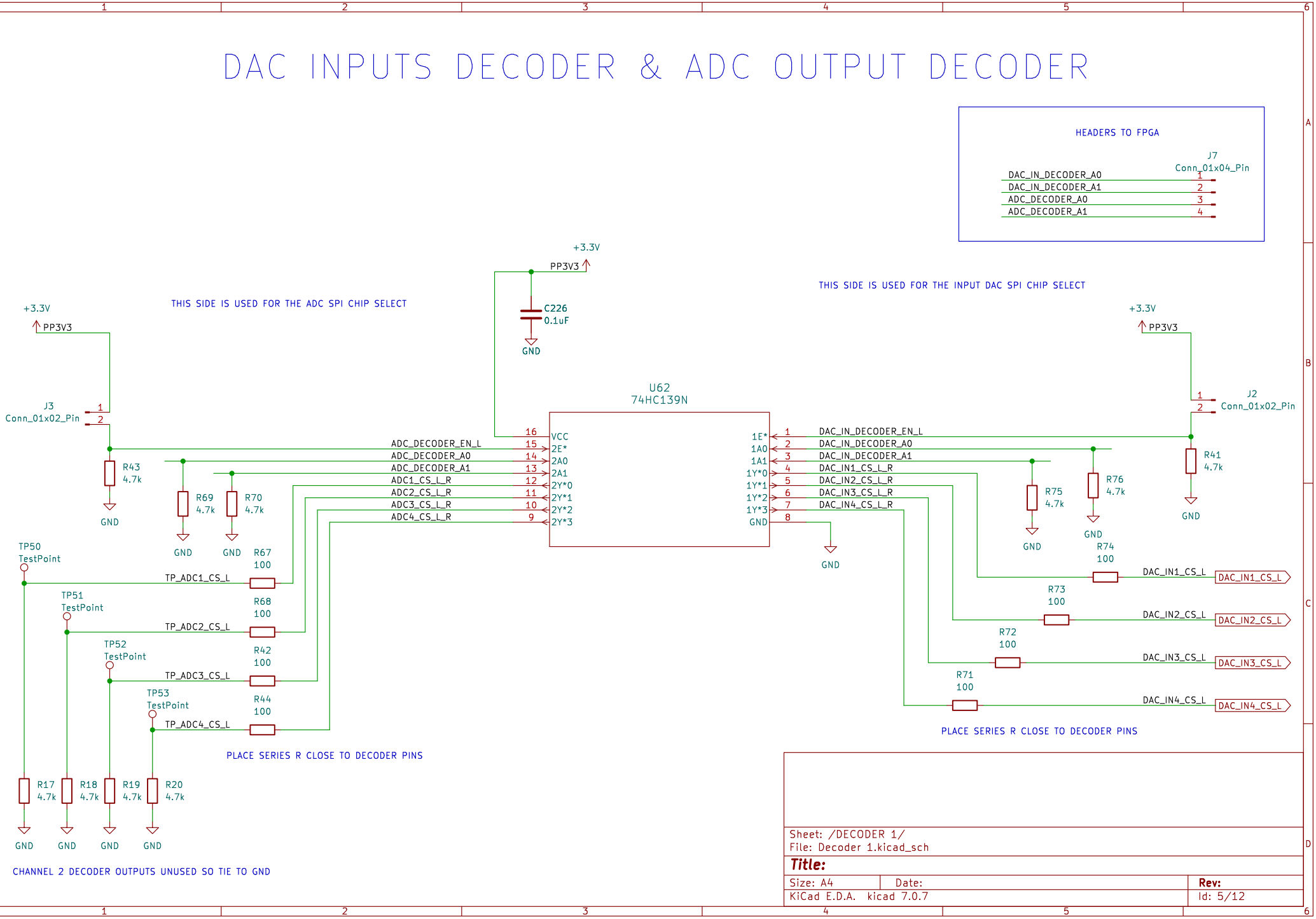
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 7.0.7		Id: 4/12

DAC INPUTS DECODER & ADC OUTPUT DECODER



Sheet: /DECODER 1/		
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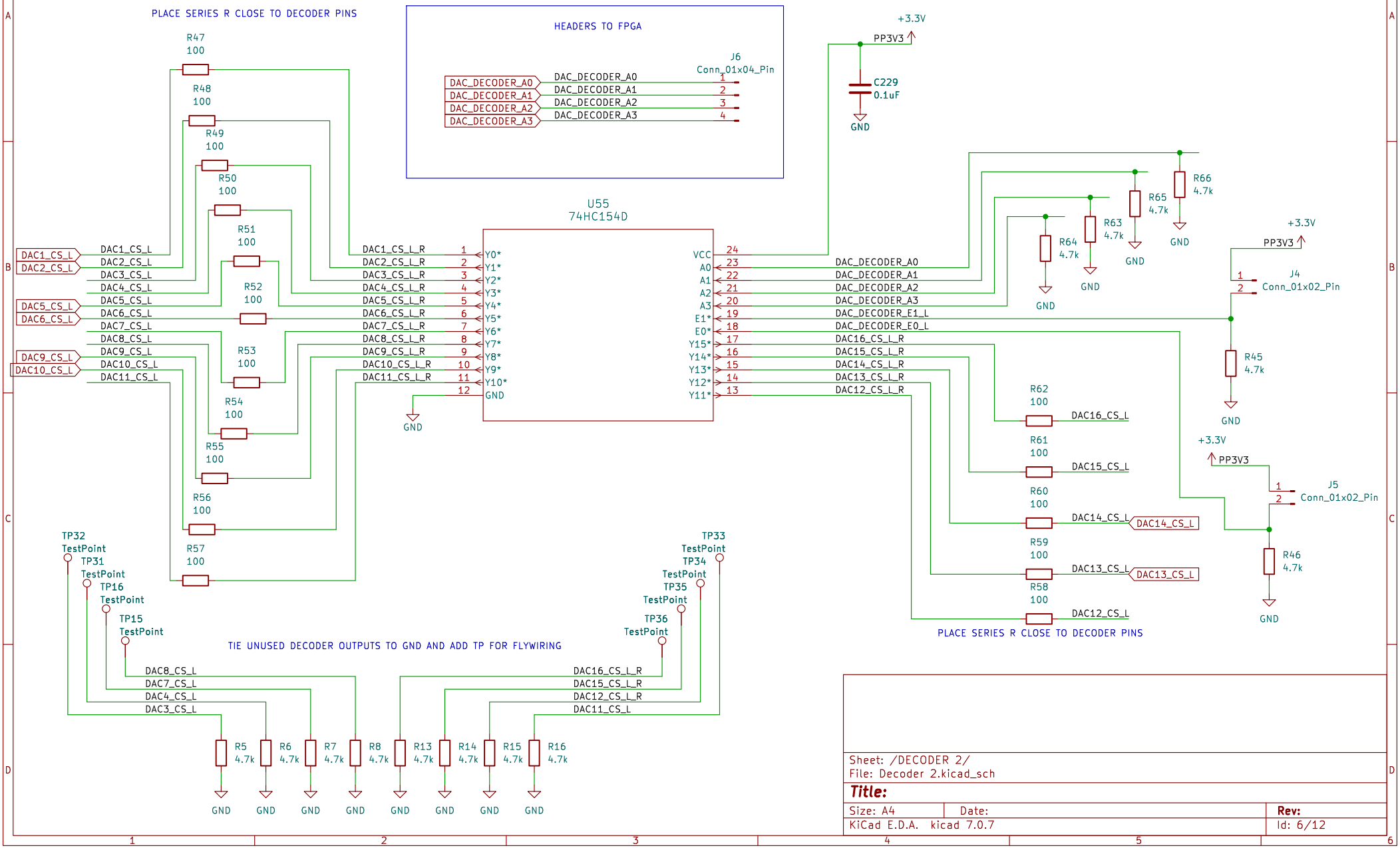
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 7.0.7		Id: 5/12

DAC WEIGHTS DECODER



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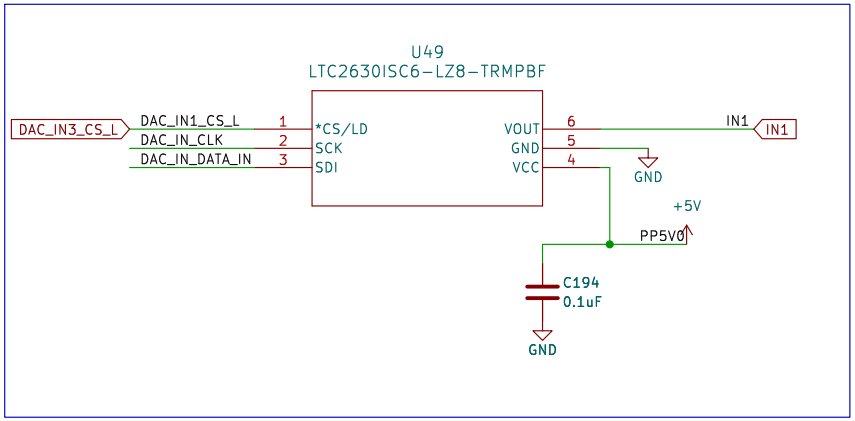
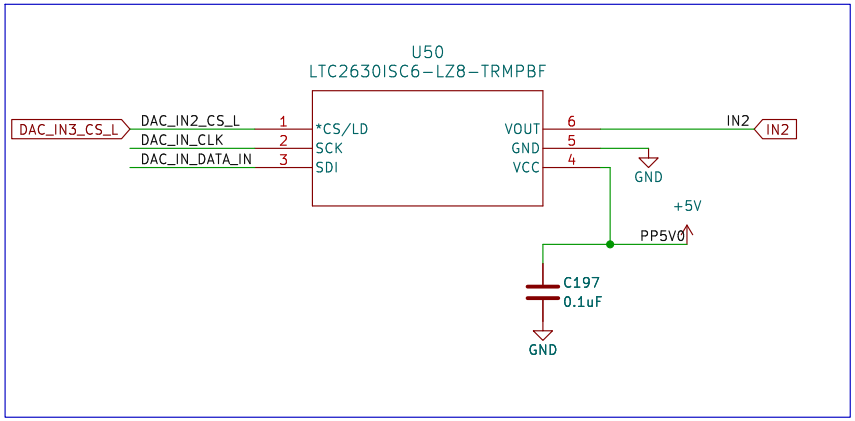
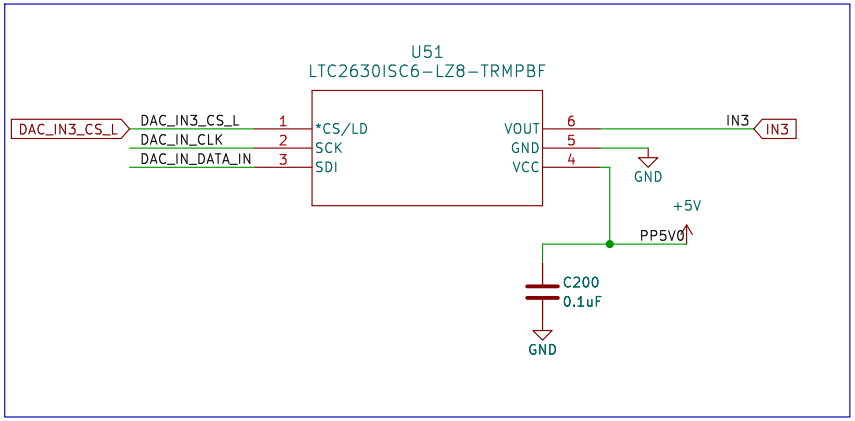
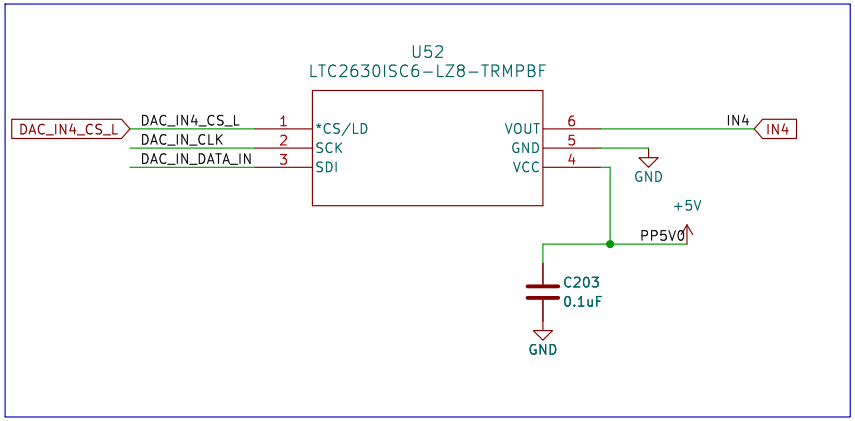
KiCad E.D.A. kicad 7.0.7		Id: 6/12

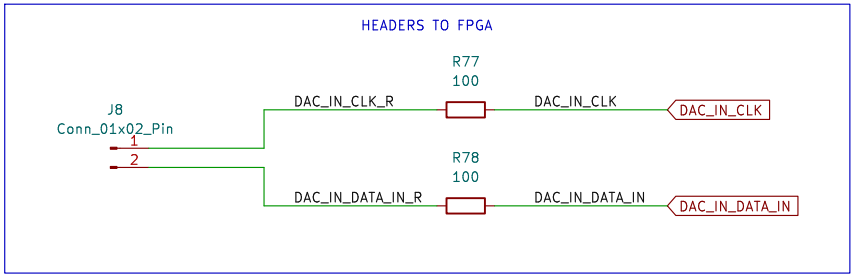
DAC INPUTS











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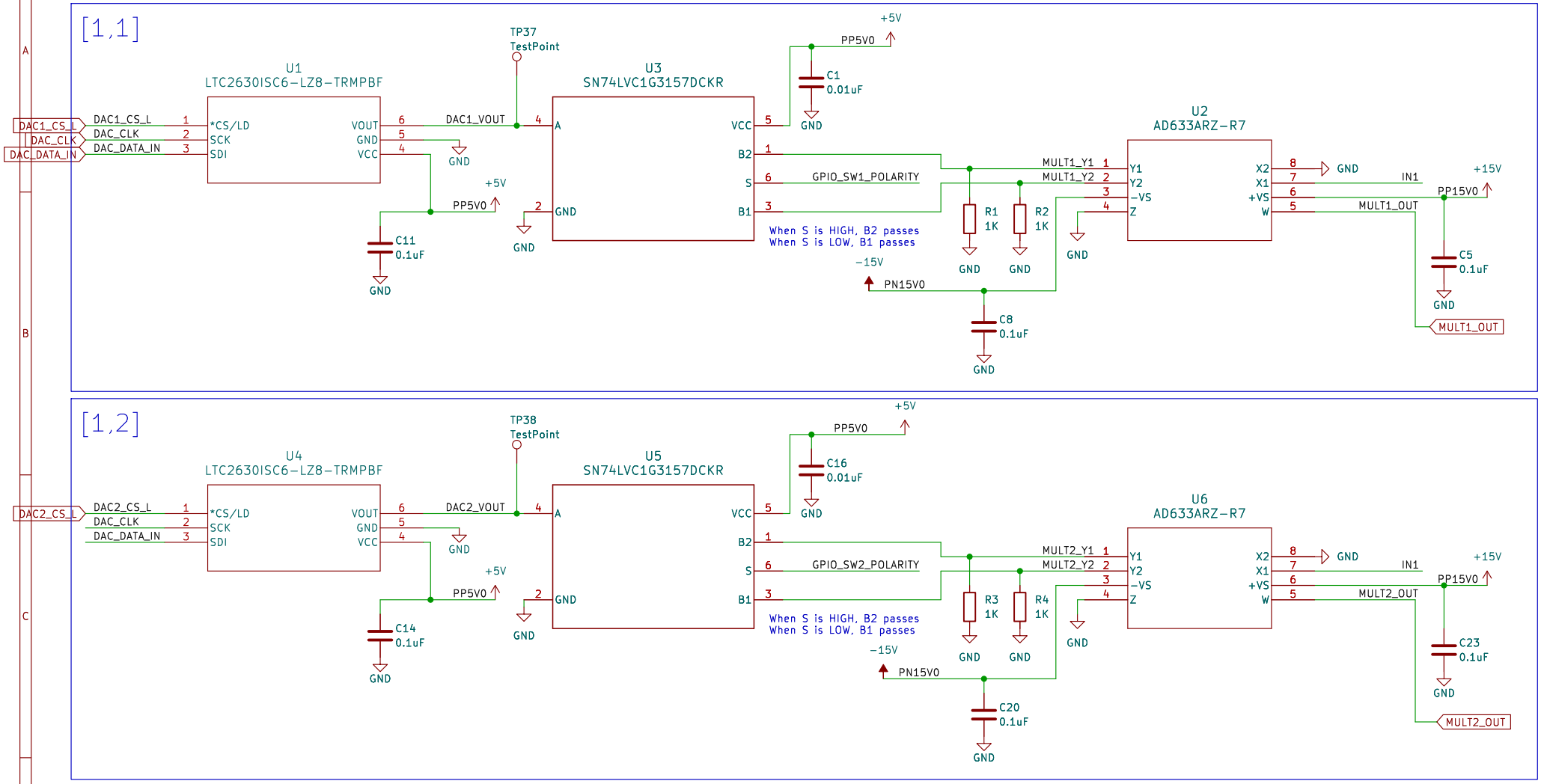
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 7.0.7		Id: 7/12

ANALOG MULTIPLIER (1/8)



Sheet: /ANALOG MULTIPLIER 1/
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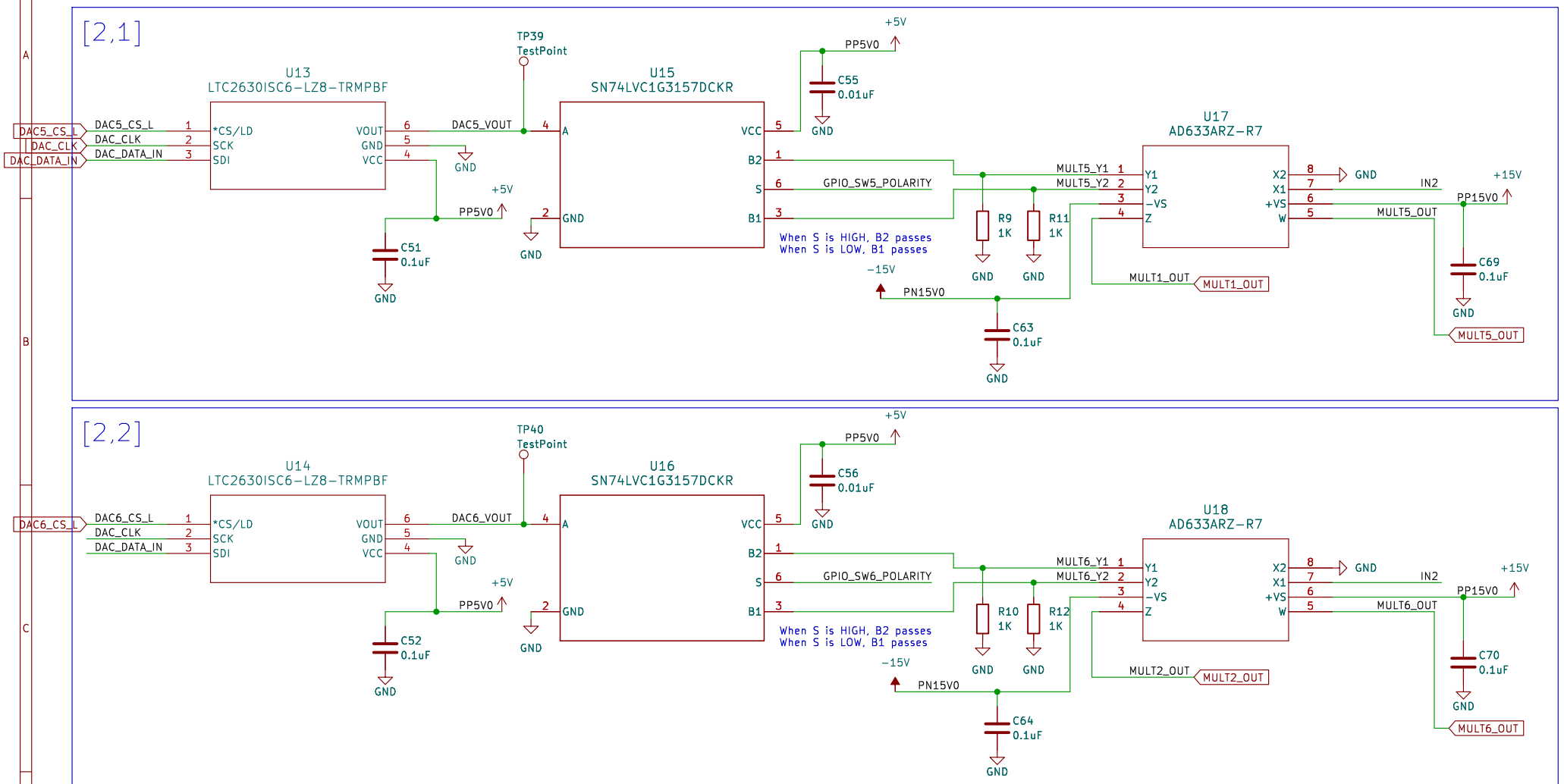
Title:

Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 7.0.7		Id: 8/12

ANALOG MULTIPLIER (3/8)



Sheet: /ANALOG MULTIPLIER 2/
File: Analog Multiplier 3.kicad_sch

Title:

Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 7.0.7		Id: 9/12

FYDP – ANALOG MATRIX MULTIPLIER
UNIVERSITY OF WATERLOO

BLOCK DIAGRAM
File: Block_Diagran.kicad_sch

USBC RECEPTACLE
File: USBC_Receptacle.kicad_sch

POWER
File: power.kicad_sch

DAC INPUTS
File: DAC Inputs.kicad_sch

DECODER 1
File: Decoder 1.kicad_sch

DECODER 2
File: Decoder 2.kicad_sch

ANALOG MULTIPLIER 1
File: Analog Multiplier 1.kicad_sch

ANALOG MULTIPLIER 2
File: Analog Multiplier 3.kicad_sch

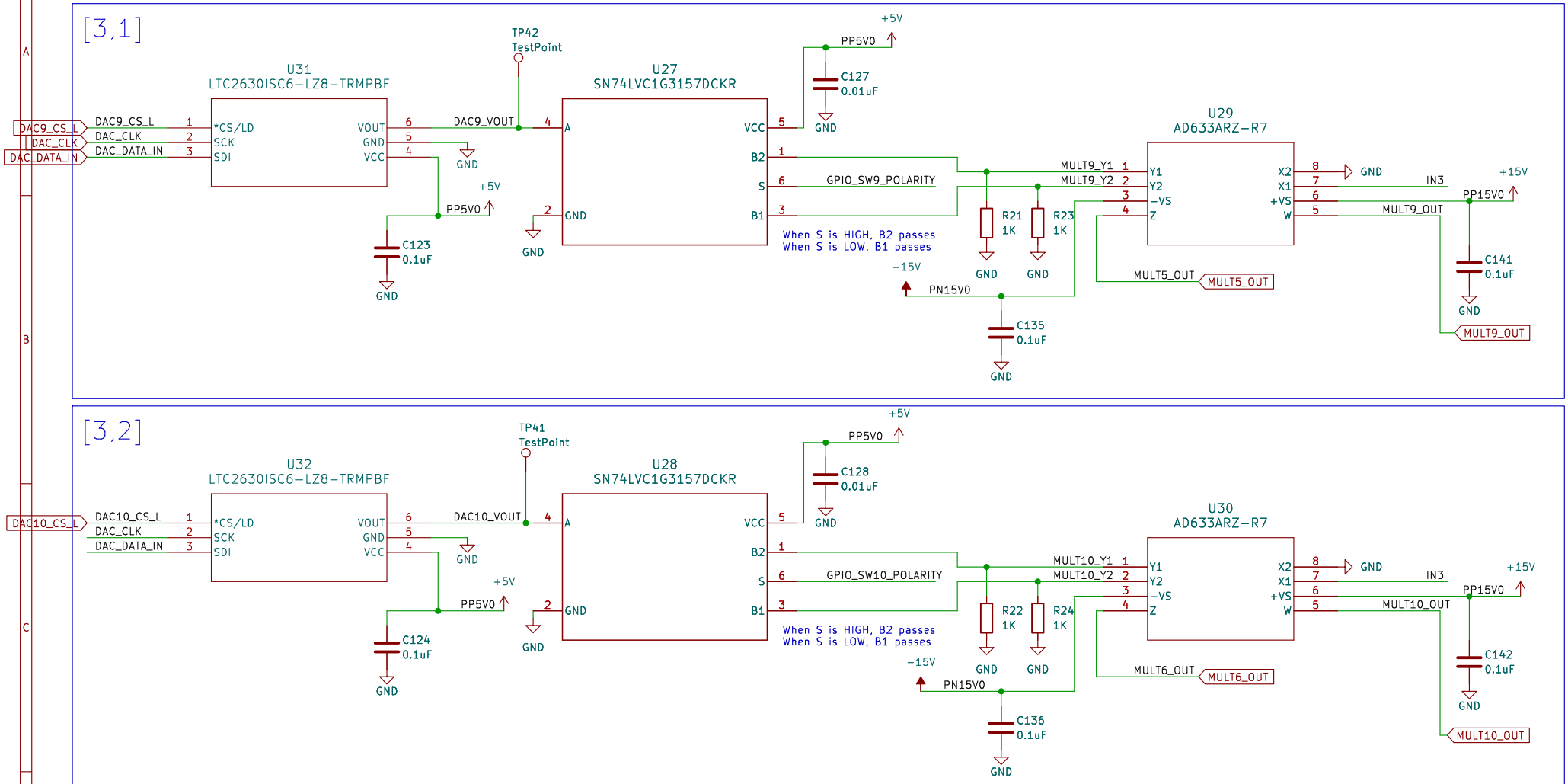
ANALOG MULTIPLIER 3
File: Analog Multiplier 5.kicad_sch

ANALOG MULTIPLIER 4
File: Analog Multiplier 7.kicad_sch

ADC
File: ADC.kicad_sch

Sheet: / File: fydp.kicad_sch		
Title:		
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 7.0.7		Id: 10/12

ANALOG MULTIPLIER (5/8)



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File: Analog Multiplier 5.kicad_sch

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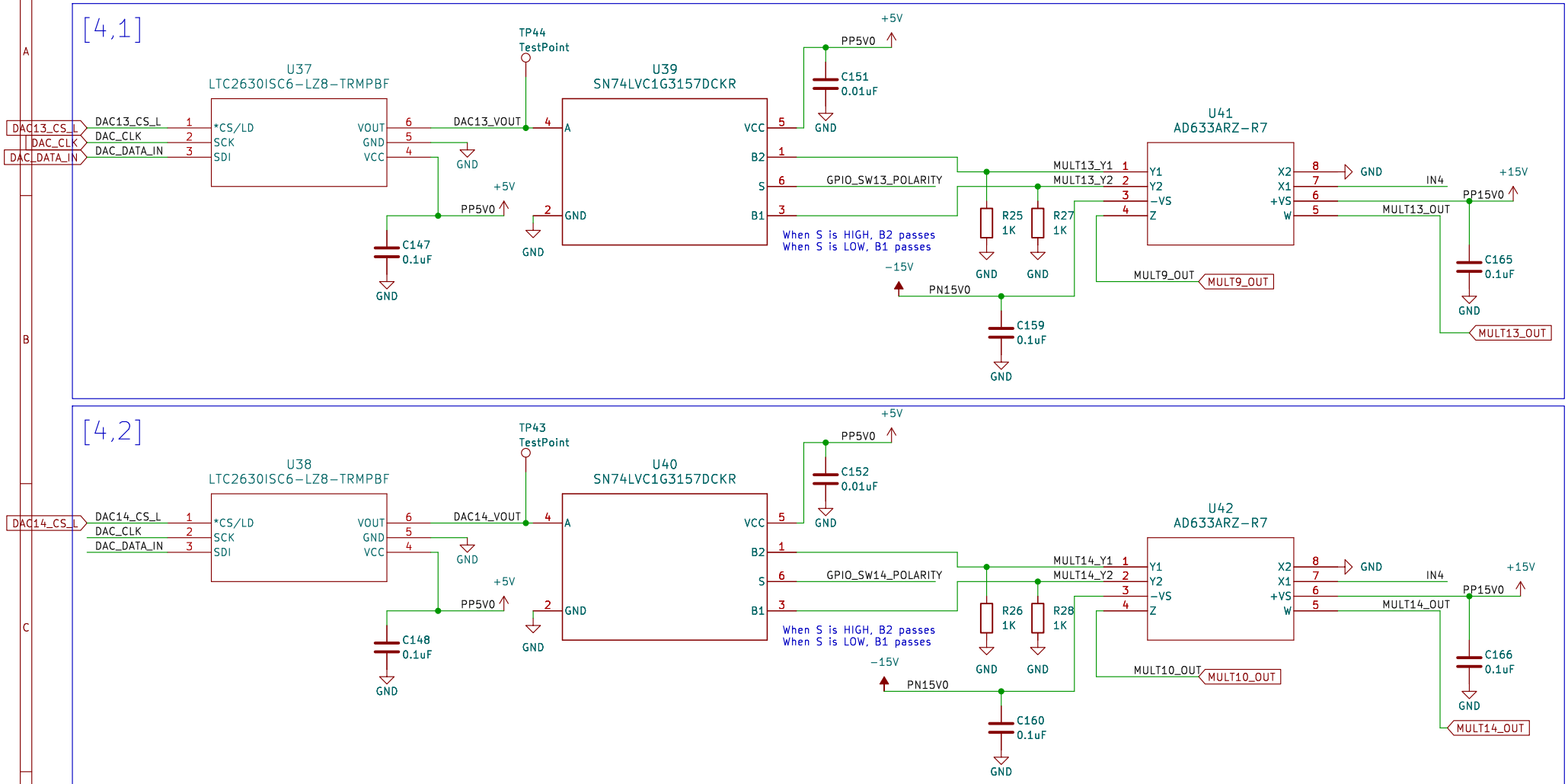
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 7.0.7		Id: 10/12

ANALOG MULTIPLIER (7/8)



Sheet: /ANALOG MULTIPLIER 4/
File: Analog Multiplier 7.kicad_sch

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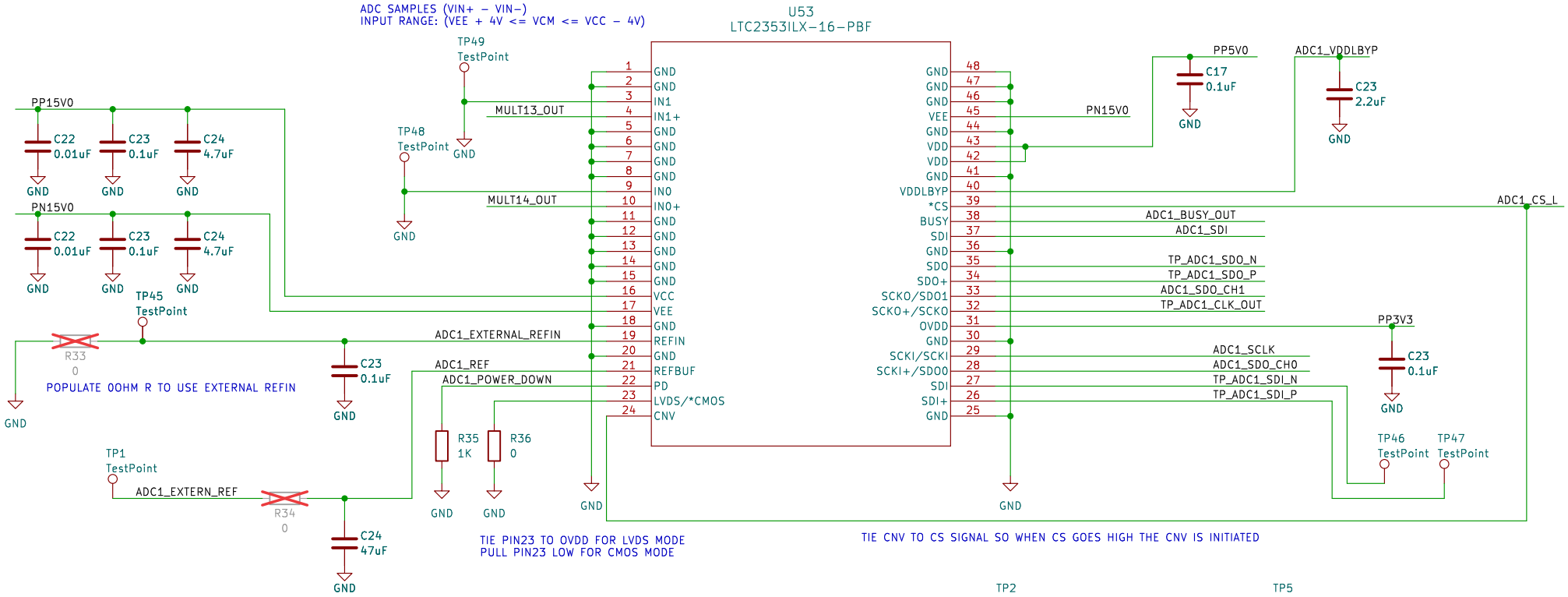
Size: A4	Date:	**Rev:**
KiCad E.D.A. kicad 7.0.7		Id: 11/12

ADC – 16-BIT DUAL CHANNEL DIFFERENTIAL



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