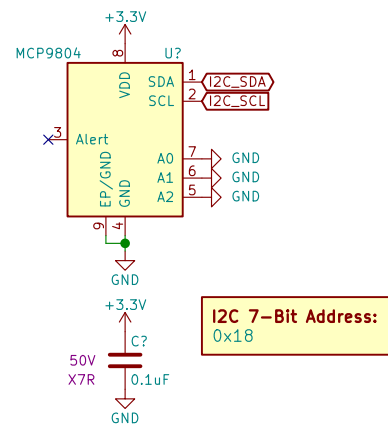
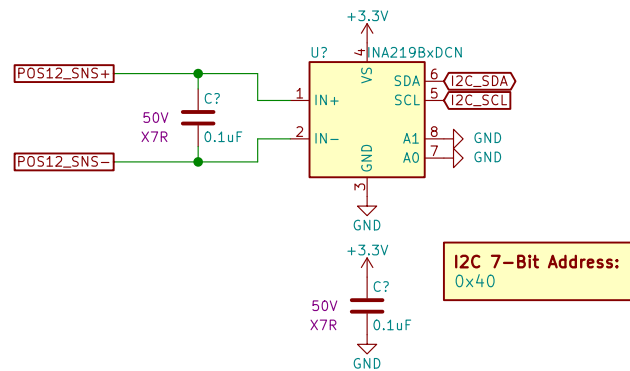


	1	2	3	4	5		
A		<div>Sheet: +12V Input</div> <div>File: POS12_Input.sch</div> <div>Sheet: +12V Telemetry</div> <div>File: POS12_Telemetry.sch</div> <div>Sheet: +3.3V Power Supply</div> <div>File: POS3P3_Power_Supply.sch</div> <div>Sheet: +3.3V Telemetry</div> <div>File: POS3P3_Telemetry.sch</div> <div>Sheet: +1.8V Power Supply</div> <div>File: POS1P8_Power_Supply.sch</div> <div>Sheet: +1.8V Telemetry</div> <div>File: POS1P8_Telemetry.sch</div> <div>Sheet: PIC32MZ Programming</div> <div>File: PIC32MZ_Programming.sch</div> <div>Sheet: PIC32MZ Bypass</div> <div>File: PIC32MZ_Bypass.sch</div> <div>Sheet: PIC32MZ Clocking</div> <div>File: PIC32MZ_Clocking.sch</div> <div>Sheet: PIC32MZ</div> <div>File: PIC32MZ.sch</div> <div>Sheet: USB UART Bridge</div> <div>File: USB_UART_Bridge.sch</div> <div>Sheet: USB Telemetry</div> <div>File: USB_Telemetry.sch</div> <div>Sheet: Time of Flight</div> <div>File: Time_of_Flight.sch</div> <div>Sheet: POX Sensor</div> <div>File: POX_Sensor.sch</div> <div>Sheet: Display</div> <div>File: Display.sch</div> <div>Sheet: Pushbuttons</div> <div>File: Pushbuttons.sch</div>		<div>Sheet: PG00D LEDs</div> <div>File: PG00D_LEDs.sch</div> <div>Sheet: Status LEDs</div> <div>File: Status_LEDs.sch</div> <div>Sheet: Misc Circuits</div> <div>File: Misc_Circuits.sch</div> <div>Sheet: Backup RTC</div> <div>File: Backup_RTC.sch</div> <div>Sheet: SD Card Slot</div> <div>File: SD_Card_Slot.sch</div>			A
B						B	
C						C	
D					<div>Drew Maatman</div> <div>Sheet: /</div> <div>File: Pulse_Oximeter.sch</div> <div>Title: Pulse Oximeter</div> <div>Size: A</div> <div>Date: 2020-05-10</div> <div>Rev: A</div> <div>KiCad E.D.A. kicad (5.1.4)-1</div> <div>Id: 1/22</div>	D	
	1	2	3	4	5		

Rev: A  
Id: 2/22



**Drew Maatman**

Sheet: /+12V Telemetry/  
File: POS12\_Telemetry.sch

**Title: Pulse Oximeter**

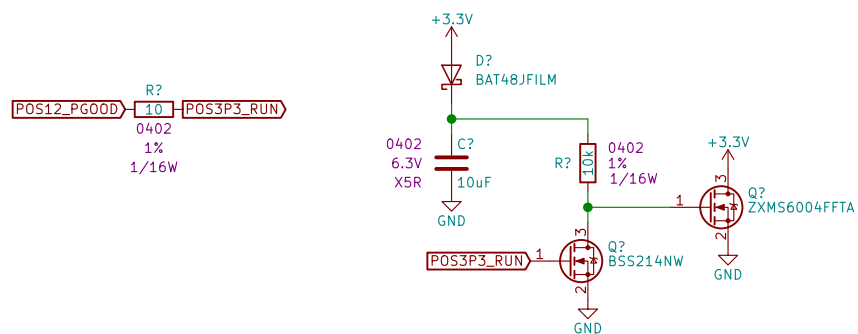
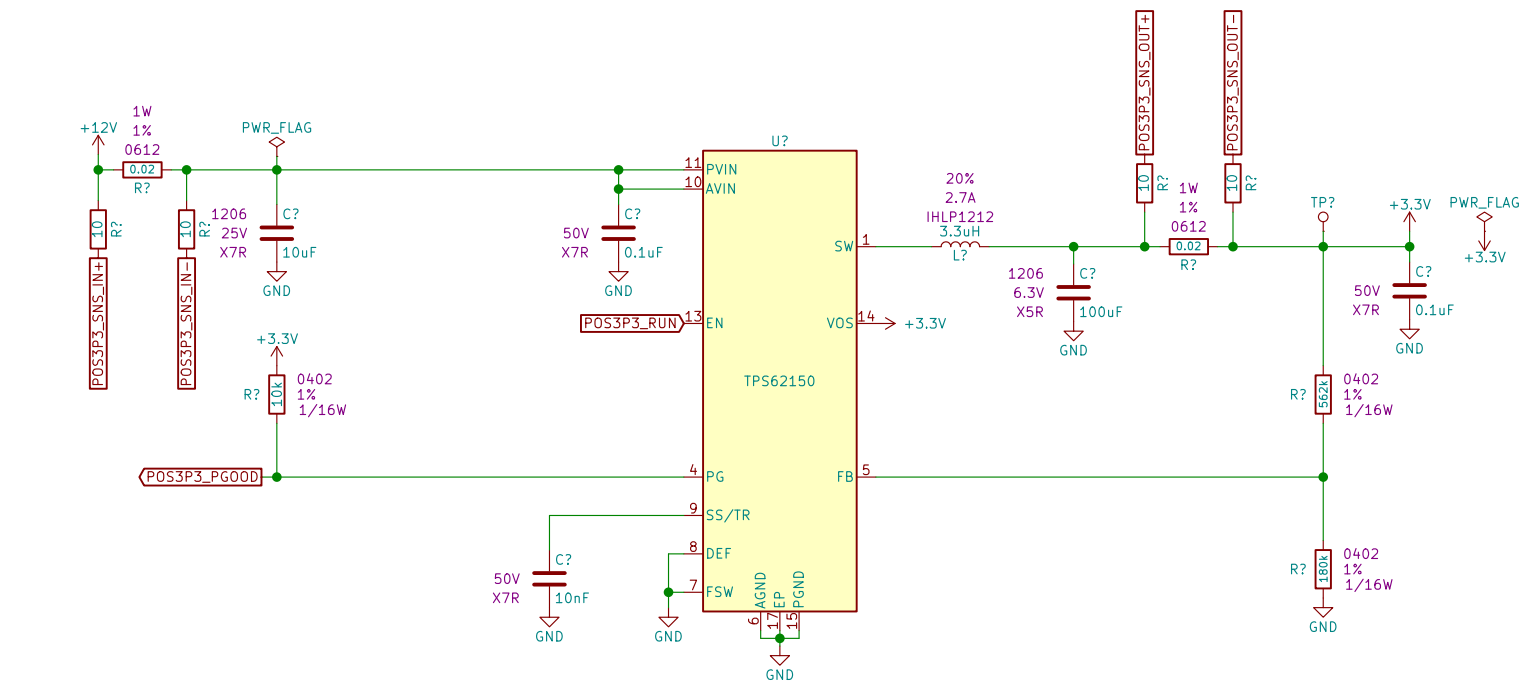
Size: A

Date:

KiCad E.D.A. kicad (5.1.4)-1

**Rev: A**

Id: 3/22



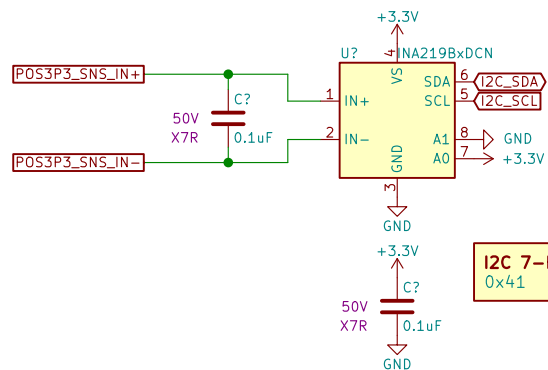
**Drew Maatman**

Sheet: /+3.3V Power Supply/  
File: POS3P3\_Power\_Supply.sch

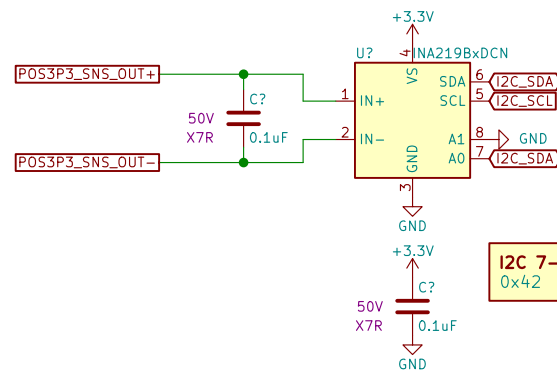
**Title: Pulse Oximeter**

Size: A Date: 2019-01-03  
KiCad E.D.A. kicad (5.1.4)-1

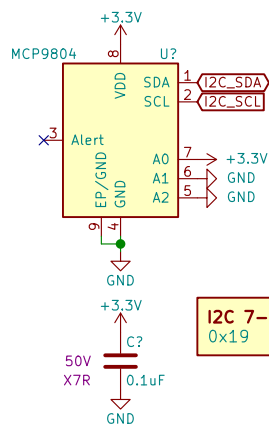
**Rev: A**  
Id: 4/22



I2C 7-Bit Address:  
0x41



I2C 7-Bit Address:  
0x42



I2C 7-Bit Address:  
0x19

Drew Maatman

Sheet: /+3.3V Telemetry/  
File: POS3P3\_Telemetry.sch

**Title: Pulse Oximeter**

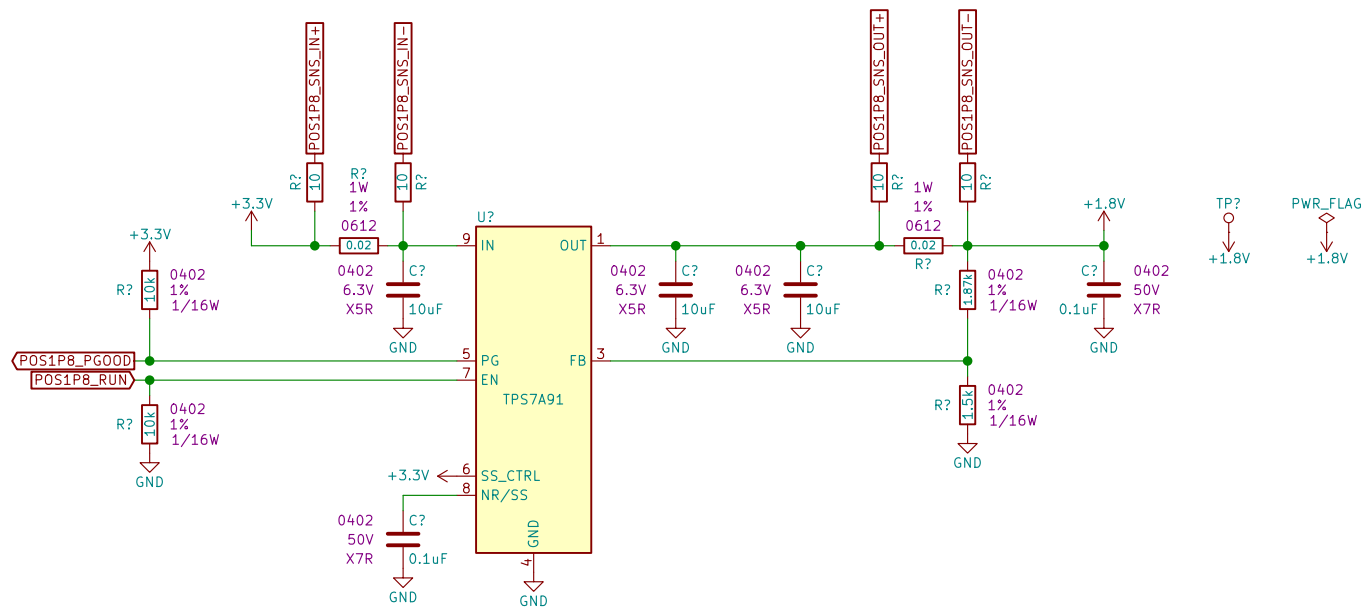
Size: A

Date:

KiCad E.D.A. kicad (5.1.4)-1

Rev: A

Id: 5/22



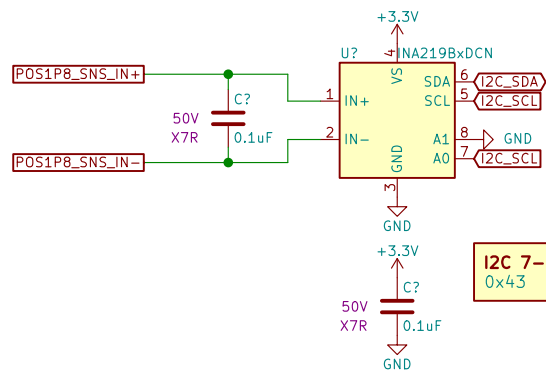
Drew Maatman

Sheet: /+1.8V Power Supply/  
File: POS1P8\_Power\_Supply.sch

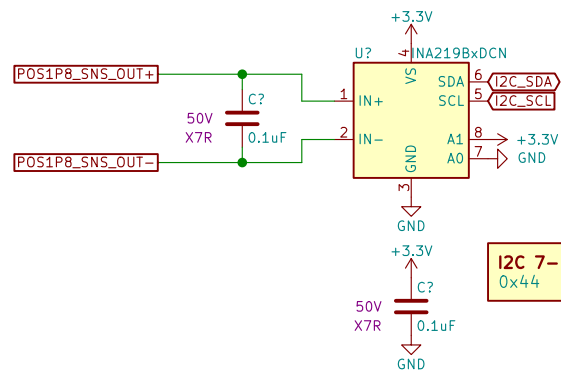
**Title: Pulse Oximeter**

Size: A Date: 2020-05-02  
KiCad E.D.A. kicad (5.1.4)-1

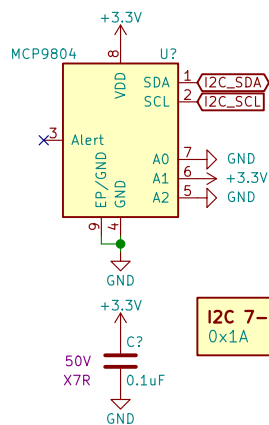
Rev: A  
Id: 6/22



I2C 7-Bit Address:  
0x43



I2C 7-Bit Address:  
0x44



I2C 7-Bit Address:  
0x1A

Drew Maatman

Sheet: //+1.8V Telemetry/  
File: POS1P8\_Telemetry.sch

**Title: Pulse Oximeter**

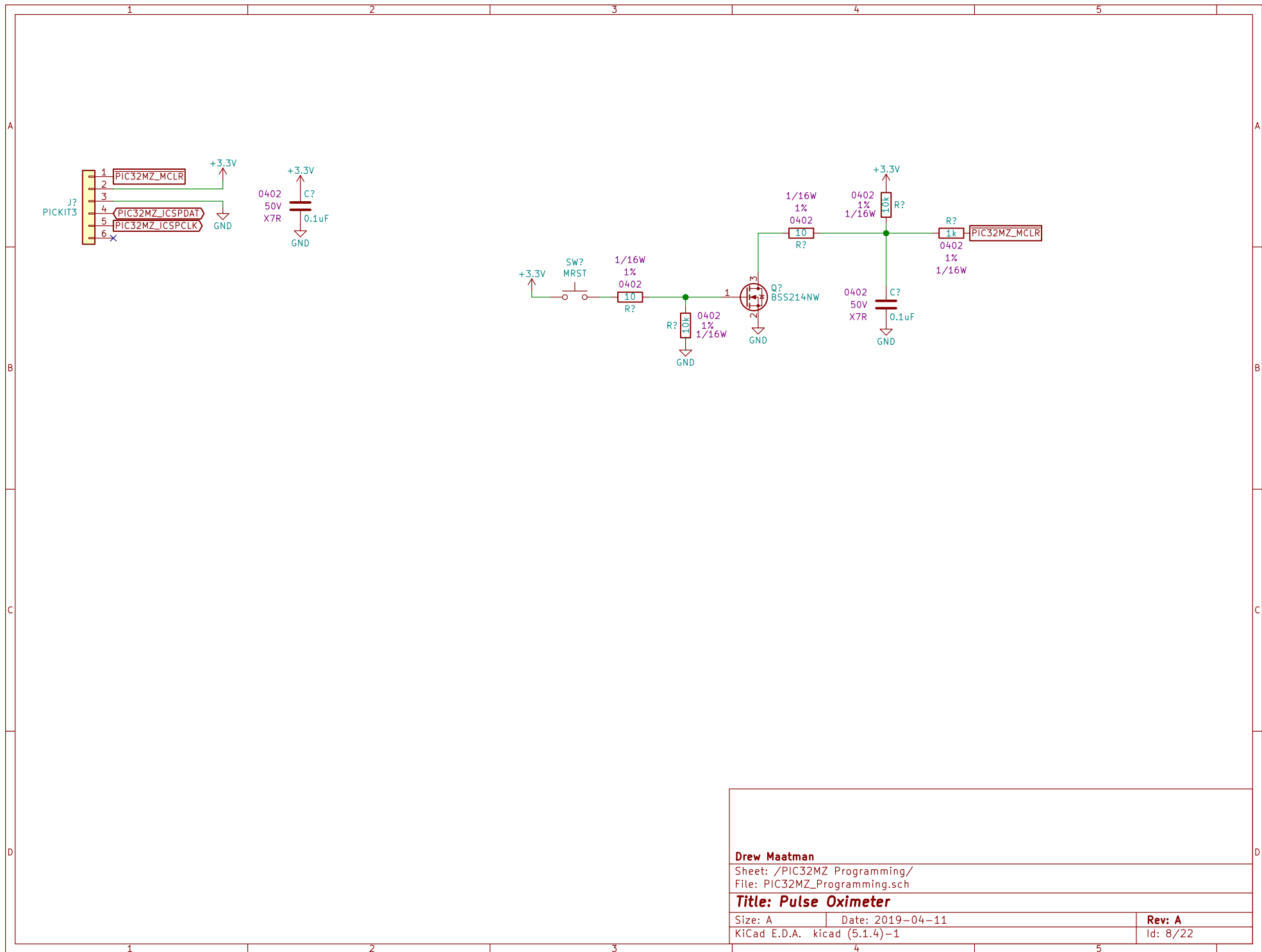
Size: A

Date:

KiCad E.D.A. kicad (5.1.4)-1

Rev: A

Id: 7/22



Drew Maatman

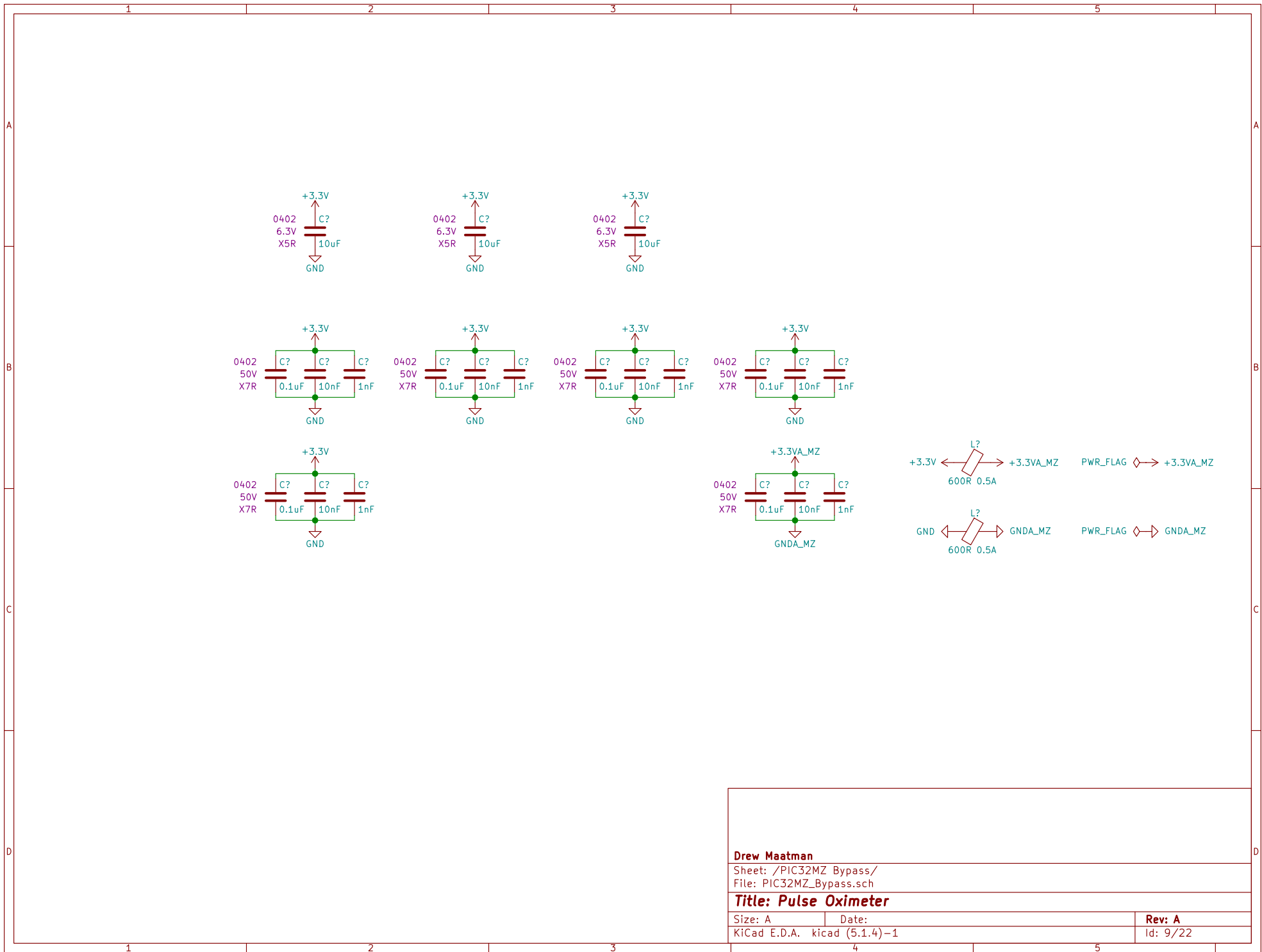
Sheet: /PIC32MZ Programming/  
File: PIC32MZ\_Programming.sch

**Title: Pulse Oximeter**

Size: A Date: 2019-04-11  
KiCad E.D.A. kicad (5.1.4)-1

Rev: A  
Id: 8/22





Drew Maatman

Sheet: /PIC32MZ Bypass/  
File: PIC32MZ\_Bypass.sch

**Title: Pulse Oximeter**

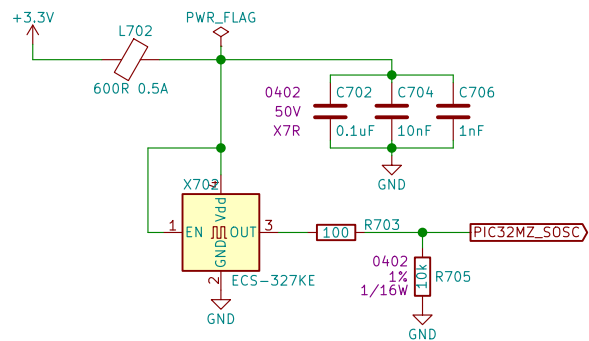
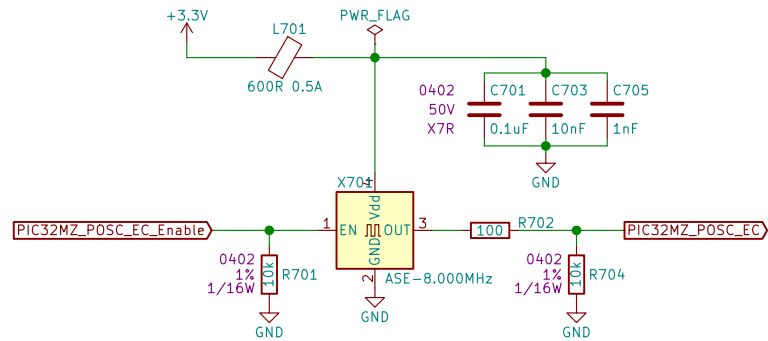
Size: A

Date:

KiCad E.D.A. kicad (5.1.4)-1

Rev: A

Id: 9/22



Sheet: /PIC32MZ Clocking/  
File: PIC32MZ\_Clocking.sch

**Title:**

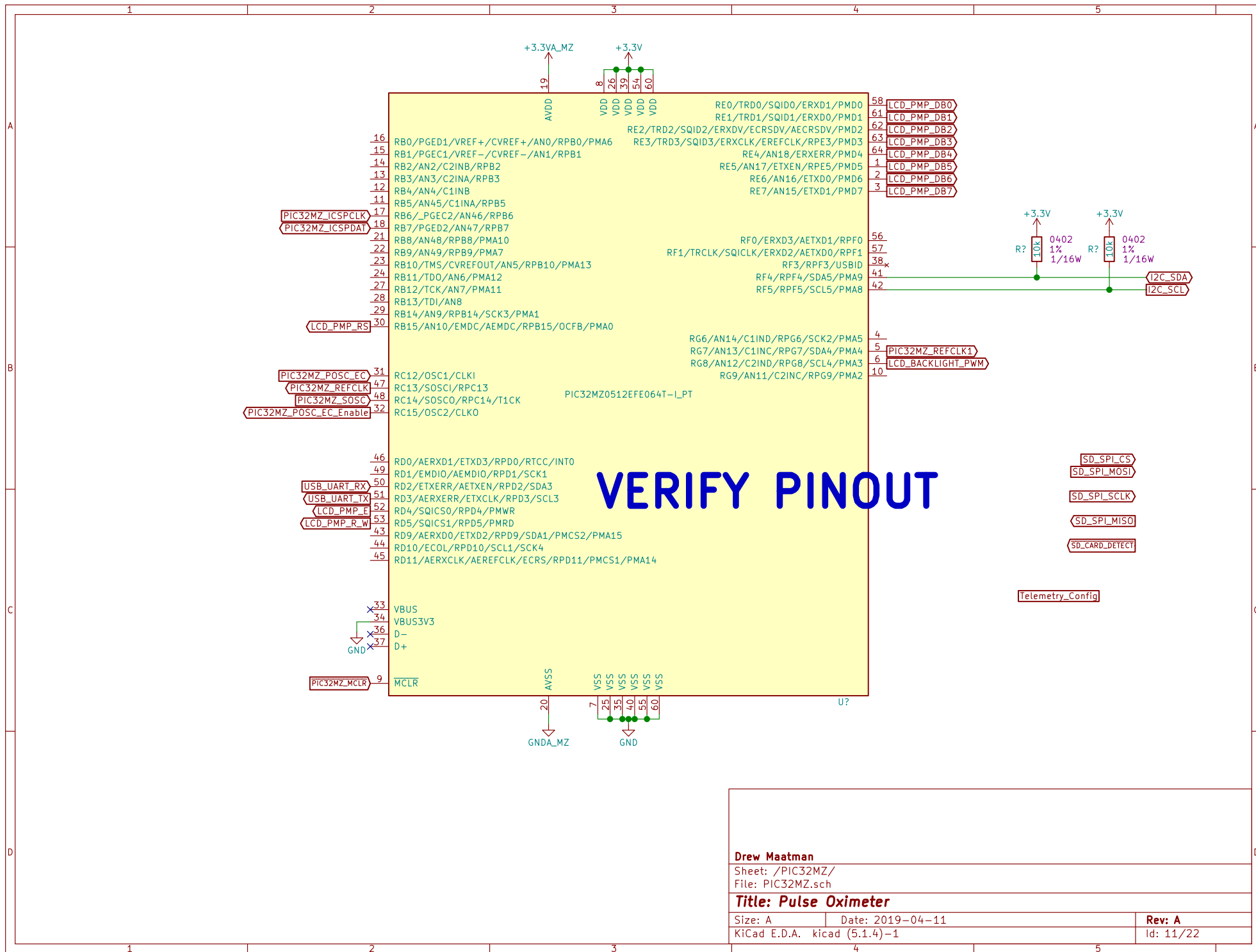
Size: A

Date:

KiCad E.D.A. kicad (5.1.4)-1

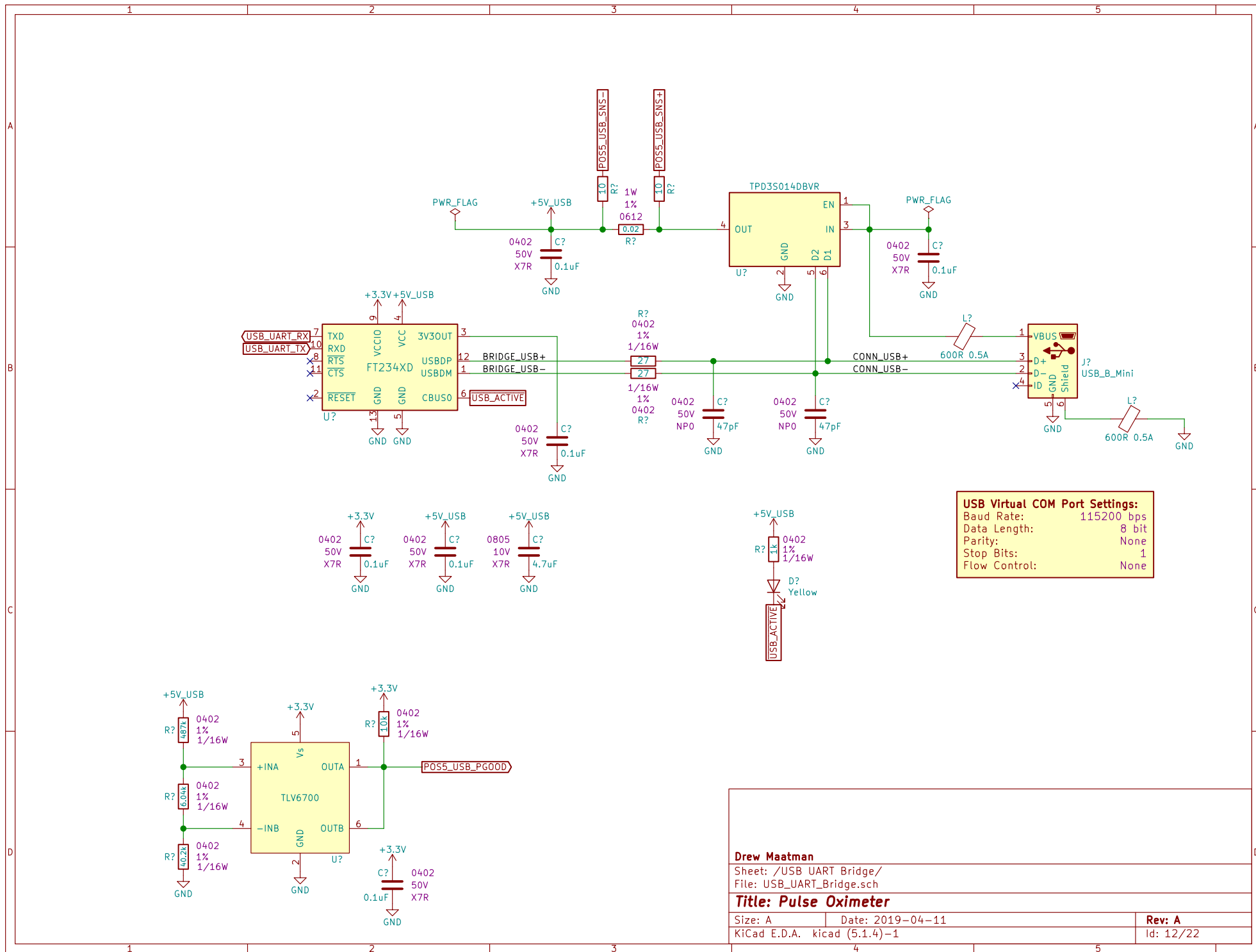
Rev:

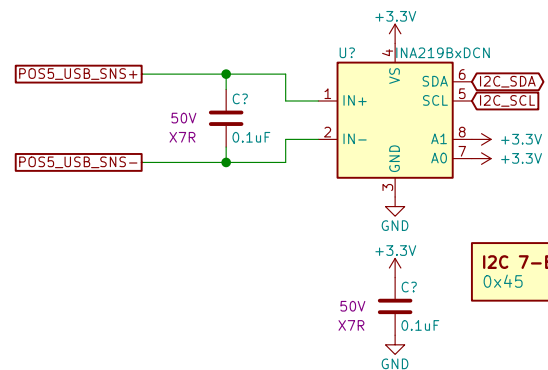
Id: 10/22



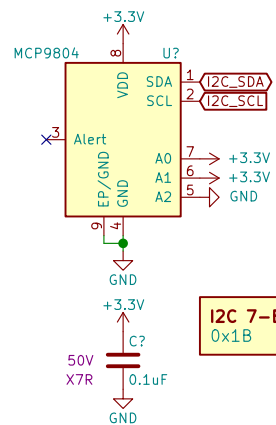
VERIFY PINOUT

Drew Maatman	
Sheet: /PIC32MZ/	
File: PIC32MZ.sch	
Title: Pulse Oximeter	
Size: A	Date: 2019-04-11
KiCad E.D.A. kicad (5.1.4)-1	Rev: A
Id: 11/22	





I2C 7-Bit Address:  
0x45



I2C 7-Bit Address:  
0x1B

Drew Maatman

Sheet: /USB Telemetry/  
File: USB\_Telemetry.sch

Title: Pulse Oximeter

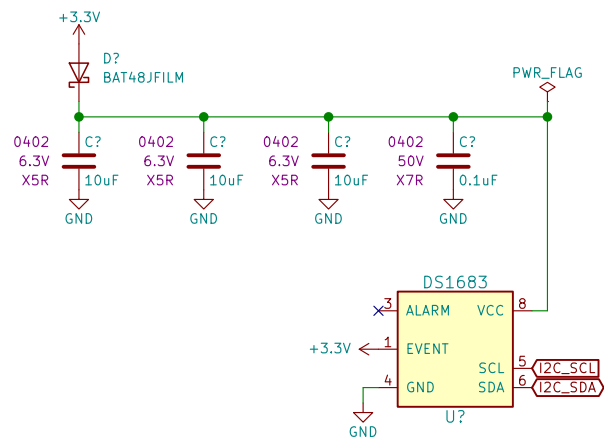
Size: A

Date:

KiCad E.D.A. kicad (5.1.4)-1

Rev: A

Id: 13/22



**I2C 7-Bit Address:**  
0x6B

**Drew Maatman**

Sheet: /Time of Flight/  
File: Time\_of\_Flight.sch

**Title: Pulse Oximeter**

Size: A

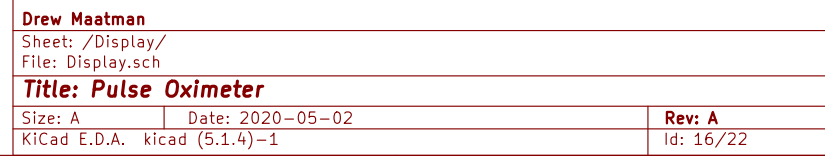
Date:

KiCad E.D.A. kicad (5.1.4)-1

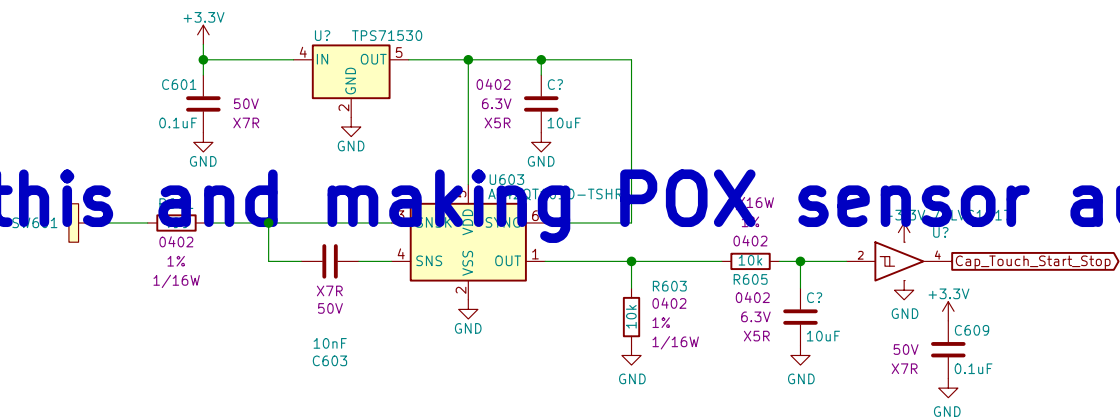
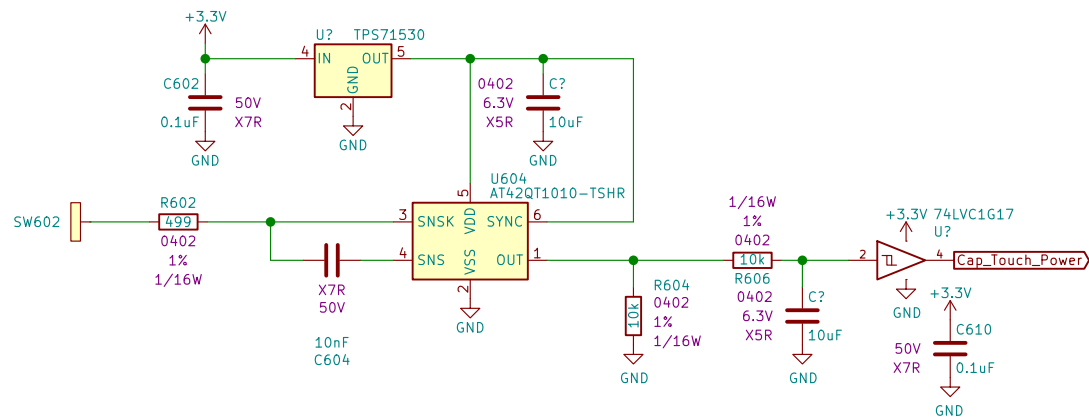
**Rev: A**

Id: 14/22









removing this and making POX sensor automatically start

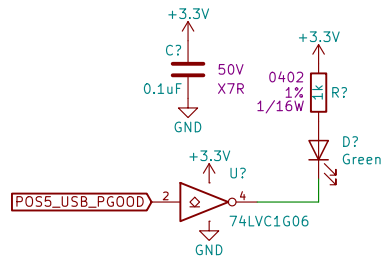
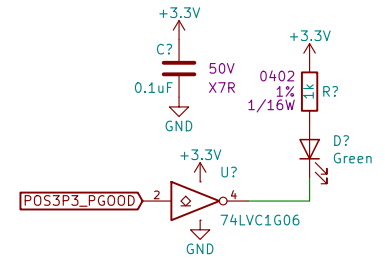
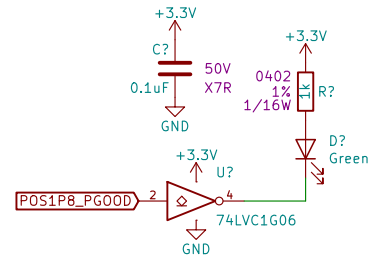
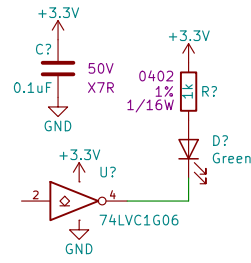
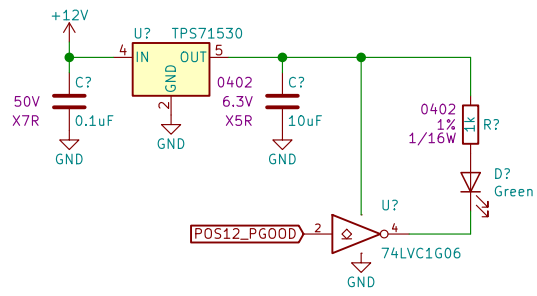
Drew Maatman

Sheet: /Pushbuttons/  
File: Pushbuttons.sch

**Title: Pulse Oximeter**

Size: A Date: 2019-09-03  
KiCad E.D.A. kicad (5.1.4)-1

Rev: A  
Id: 17/22



**Drew Maatman**

Sheet: /PGOOD LEDs/  
File: PGOOD\_LEDs.sch

**Title: Pulse Oximeter**

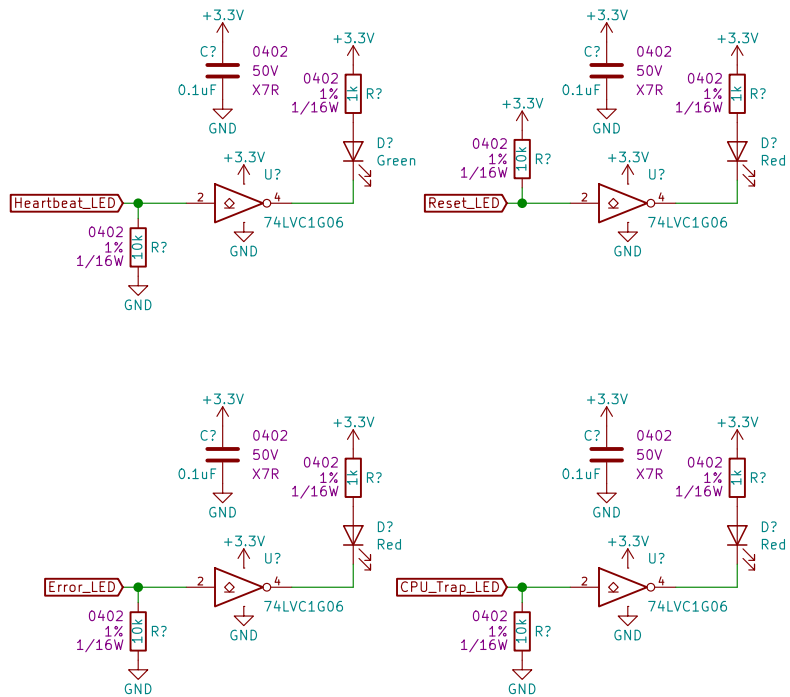
Size: A

Date:

KiCad E.D.A. kicad (5.1.4)-1

**Rev: A**

Id: 18/22



**Drew Maatman**

Sheet: /Status LEDs/  
File: Status\_LEDs.sch

**Title: Pulse Oximeter**

Size: A

Date:

KiCad E.D.A. kicad (5.1.4)-1

**Rev: A**

Id: 19/22

Id: 20/22

