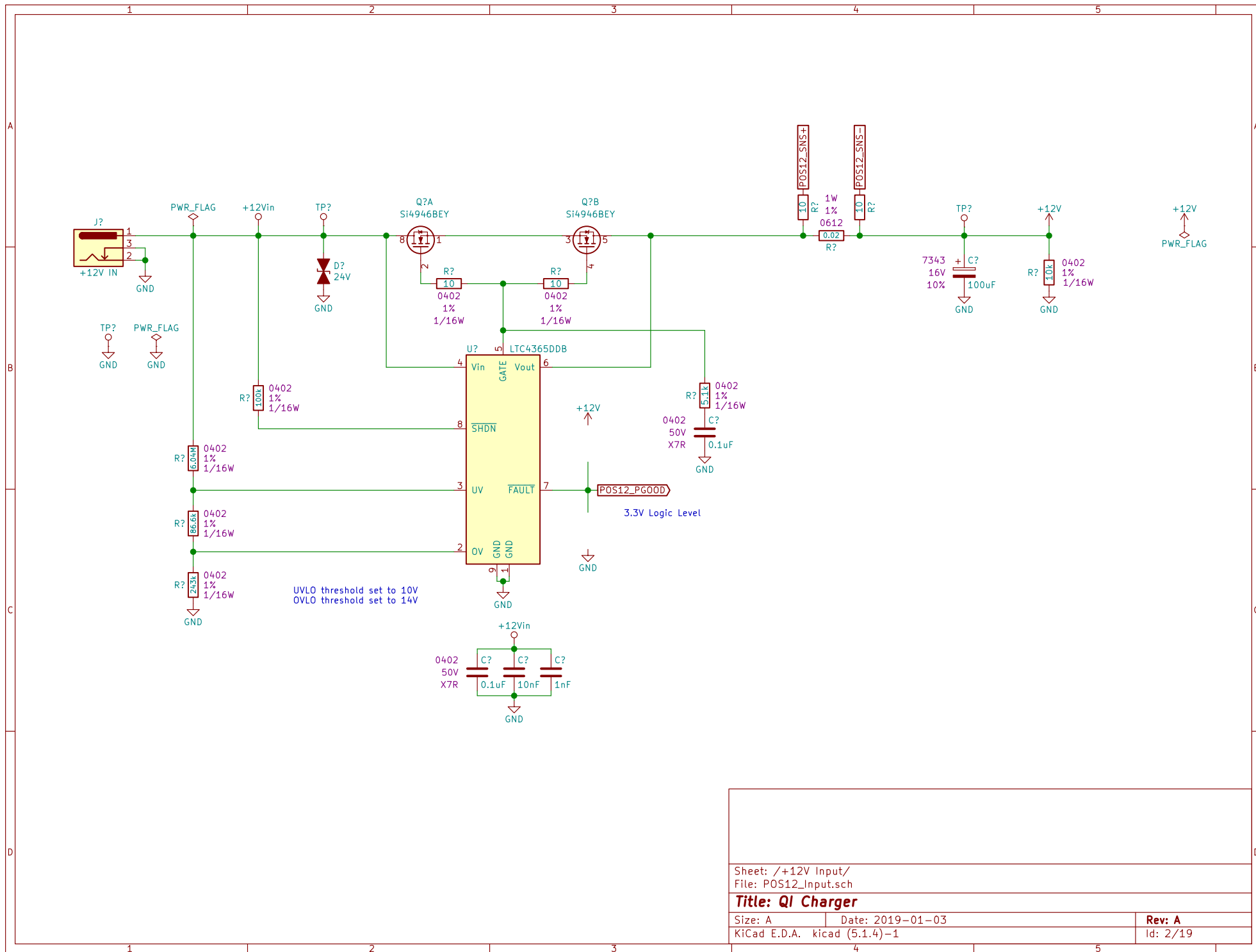
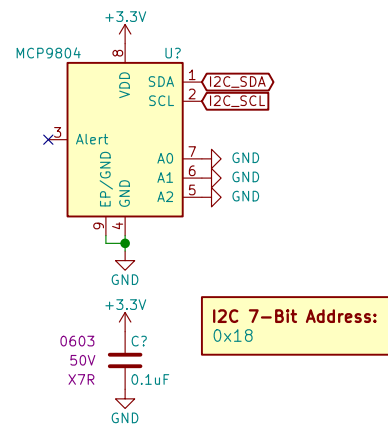
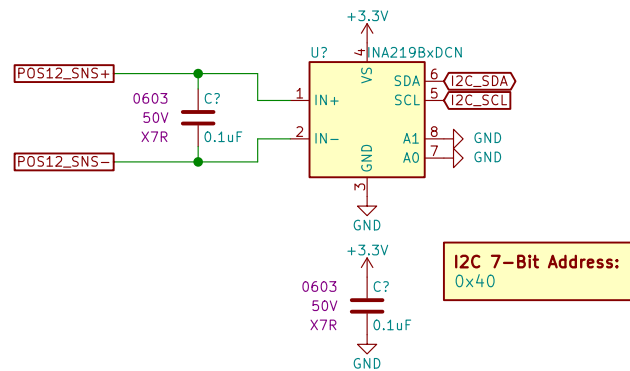


	1	2	3	4	5	
A		Sheet: +12V Input File: POS12_Input.sch		Sheet: PG00D LEDs File: PG00D_LEDs.sch		A
		Sheet: +12V Telemetry File: POS12_Telemetry.sch		Sheet: Status LEDs File: Status_LEDs.sch		
		Sheet: +3.3V Power Supply File: POS3P3_Power_Supply.sch				
		Sheet: +3.3V Telemetry File: POS3P3_Telemetry.sch				
		Sheet: +1.8V Power Supply File: POS1P8_Power_Supply.sch				
B		Sheet: +1.8V Telemetry File: POS1P8_Telemetry.sch				B
		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				
C		Sheet: USB Telemetry File: USB_Telemetry.sch				C
		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				
D						D
	1	2	3	4	5	





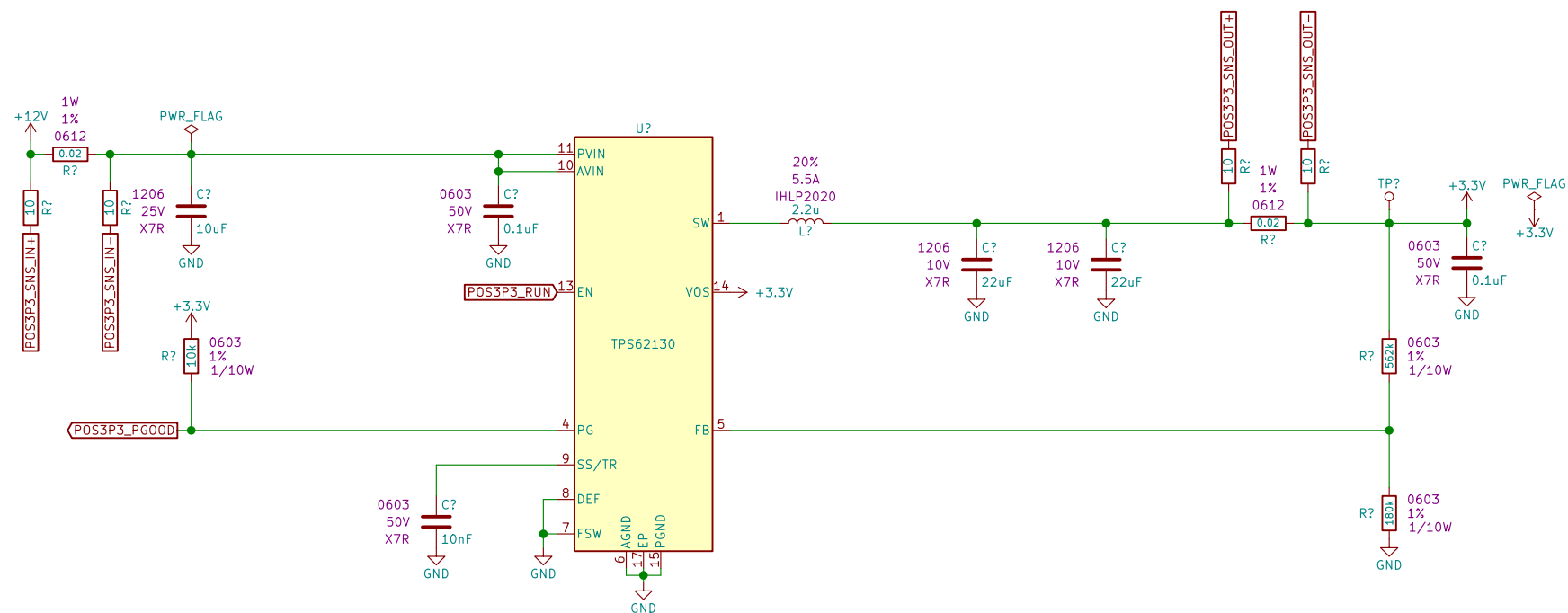
Sheet: /+12V Telemetry/  
File: POS12\_Telemetry.sch

**Title:**

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

Rev:  
Id: 3/19

# CONSIDER A SMALLER SOLUTION WITH LOWER OUTPUT CURRENT

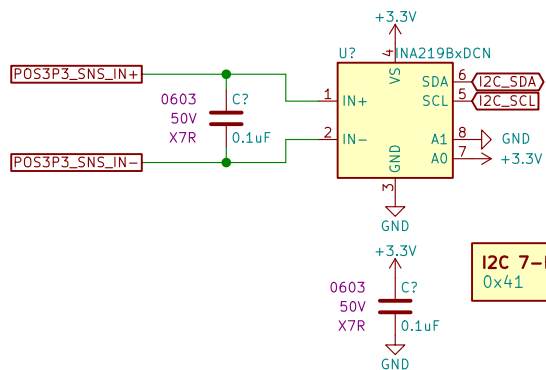


Sheet: /+3.3V Power Supply/  
File: POS3P3\_Power\_Supply.sch

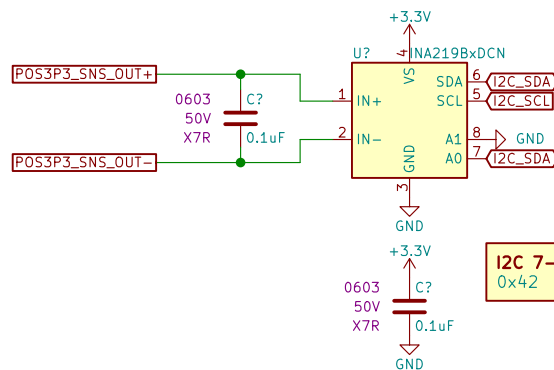
## Title: QI Charger

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

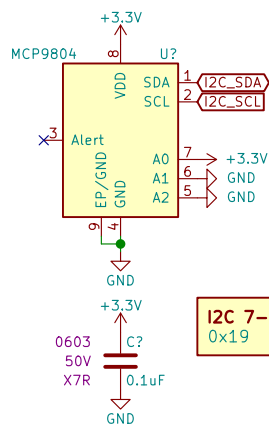
Rev: A  
Id: 4/19



I2C 7-Bit Address:  
0x41



I2C 7-Bit Address:  
0x42



I2C 7-Bit Address:  
0x19

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

**Title:**

Size: A

Date:

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

**Rev:**

Id: 5/19

Probably a small footprint LDO

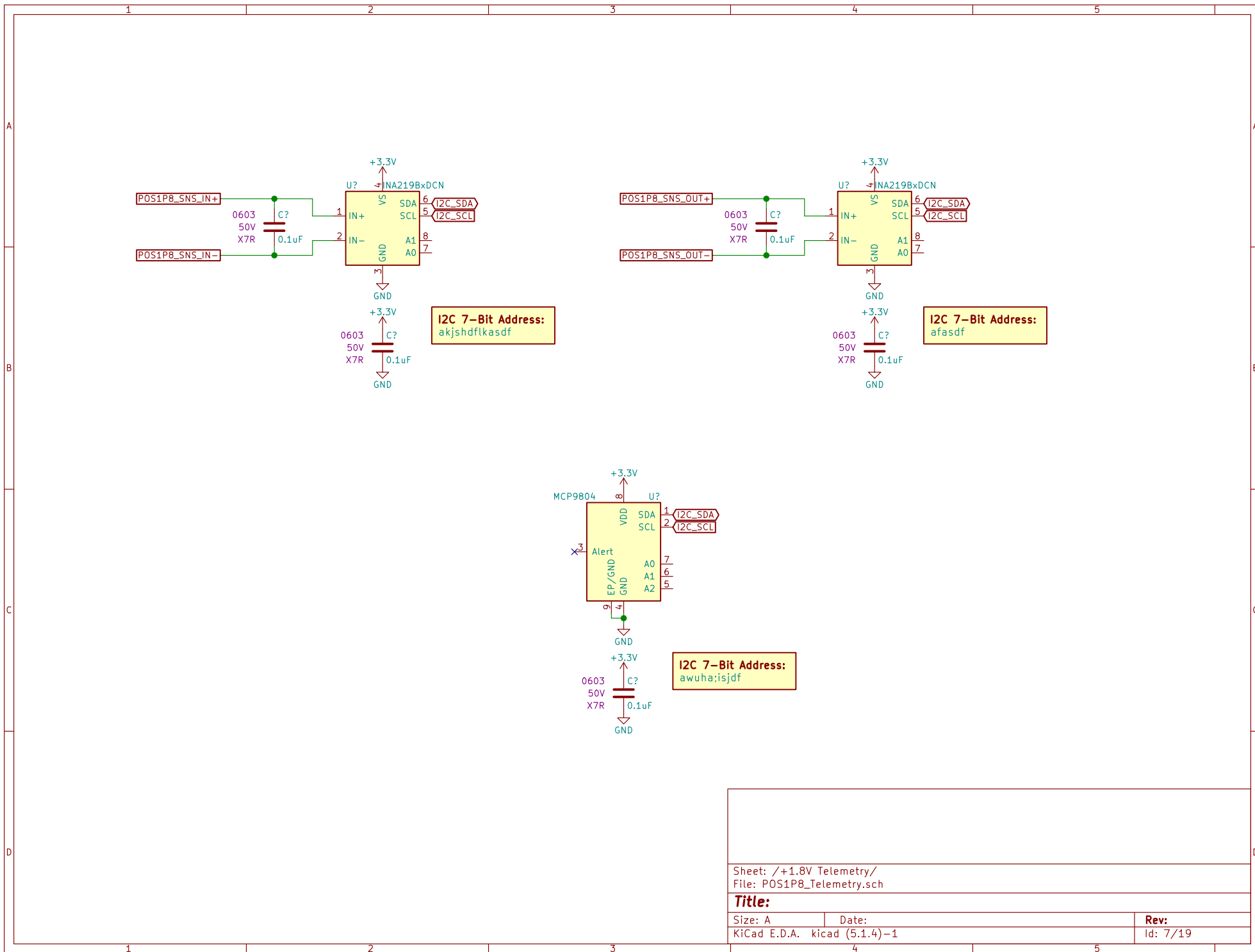
Sheet: /+1.8V Power Supply/  
File: POS1P8\_Power\_Supply.sch

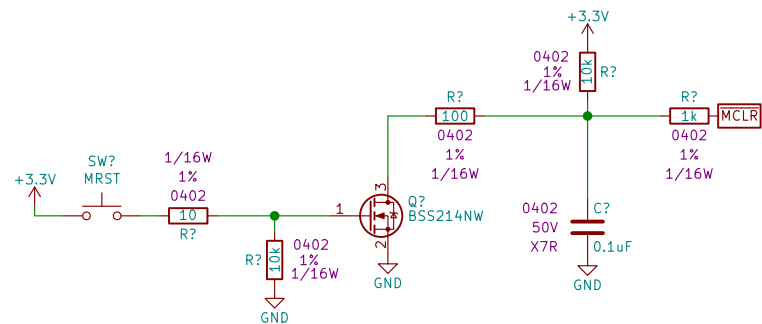
**Title:**

Size: A Date: 2020-05-02

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

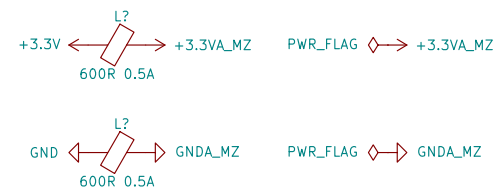
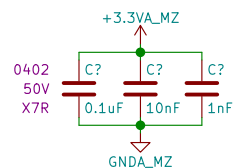
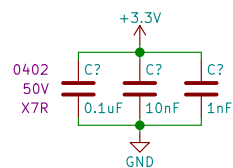
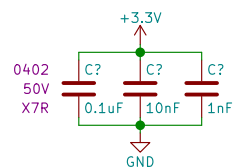
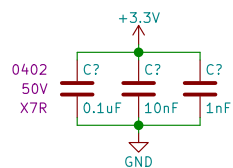
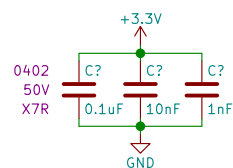
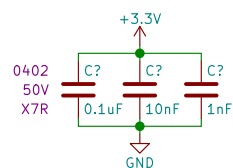
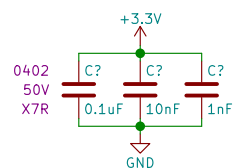
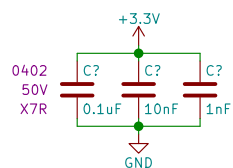
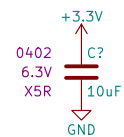
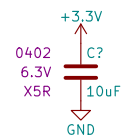
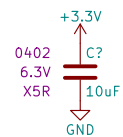
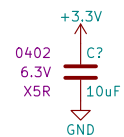
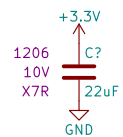
**Rev:**  
Id: 6/19

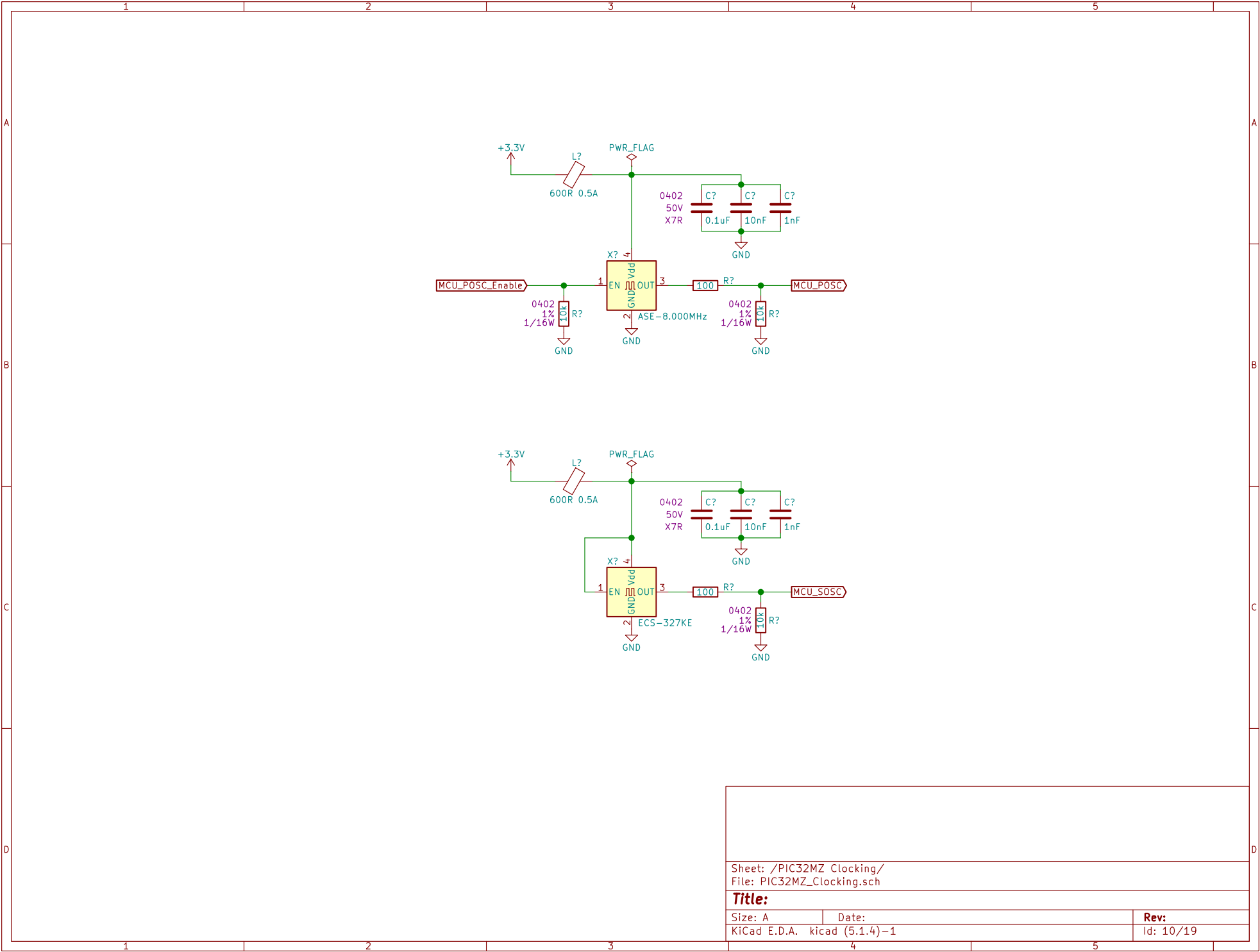




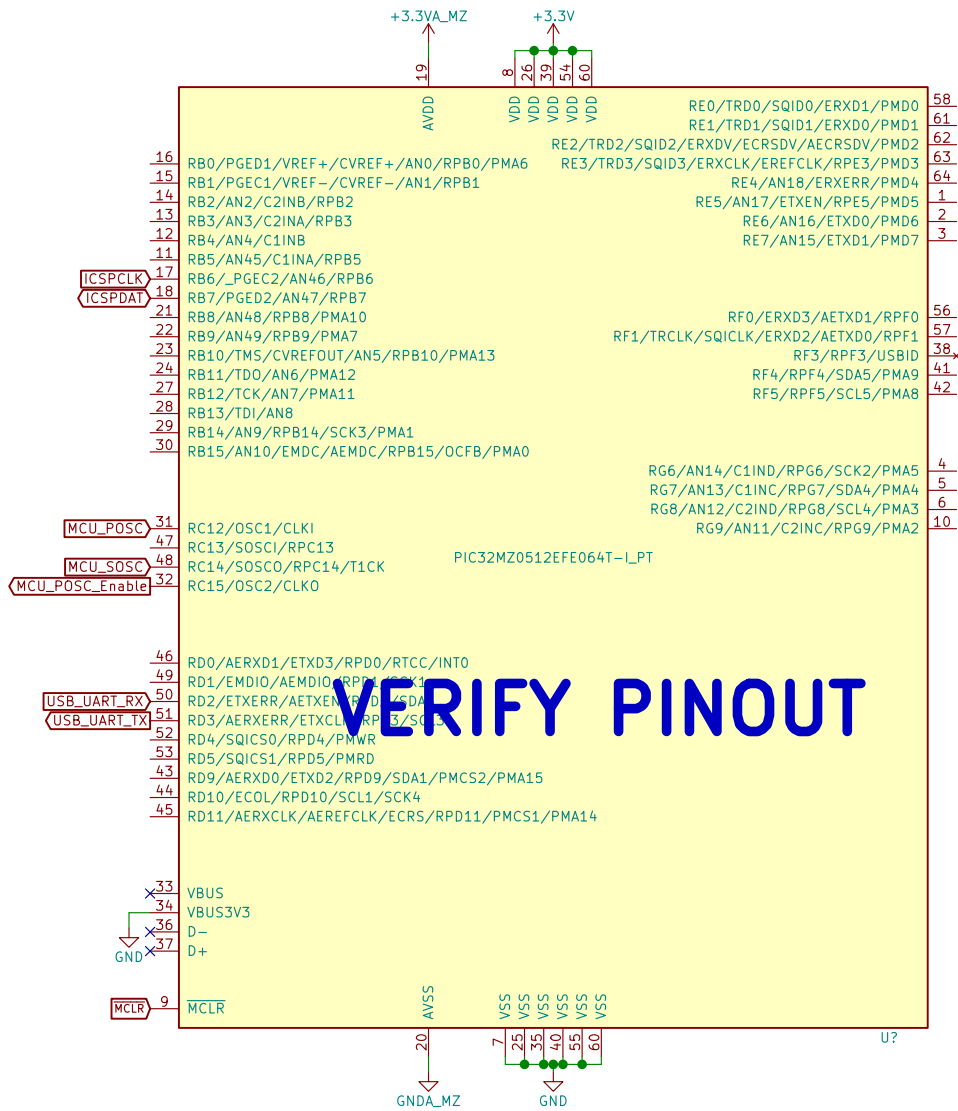
Rev: A  
Id: 8/19







# VERIFY PINOUT



Drew Maatman

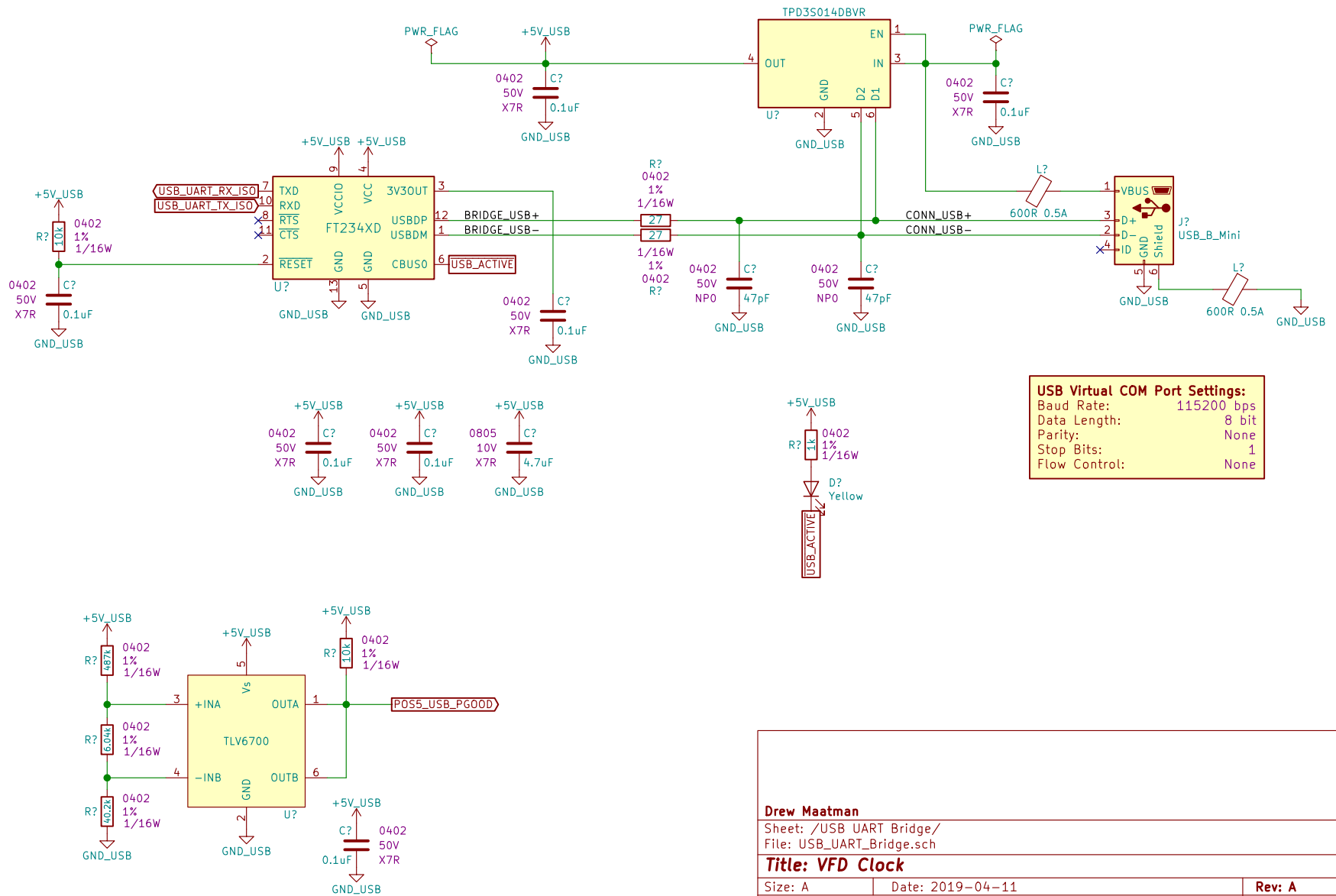
Sheet: /PIC32MZ/  
File: PIC32MZ.sch

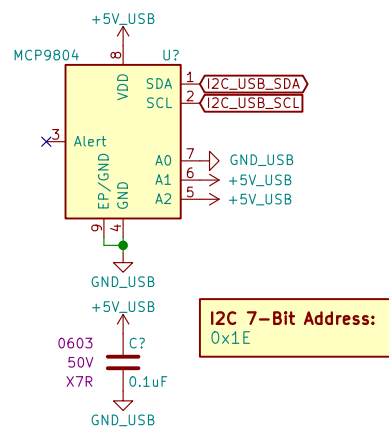
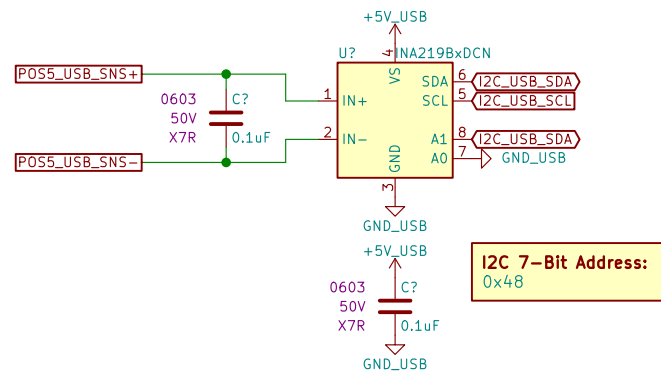
Title: VFD Clock

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

Rev: A  
Id: 11/19

# 11. USB UART Bridge



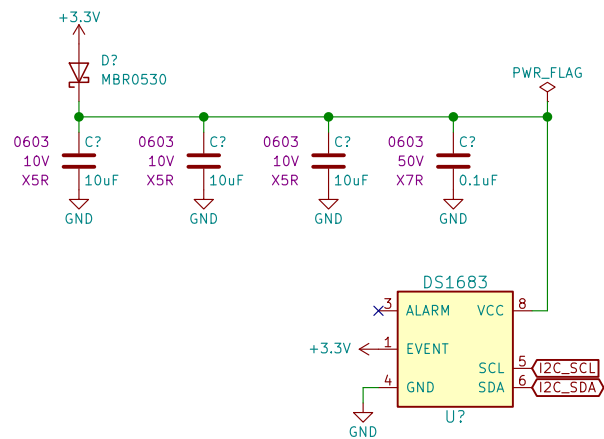


Sheet: /USB Telemetry/  
File: USB\_Telemetry.sch

**Title:**

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

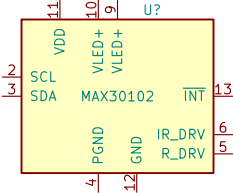
Rev:  
Id: 13/19



I2C 7-Bit Address:  
0x6B

Sheet: /Time of Flight/ File: Time_of_Flight.sch		
Title:		
Size: A	Date:	Rev:
KiCad E.D.A. kicad (5.1.4)-1		Id: 14/19

I2C 7-Bit Address:  
I2C\_Address



Sheet: /POX Sensor/ File: POX_Sensor.sch		
Title:		
Size: A	Date: 2020-05-02	Rev:
KiCad E.D.A. kicad (5.1.4)-1		Id: 15/19

1					2					3					4					5					
A																									A
B																									B
C																									C
D																									D
1					2					3					4					5					

Sheet: /Display/  
File: Display.sch

Title:

Size: ADate: 2020-05-02

KiCad E.D.A.  kicad (5.1.4)-1

Rev:Id: 16/19

Sheet: /Display/		
File: Display.sch		
<b>Title:</b>		
Size: A	Date: 2020-05-02	Rev:
KiCad E.D.A. kicad (5.1.4)-1		Id: 16/19



1					2					3					4					5					
A																									A
B																									B
C																									C
D																									D
1					2					3					4					5					

Sheet: /Pushbuttons/  
File: Pushbuttons.sch

Title:

Size: A

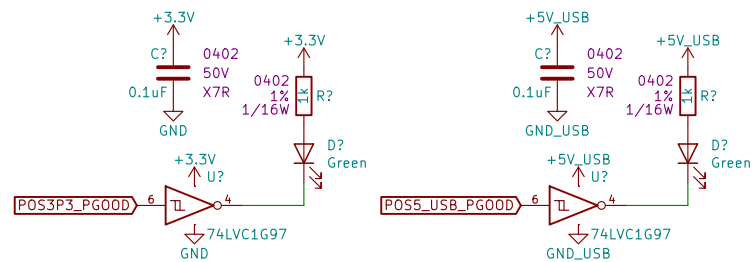
Date: 2020-05-02

Rev:

KiCad E.D.A.    kicad (5.1.4)-1

Id: 17/19

Sheet: /Pushbuttons/ File: Pushbuttons.sch		
Title:		
Size: A	Date: 2020-05-02	Rev:
KiCad E.D.A. kicad (5.1.4)-1		Id: 17/19

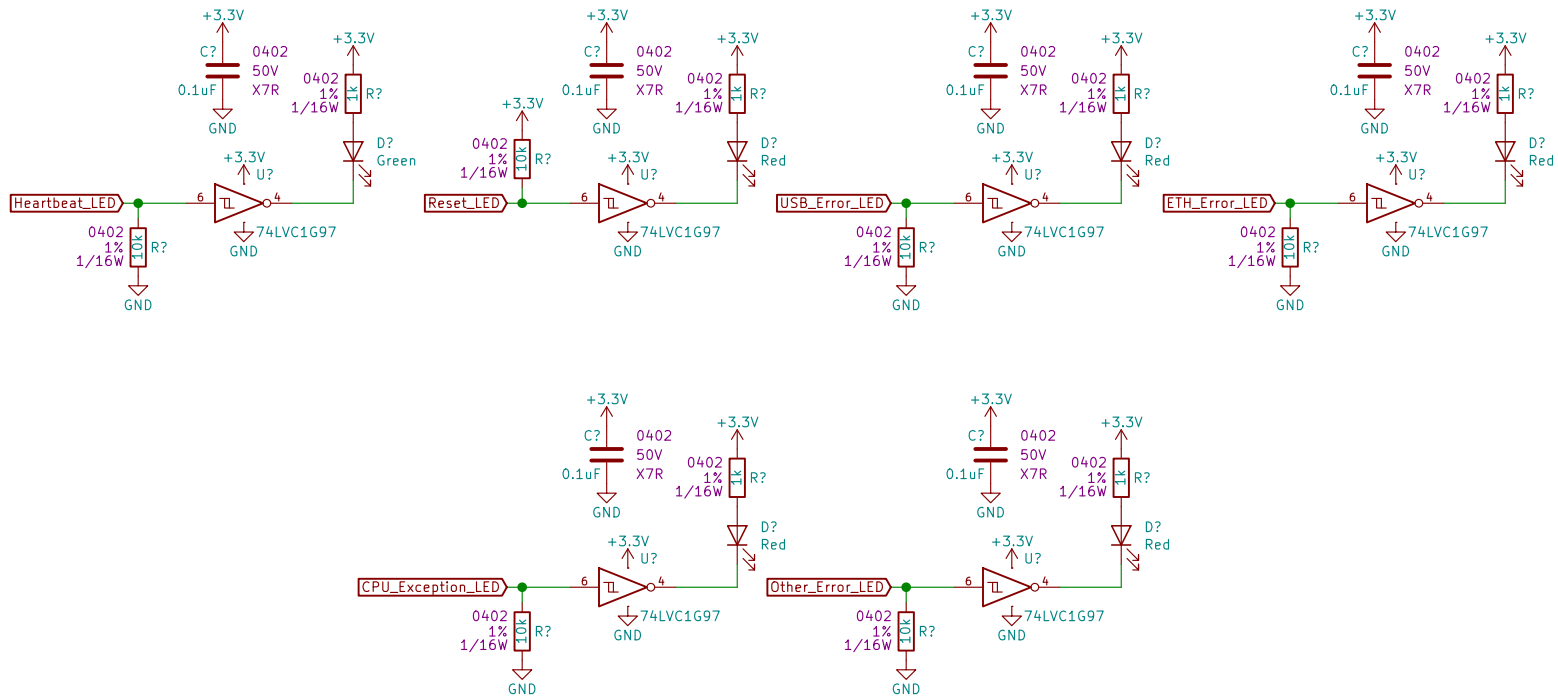


Sheet: /PGOOD LEDs/  
File: PGOOD\_LEDs.sch

**Title:**

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

Rev:  
Id: 18/19



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

**Title:**

Size: A

Date:

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

**Rev:**

Id: 19/19