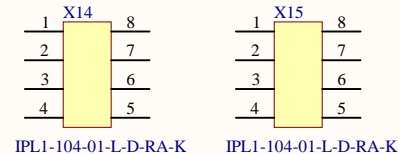


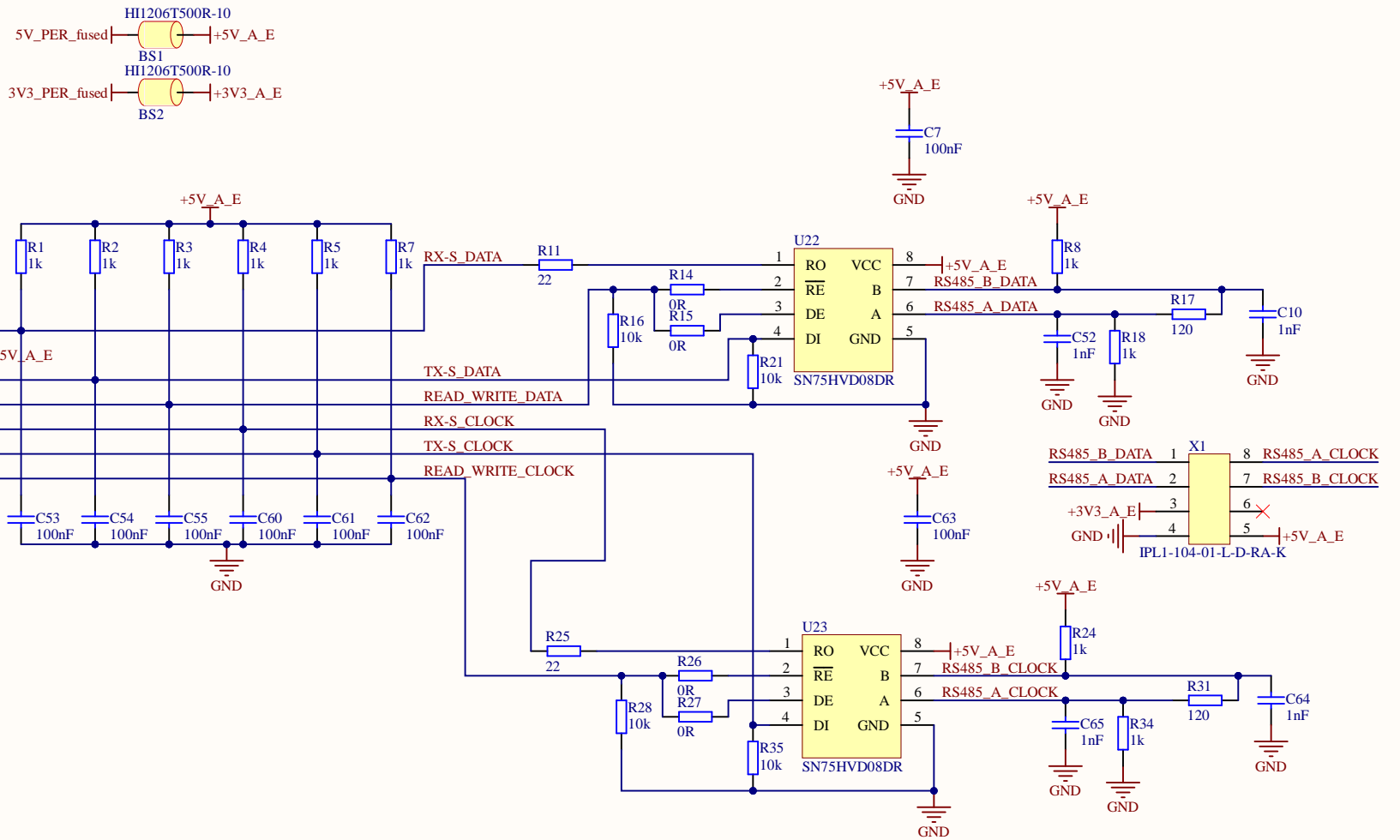
Connector Placeholders for Temperature Measurement




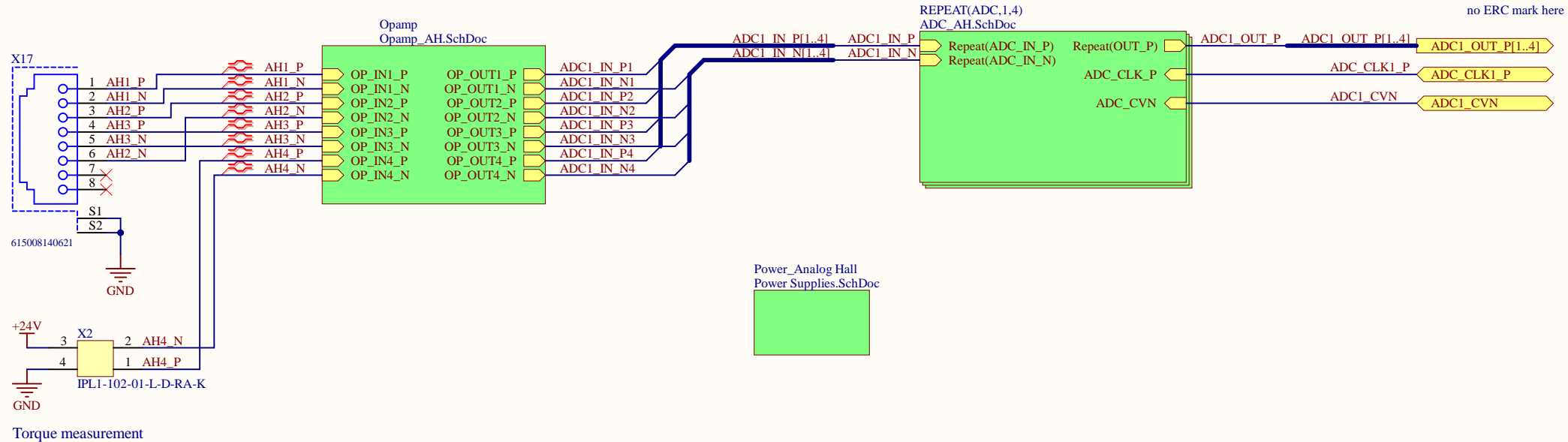
Logo G.S. Ohm


Logo TUM

Logo Usach

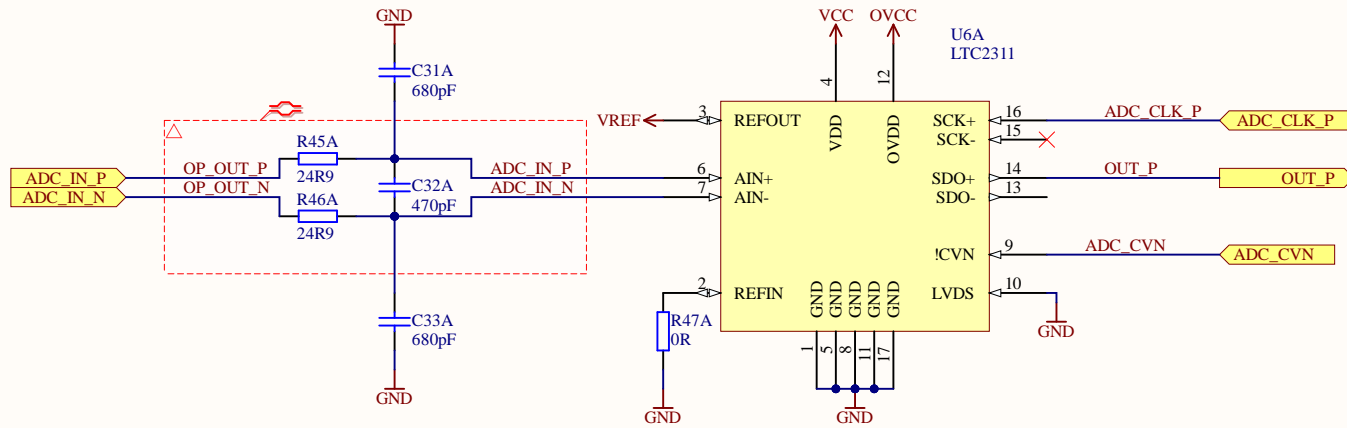
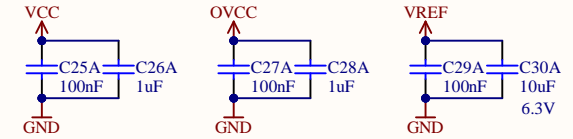



Title Absolute Encoder.SchDoc		UltraZohm www.ultrazohm.com	
Revision: 1v01	Design Engineer: Thomas Effenberger		
Project: UltraZohm_Digital_Sensor_Board.PrijPcb		Date: 03.11.2020	
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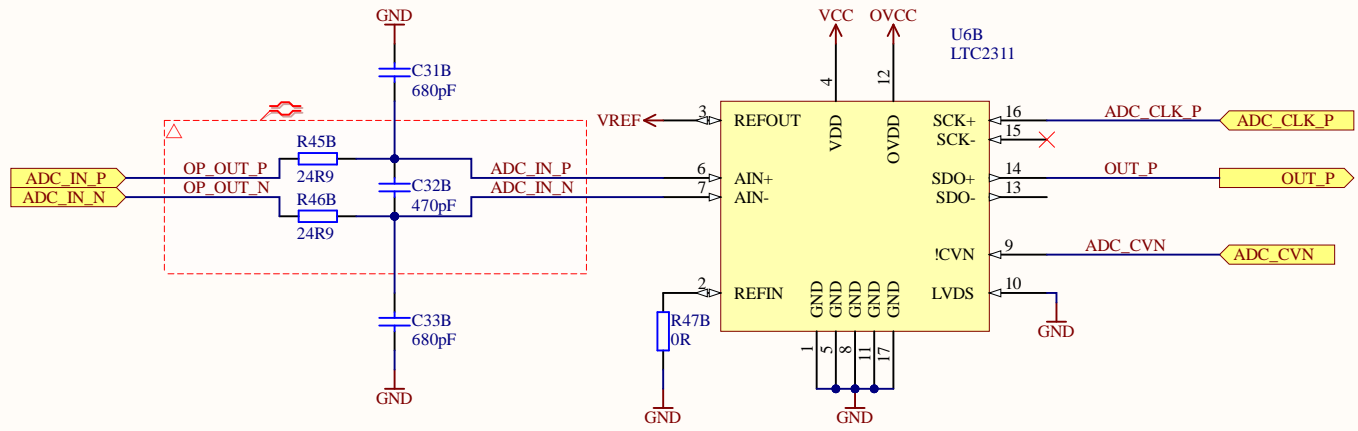
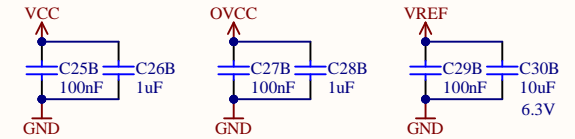
Title Analog Hall.SchDoc		UltraZohm www.ultrazohm.com	
Revision: 1v01	Design Engineer: Thomas Effenberger		
Project: UltraZohm_Digital_Sensor_Board.PrjPcb		Date: 03.11.2020	
		Sheet 3 of 15	

ADC can provide internal 4.096V reference. For that purpose R47 has to be replaced by 10u capacitor

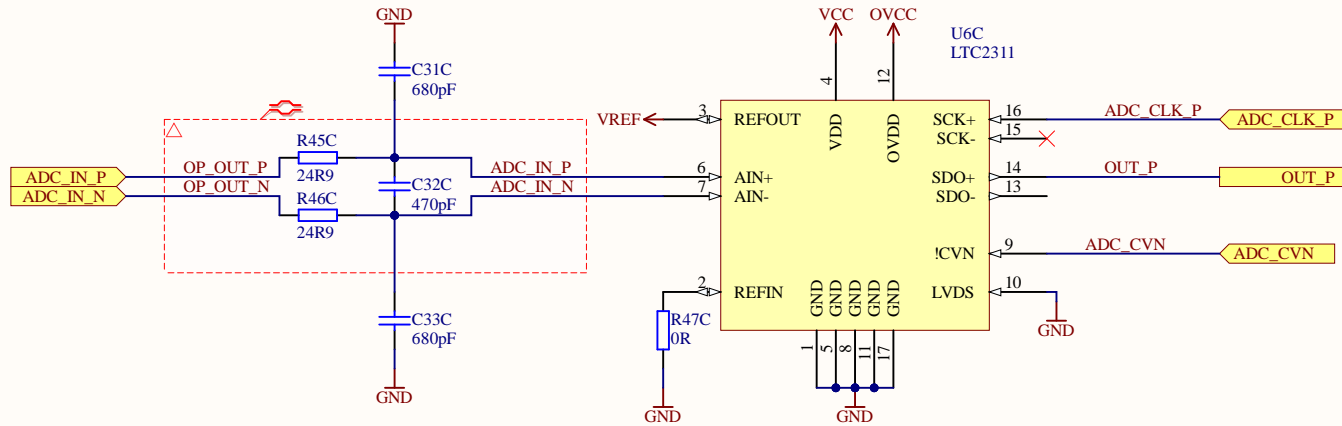
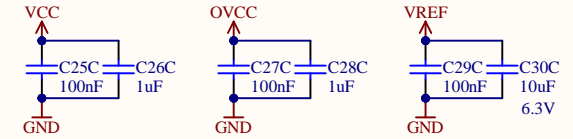


Title ADC_AH.SchDoc		UltraZohm www.ultrazohm.com	
Revision: 1v01	Design Engineer: Thomas Effenberger		
Project: UltraZohm_Digital_Sensor_Board.PrjPcb		Date: 03.11.2020	
		Sheet 4.1 of 15	

ADC can provide internal 4.096V reference. For that purpose R47 has to be replaced by 10u capacitor



ADC can provide internal 4.096V reference. For that purpose R47 has to be replaced by 10u capacitor

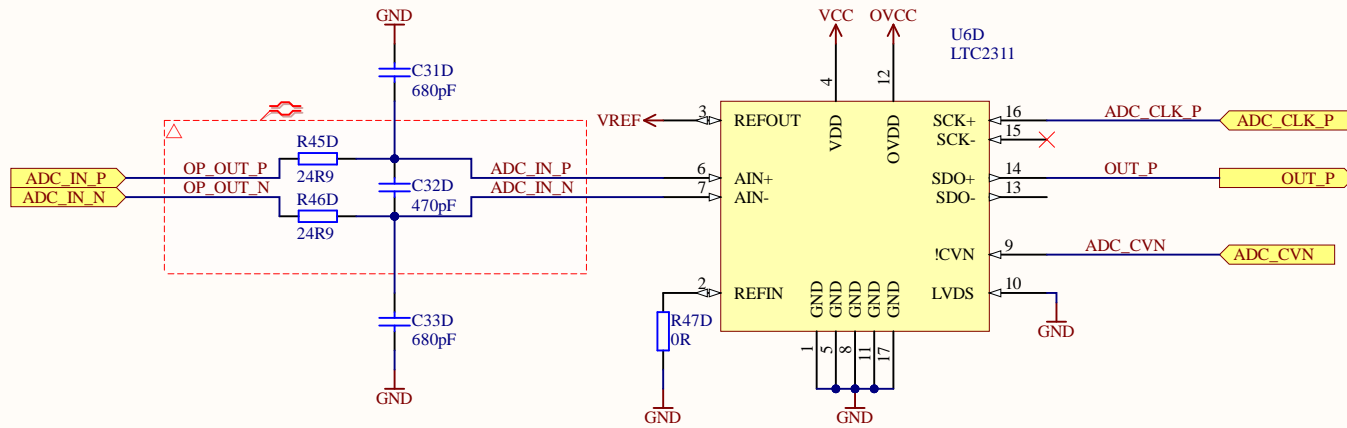
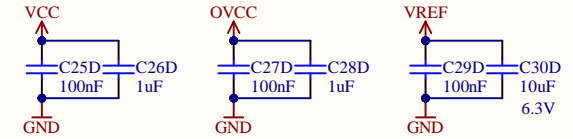


Title ADC_AH.SchDoc	
Revision: 1v01	Design Engineer: Thomas Effenberger
Project: UltraZohm_Digital_Sensor_Board.PrjPcb	

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ADC can provide internal 4.096V reference. For that purpose R47 has to be replaced by 10u capacitor



Title ADC_AH.SchDoc

Revision: 1v01

Design Engineer: Thomas Effenberger

Project: UltraZohm_Digital_Sensor_Board.PrjPcb

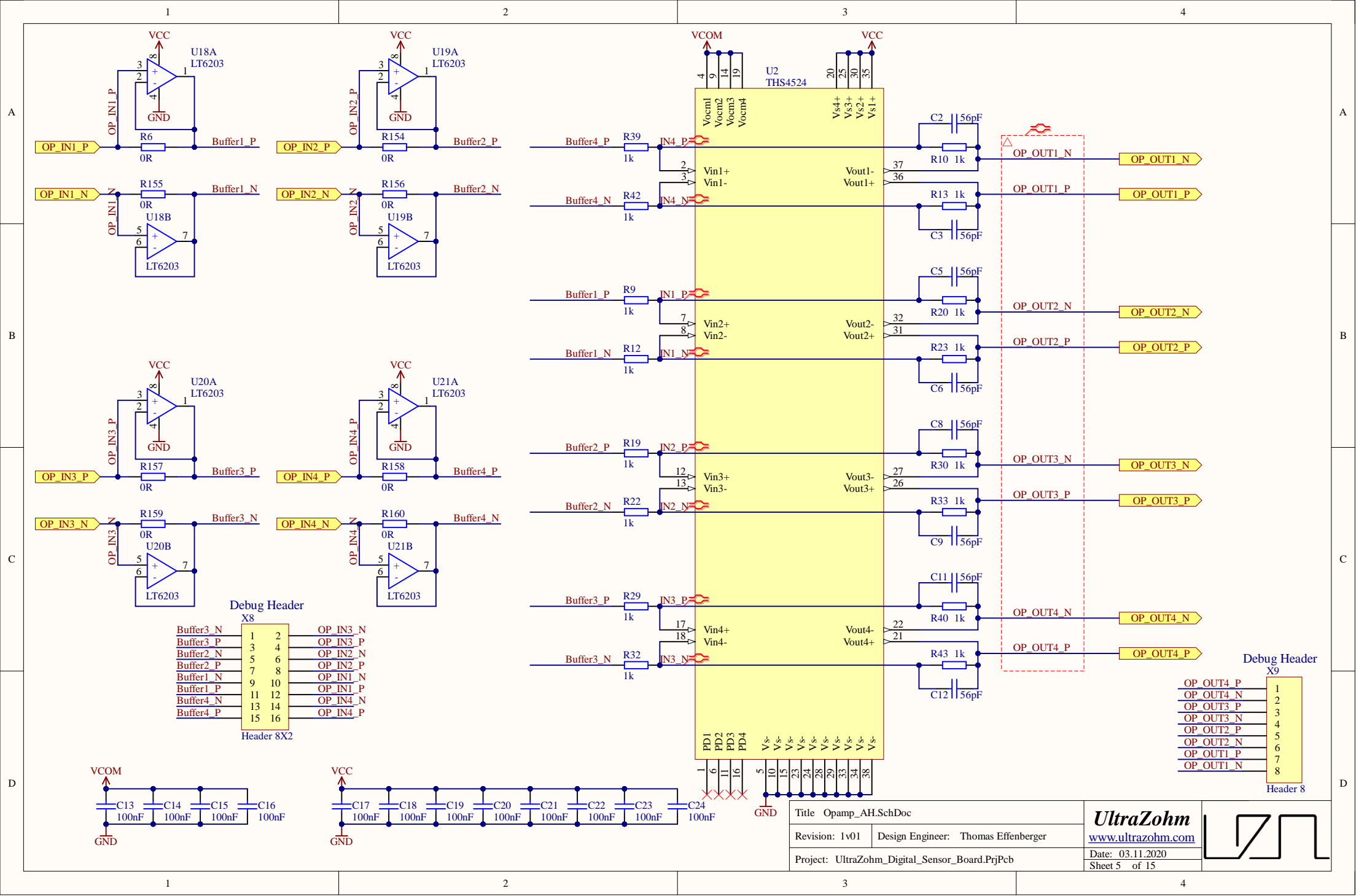
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Debug Header X8

Buffer3_N	1	2	OP_IN3_N
Buffer3_P	3	4	OP_IN3_P
Buffer2_N	5	6	OP_IN2_N
Buffer2_P	7	8	OP_IN2_P
Buffer1_N	9	10	OP_IN1_N
Buffer1_P	11	12	OP_IN1_P
Buffer4_N	13	14	OP_IN4_N
Buffer4_P	15	16	OP_IN4_P

Header 8X2

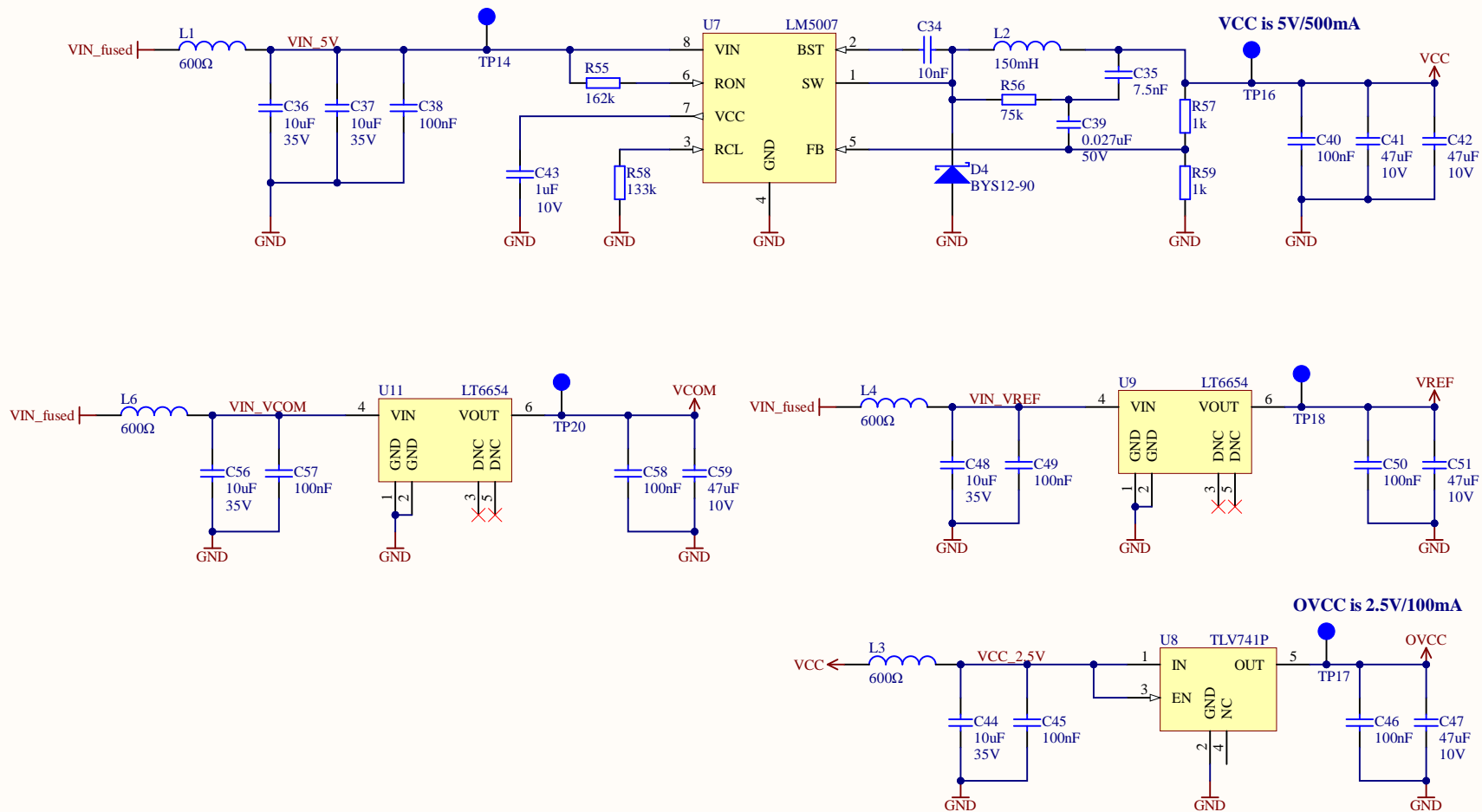
Debug Header X9

OP_OUT4_P	1
OP_OUT4_N	2
OP_OUT3_P	3
OP_OUT3_N	4
OP_OUT2_P	5
OP_OUT2_N	6
OP_OUT1_P	7
OP_OUT1_N	8


Header 8

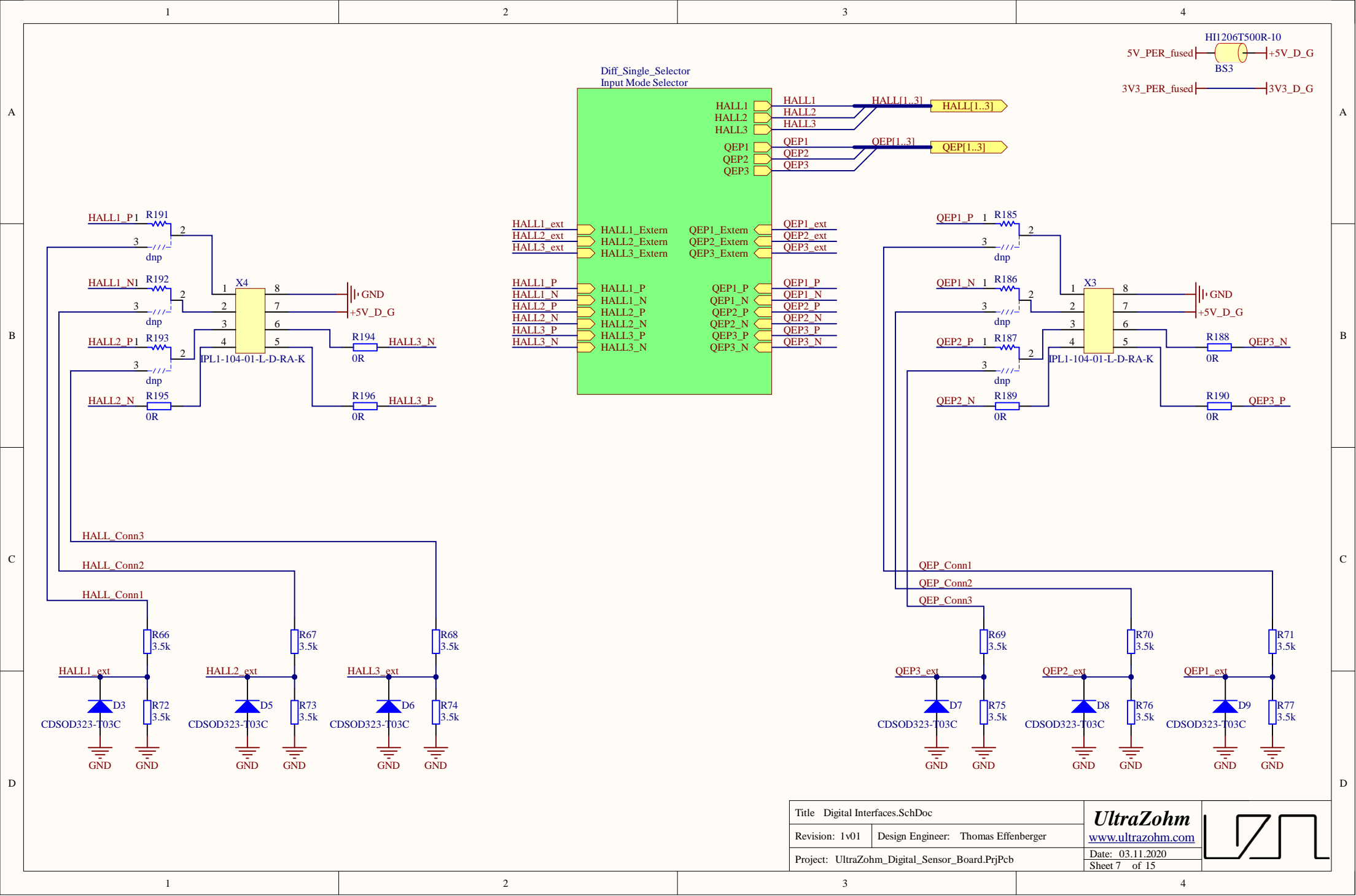
Title Opamp_AH.SchDoc		UltraZohm www.ultrazohm.com	
Revision: 1v01	Design Engineer: Thomas Effenberger		
Project: UltraZohm_Digital_Sensor_Board.PriJpcb		Date: 03.11.2020	Sheet 5 of 15

Power supplies for the Analog Hall Interface



LT6655 is available in 1.25V/2.048V/2.5V/3V/3.3V/4.096V/5V
 If the internal reference from LTC2311 is used U9 must not be fitted
 U10 is only required for single ended signals with offsetpotential

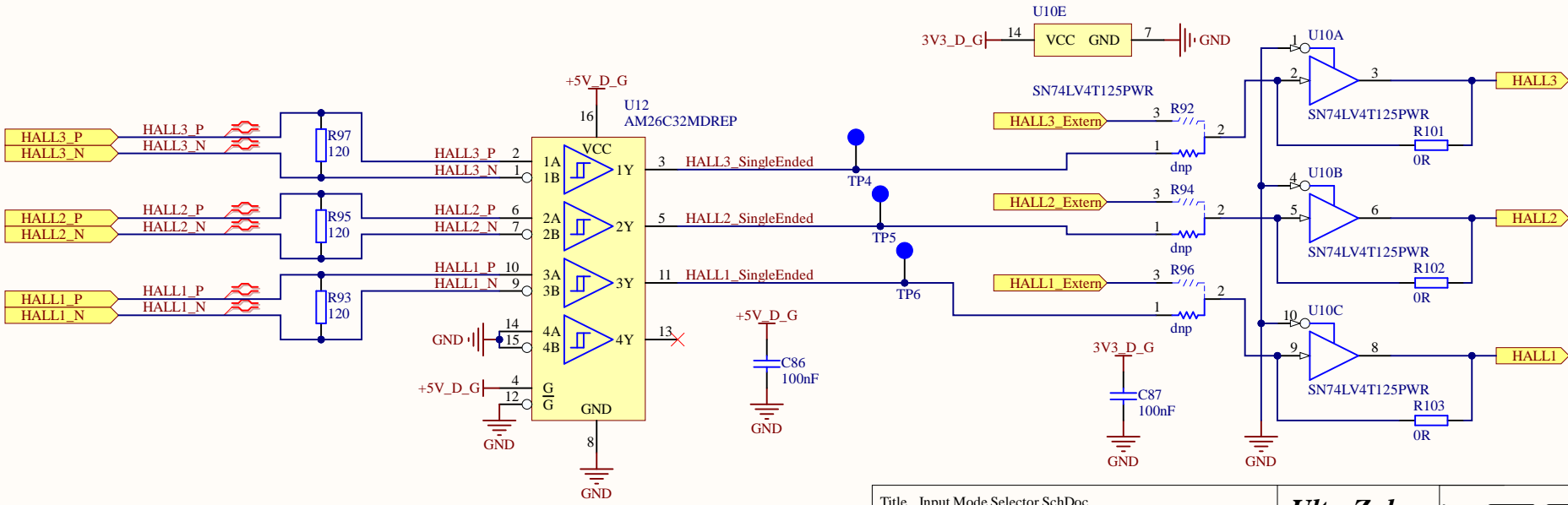
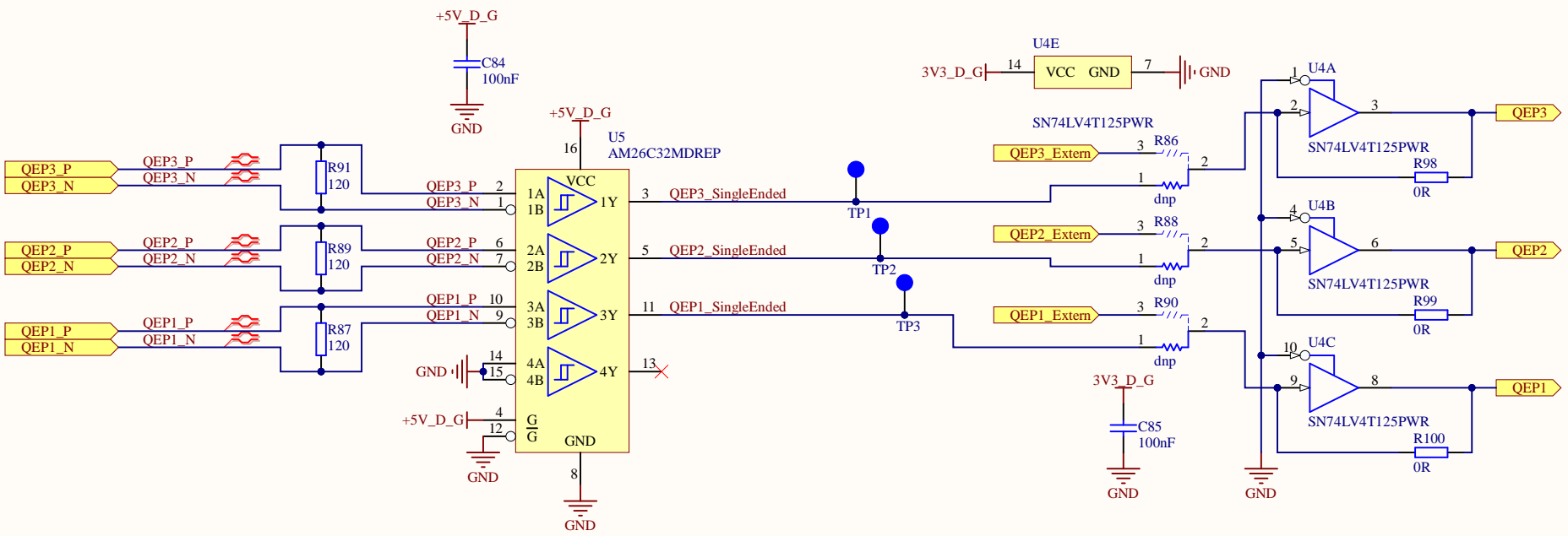
Title Power Supplies.SchDoc		UltraZohm www.ultrazohm.com	
Revision: 1v01	Design Engineer: Thomas Effenberger		
Project: UltraZohm_Digital_Sensor_Board.PrjPcb		Date: 03.11.2020	Sheet 6 of 15

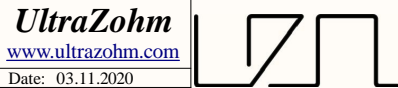


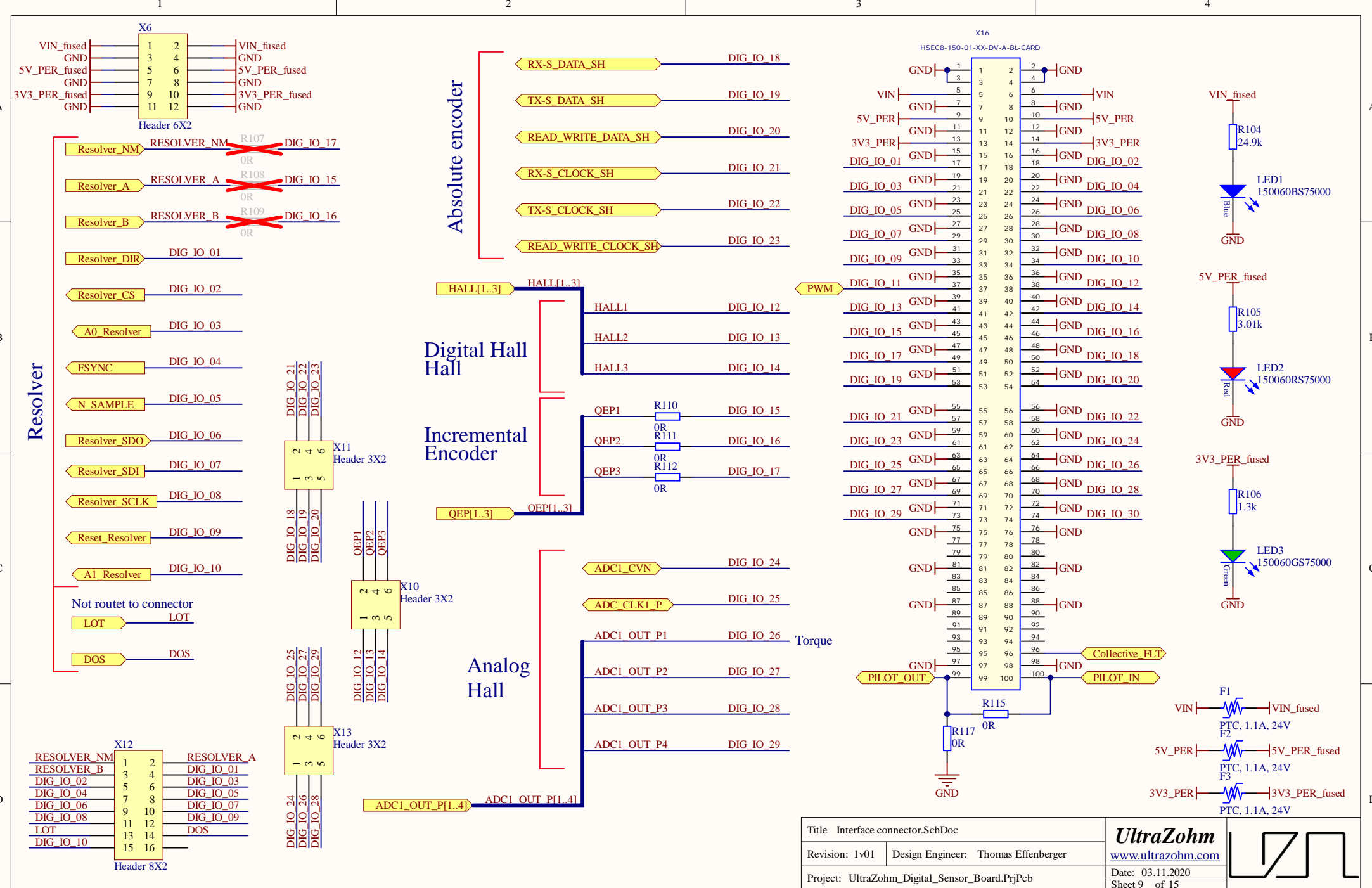
Title Digital Interfaces.SchDoc
Revision: 1v01 Design Engineer: Thomas Effenberger
Project: UltraZohm_Digital_Sensor_Board.PriJpcb

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Date: 03.11.2020
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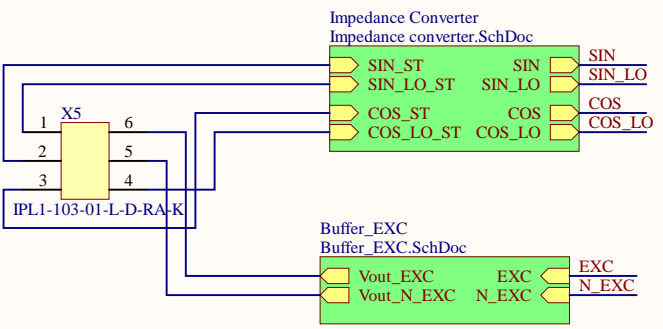




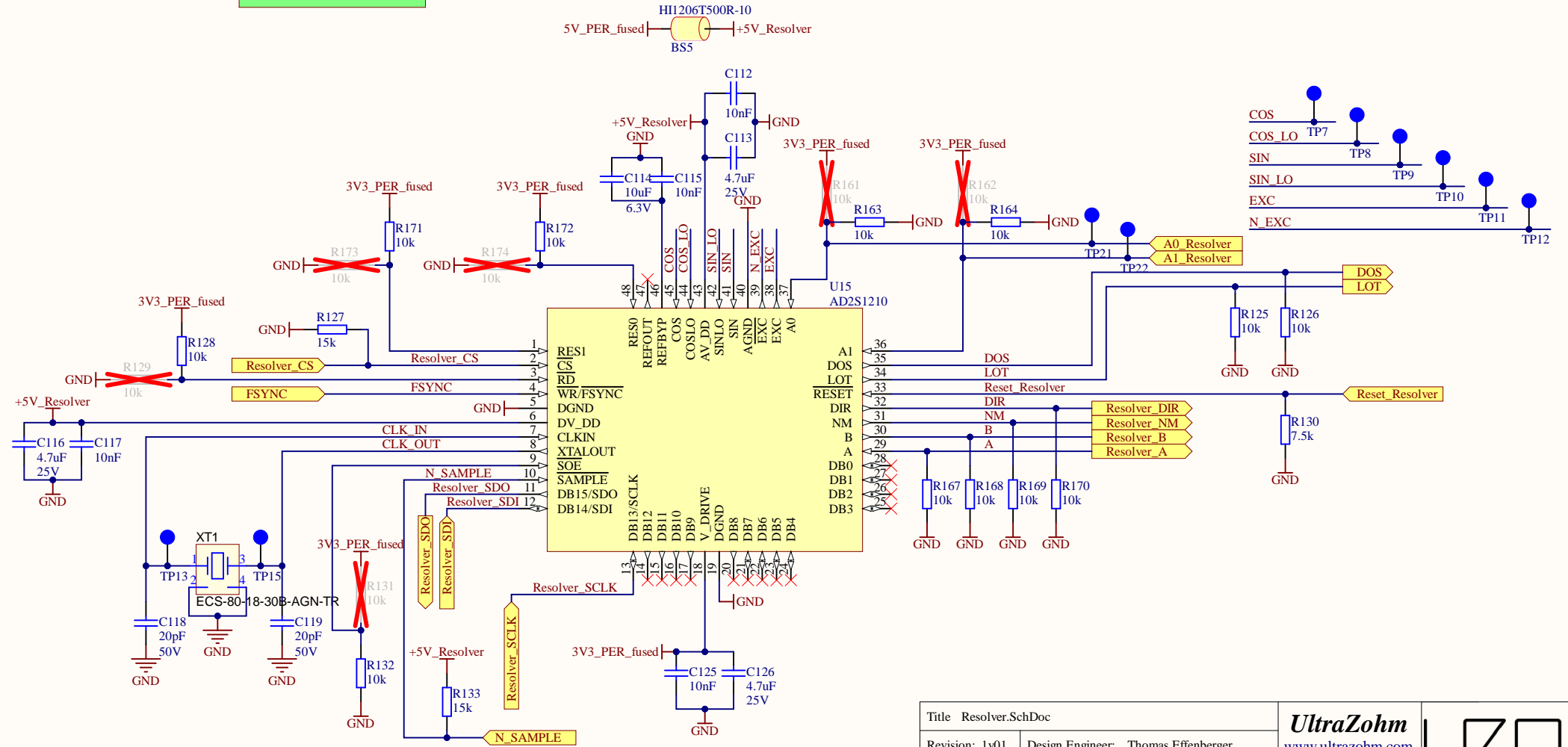
Title Input Mode Selector.SchDoc		
Revision: 1v01	Design Engineer: Thomas Effenberger	
Project: UltraZohm_Digital_Sensor_Board.PriJpcb		Date: 03.11.2020
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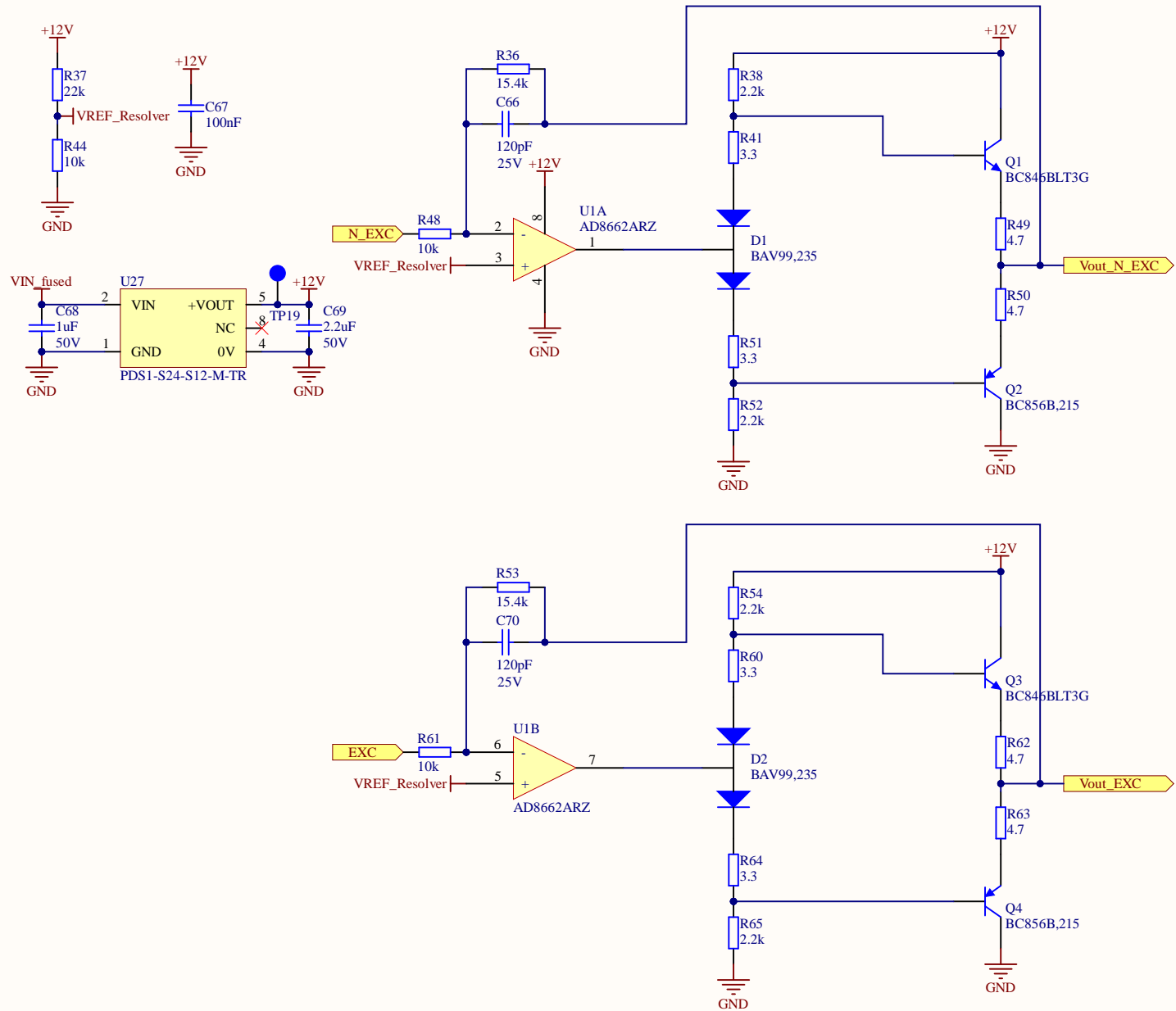
Title Interface connector.SchDoc		UltraZohm www.ultrazohm.com	
Revision: 1v01	Design Engineer: Thomas Effenberger		
Project: UltraZohm_Digital_Sensor_Board.PriPcb		Date: 03.11.2020	Sheet 9 of 15

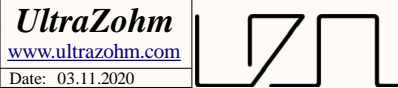


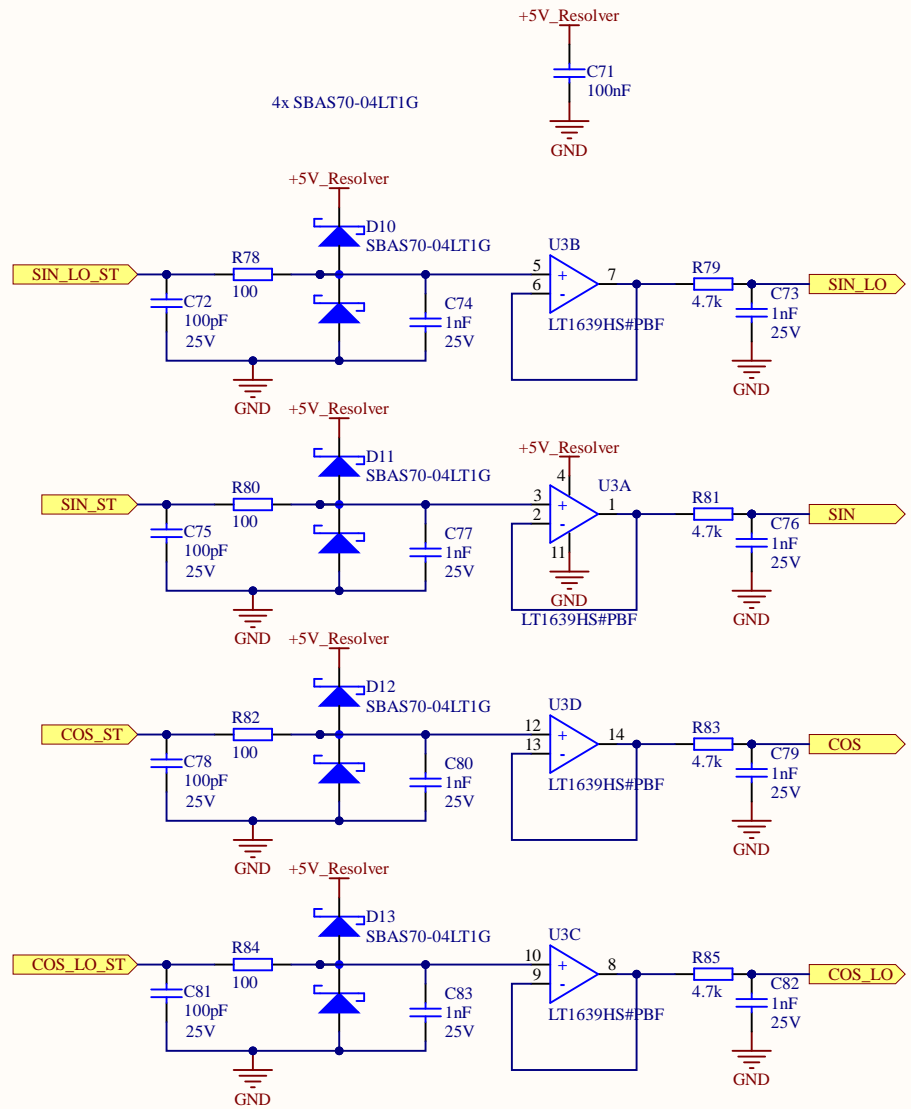
SOE = LOW means Serial Interface is selected
RES1 = RES0 = HIGH means 16 bits resolution



Title Resolver.SchDoc		UltraZohm www.ultrazohm.com	
Revision: 1v01	Design Engineer: Thomas Effenberger		
Project: UltraZohm_Digital_Sensor_Board.PriJPCb		Date: 03.11.2020	
		Sheet 10 of 15	



Title Buffer_EXC.SchDoc		
Revision: 1v01	Design Engineer: Thomas Effenberger	
Project: UltraZohm_Digital_Sensor_Board.PrjPcb		Date: 03.11.2020
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Title Impedance converter.SchDoc	
Revision: 1v01	Design Engineer: Thomas Effenberger
Project: UltraZohm_Digital_Sensor_Board.PrjPcb	

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