

	1	2	3	4	5		
A		Sheet: +12V Input File: POS12_Input.sch Sheet: +12V Telemetry File: POS12_Telemetry.sch Sheet: +3.3V Power Supply File: POS3P3_Power_Supply.sch Sheet: +3.3V Telemetry File: POS3P3_Telemetry.sch Sheet: +1.8V Power Supply File: POS1P8_Power_Supply.sch Sheet: +1.8V Telemetry File: POS1P8_Telemetry.sch Sheet: PIC32MZ Programming File: PIC32MZ_Programming.sch Sheet: PIC32MZ Bypass File: PIC32MZ_Bypass.sch Sheet: PIC32MZ Clocking File: PIC32MZ_Clocking.sch Sheet: PIC32MZ File: PIC32MZ.sch Sheet: USB UART Bridge File: USB_UART_Bridge.sch Sheet: USB Telemetry File: USB_Telemetry.sch Sheet: Time of Flight File: Time_of_Flight.sch Sheet: POX Sensor File: POX_Sensor.sch Sheet: Display File: Display.sch Sheet: Pushbuttons File: Pushbuttons.sch		Sheet: PG00D LEDs File: PG00D_LEDs.sch Sheet: Status LEDs File: Status_LEDs.sch Sheet: Misc Circuits File: Misc_Circuits.sch Sheet: Backup RTC File: Backup_RTC.sch Sheet: SD Card Slot File: SD_Card_Slot.sch Sheet: Mechanical File: Mechanical.sch			A
B						B	
C						C	
D						D	
	1	2	3	4	5		

Drew Maatman		
Sheet: /		
File: Pulse_Oximeter.sch		
Title: Pulse Oximeter		
Size: A	Date: 2020-05-10	Rev: A
KiCad E.D.A. kicad (5.1.4)-1		Id: 1/23

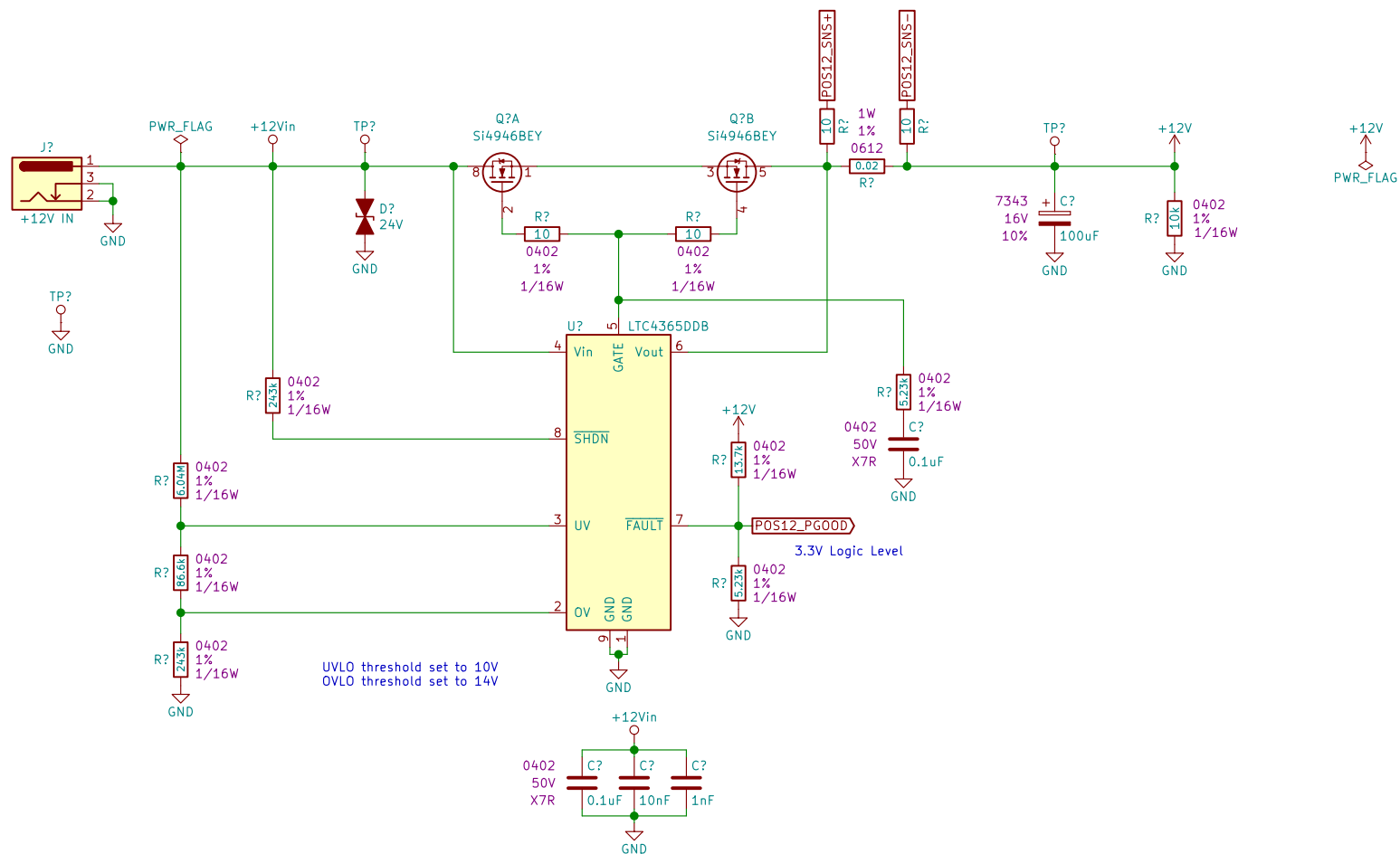
Drew Maatman

Sheet: /  
File: Pulse\_Oximeter.sch

**Title: Pulse Oximeter**

Size: A      Date: 2020-05-10  
KiCad E.D.A.    kicad (5.1.4)-1

**Rev: A**  
Id: 1/23



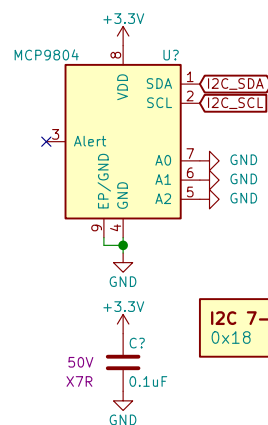
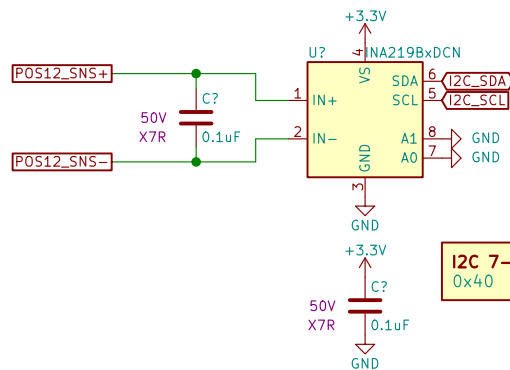
Drew Maatman

Sheet: /+12V Input/  
File: POS12\_Input.sch

**Title: Pulse Oximeter**

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

Rev: A  
Id: 2/23



**Drew Maatman**

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

**Title: Pulse Oximeter**

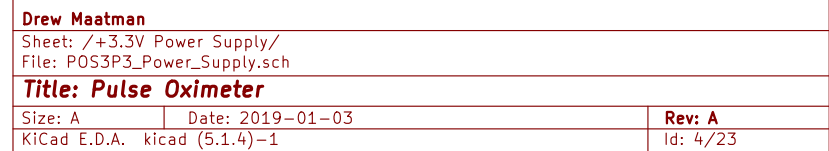
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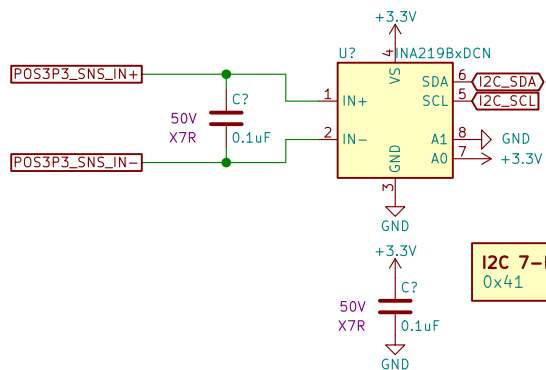
Date:

**Rev: A**

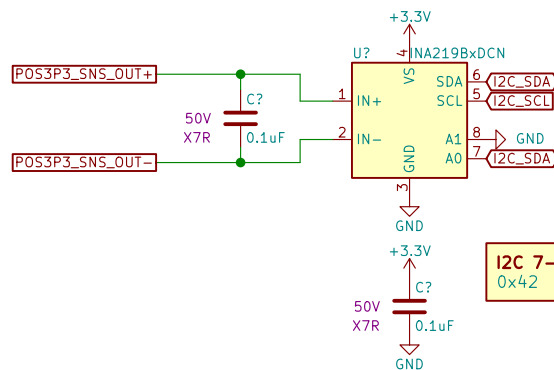
KiCad E.D.A. kicad (5.1.4)-1

Id: 3/23

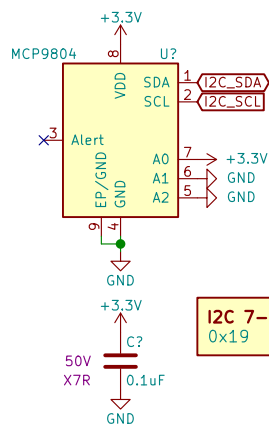




I2C 7-Bit Address:  
0x41



I2C 7-Bit Address:  
0x42



I2C 7-Bit Address:  
0x19

Drew Maatman

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

**Title: Pulse Oximeter**

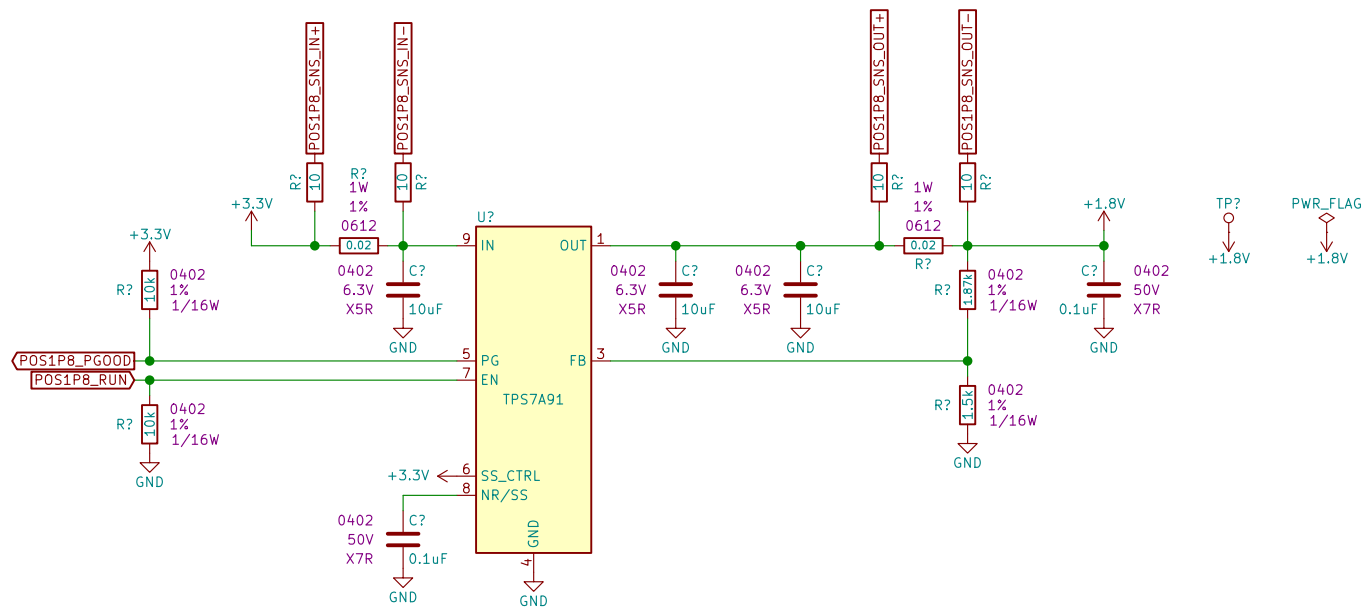
Size: A

Date:

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

Rev: A

Id: 5/23



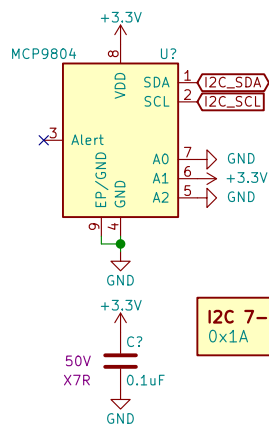
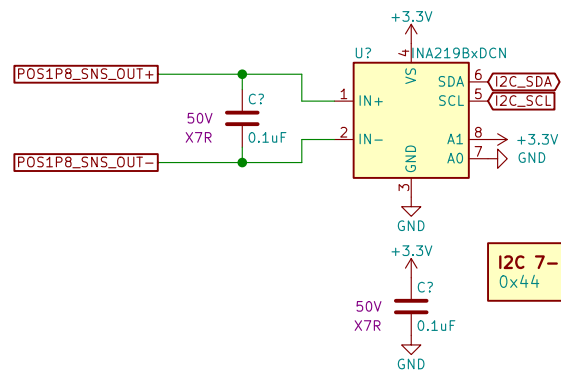
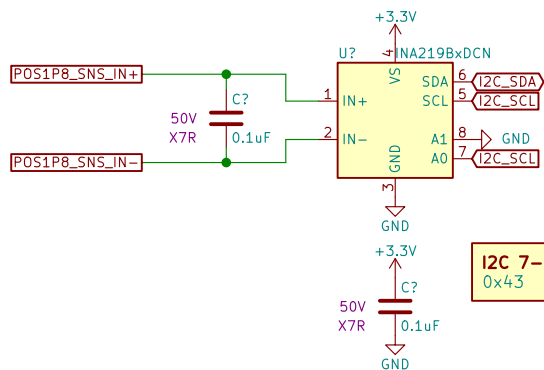
Drew Maatman

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: 6/23



Drew Maatman

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

**Title: Pulse Oximeter**

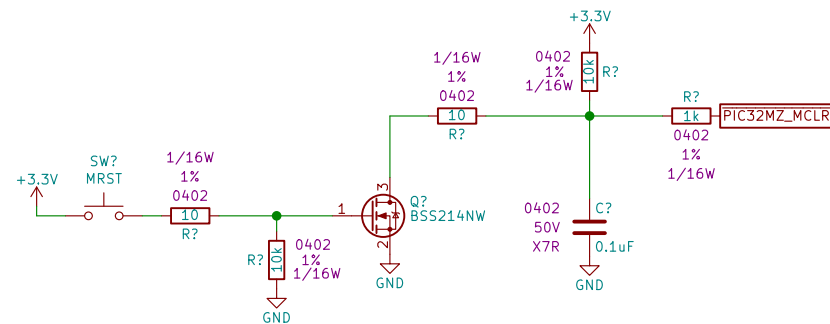
Size: A

Date:

Rev: A

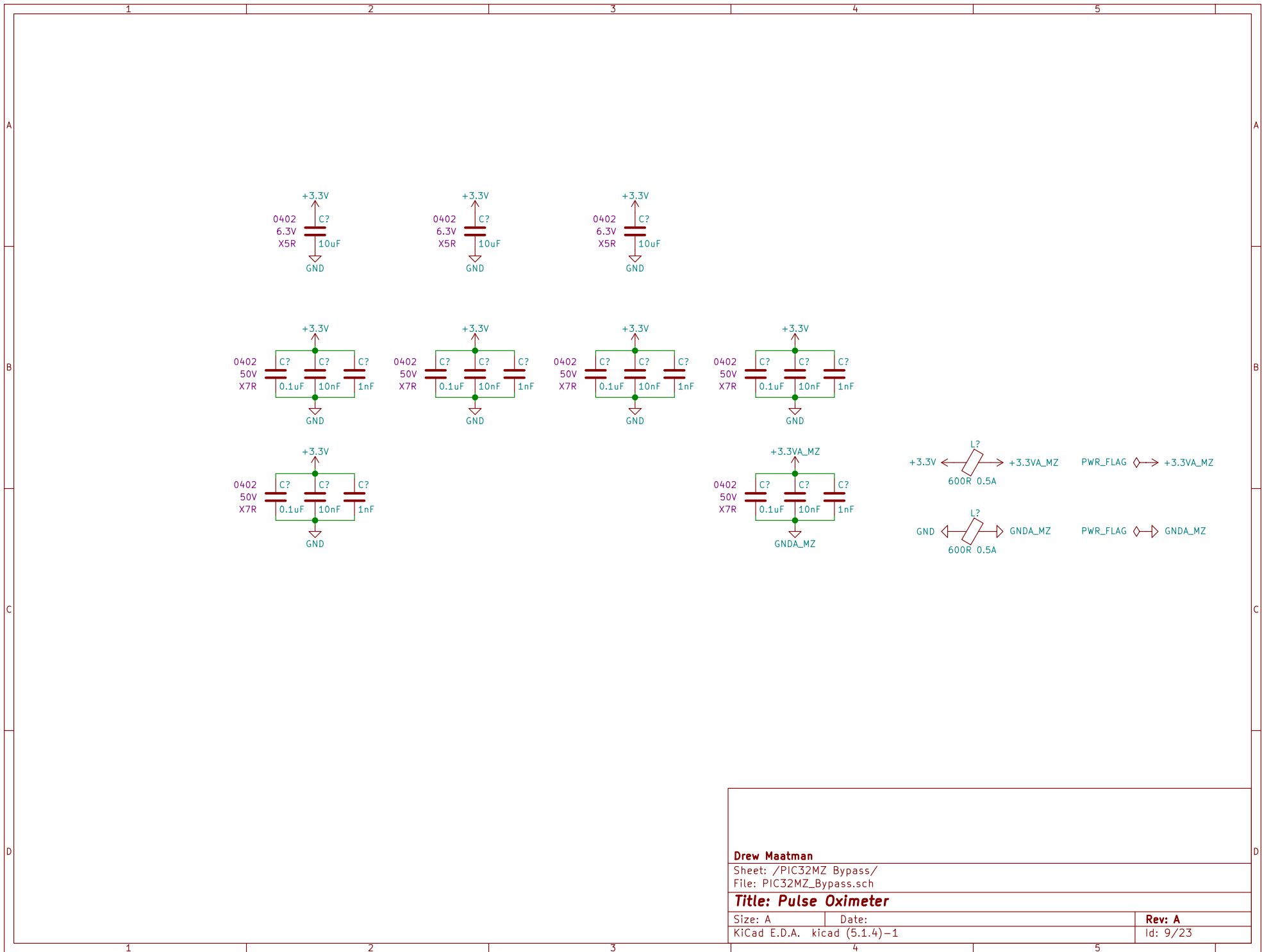
KiCad E.D.A. kicad (5.1.4)-1

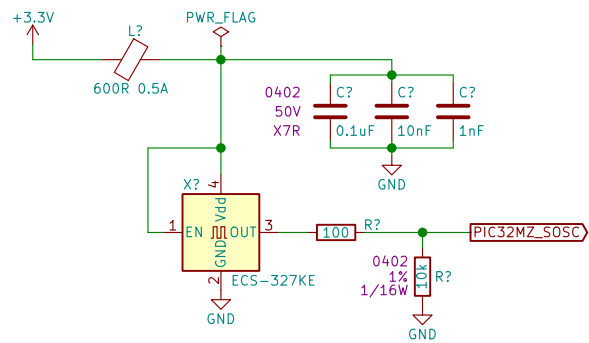
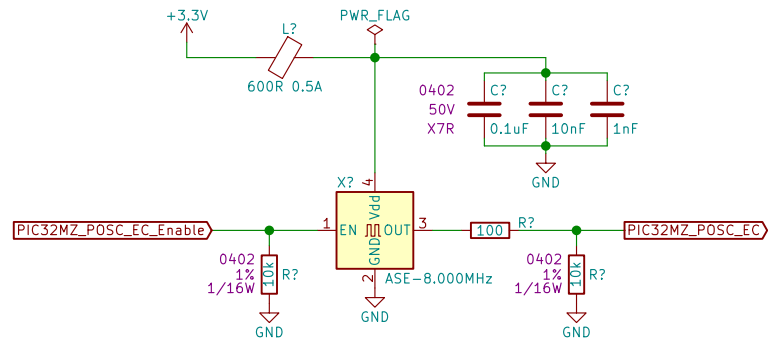
Id: 7/23



Rev: A  
Id: 8/23







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

**Title:**

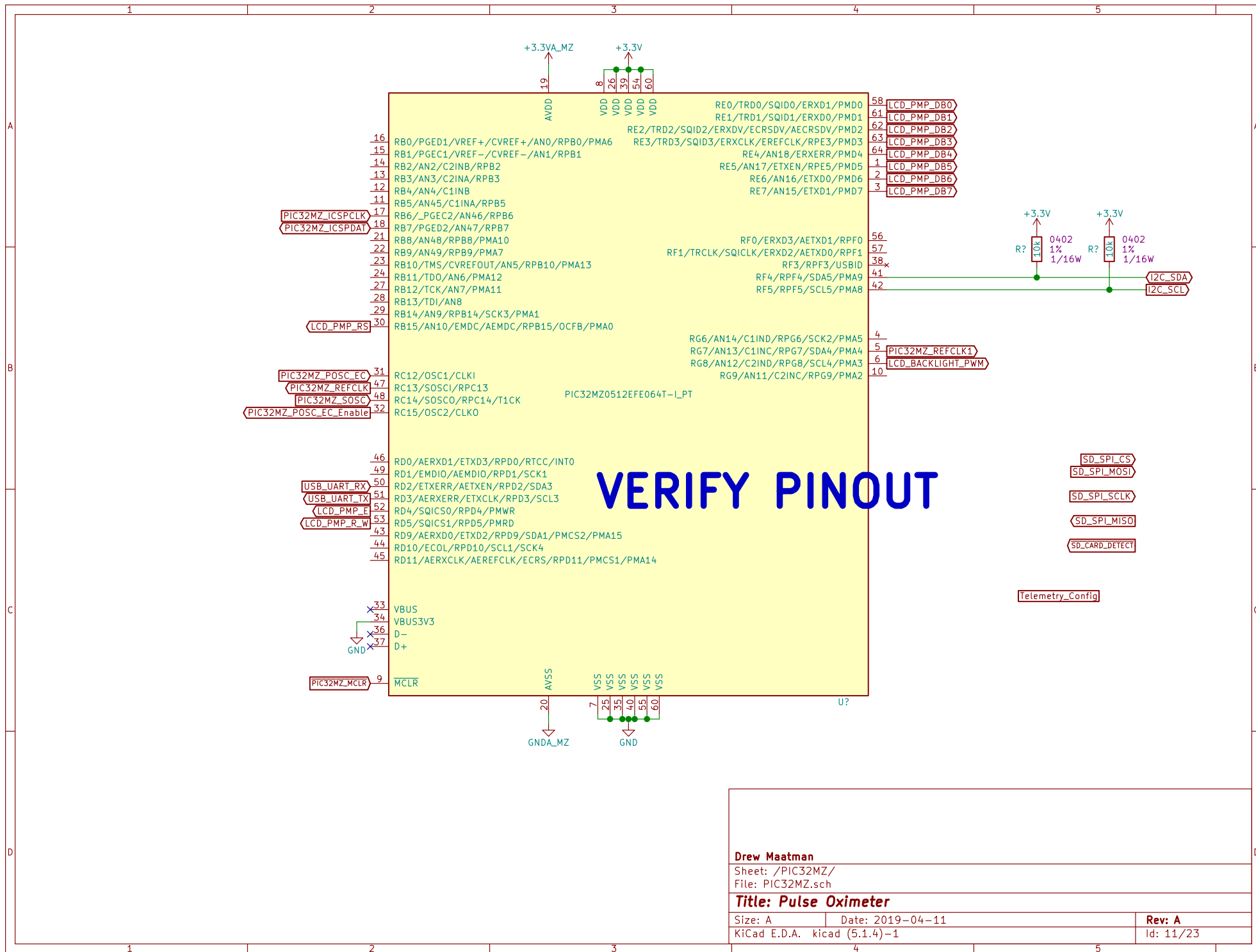
Size: A

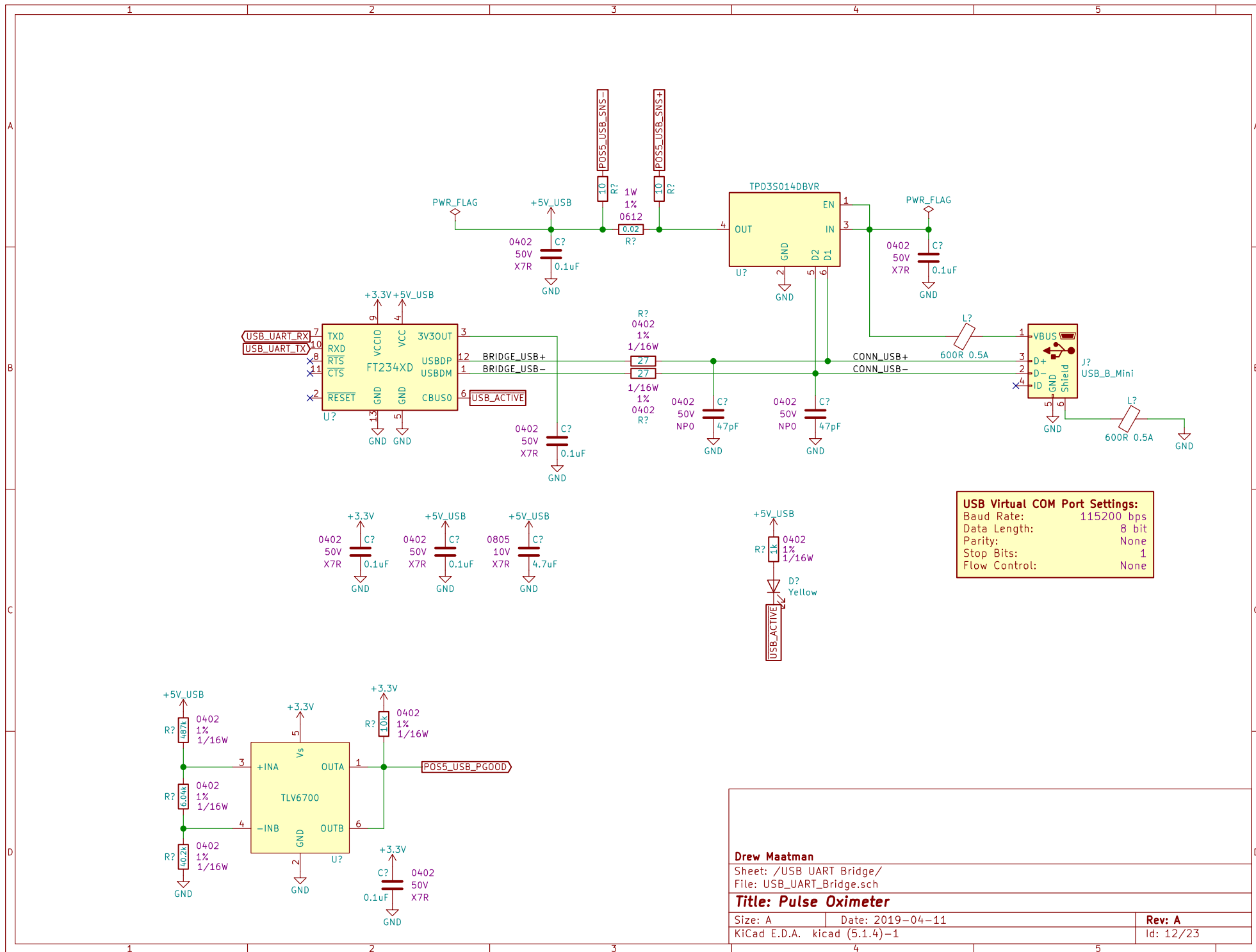
Date:

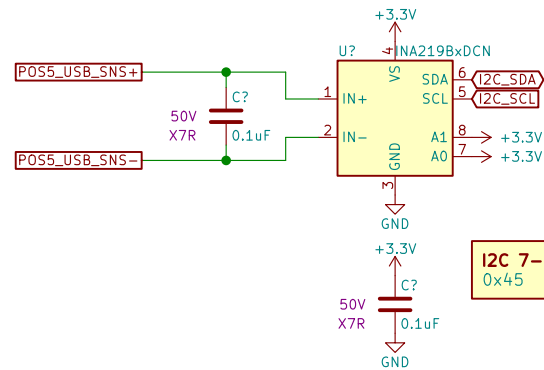
KiCad E.D.A. kicad (5.1.4)-1

**Rev:**

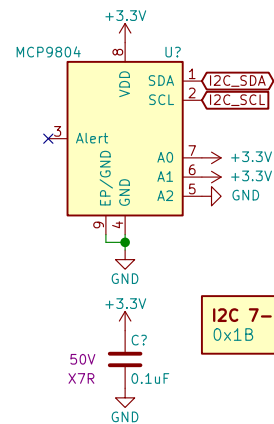
Id: 10/23







I2C 7-Bit Address:  
0x45



I2C 7-Bit Address:  
0x1B

Drew Maatman

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

**Title: Pulse Oximeter**

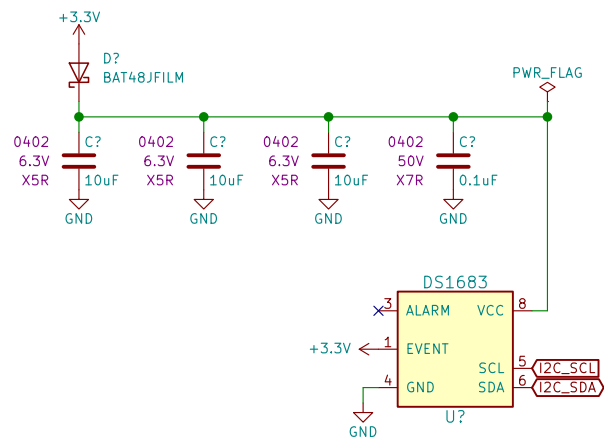
Size: A

Date:

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

Rev: A

Id: 13/23



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

**Drew Maatman**

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

**Title: Pulse Oximeter**

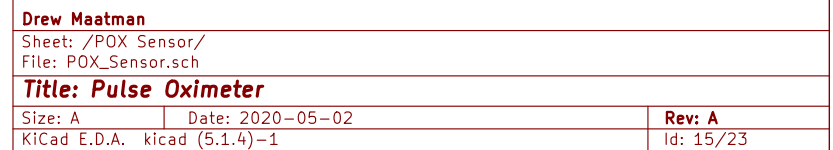
Size: A

Date:

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

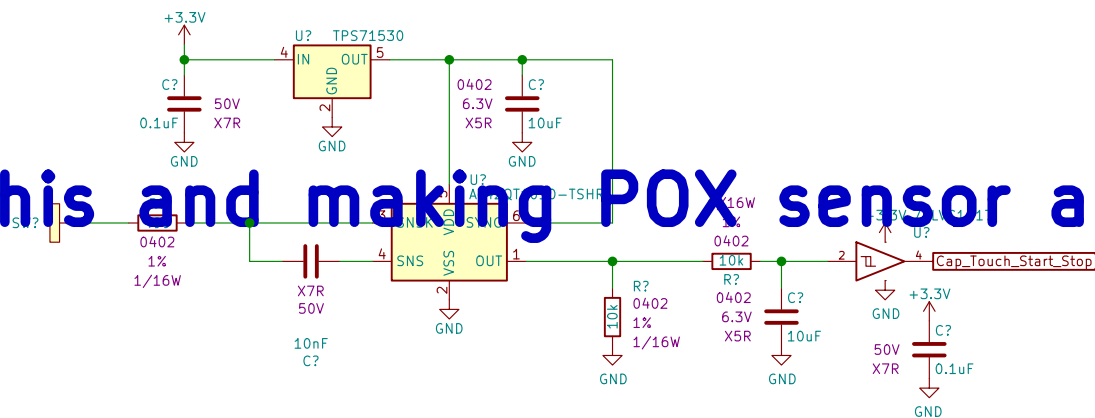
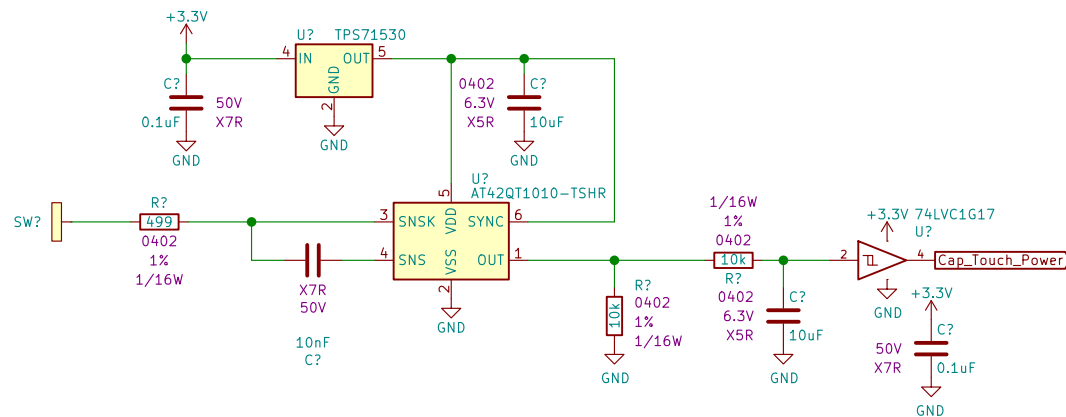
**Rev: A**

Id: 14/23









removing this and making POX sensor automatically start

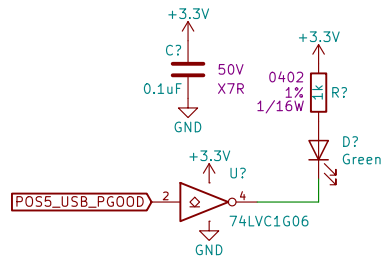
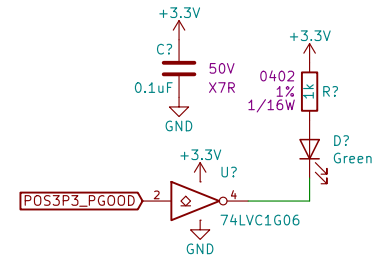
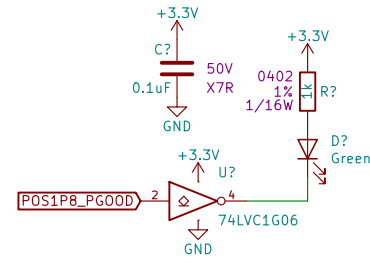
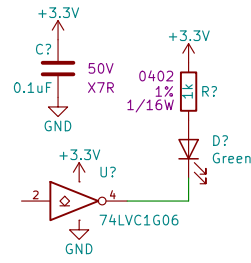
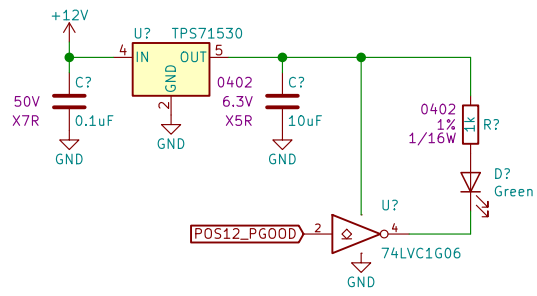
Drew Maatman

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: 17/23



**Drew Maatman**

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

**Title: Pulse Oximeter**

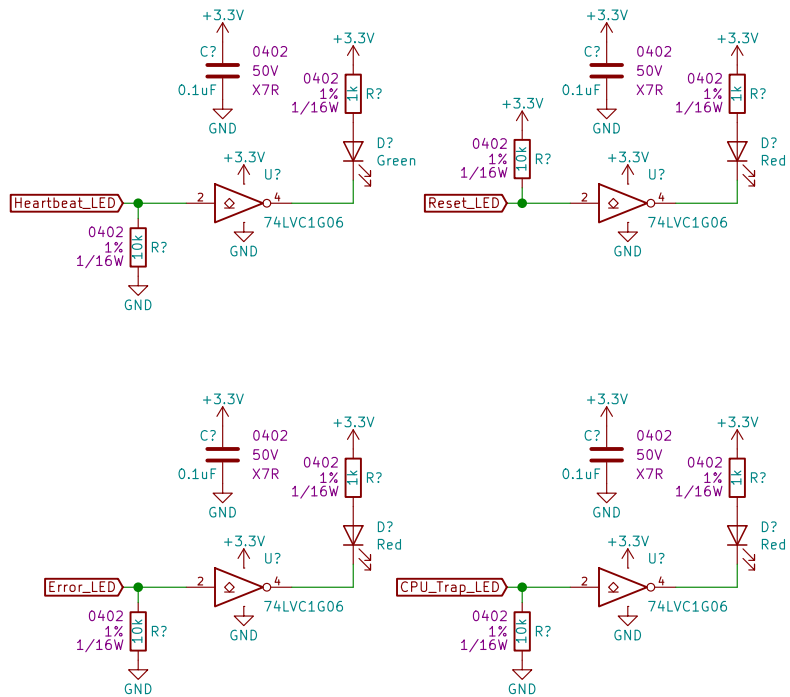
Size: A

Date:

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

**Rev: A**

Id: 18/23



**Drew Maatman**

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

**Title: Pulse Oximeter**

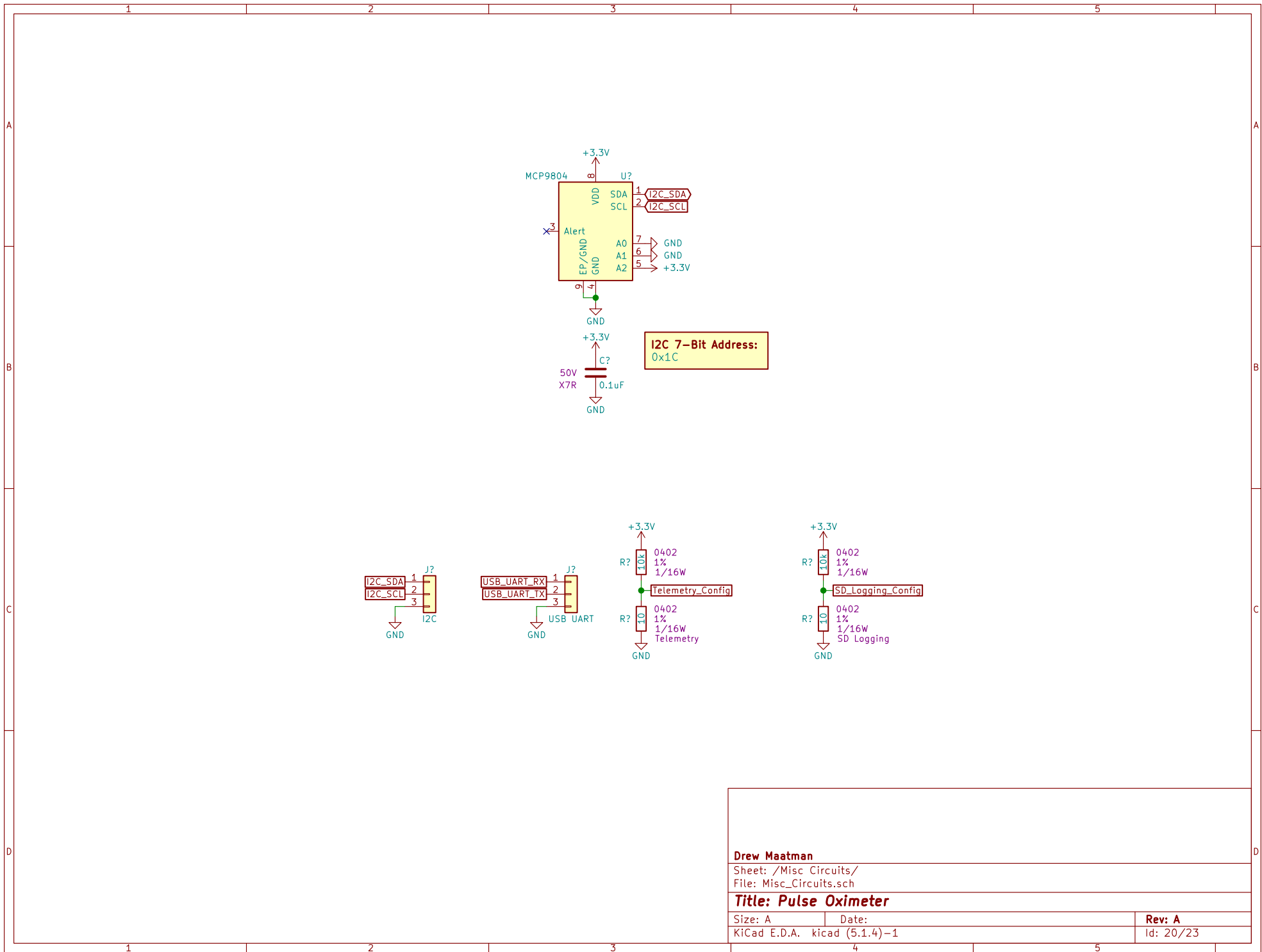
Size: A

Date:

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

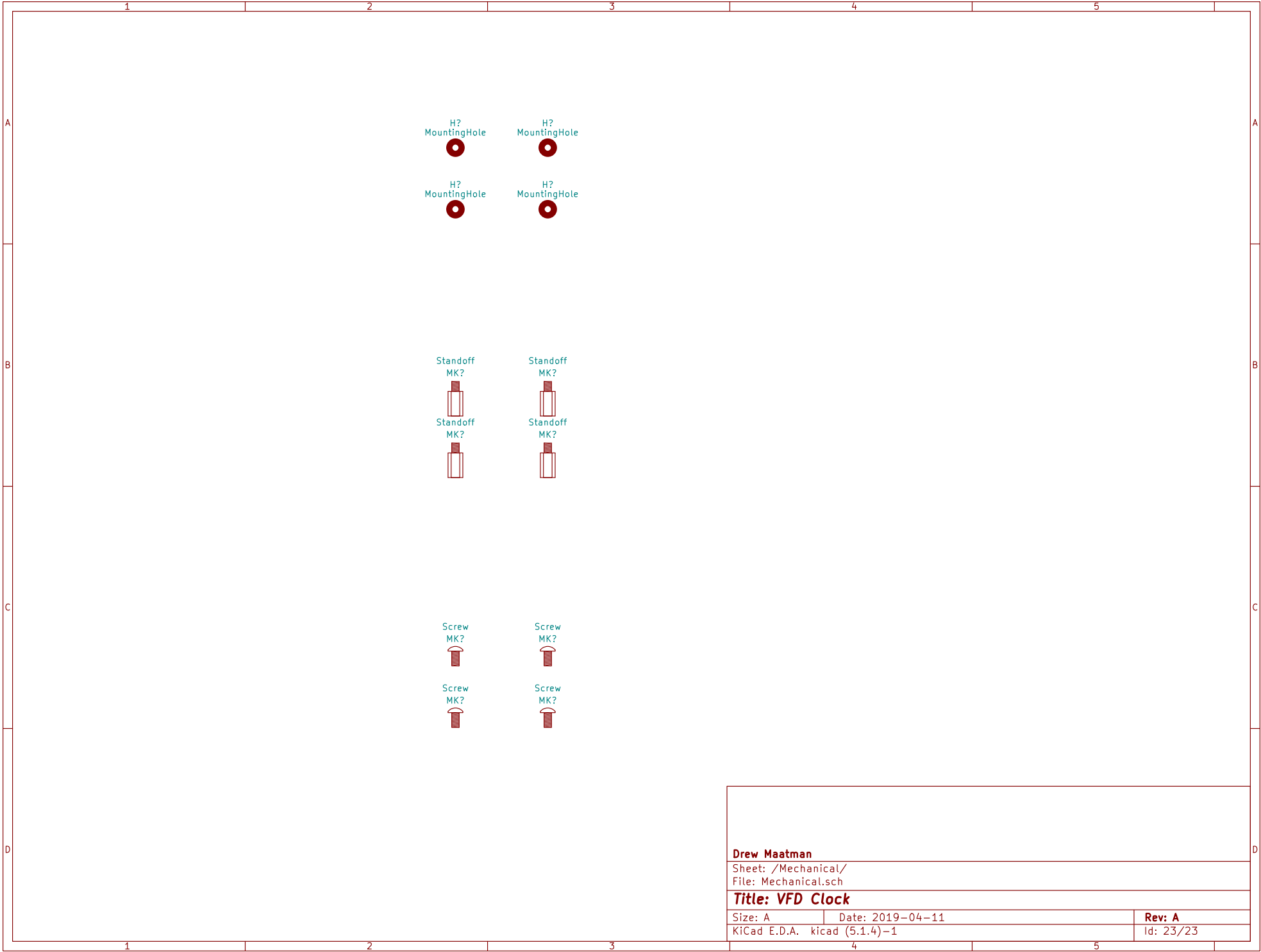
**Rev: A**

Id: 19/23









Drew Maatman

Sheet: /Mechanical/  
File: Mechanical.sch

**Title: VFD Clock**

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

**Rev: A**  
Id: 23/23