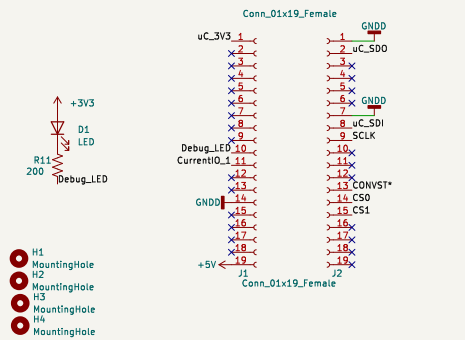
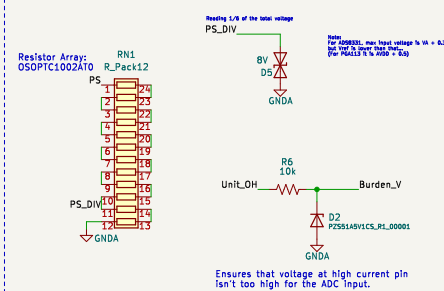


Microcontroller

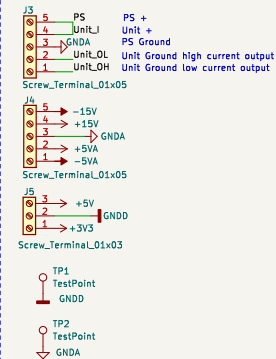
Using the ESP32-DevKitC V4



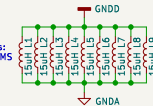
Voltage Measurement Input Circuitry



Power

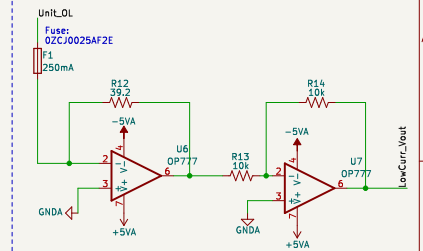


Filtering Inductors:
SDET32251E-150MS



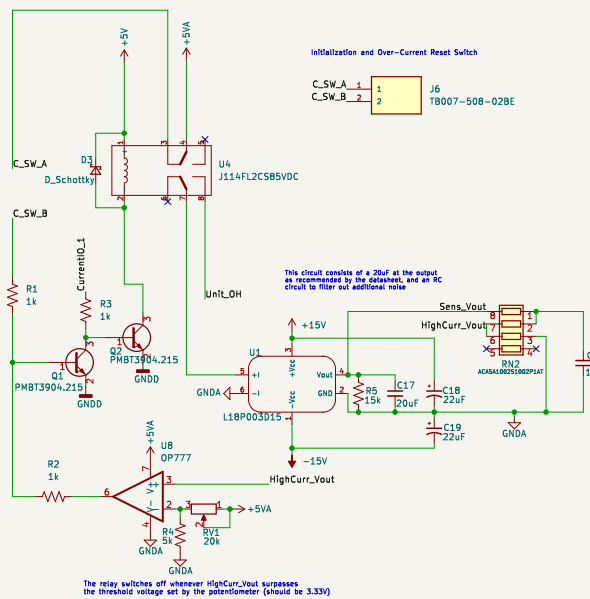
0-20mA Current Measurement Circuit

This is a feedback ammeter which is a current measurement circuit with a very high sensitivity.
This circuit is based off of:
<https://knowledge.ni.com/KnowledgeArticleDetails?id=kA03q00000x1AZCAY&i=en-GB> &
<https://www.youtube.com/watch?v=YTB1hZA4B20>

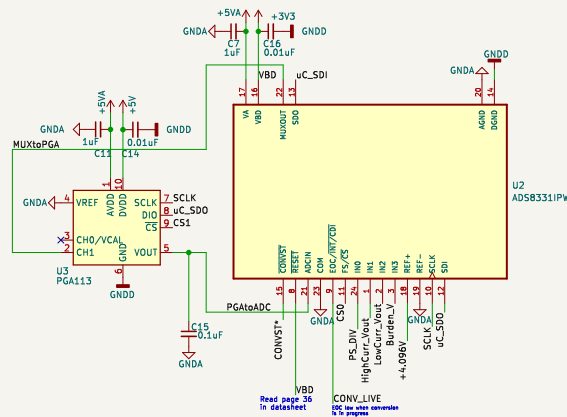


0-7.5A Current Measurement Circuit

Inspired by: <https://www.youtube.com/watch?v=7ctPSgaLxbc>

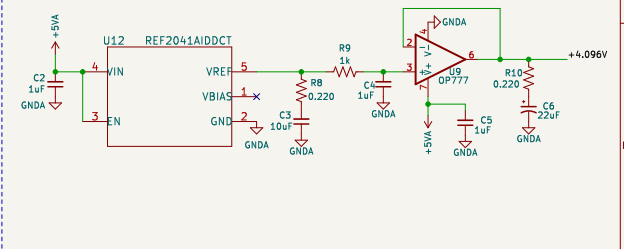


Analog to Digital Converter + Programmable Gain Amplifier



Reference Voltage

Reference Driver circuit as recommended
by the datasheet ADS8331 (pg. 37)



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