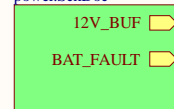
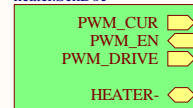


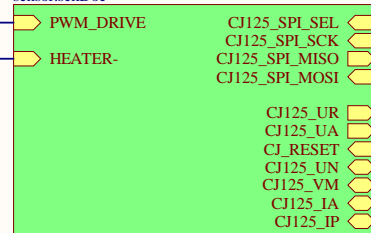
U_power
power.SchDoc



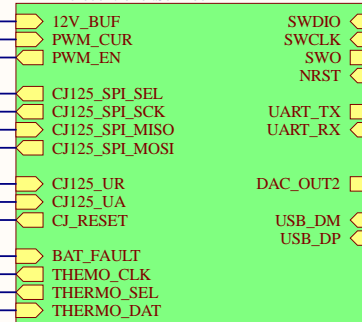
U_heater
heater.SchDoc



U_cj125
sensor.schDoc



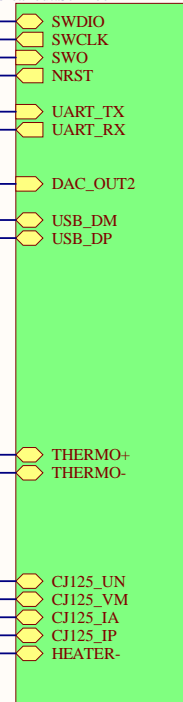
U_microcontroller
microcontroller.SchDoc



U_thermocouple
thermocouple.SchDoc

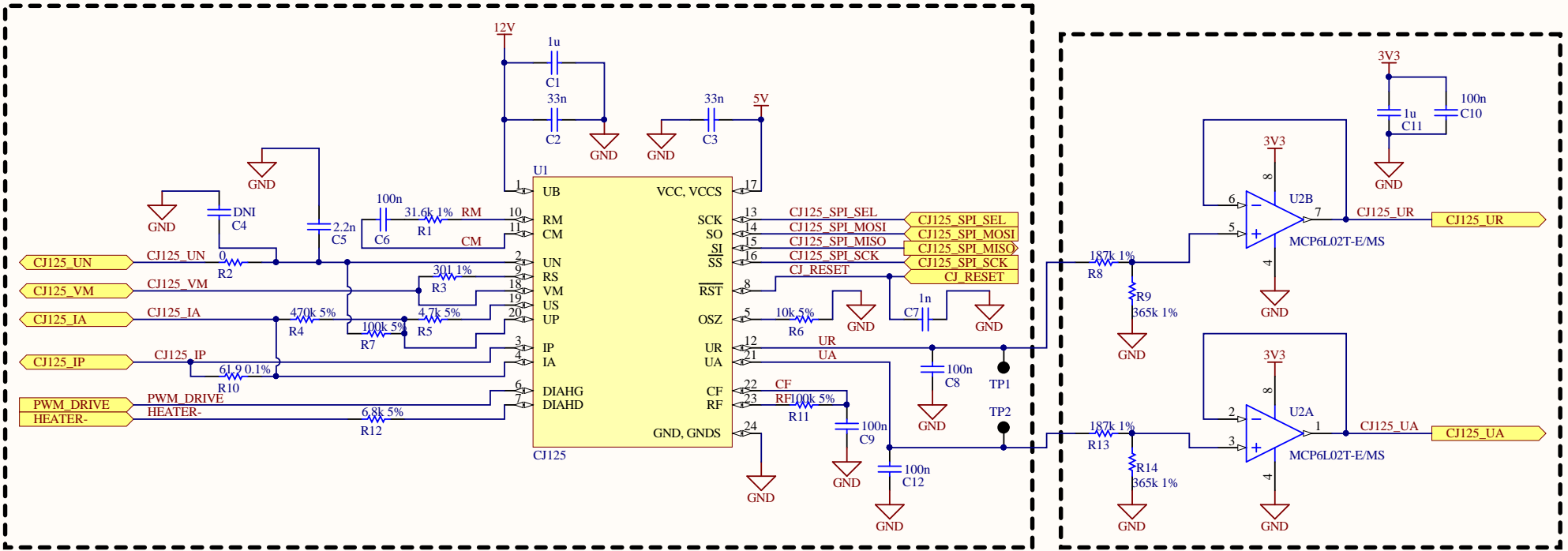


U_breakout
breakout.SchDoc



Note:
All capacitors are rated for 50V unless otherwise noted.
All resistors are rated for 1/10W unless otherwise noted.

| | | | |
|---|------------------|--------------|------------------|
| Title: Top | | | |
| Project: Lambda Oxygen Sensor Interface | | | |
| Date: 11/21/2018 | Time: 2:46:16 PM | Sheet 1 of 7 | File: cjb.SchDoc |



| | | | |
|---|------------------|--------------|---------------------|
| Title: Sensor Controller | | | |
| Project: Lambda Oxygen Sensor Interface | | | |
| Date: 11/21/2018 | Time: 2:46:16 PM | Sheet 2 of 7 | File: sensor.schDoc |

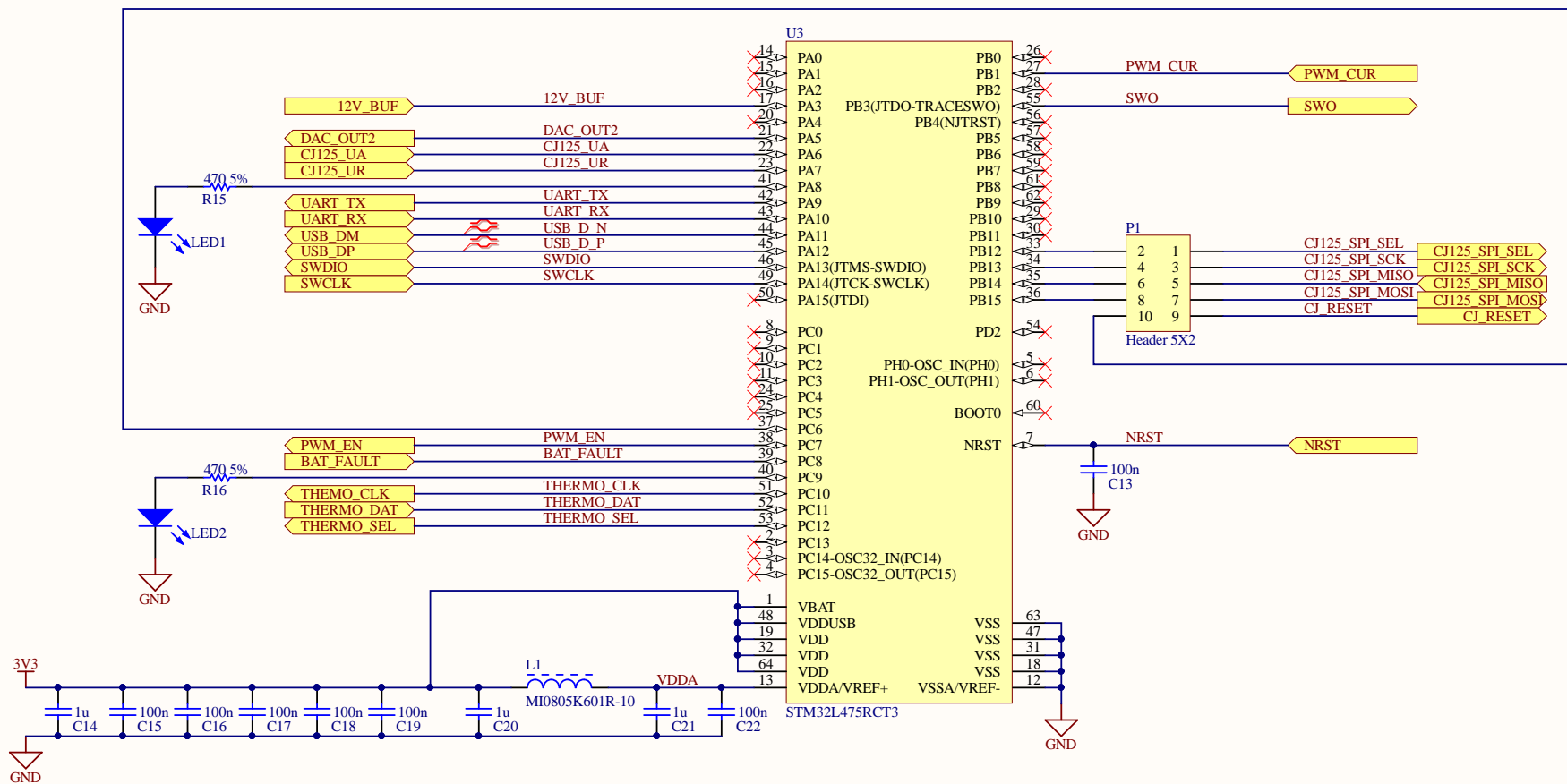
DAC output impedance 9.6kOhm to 13.8kOhm

Max ADC external input impedance is 50kOhm

USART is internally pulled up

SPI is internally pulled down

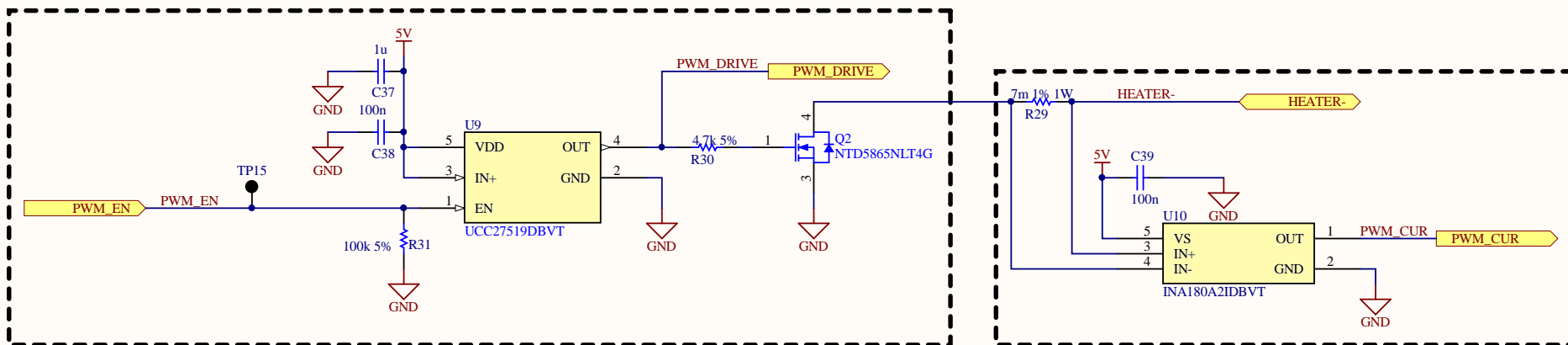
BAT_FAULT is internally pulled up



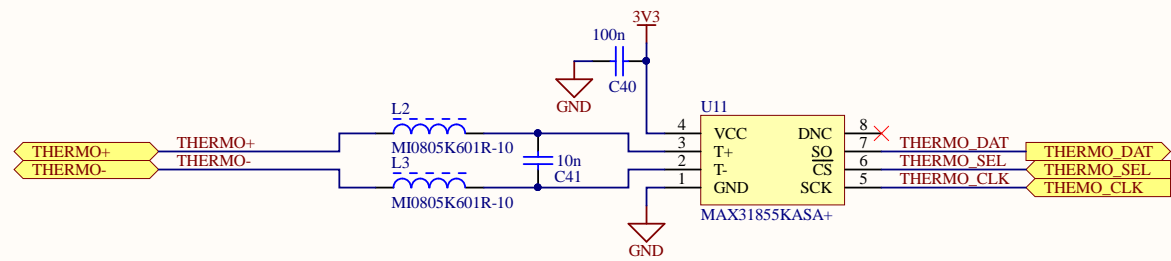
Title: Microcontroller

Project: Lambda Oxygen Sensor Interface

Date: 11/21/2018 Time: 2:46:16 PM Sheet 3 of 7 File: microcontroller.SchDoc



| | | | | | |
|---|------------------|---------|------|---------------------|--|
| Title: Sensor Heater Control | | | | | |
| Project: Lambda Oxygen Sensor Interface | | | | | |
| Date: 11/21/2018 | Time: 2:46:17 PM | Sheet 5 | of 7 | File: heater.SchDoc | |



| | | | | |
|---|------------------|--------------|---------------------------|--|
| Title: Thermocouple Interface | | | | |
| Project: Lambda Oxygen Sensor Interface | | | | |
| Date: 11/21/2018 | Time: 2:46:17 PM | Sheet 6 of 7 | File: thermocouple.SchDoc | |

