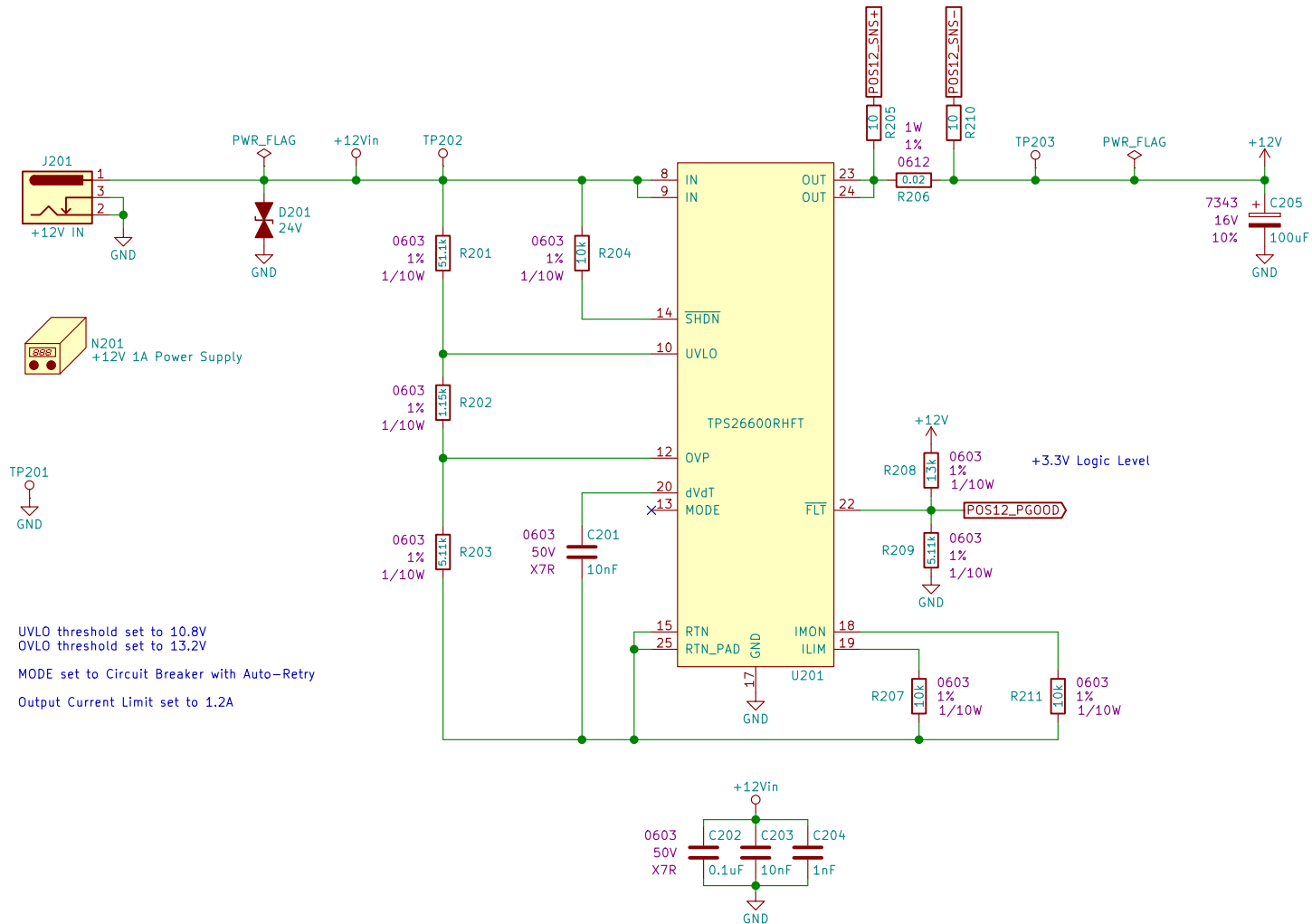


|   |  |  |   |   |
|---|--|--|---|---|
| 1 | 2  | 3  | 4 | 5 |
| A | Sheet: +12V Input<br>File: POS12_Input.sch<br>Sheet: +12V Telemetry<br>File: POS12_Telemetry.sch<br>Sheet: +3.3V Power Supply<br>File: POS3P3_Power_Supply.sch<br>Sheet: +3.3V Telemetry<br>File: POS3P3_Telemetry.sch<br>Sheet: +20V Power Supply<br>File: POS20_Power_Supply.sch<br>Sheet: +20V Telemetry<br>File: POS20_Telemetry.sch<br>Sheet: PIC32MZ Programming<br>File: PIC32MZ_Programming.sch<br>Sheet: PIC32MZ Bypass<br>File: PIC32MZ_Bypass.sch<br>Sheet: PIC32MZ<br>File: PIC32MZ.sch<br>Sheet: PIC32MZ Clocking<br>File: PIC32MZ_Clocking.sch<br>Sheet: Backup RTC<br>File: Backup_RTC.sch<br>Sheet: USB UART Bridge<br>File: USB_Uart_Bridge.sch<br>Sheet: USB Telemetry<br>File: USB_Telemetry.sch<br>Sheet: Time of Flight<br>File: Time_of_Flight.sch<br>Sheet: PGOOD LEDs<br>File: PGOOD_LEDs.sch<br>Sheet: Status LEDs<br>File: Status_LEDs.sch | Sheet: Meter0<br>File: Meter0.sch<br>Sheet: Meter1<br>File: Meter1.sch<br>Sheet: Meter2<br>File: Meter2.sch<br>Sheet: LED Driver<br>File: LED_Driver.sch<br>Sheet: Pushbuttons<br>File: Pushbuttons.sch<br>Sheet: Function LEDs<br>File: Function_LEDs.sch<br>Sheet: Misc Circuits<br>File: Misc_Circuits.sch<br>Sheet: Mechanical<br>File: Mechanical.sch | A |   |
| B |  |  |   | B |
| C |  |  |   | C |
| D |  |  |   | D |
| 1 | 2  | 3  | 4 | 5 |

|                                    |       |          |
|------------------------------------|-------|----------|
| Sheet: /<br>File: Analog_Clock.sch |       |          |
| Title:                             |       |          |
| Size: A                            | Date: | Rev:     |
| KiCad E.D.A.    kicad (5.1.4)–1    |       | Id: 1/25 |



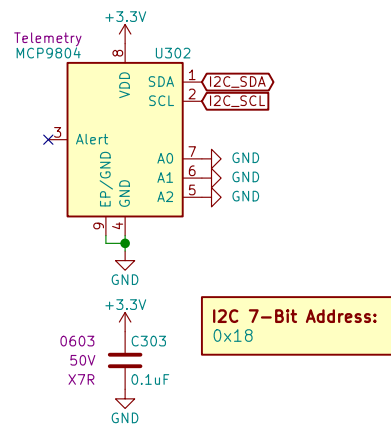
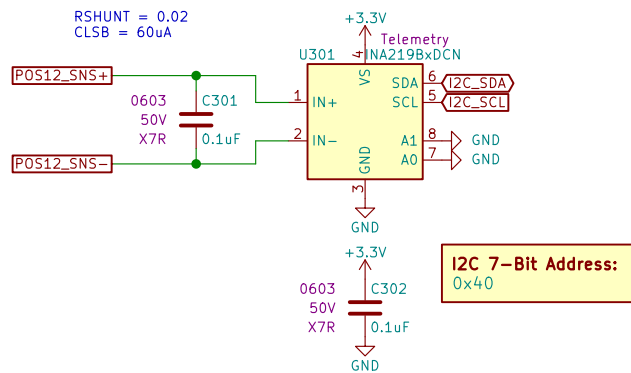
**Drew Maatman**

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

**Title: Incrementor**

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

**Rev: A**  
Id: 2/25



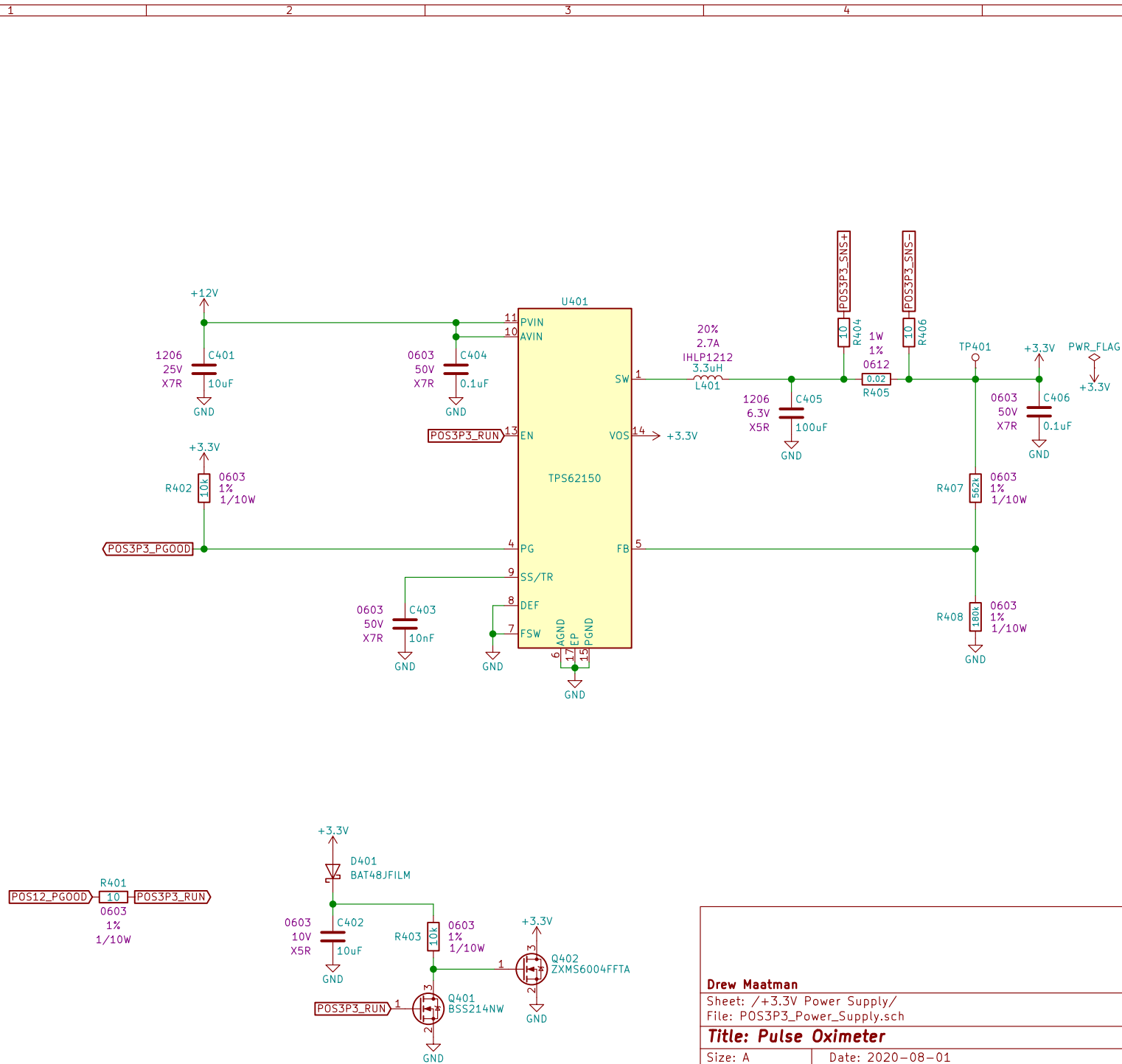
Drew Maatman

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

**Title: Pulse Oximeter**

Size: A Date: 2020-08-01  
KiCad E.D.A. kicad (5.1.4)-1

Rev: A  
Id: 3/25



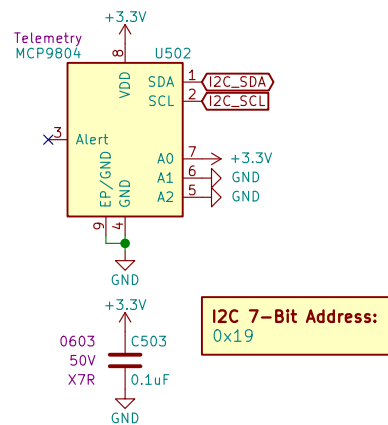
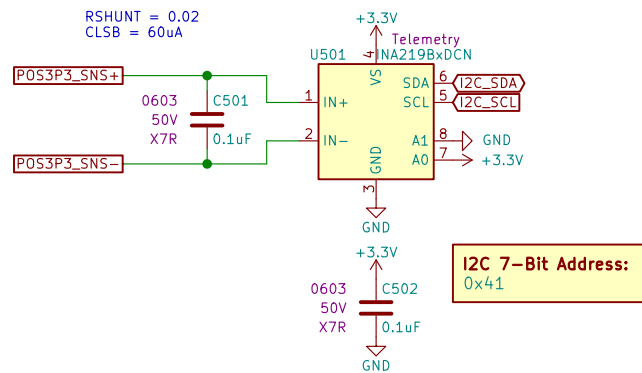
Drew Maatman

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

**Title: Pulse Oximeter**

Size: A Date: 2020-08-01  
KiCad E.D.A. kicad (5.1.4)-1

Rev: A  
Id: 4/25



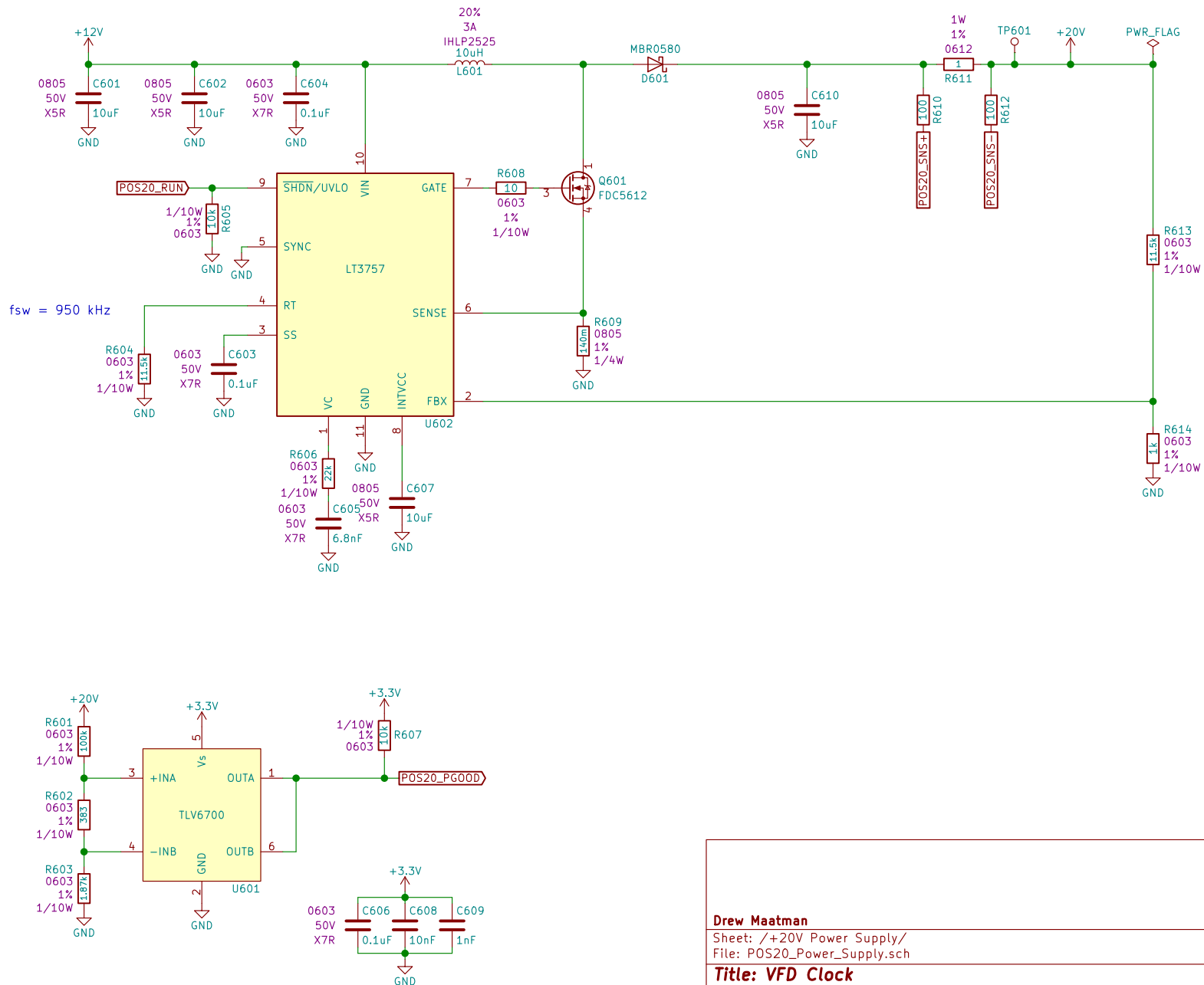
Drew Maatman

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

**Title: Pulse Oximeter**

Size: A Date: 2020-08-01  
KiCad E.D.A. kicad (5.1.4)-1

Rev: A  
Id: 5/25



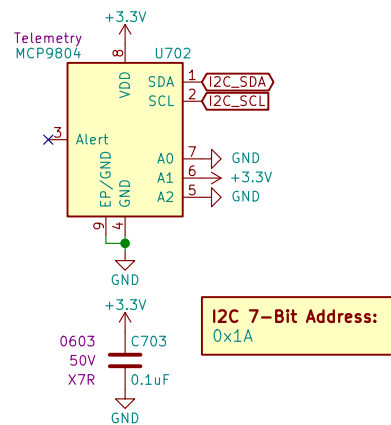
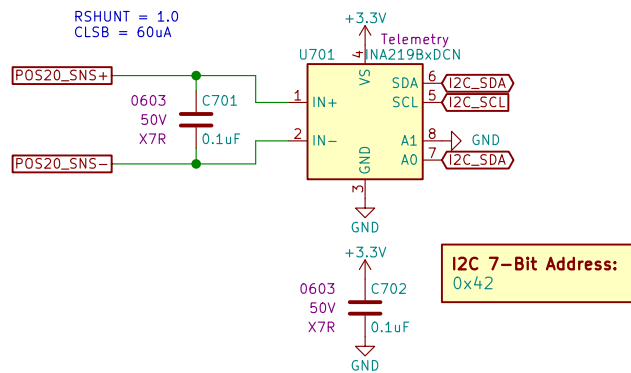
Drew Maatman

Sheet: /+20V Power Supply/  
File: POS20\_Power\_Supply.sch

Title: VFD Clock

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

Rev: A  
Id: 6/25



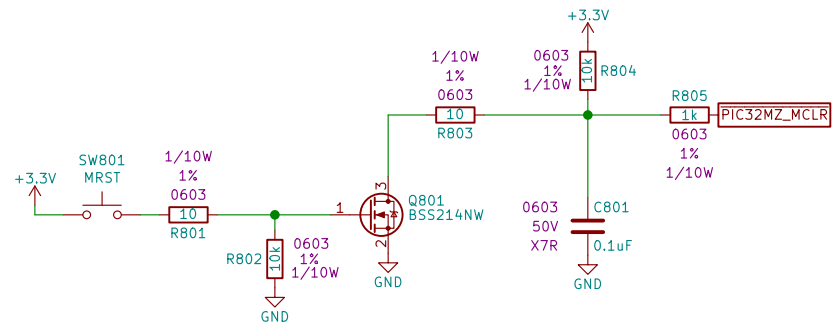
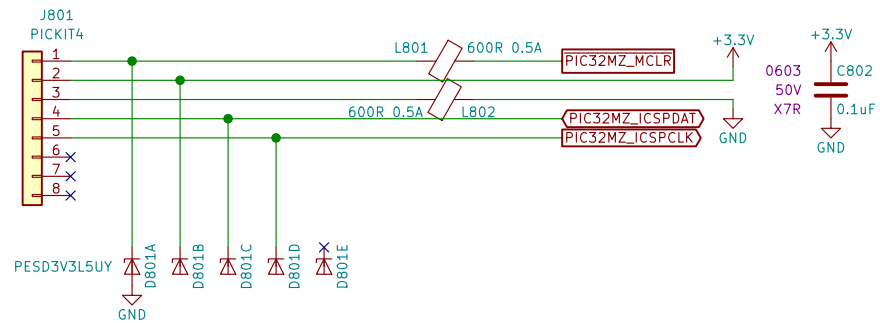
Drew Maatman

Sheet: /+20V Telemetry/  
File: POS20\_Telemetry.sch

**Title: Pulse Oximeter**

Size: A Date: 2020-08-01  
KiCad E.D.A. kicad (5.1.4)-1

Rev: A  
Id: 7/25



Drew Maatman

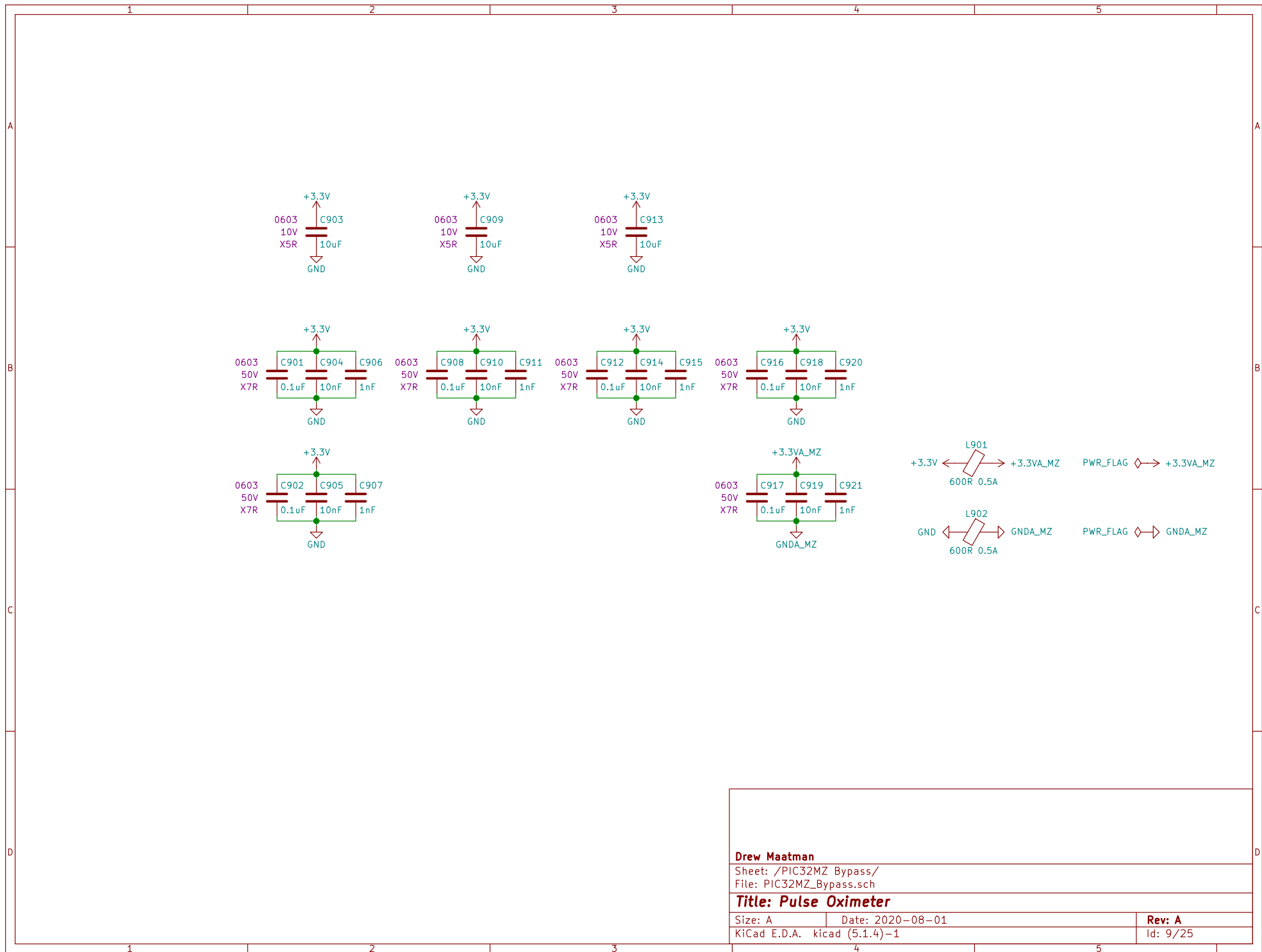
Sheet: /PIC32MZ Programming/  
File: PIC32MZ\_Programming.sch

**Title: Pulse Oximeter**

Size: A Date: 2020-08-01  
KiCad E.D.A. kicad (5.1.4)-1

Rev: A  
Id: 8/25





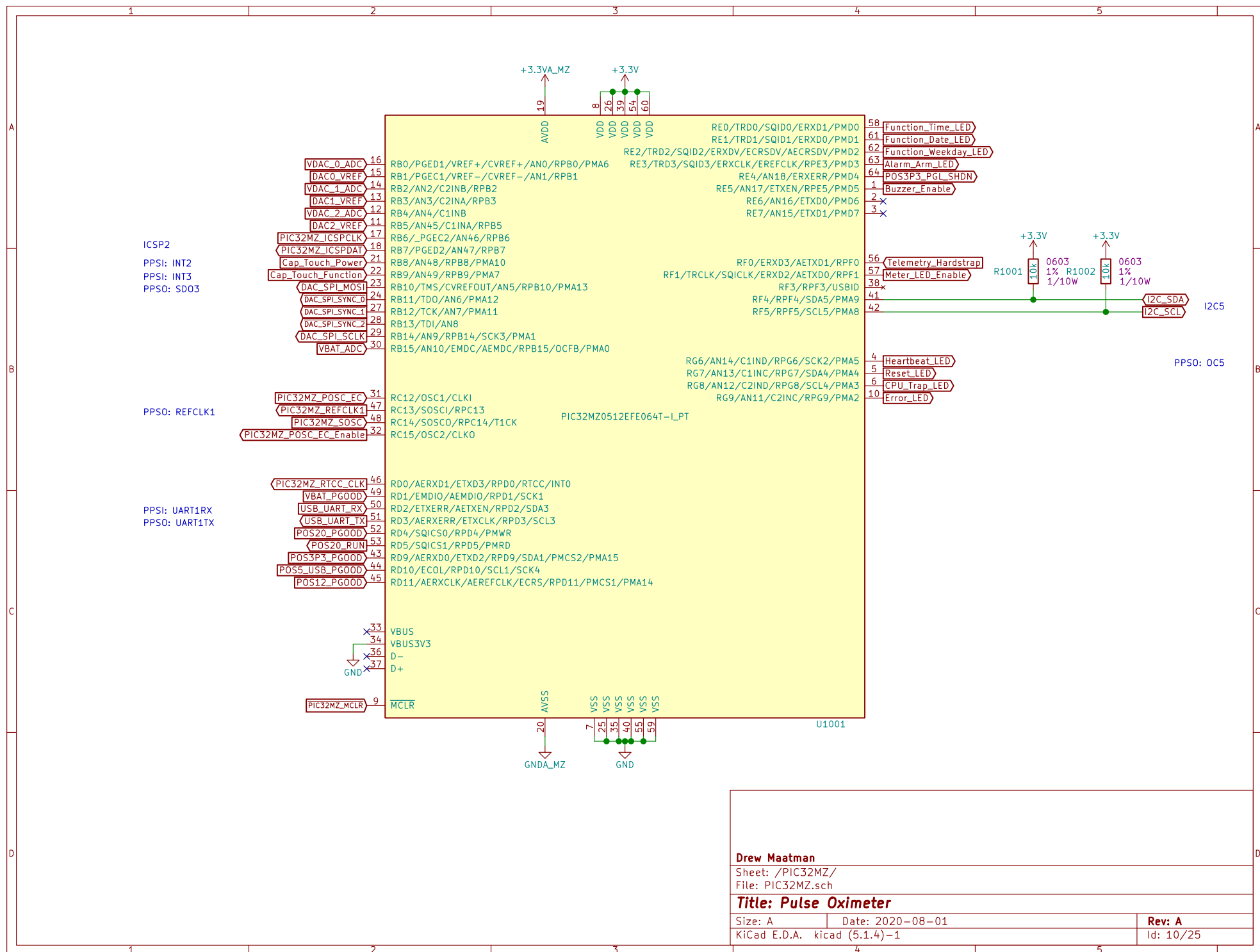
Drew Maatman

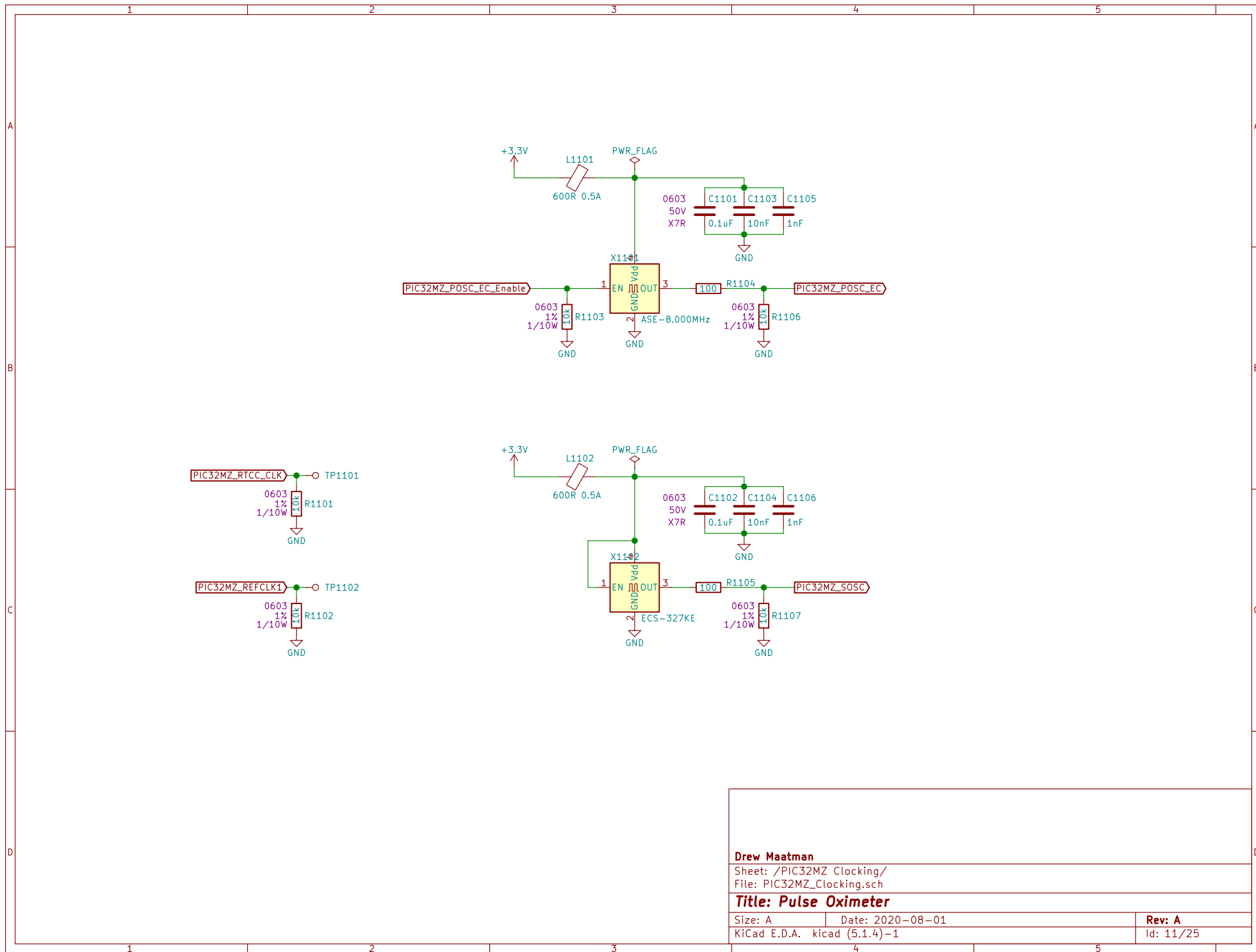
Sheet: /PIC32MZ Bypass/  
File: PIC32MZ\_Bypass.sch

**Title: Pulse Oximeter**

Size: A Date: 2020-08-01  
KiCad E.D.A. kicad (5.1.4)-1

Rev: A  
Id: 9/25





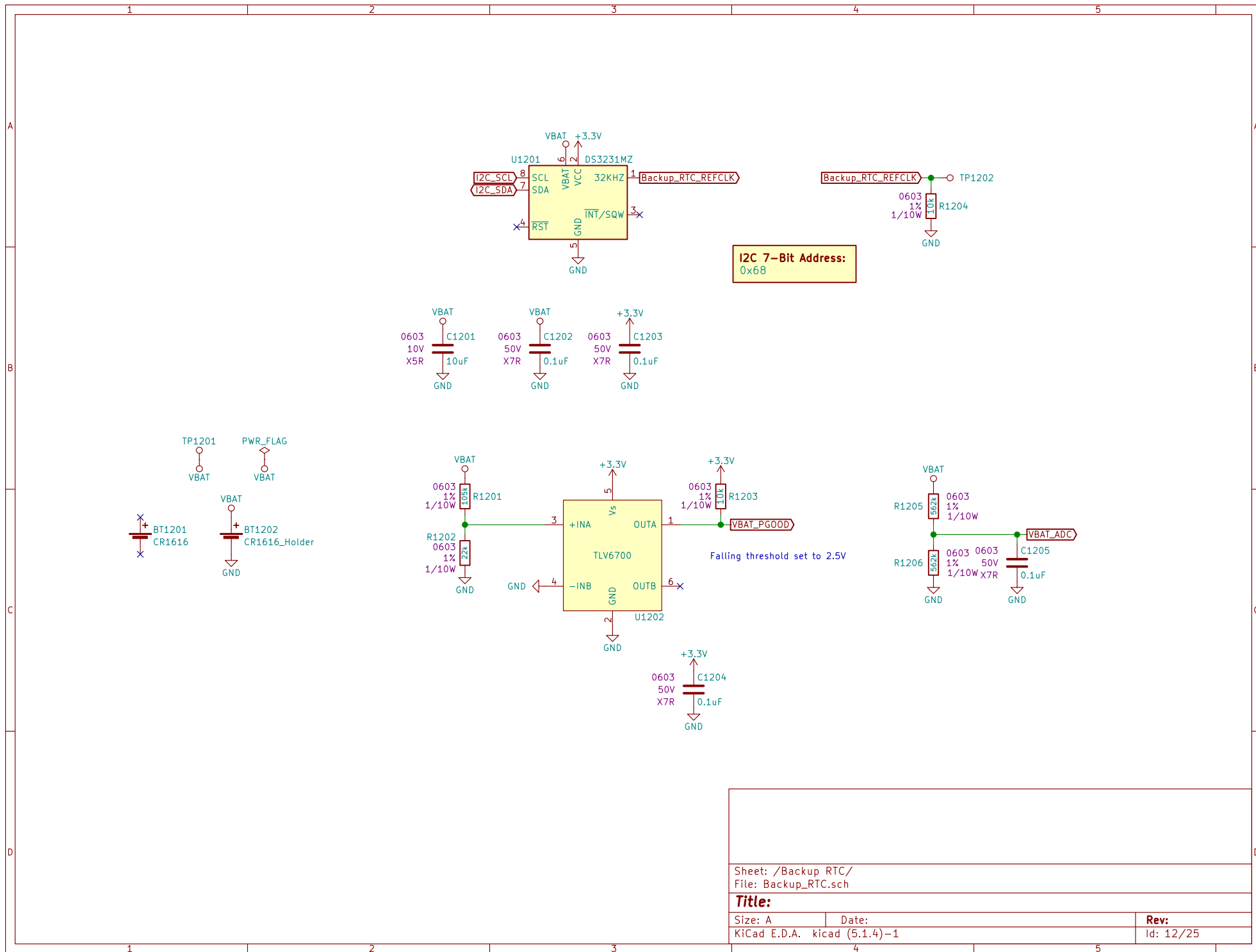
Drew Maatman

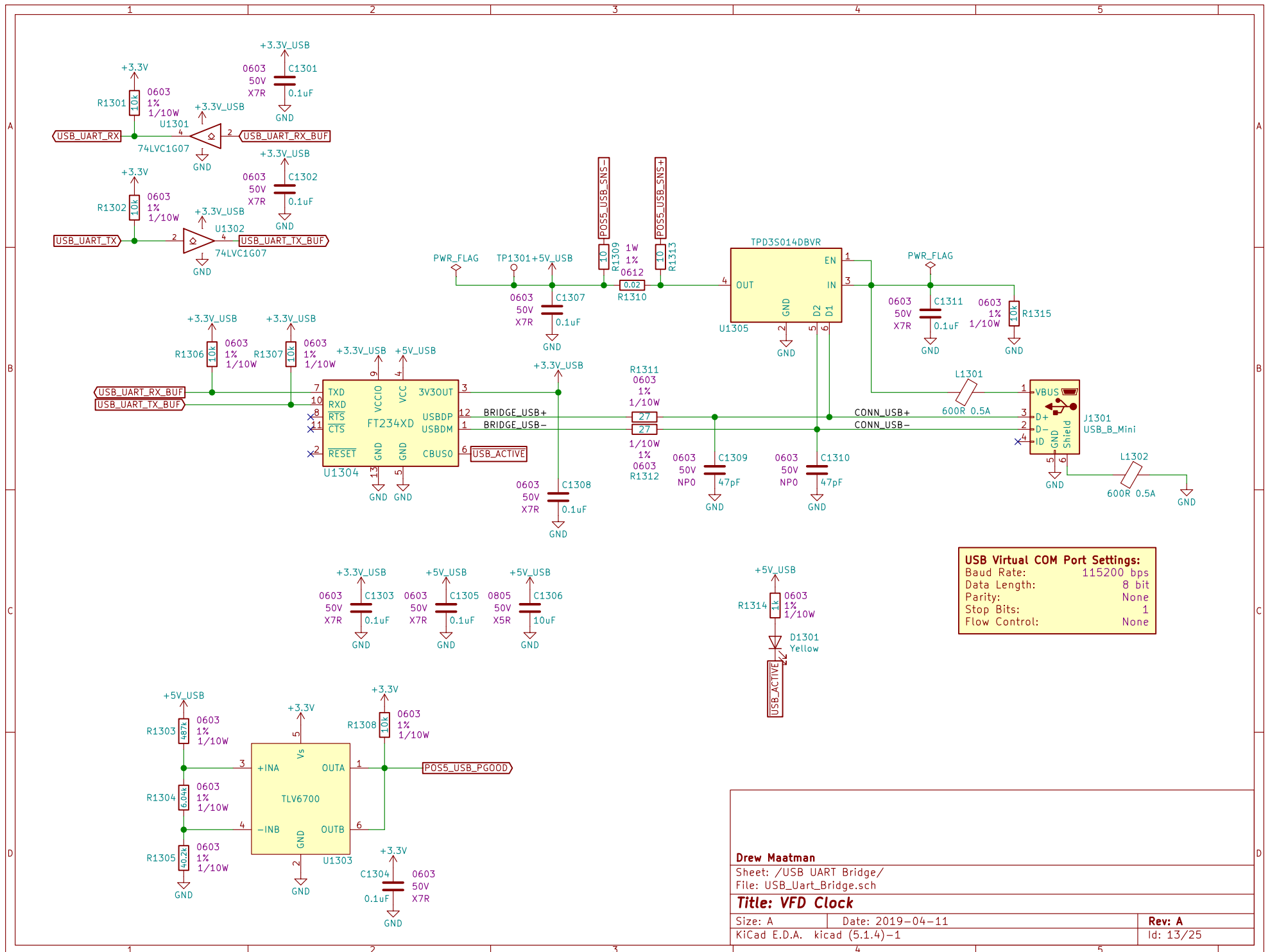
Sheet: /PIC32MZ Clocking/  
File: PIC32MZ\_Clocking.sch

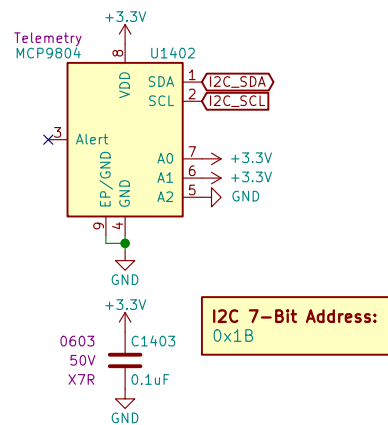
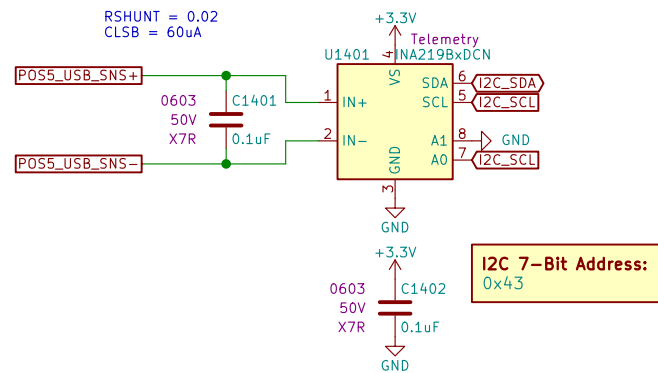
**Title: Pulse Oximeter**

Size: A Date: 2020-08-01  
KiCad E.D.A. kicad (5.1.4)-1

Rev: A  
Id: 11/25







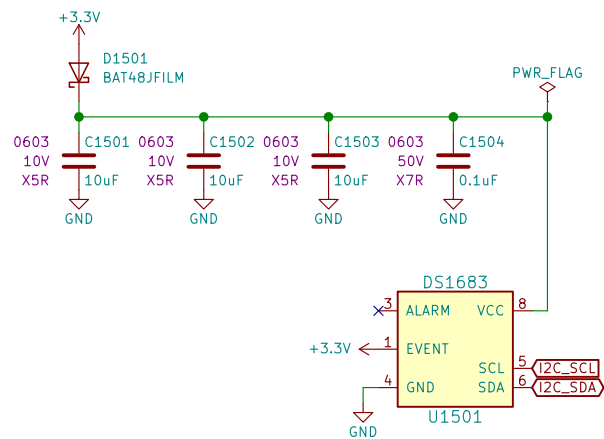
Drew Maatman

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

**Title: Pulse Oximeter**

Size: A Date: 2020-08-01  
KiCad E.D.A. kicad (5.1.4)-1

Rev: A  
Id: 14/25

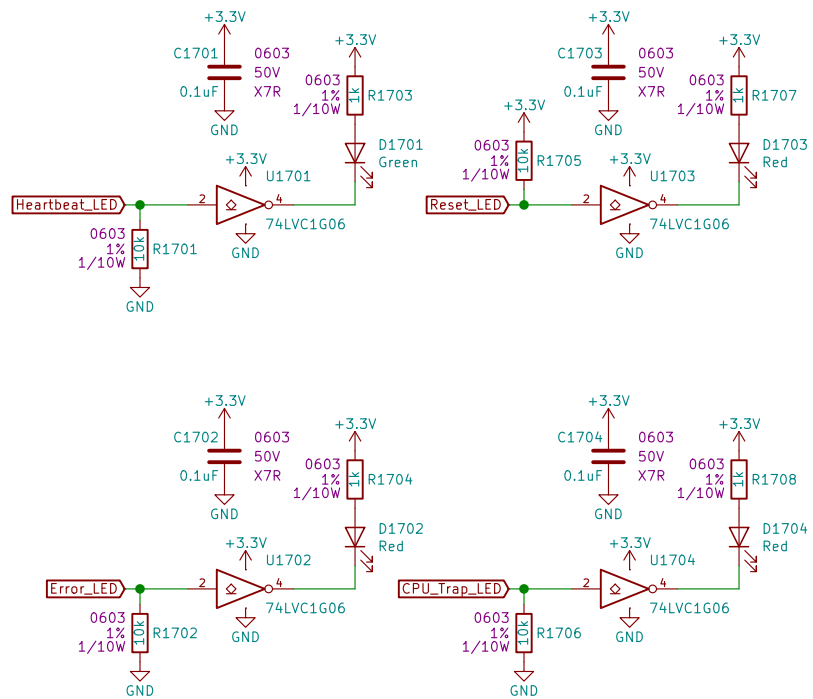


I2C 7-Bit Address:  
0x6B

|   |       |           |
|---|-------|-----------|
| Sheet: /Time of Flight/<br>File: Time_of_Flight.sch |       |           |
| Title:  |       |           |
| Size: A   | Date: | Rev:      |
| KiCad E.D.A. kicad (5.1.4)-1                        |       | Id: 15/25 |







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

**Title:**

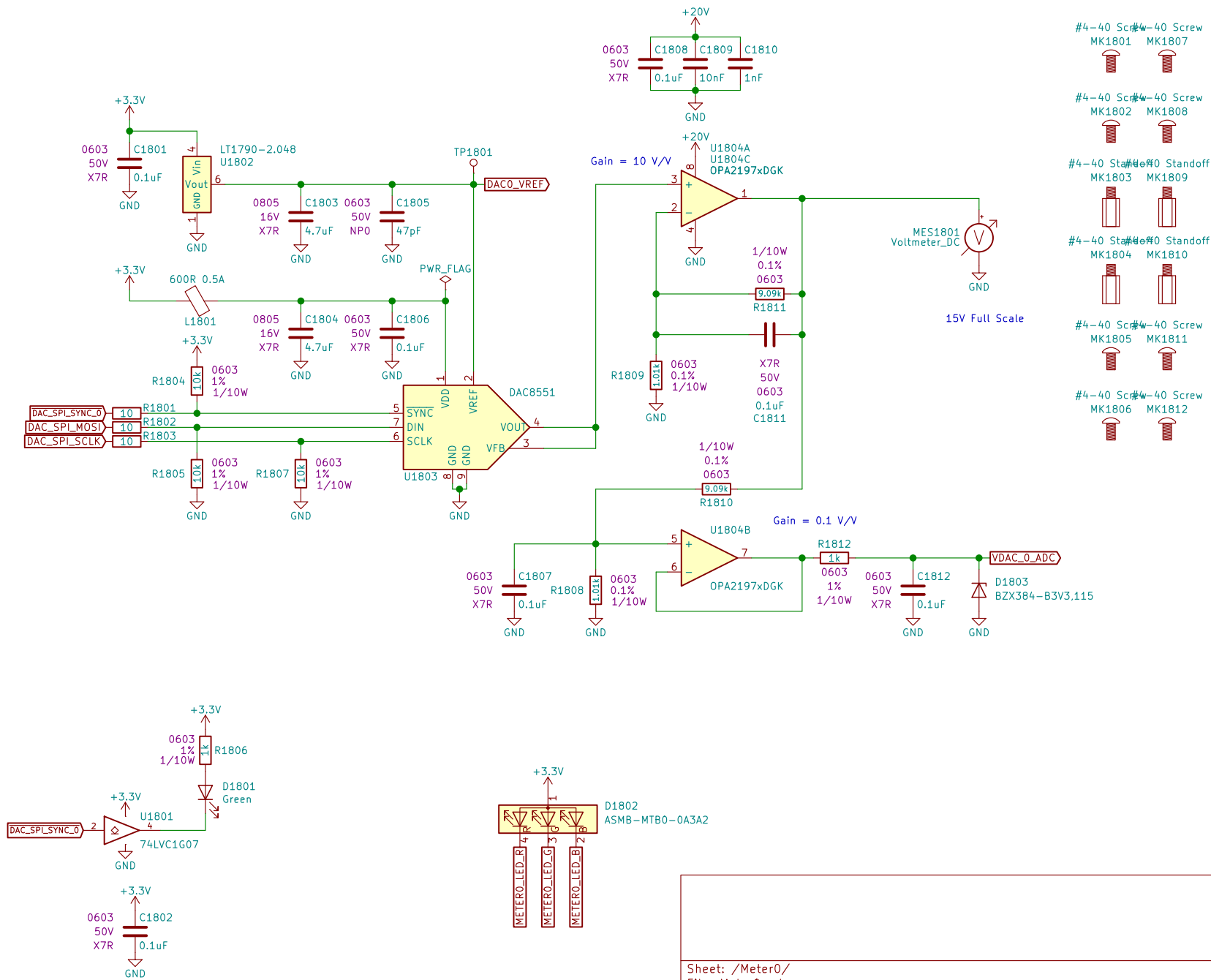
Size: A

Date:

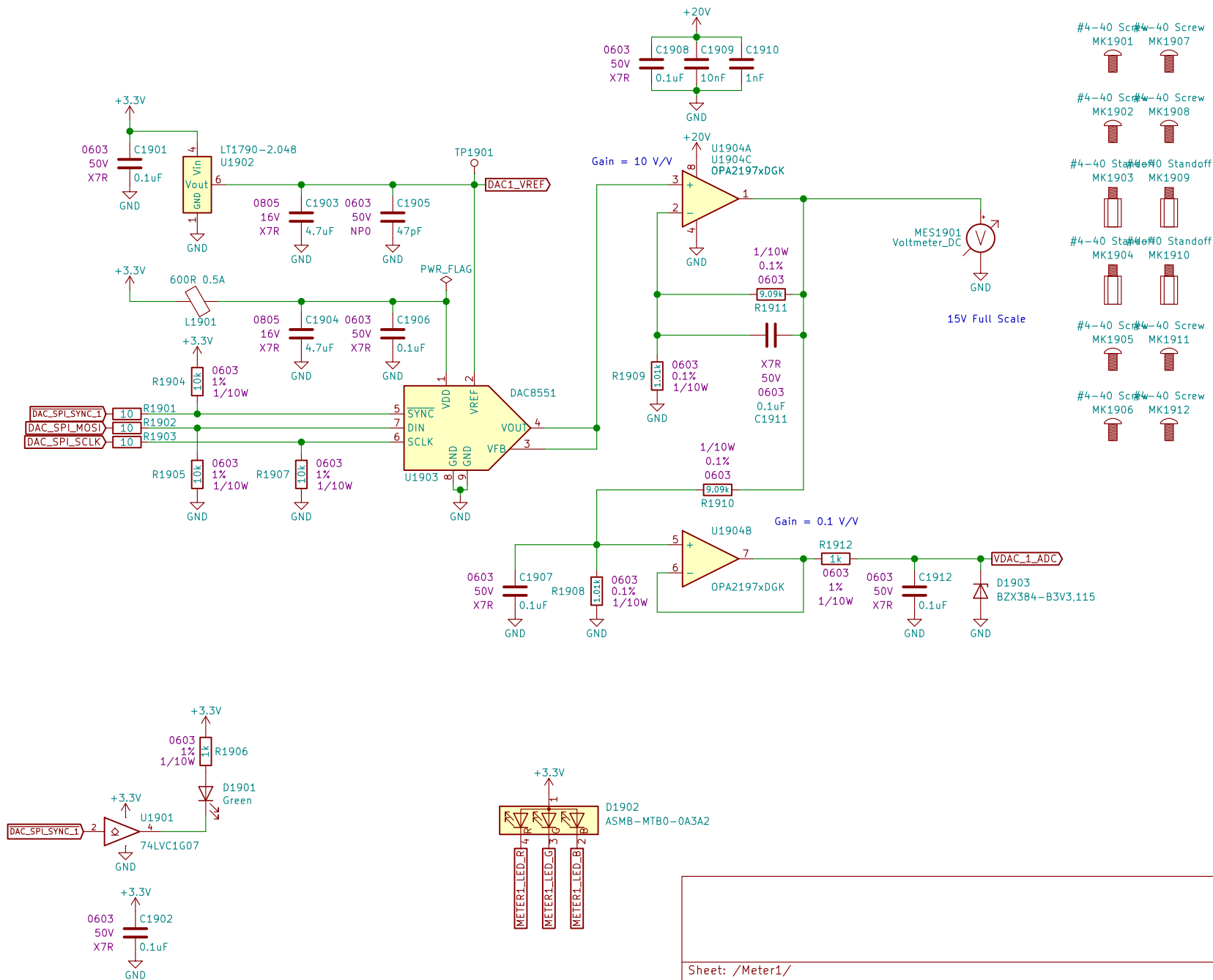
KiCad E.D.A. kicad (5.1.4)-1

**Rev:**

Id: 17/25



|                                     |       |           |
|-------------------------------------|-------|-----------|
| Sheet: /Meter0/<br>File: Meter0.sch |       |           |
| <b>Title:</b>                       |       |           |
| Size: A                             | Date: | Rev:      |
| KiCad E.D.A. kicad (5.1.4)-1        |       | Id: 18/25 |



Sheet: /Meter1/  
File: Meter1.sch

**Title:**

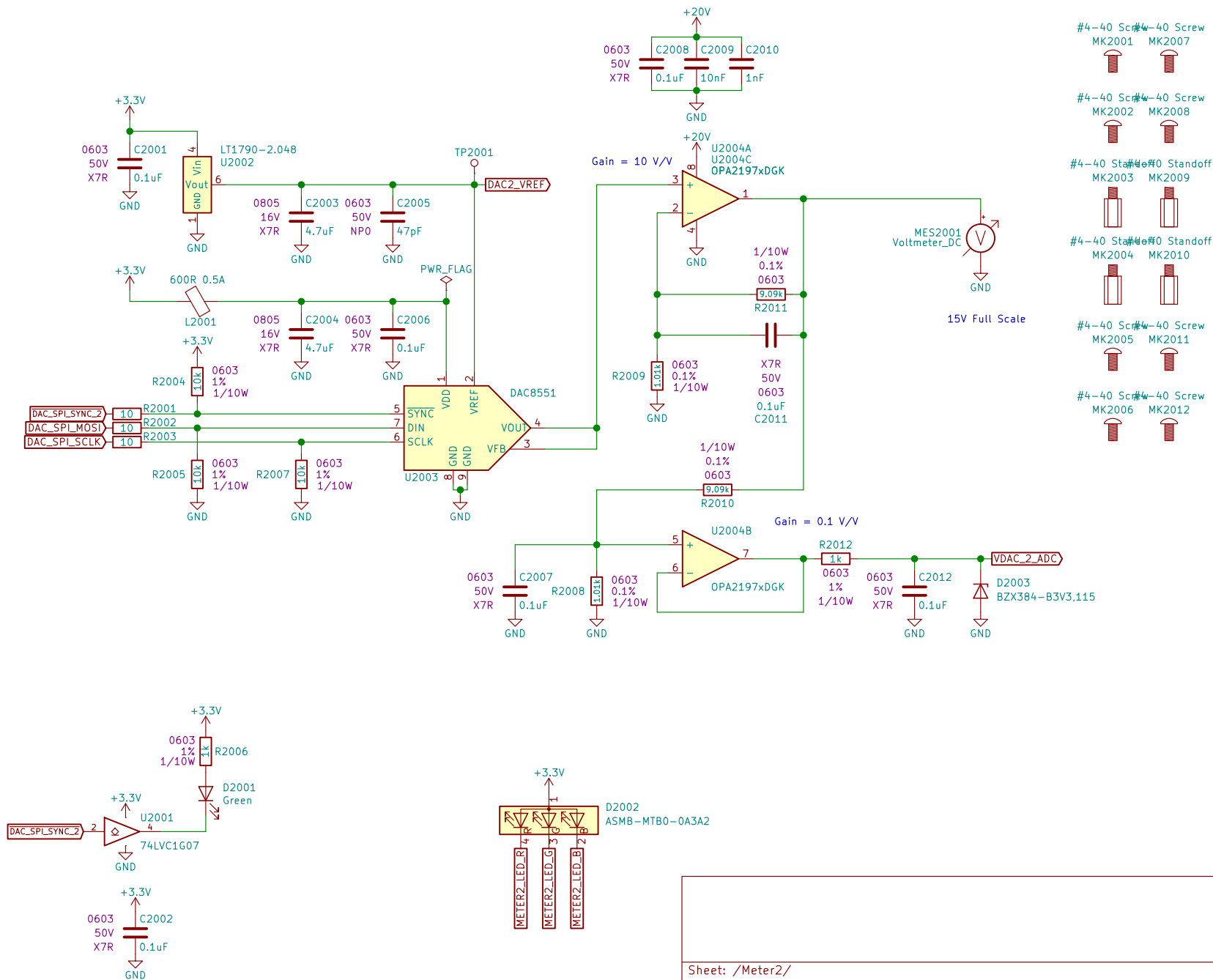
Size: A

Date:

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

**Rev:**

Id: 19/25



Sheet: /Meter2/  
File: Meter2.sch

**Title:**

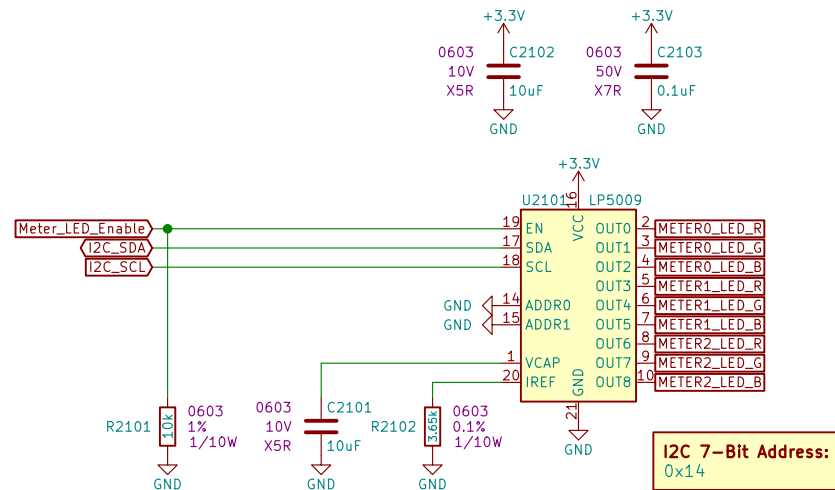
Size: A

Date:

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

**Rev:**

Id: 20/25



Sheet: /LED Driver/  
File: LED\_Driver.sch

**Title:**

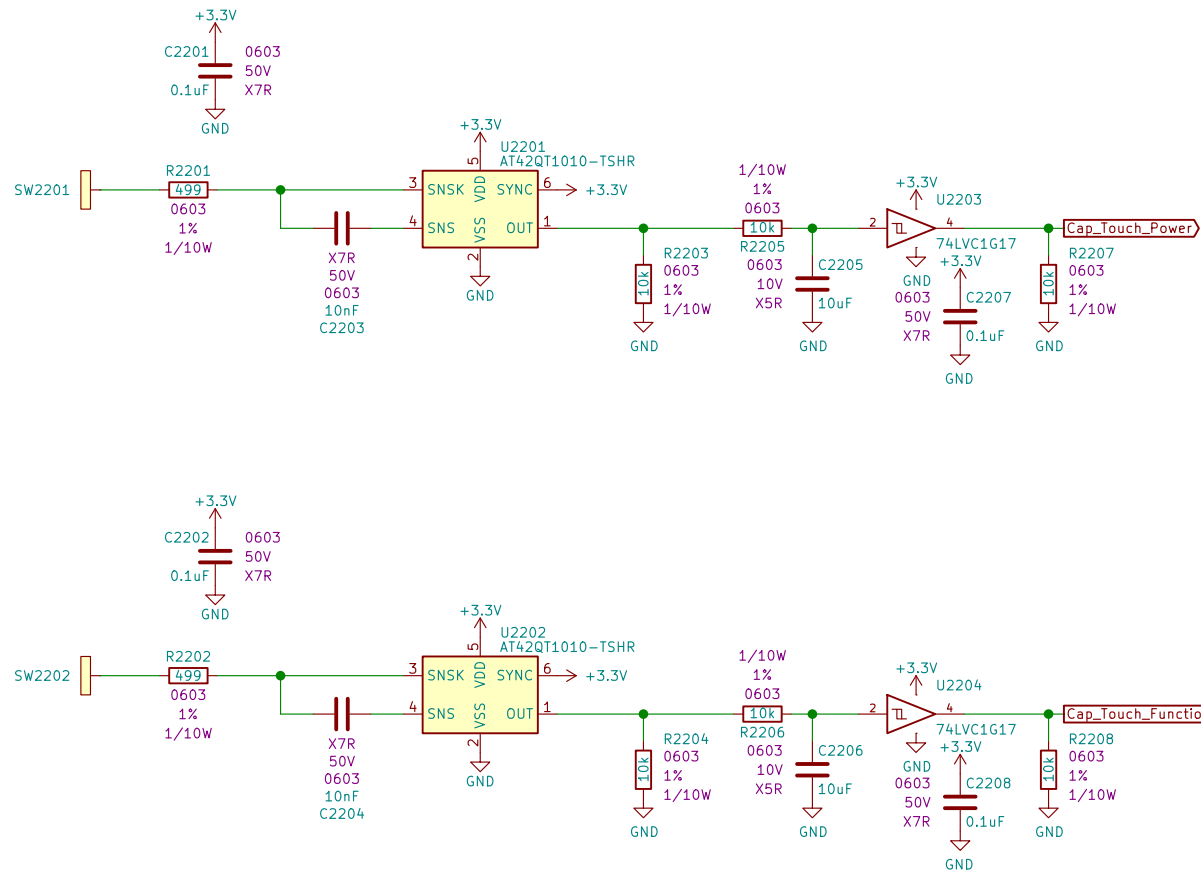
Size: A

Date:

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

**Rev:**

Id: 21/25



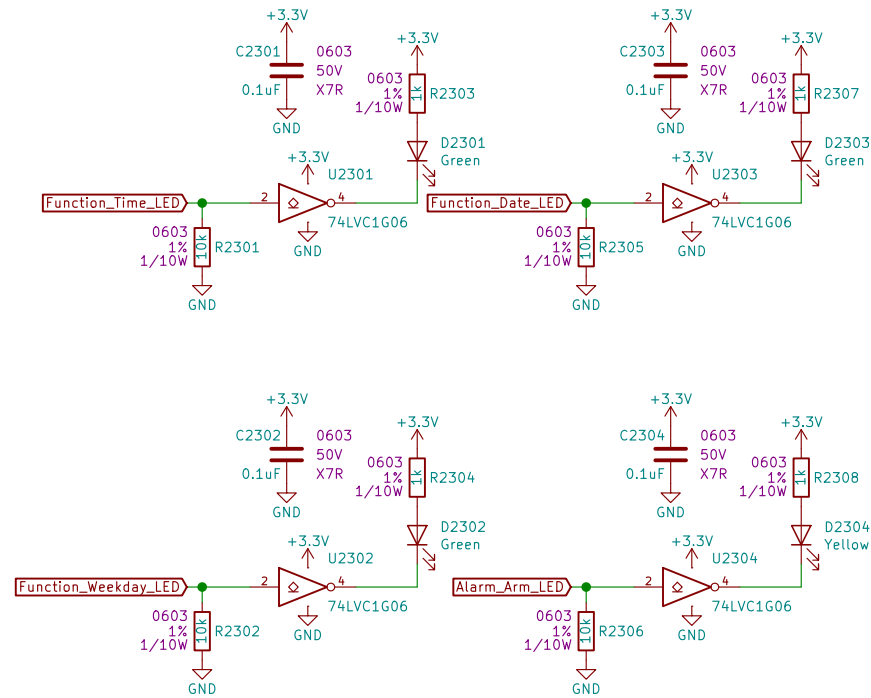
**Drew Maatman**

Sheet: /Pushbuttons/  
File: Pushbuttons.sch

**Title: Incrementor**

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

**Rev: A**  
Id: 22/25



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

**Title:**

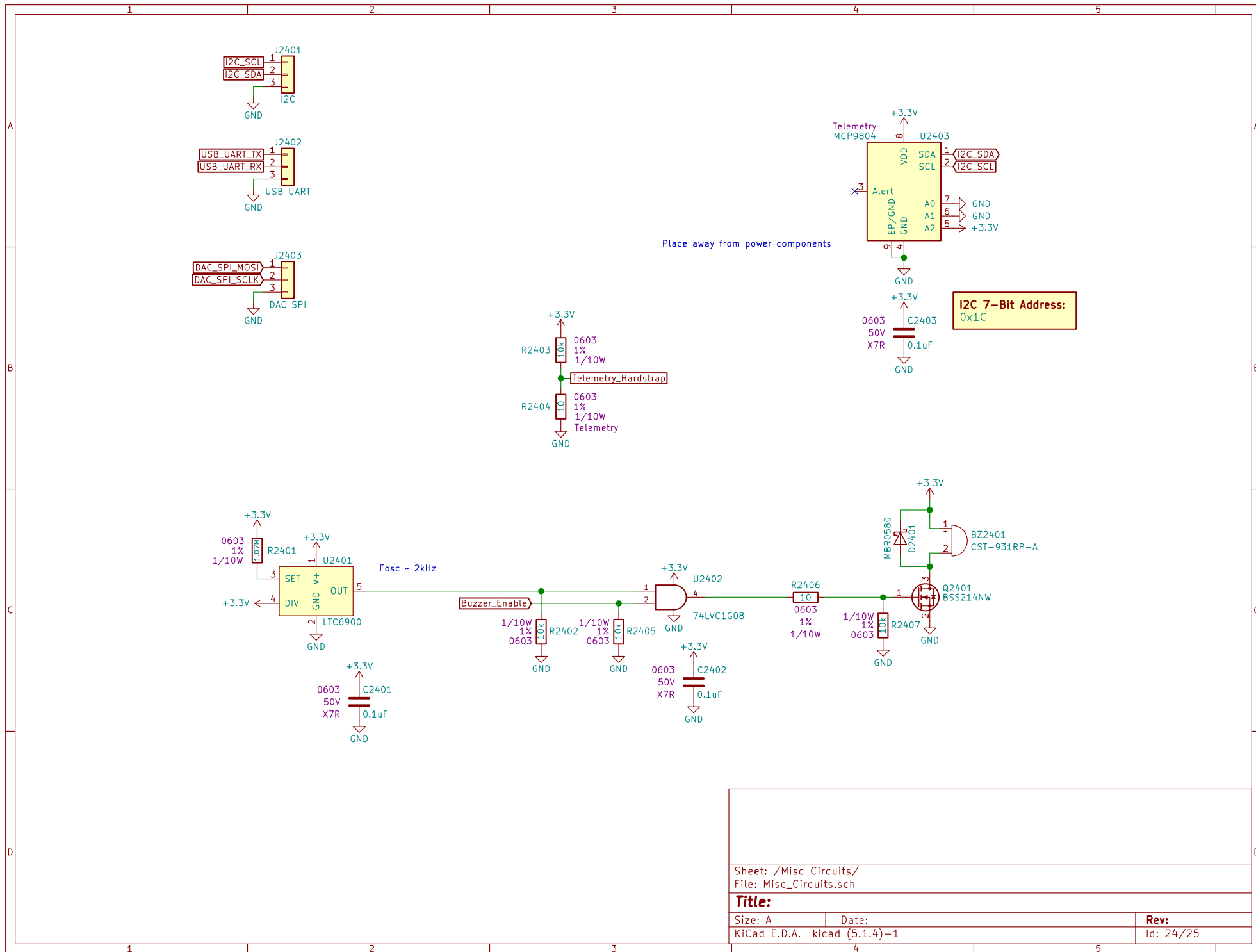
Size: A

Date:

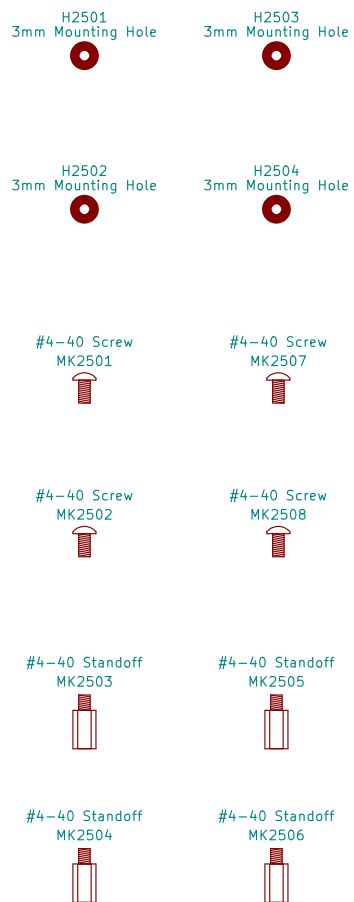
KiCad E.D.A. kicad (5.1.4)-1

Rev:

Id: 23/25







|   |                  |           |
|---|------------------|-----------|
| Sheet: /Mechanical/<br>File: Mechanical.sch |                  |           |
| Title: <b>QI Charger</b>                    |                  |           |
| Size: A                                     | Date: 2019-01-03 | Rev: A    |
| KiCad E.D.A. kicad (5.1.4)-1                |                  | Id: 25/25 |