

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

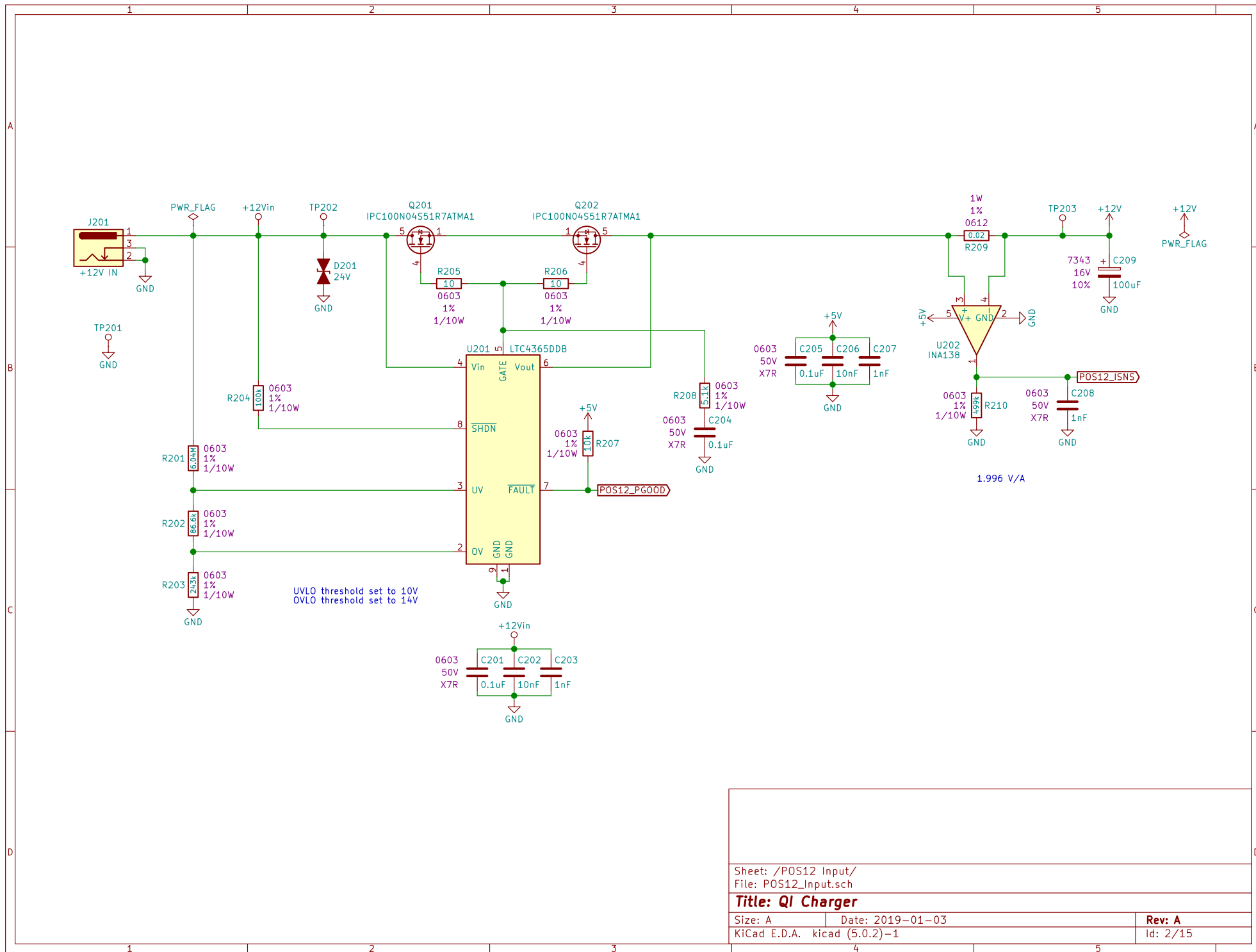
13. QI Controller

14. QI Interface

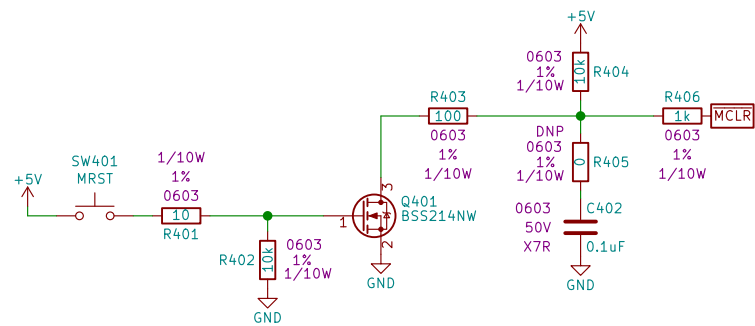
15. Mechanical

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

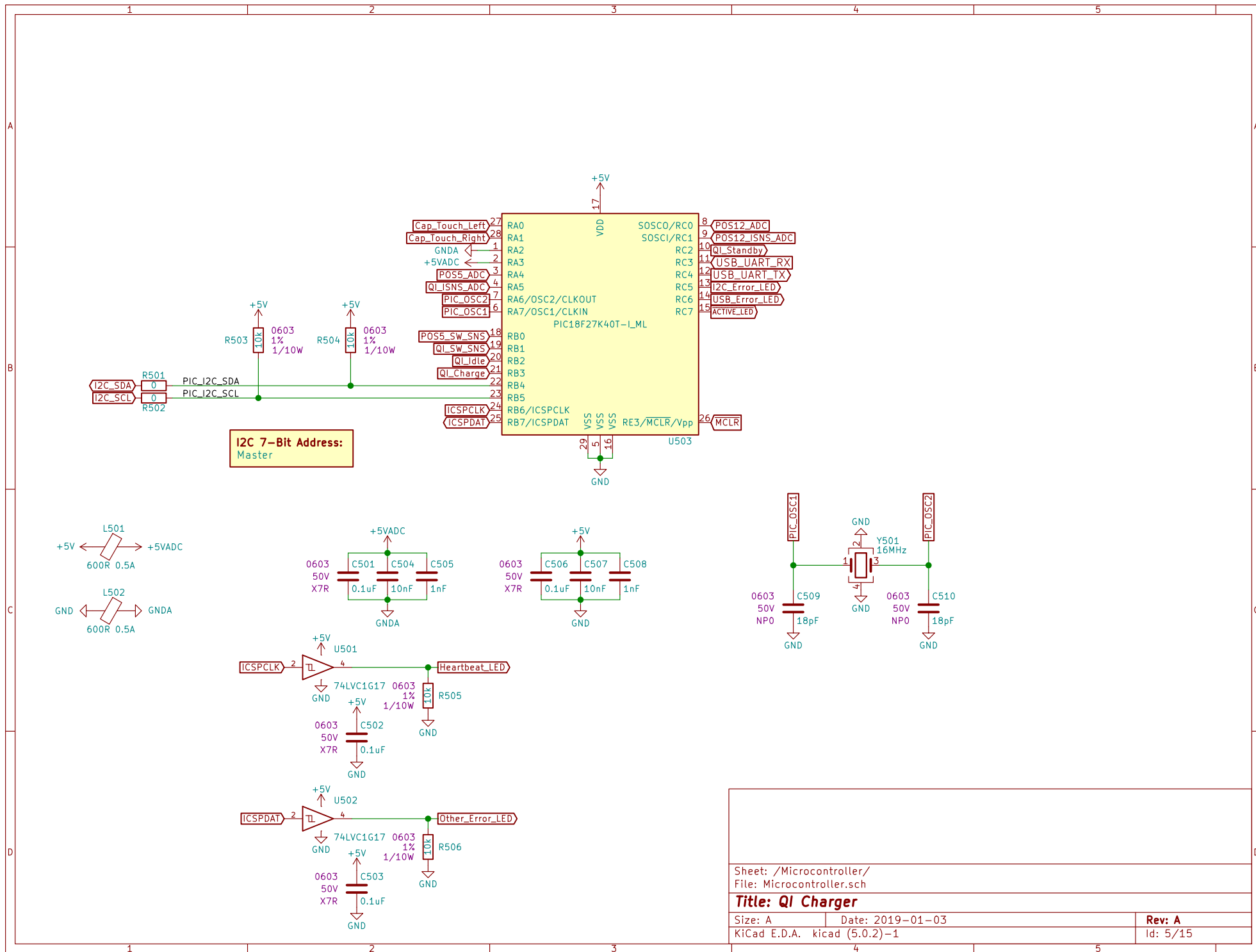
Sheet: /		
File: QI_Charger.sch		
Title: QI Charger		
Size: A	Date: 2019-01-03	Rev: A
KiCad E.D.A. kicad (5.0.2)-1		Id: 1/15



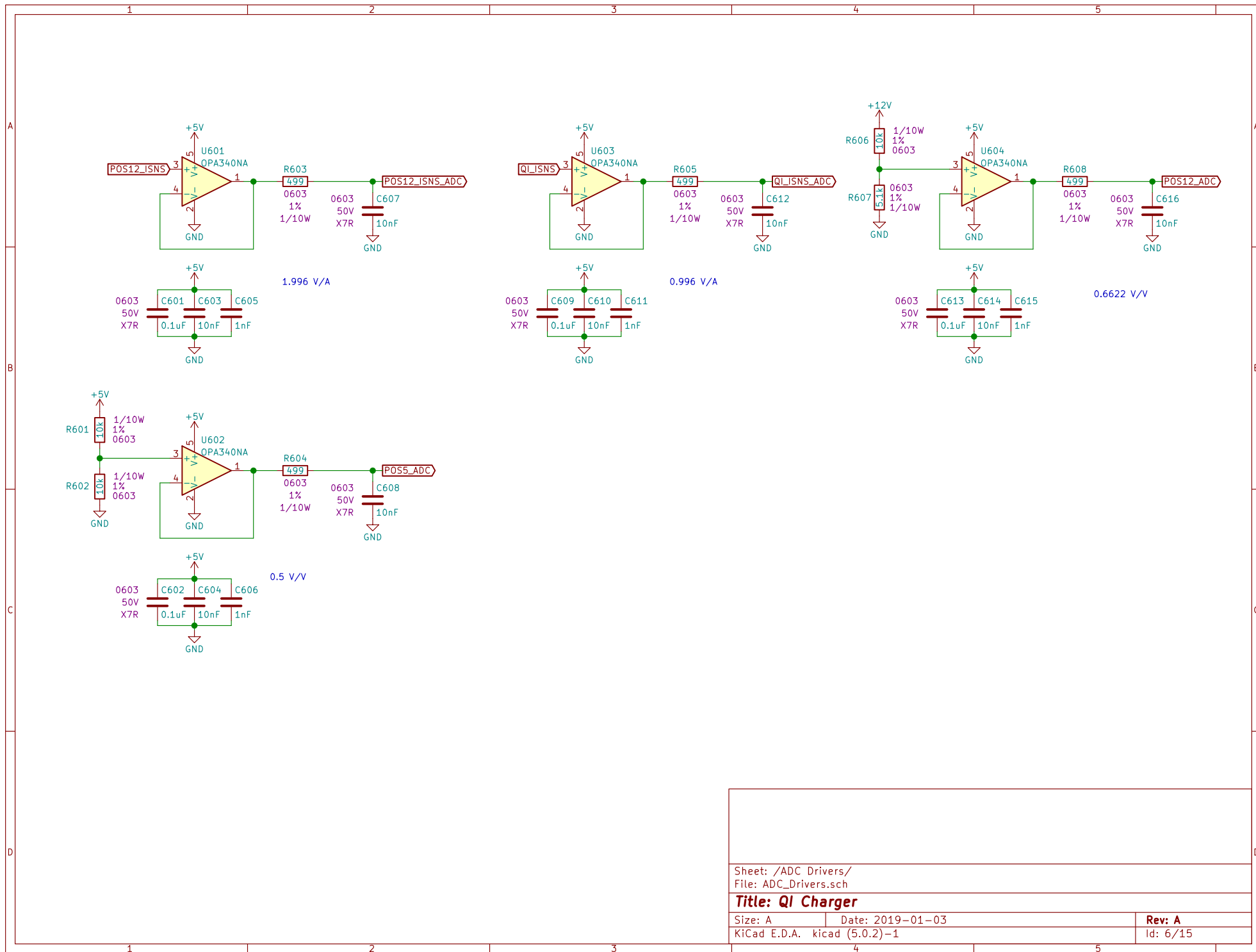
Sheet: /POS12 Input/ File: POS12_Input.sch	
Title: Qi Charger	
Size: A	Date: 2019-01-03
KiCad E.D.A. kicad (5.0.2)-1	Rev: A Id: 2/15

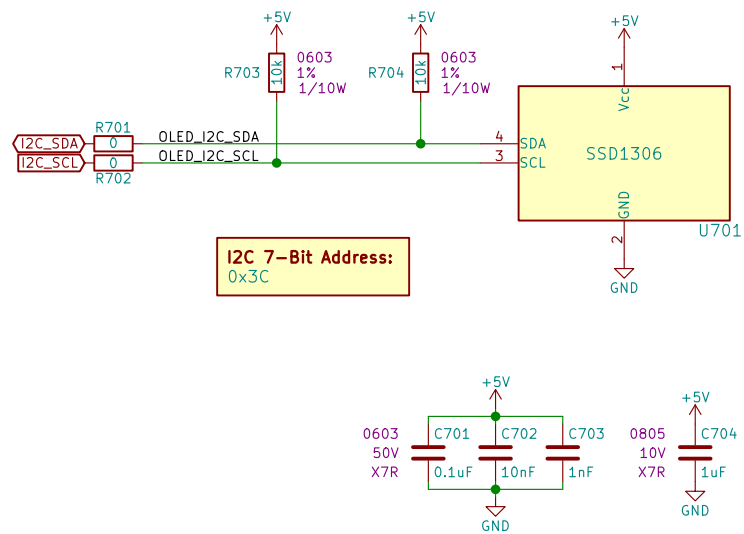


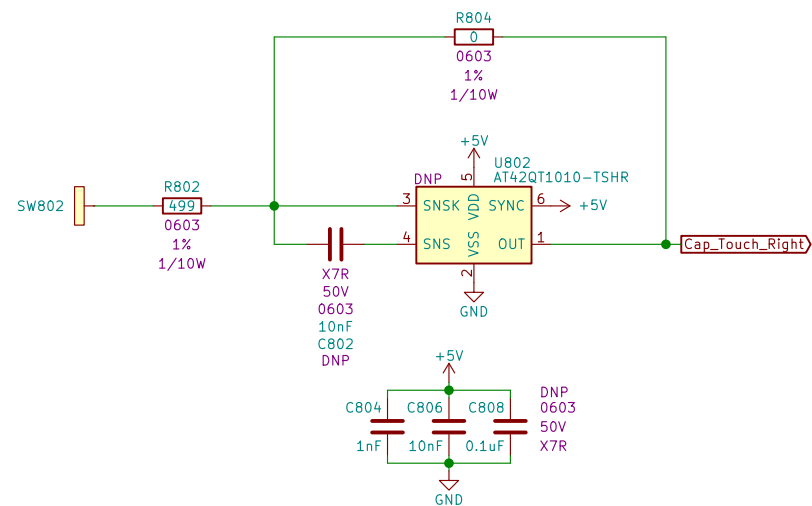
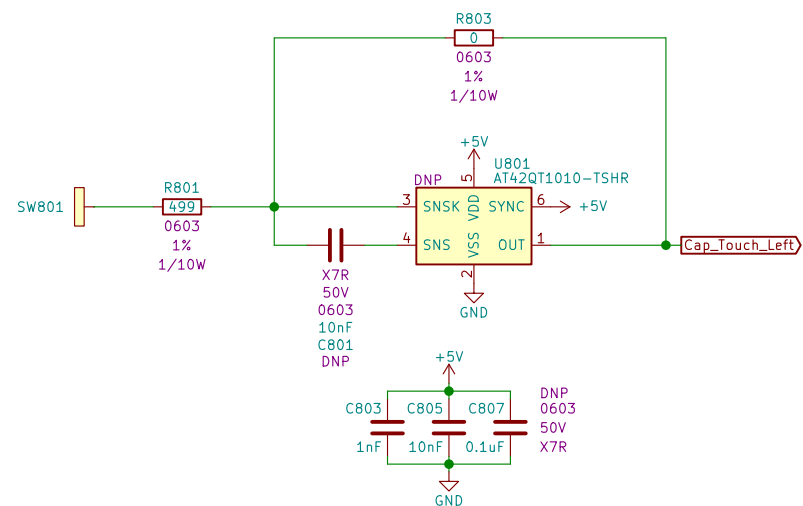
Rev: A
Id: 4/15



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





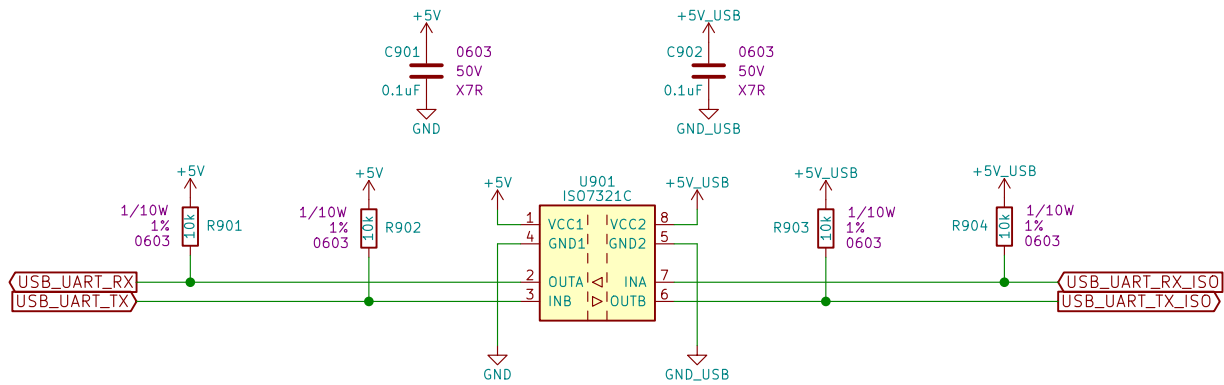


Sheet: /Capacitive Touch Sensors/
File: Capacitive_Touch_Sensors.sch

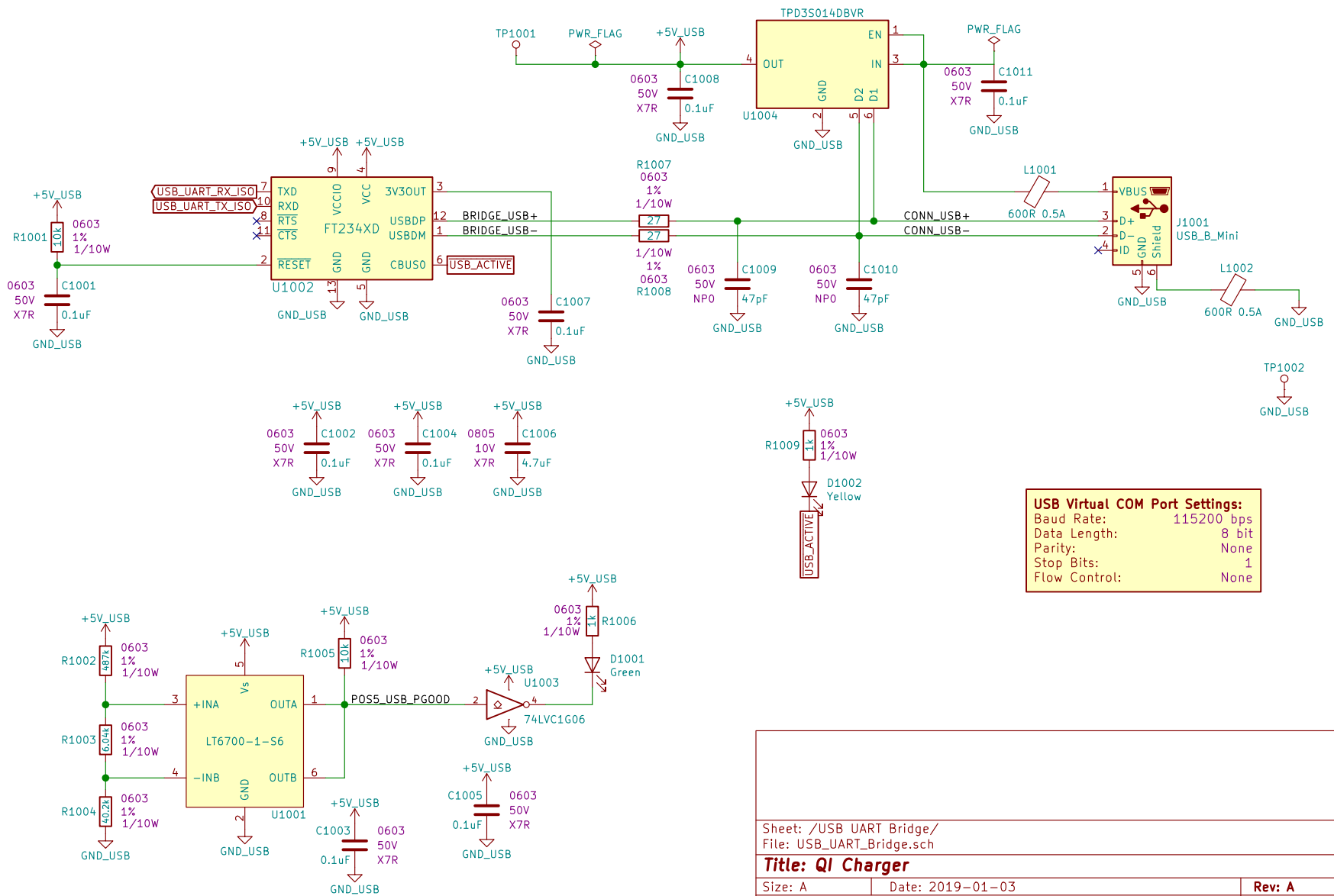
Title: **QI Charger**

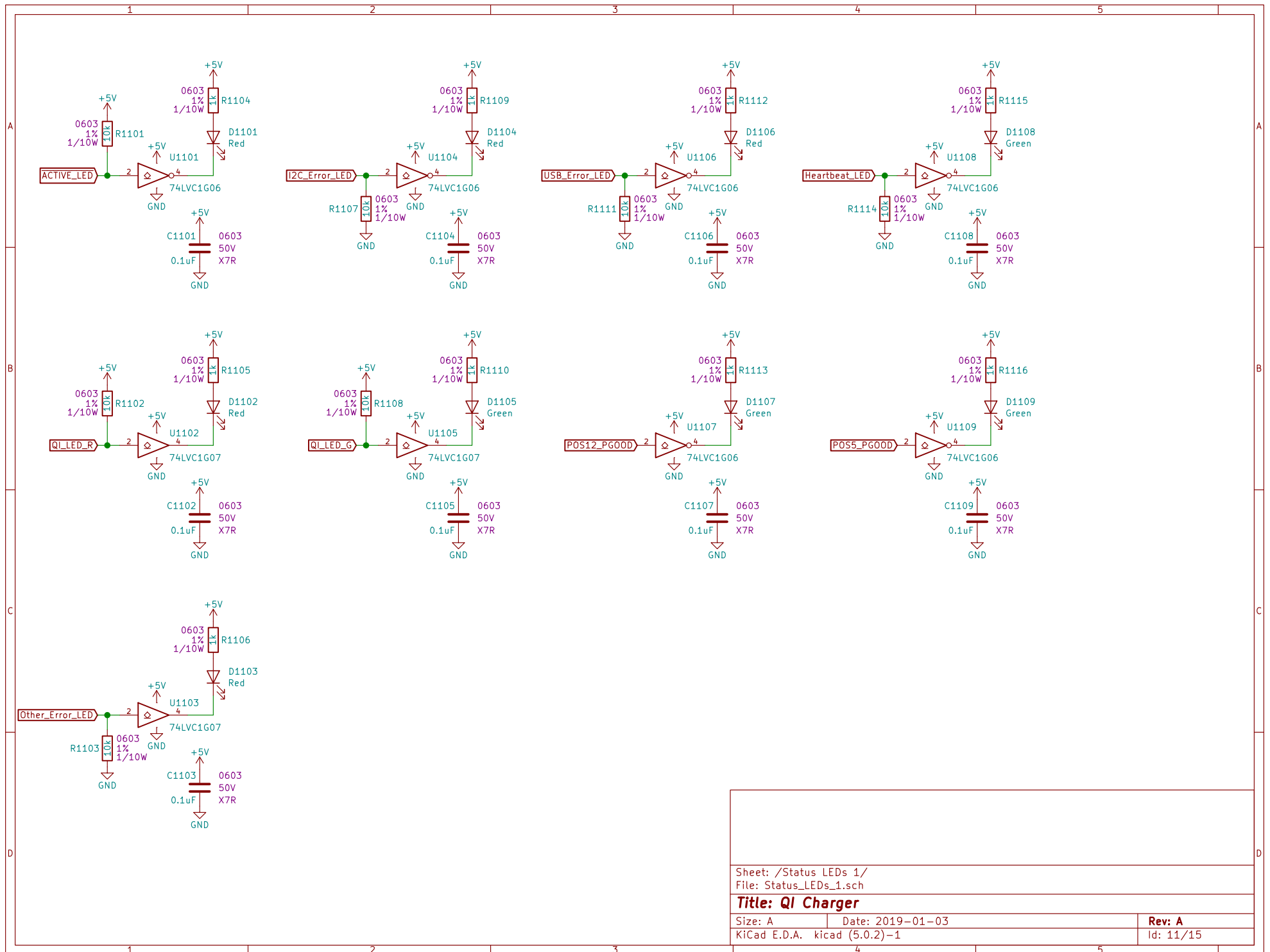
Size: A Date: 2019-01-03
KiCad E.D.A. kicad (5.0.2)-1

Rev: **A**
Id: 8/15

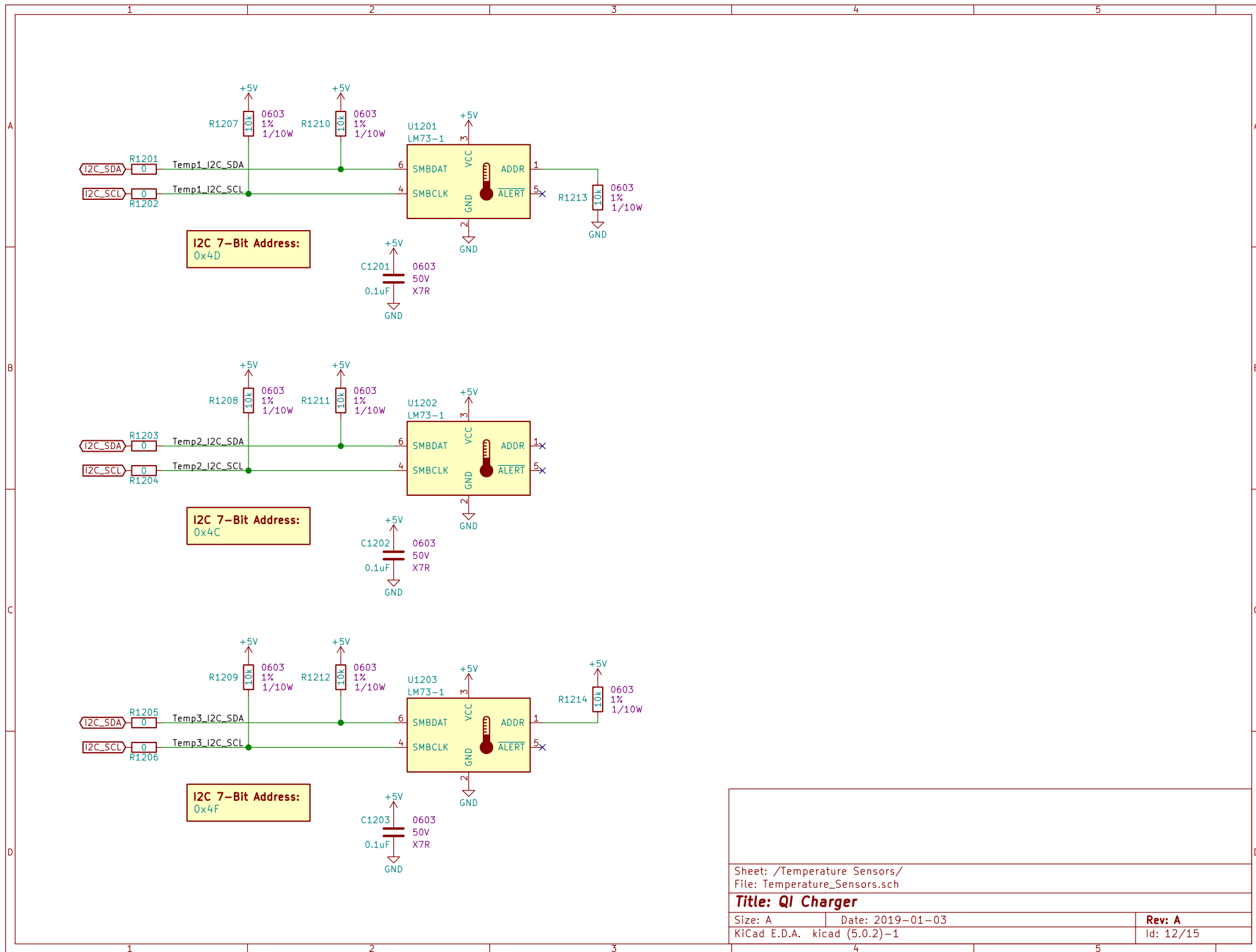


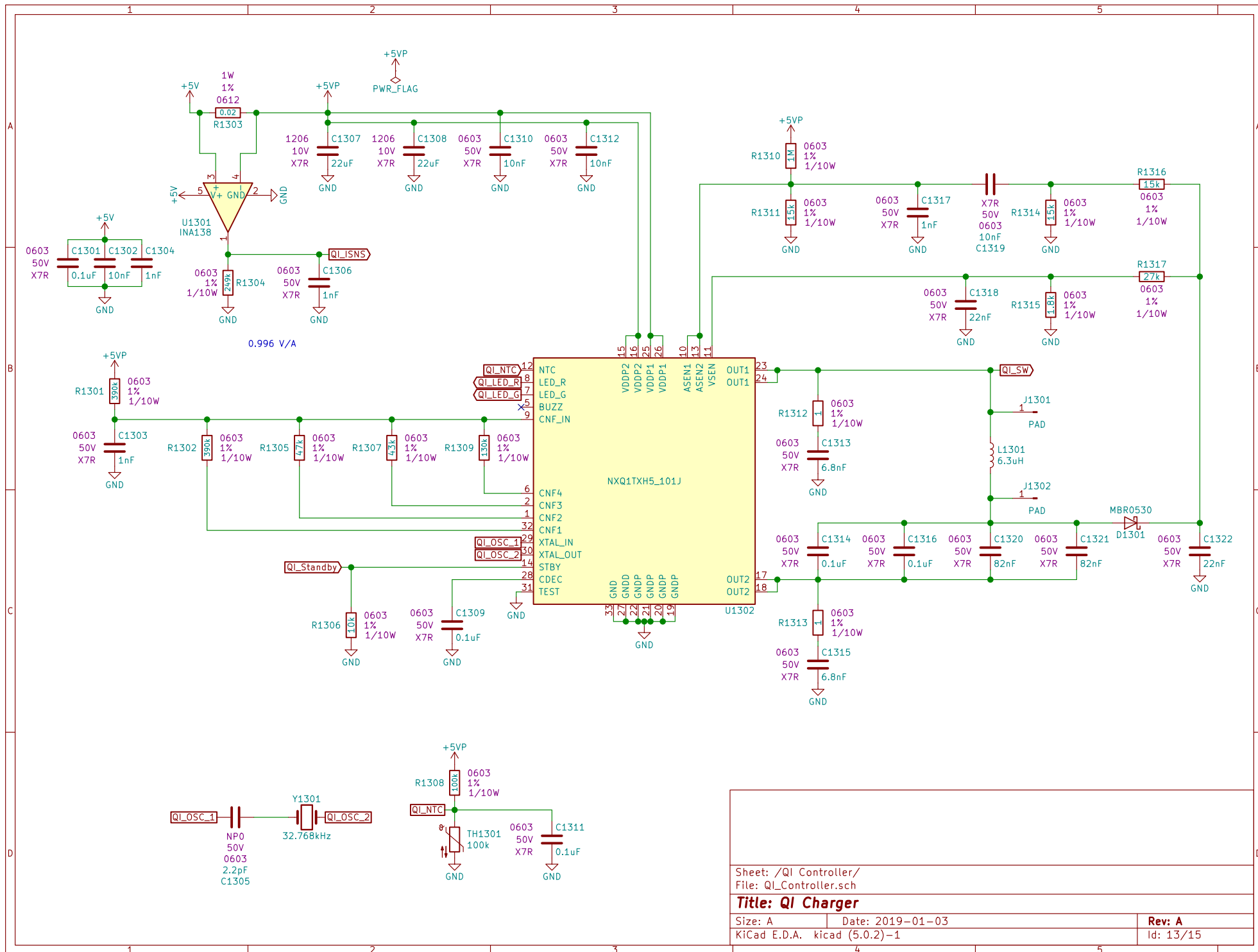
Sheet: /USB UART Isolation/ File: USB_UART_Isolation.sch	
Title: QI Charger	
Size: A	Date: 2019-01-03
KiCad E.D.A. kicad (5.0.2)-1	Rev: A
Id: 9/15	

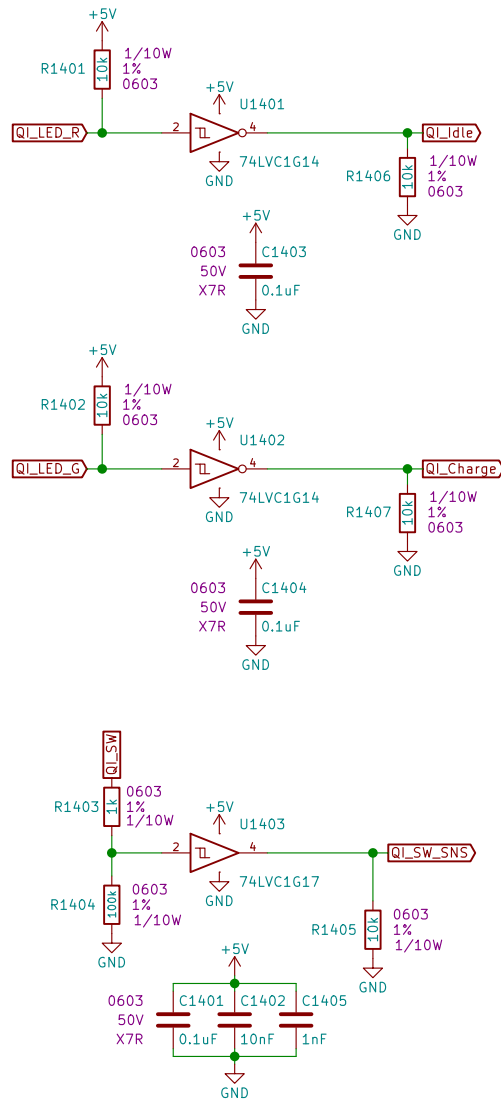




Sheet: /Status LEDs 1/ File: Status_LEDs_1.sch	
Title: Qi Charger	
Size: A	Date: 2019-01-03
KiCad E.D.A. kicad (5.0.2)-1	Rev: A Id: 11/15





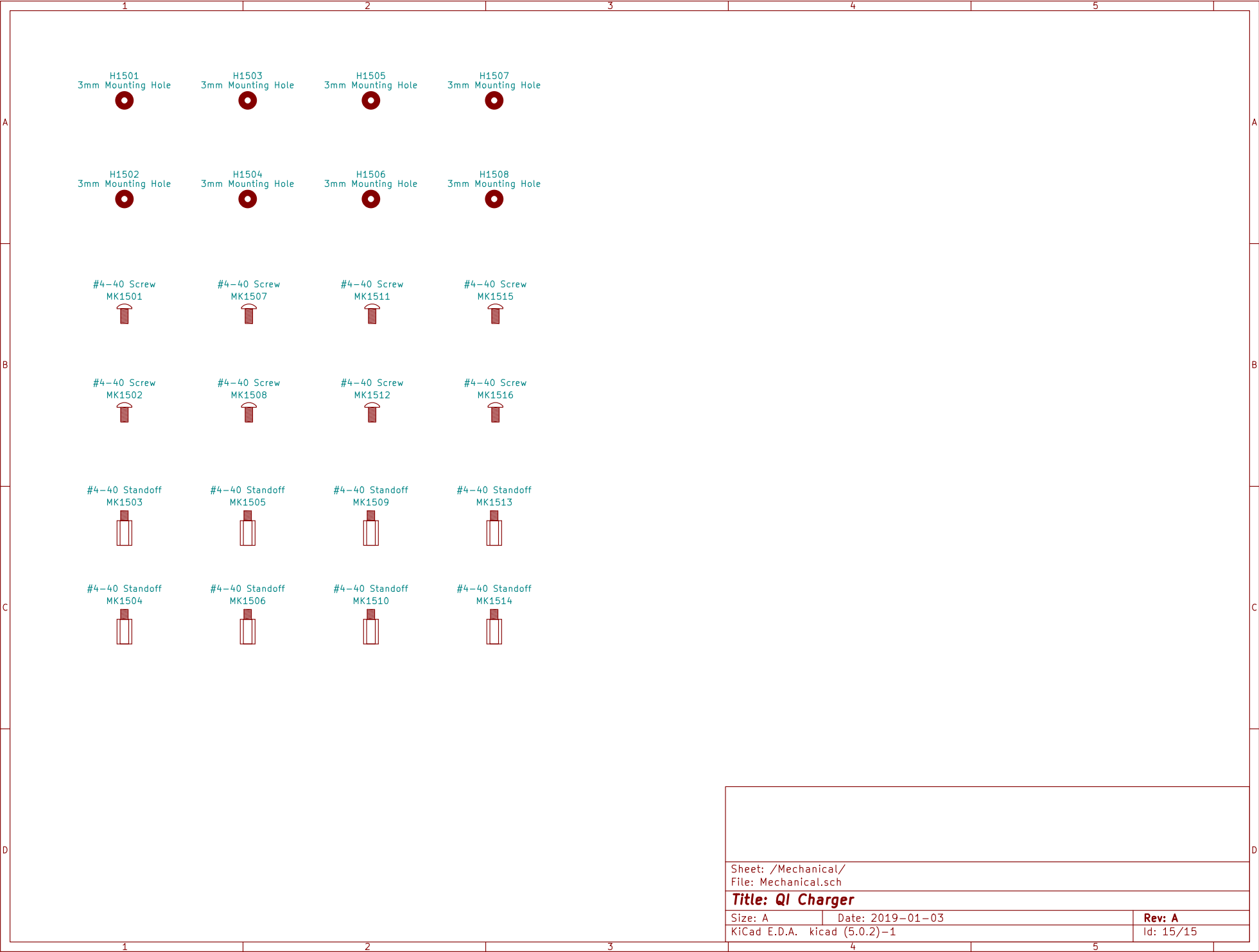


Sheet: /Qi Interface/
File: Qi_Interface.sch

Title: Qi Charger

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

Rev: A
Id: 14/15



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