

# DIY QI Charger with Digital Monitoring

## 01. Table of Contents

## 02. +12V Input

## 03. +5V Power Supply

## 04. Microcontroller Programming

## 05. Microcontroller

## 06. ADC Drivers

## 07. OLED Display

## 08. Capacitive Touch Sensors

## 09. USB UART Isolation

## 10. USB UART Bridge

## 11. Status LEDs 1

## 12. Temperature Sensors

## 13. QI Controller

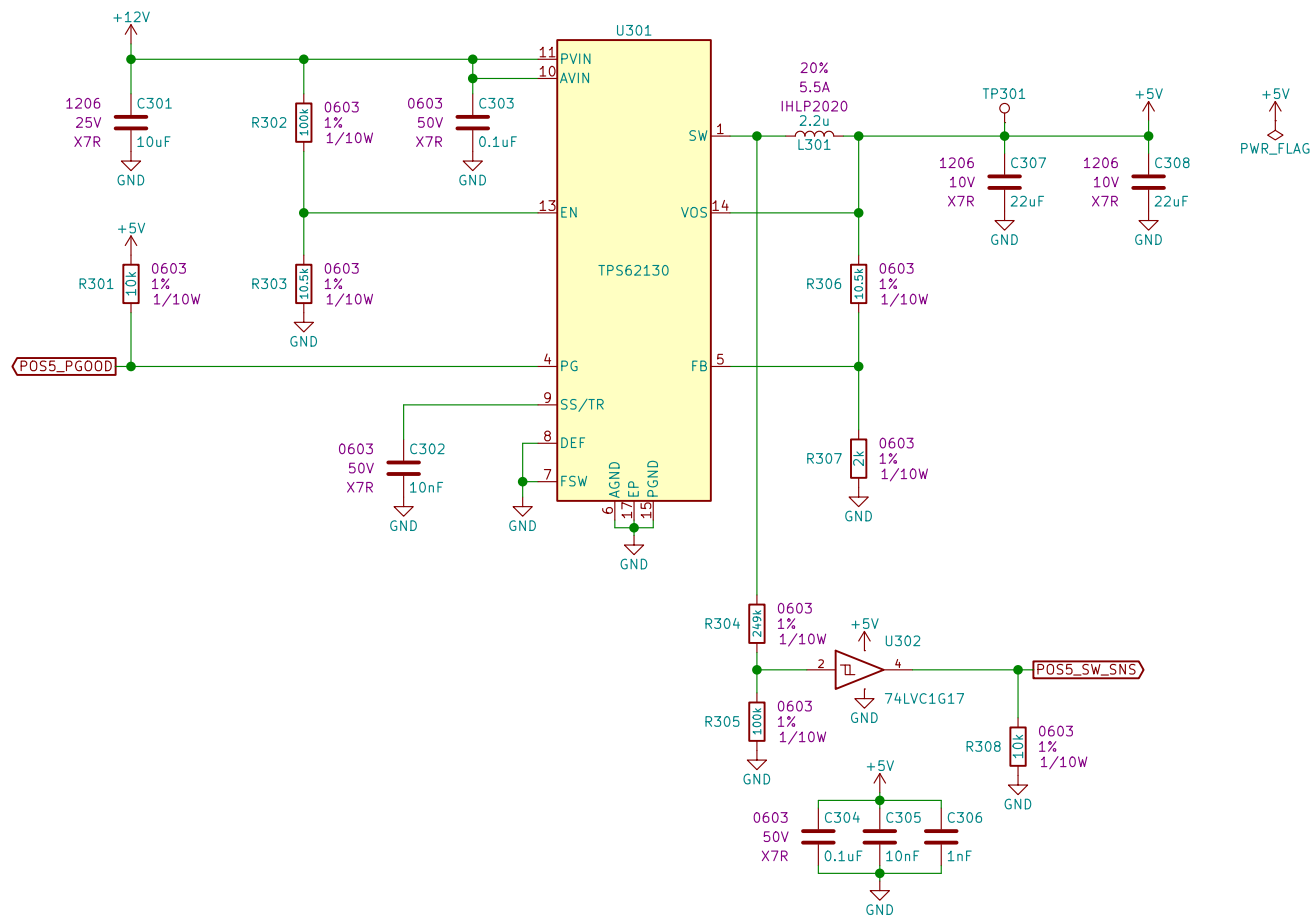
## 14. QI Interface

## 15. Mechanical

POS12_Input
POS12_Input.sch
POS5_Power_Supply
POS5_Power_Supply.sch
Microcontroller Programming
Microcontroller_Programming.sch
Microcontroller
Microcontroller.sch
ADC_Drivers
ADC_Drivers.sch
OLED_Display
OLED_Display.sch
Capacitive_Touch_Sensors
Capacitive_Touch_Sensors.sch
USB_UART_Isolation
USB_UART_Isolation.sch
USB_UART_Bridge
USB_UART_Bridge.sch
Status_LEDs_1
Status_LEDs_1.sch
Temperature_Sensors
Temperature_Sensors.sch
QI_Controller
QI_Controller.sch
QI_Interface
QI_Interface.sch
Mechanical
Mechanical.sch

Sheet: /		
File: QI_Charger.sch		
Title: QI Charger		
Size: A	Date: 2019-01-03	Rev: A
KiCad E.D.A. kicad (5.0.2)-1		Id: 1/15



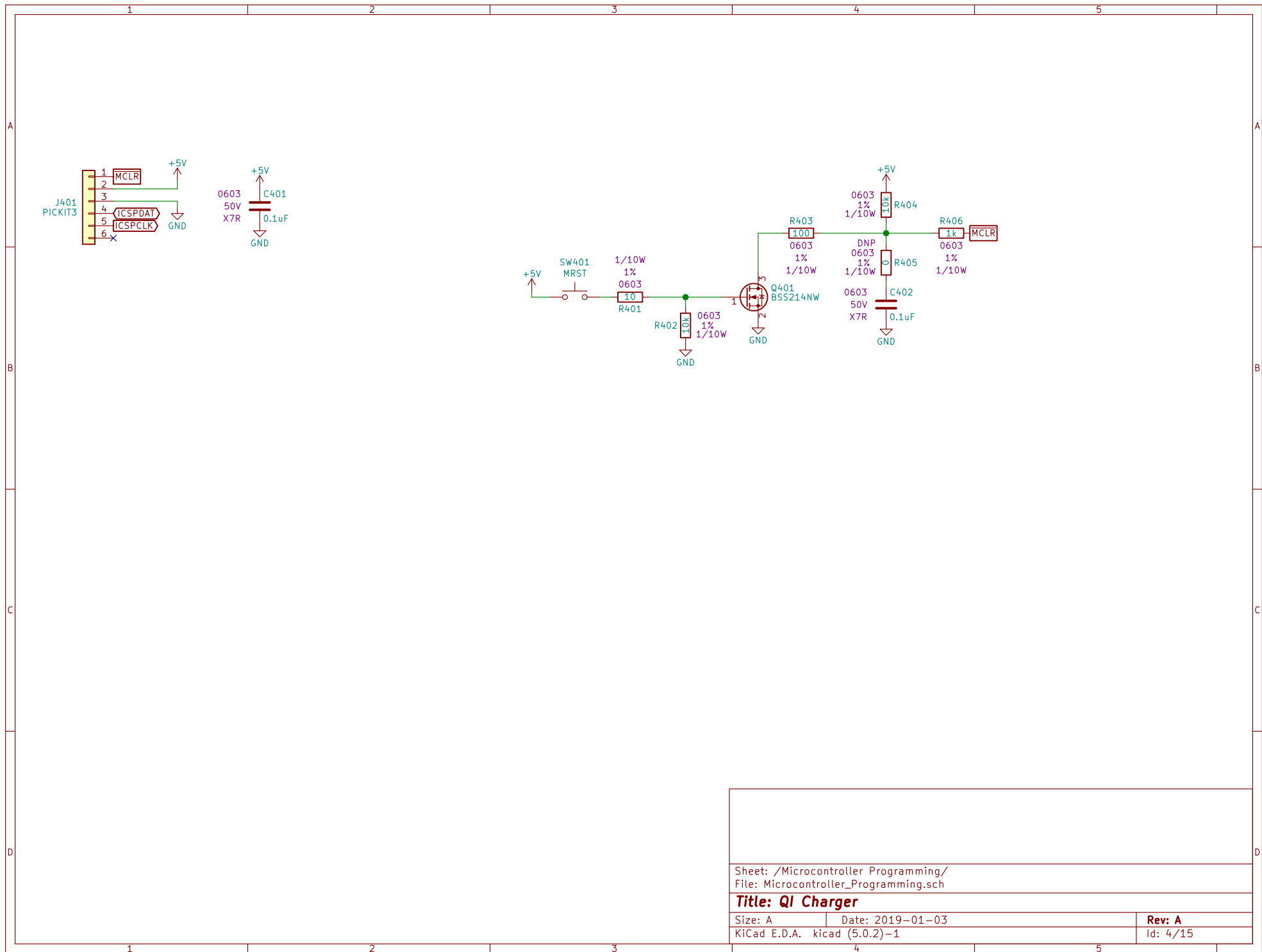


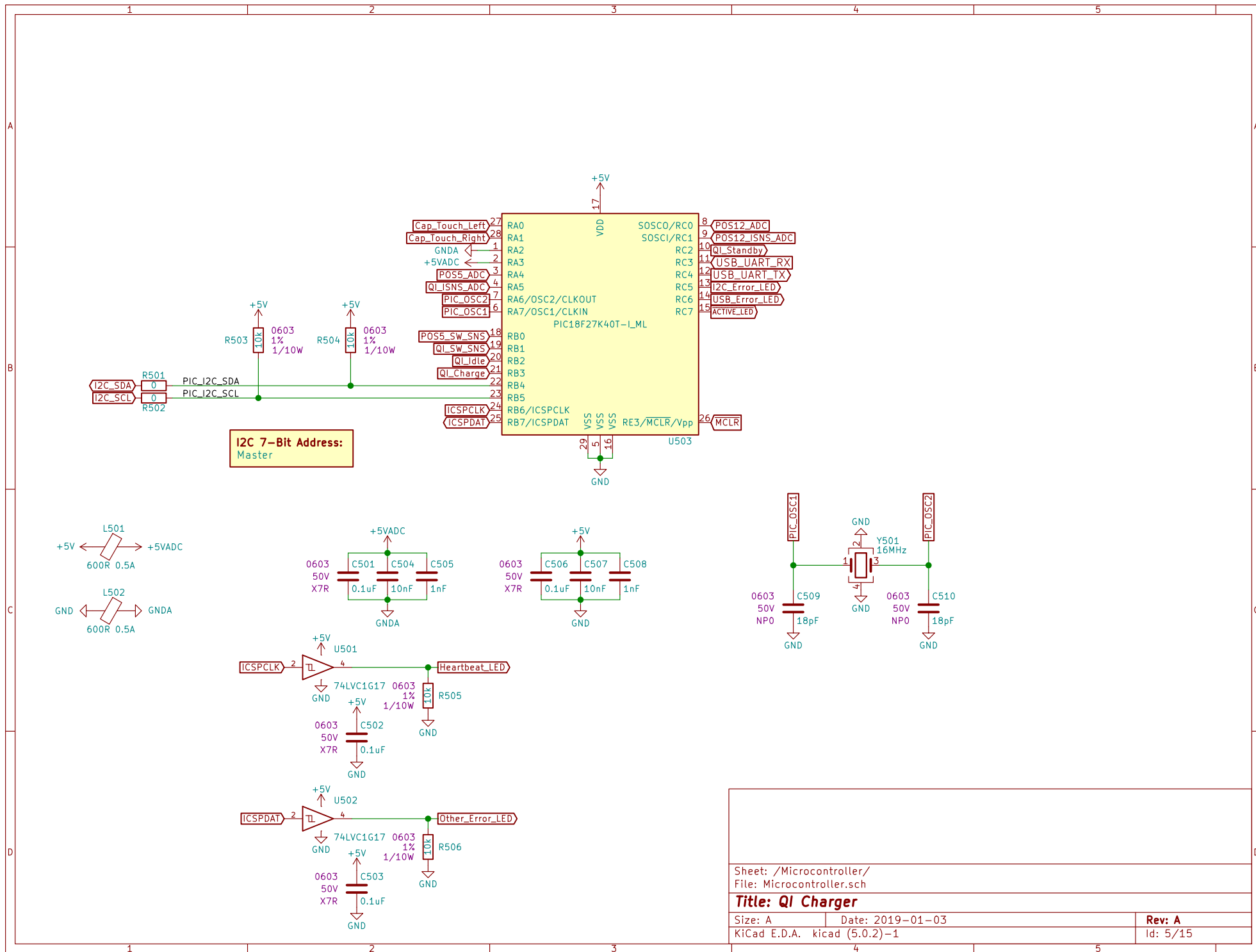
Sheet: /POS5 Power Supply/  
File: POS5\_Power\_Supply.sch

**Title: QI Charger**

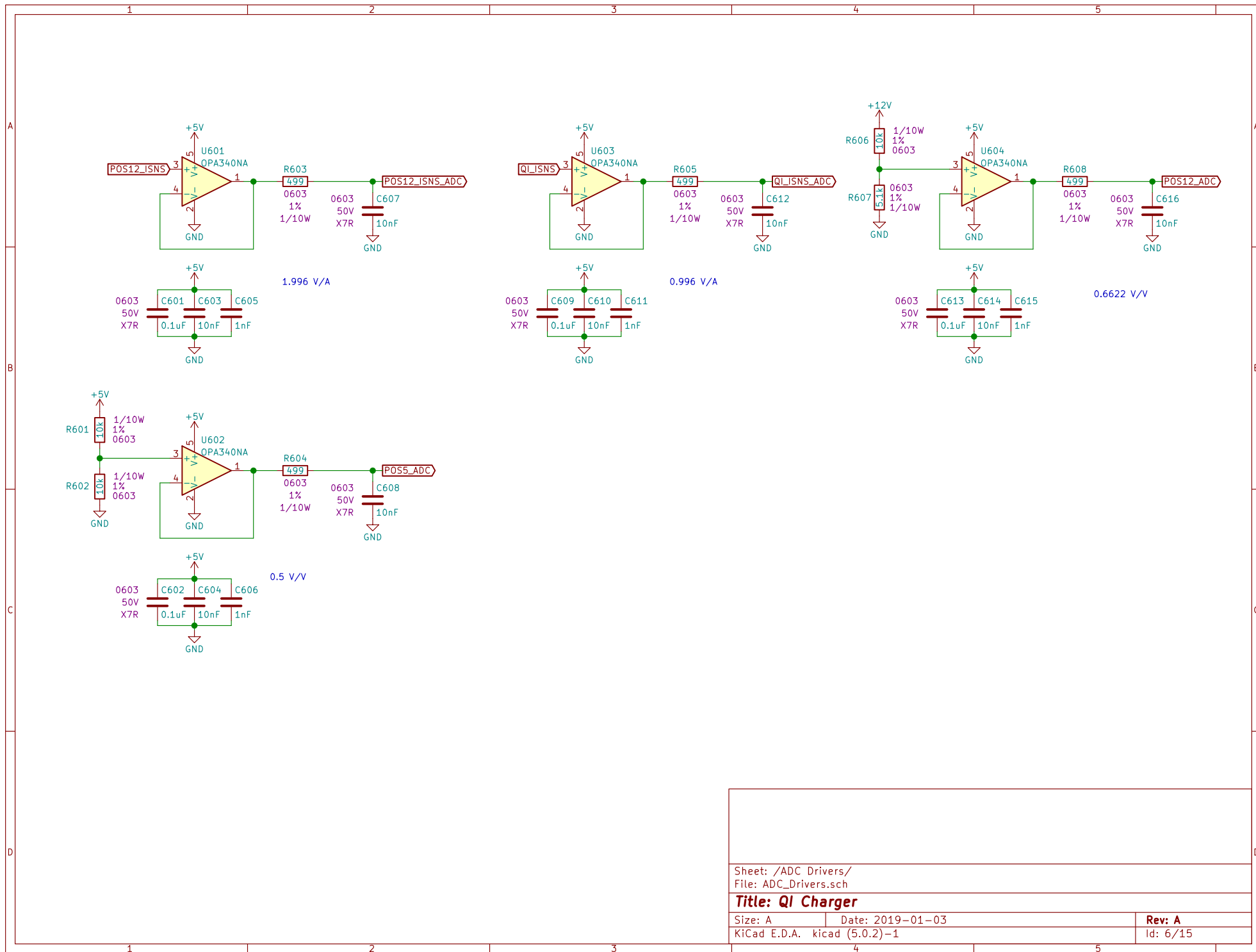
Size: A Date: 2019-01-03  
KiCad E.D.A. kicad (5.0.2)-1

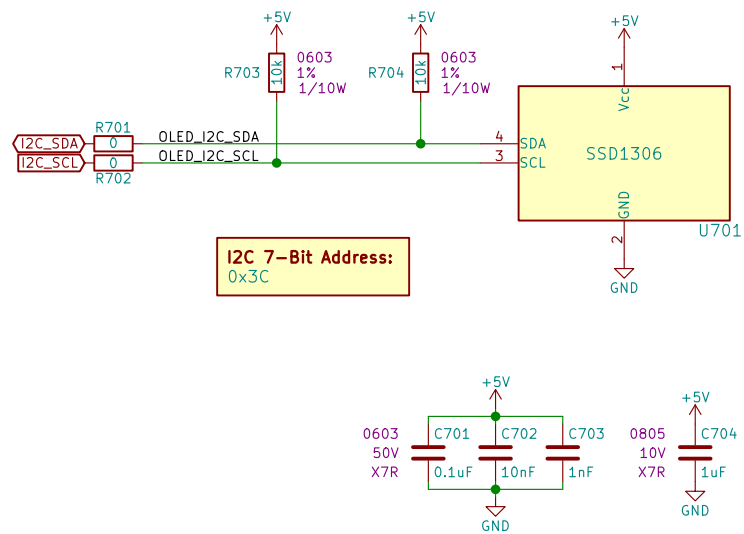
Rev: A  
Id: 3/15

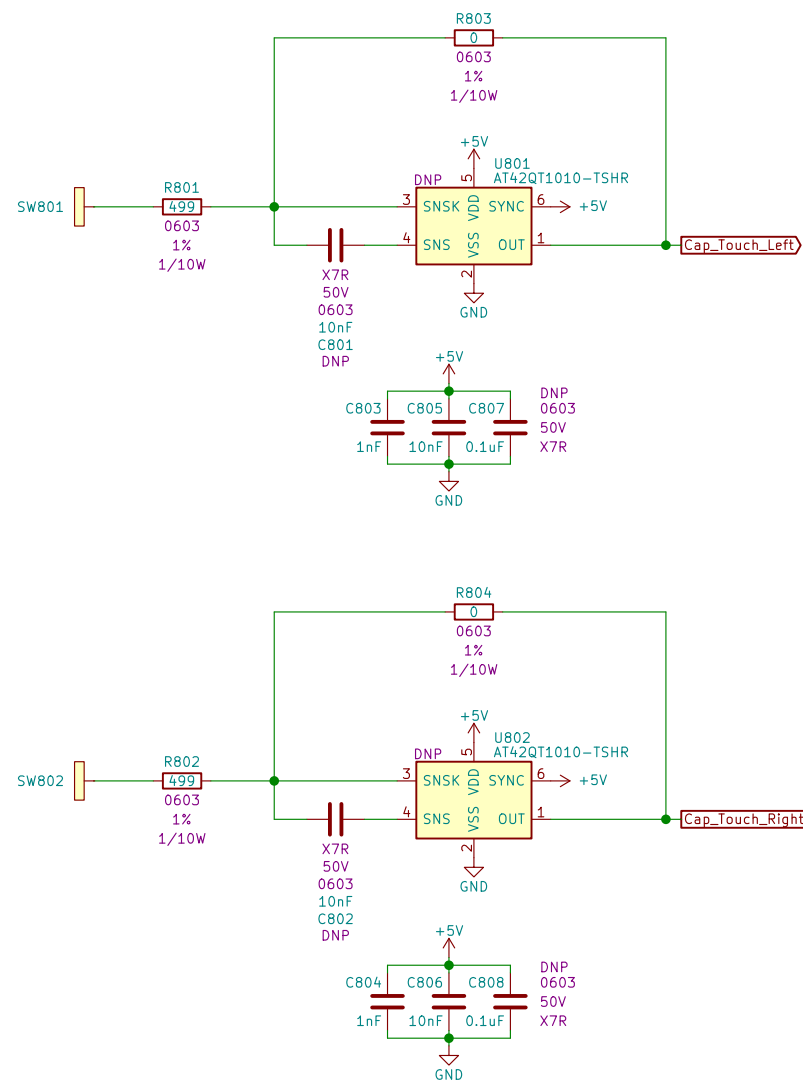




Sheet: /Microcontroller/ File: Microcontroller.sch	
<b>Title: Qi Charger</b>	
Size: A	Date: 2019-01-03
KiCad E.D.A. kicad (5.0.2)-1	Rev: A
Id: 5/15	







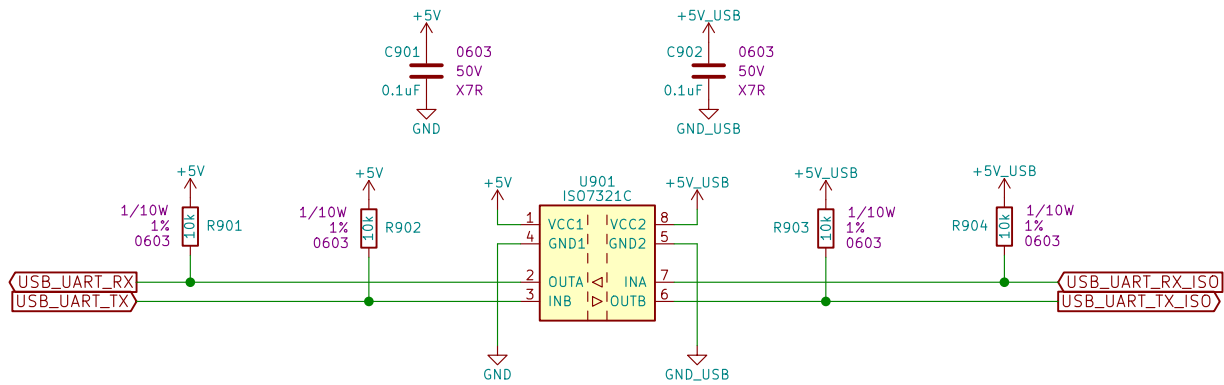
Sheet: /Capacitive Touch Sensors/  
File: Capacitive\_Touch\_Sensors.sch

# **Title: QI Charger**

Size: A Date: 2019-01-03  
KiCad E.D.A. kicad (5.0.2)-1

Rev: A  
Id: 8/15



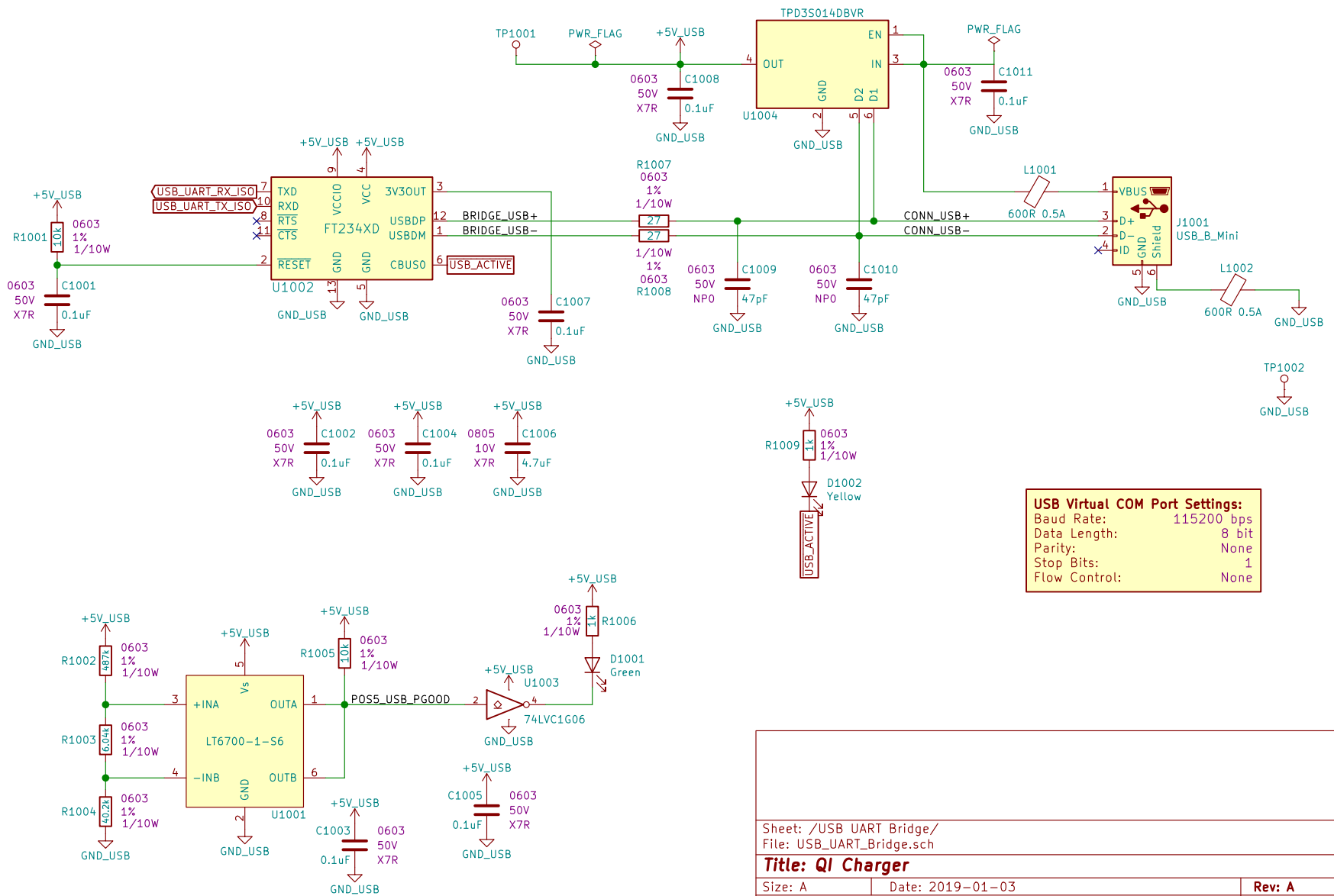


Sheet: /USB UART Isolation/  
File: USB\_UART\_Isolation.sch

**Title: QI Charger**

Size: A Date: 2019-01-03  
KiCad E.D.A. kicad (5.0.2)-1

**Rev: A**  
Id: 9/15

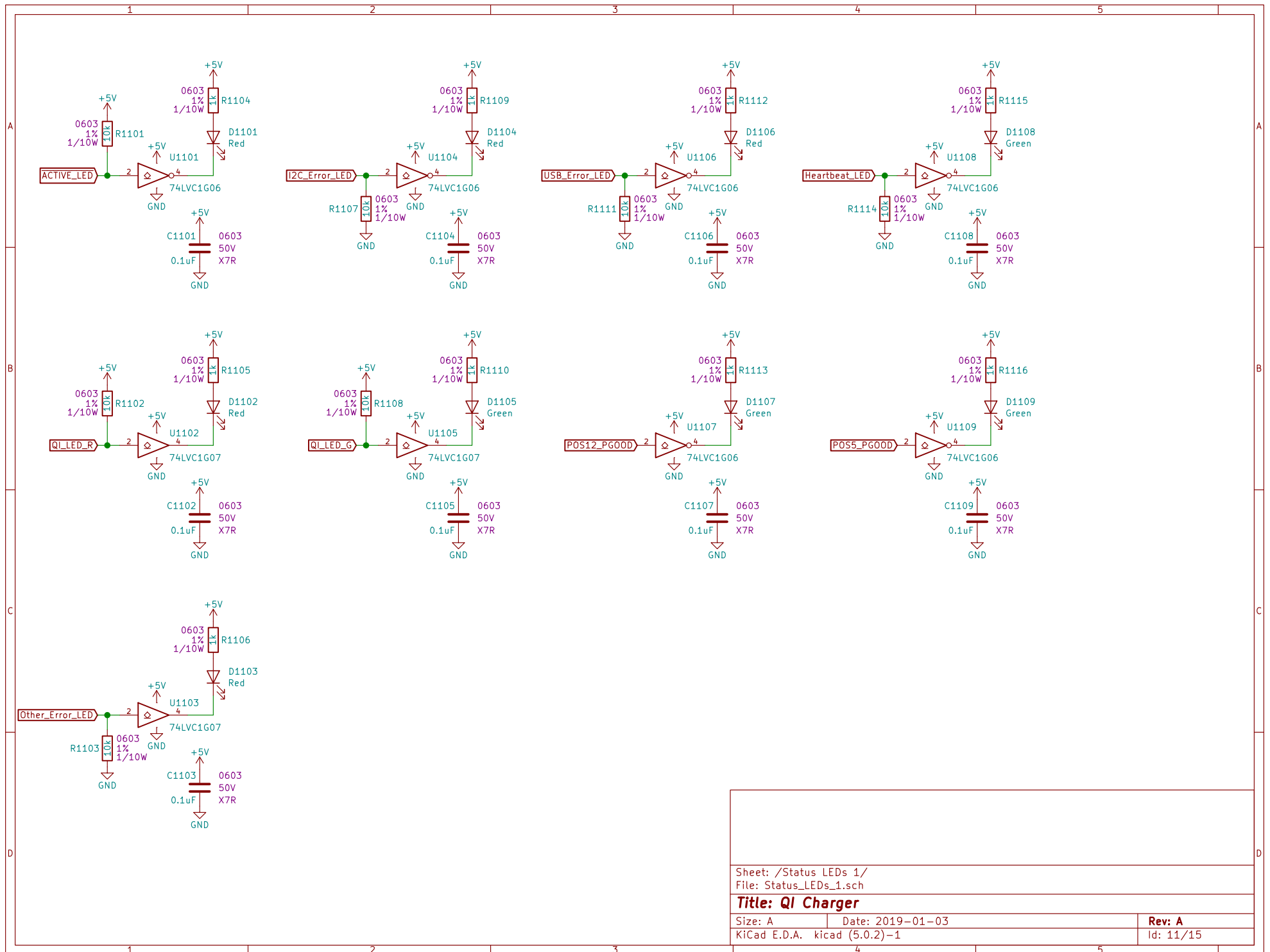


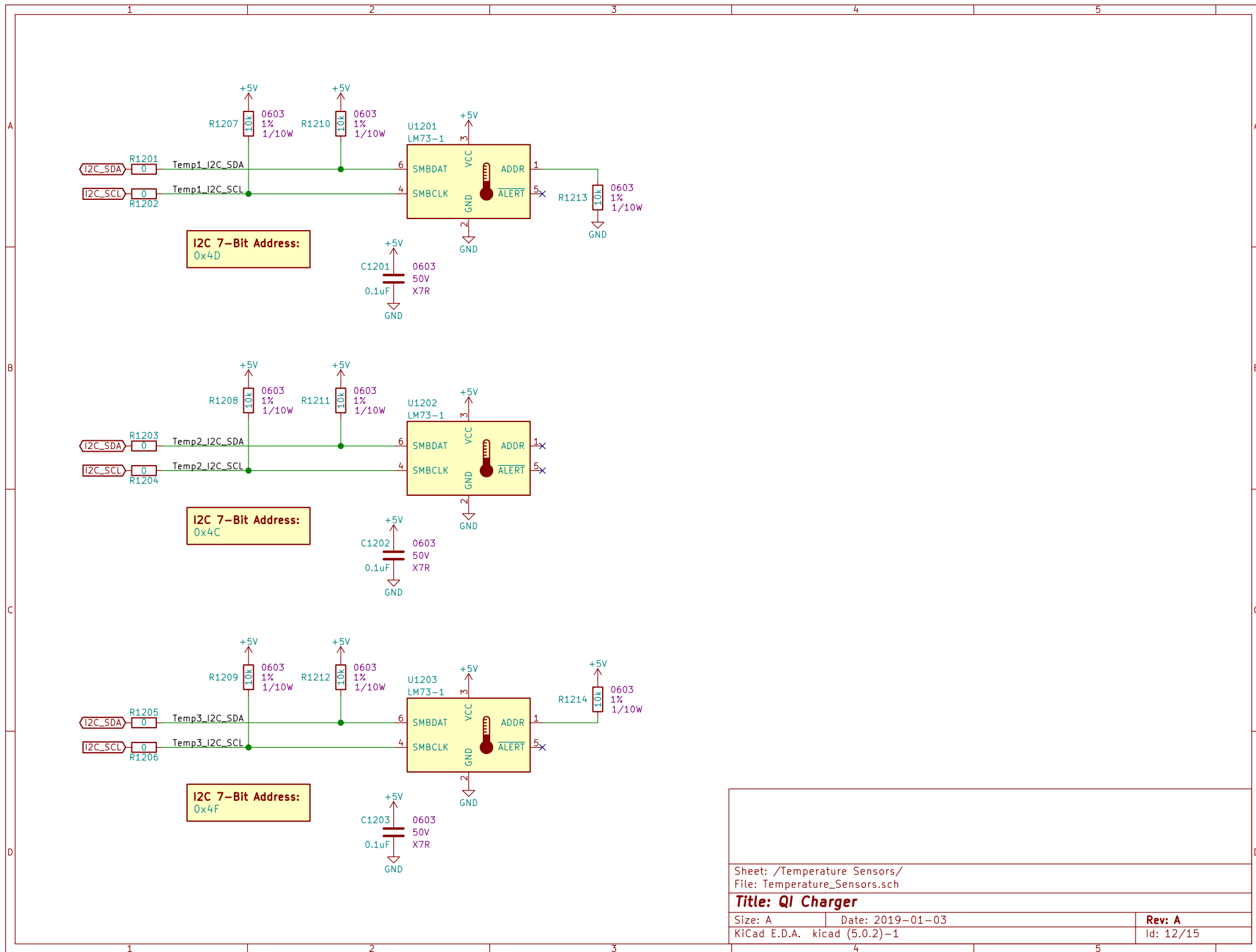
Sheet: /USB UART Bridge/  
 File: USB\_UART\_Bridge.sch

**Title: Qi Charger**

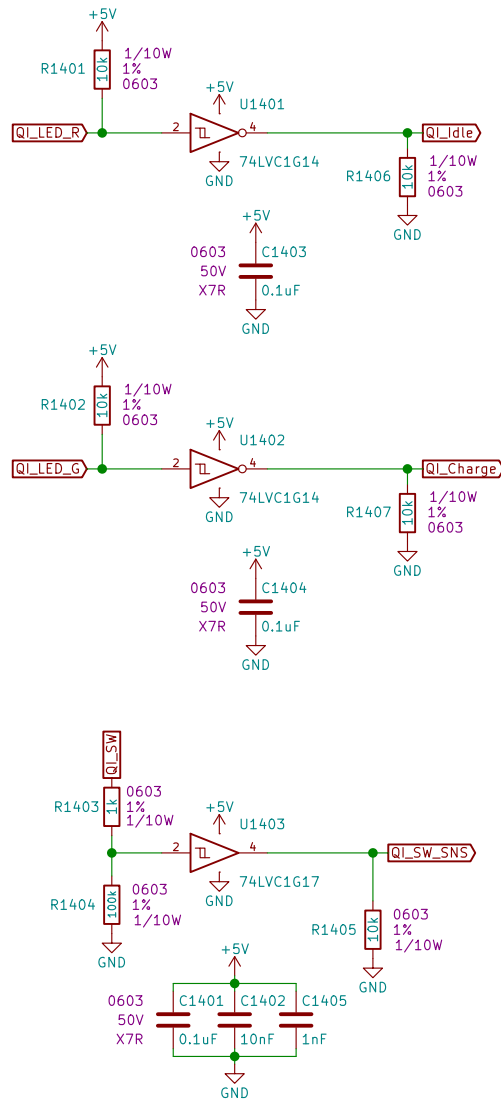
Size: A Date: 2019-01-03  
 KiCad E.D.A. kicad (5.0.2)-1

**Rev: A**  
 Id: 10/15









Sheet: /Qi Interface/  
File: Qi\_Interface.sch

**Title: Qi Charger**

Size: A Date: 2019-01-03  
KiCad E.D.A. kicad (5.0.2)-1

**Rev: A**  
Id: 14/15

