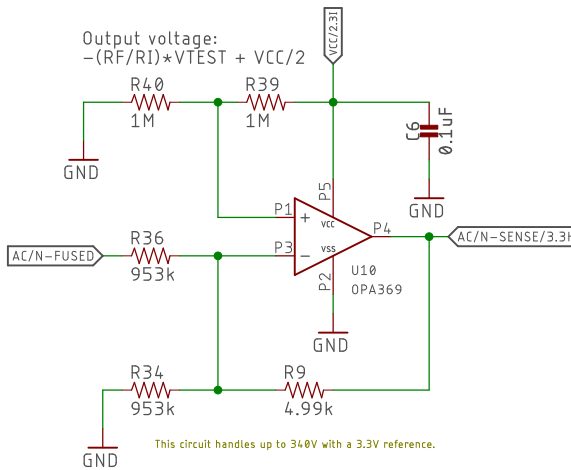
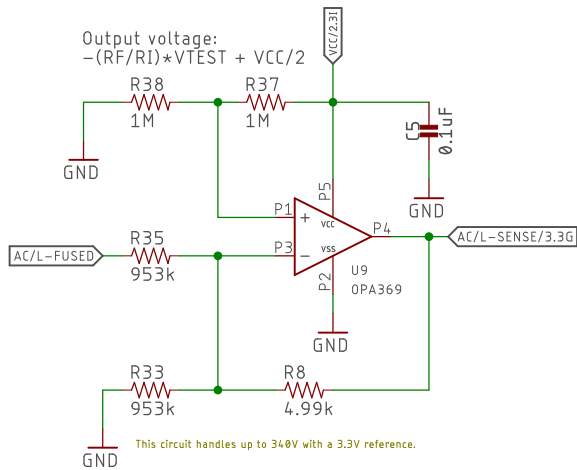
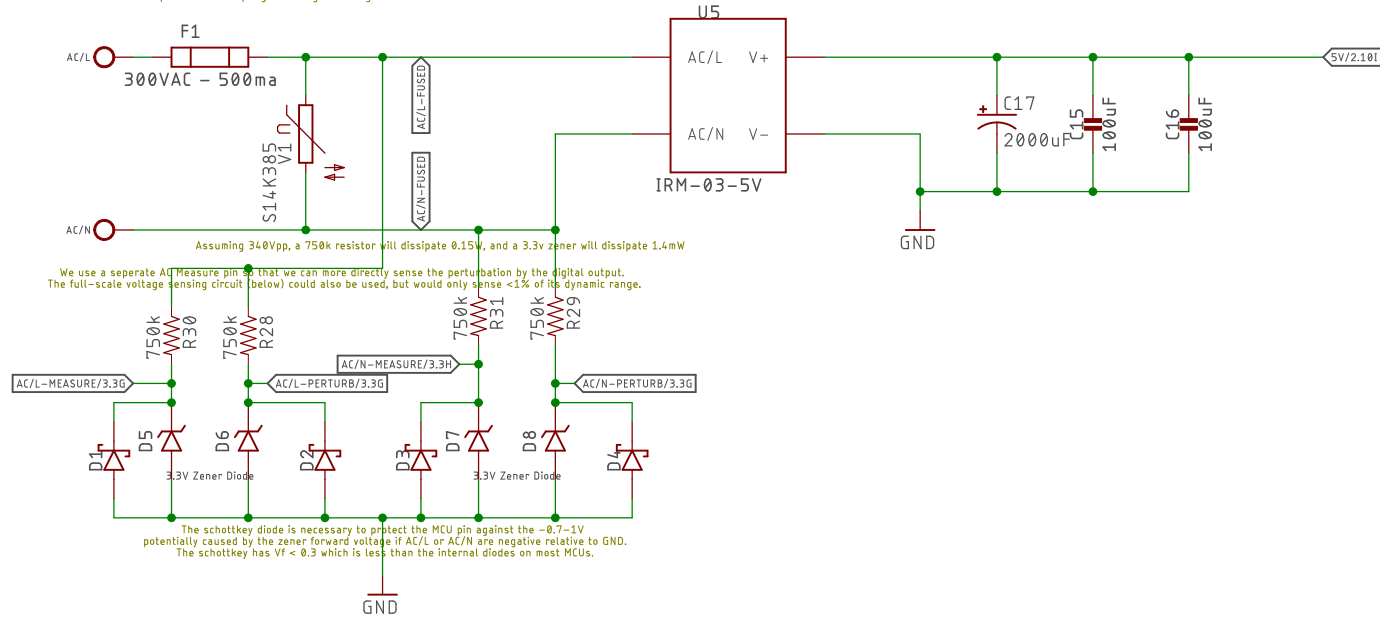
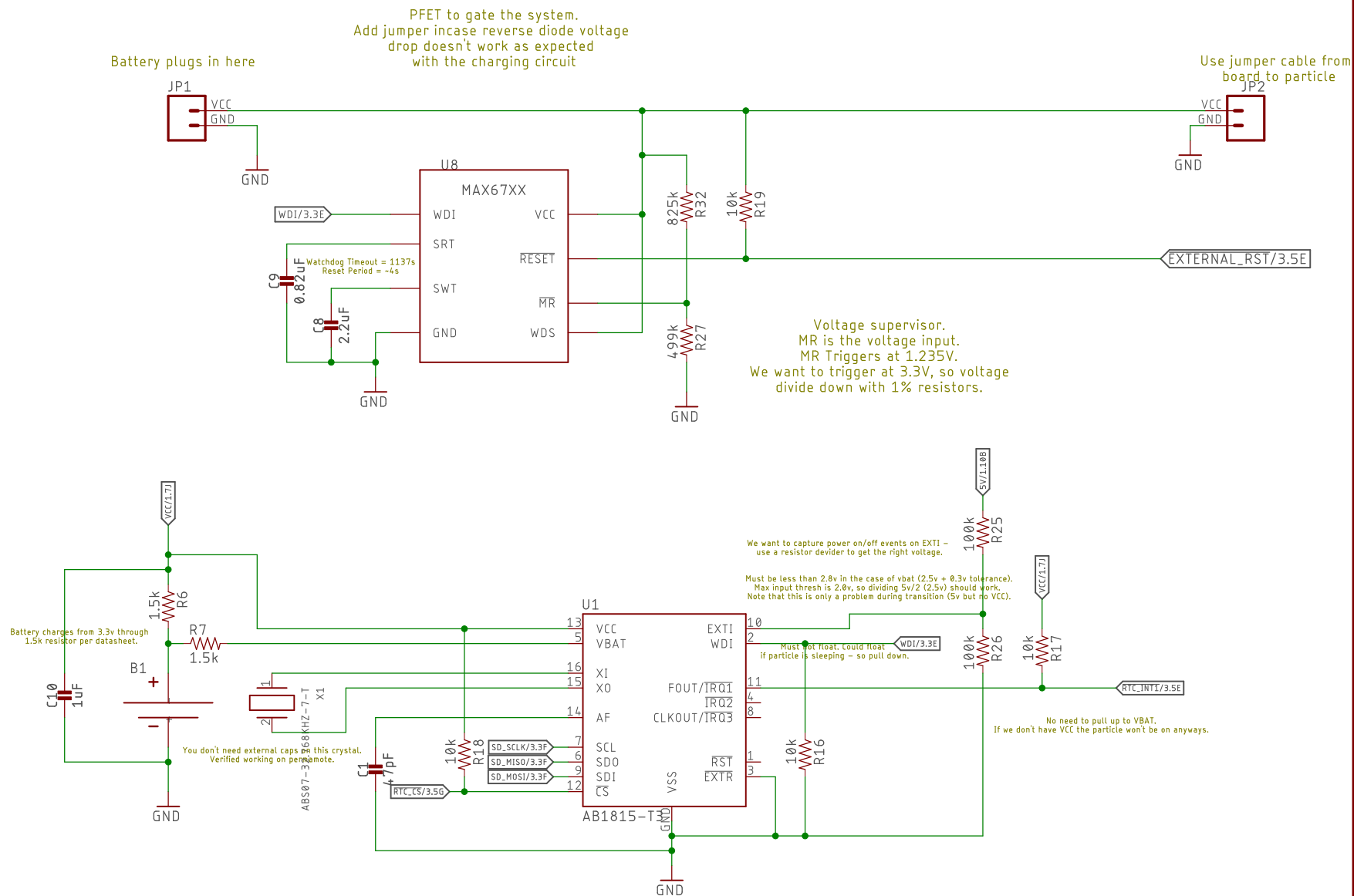


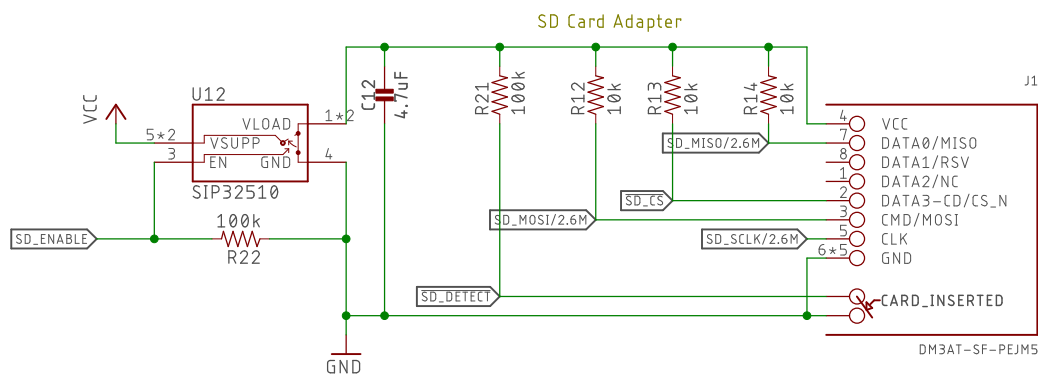
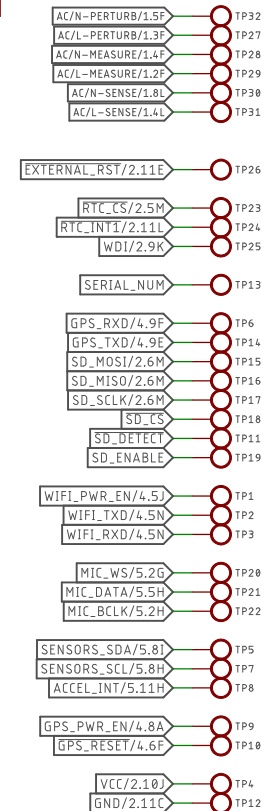
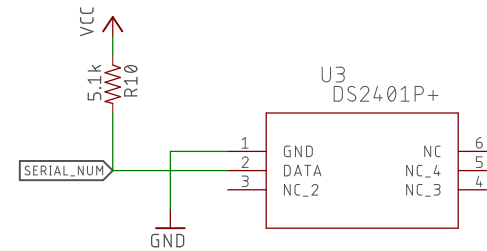
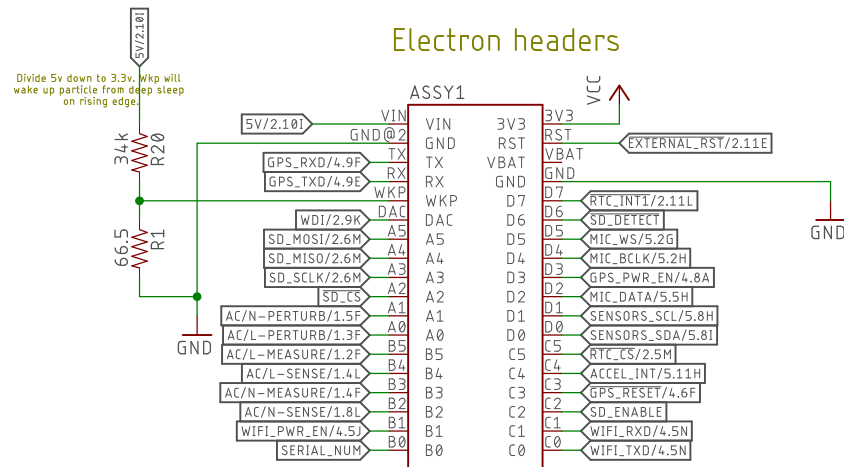
The peak power is $2A \times 600\mu S = -4.5mJ$. We are adding 8mJ of energy buffer to be safe. 8mJ of energy with a 5V to 4V swing is about 2mF

This will protect the sampling circuit against surges

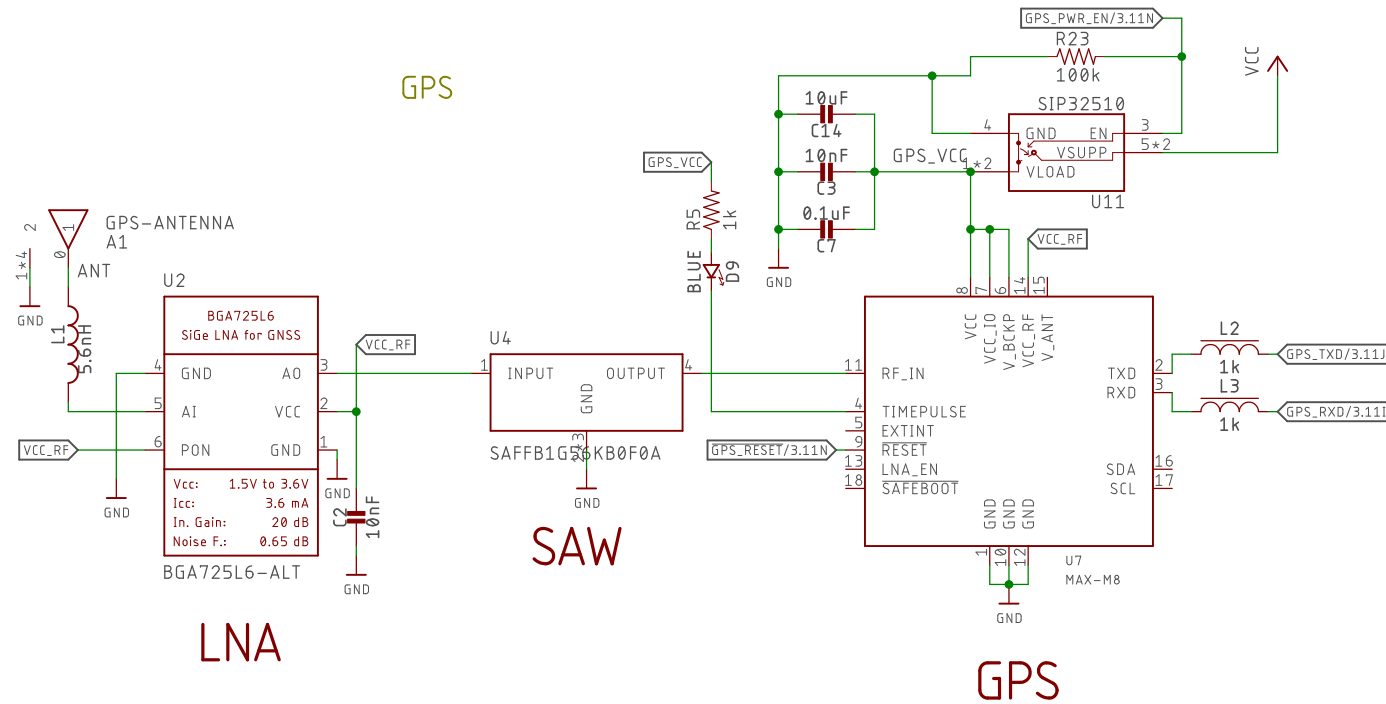




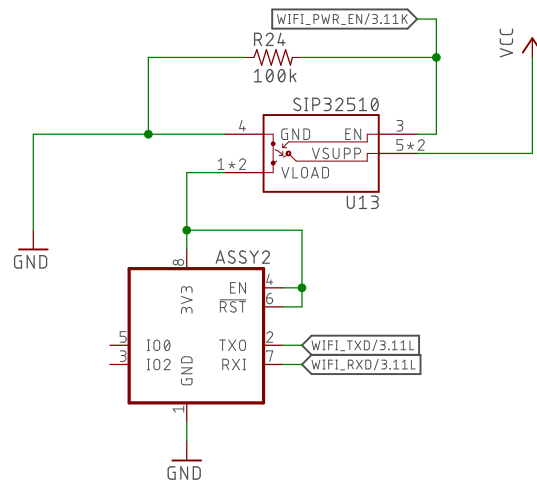
Headers



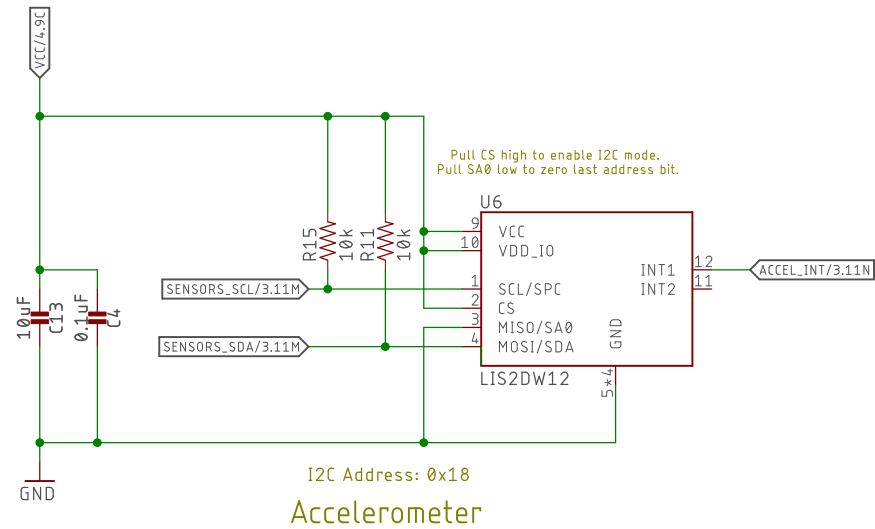
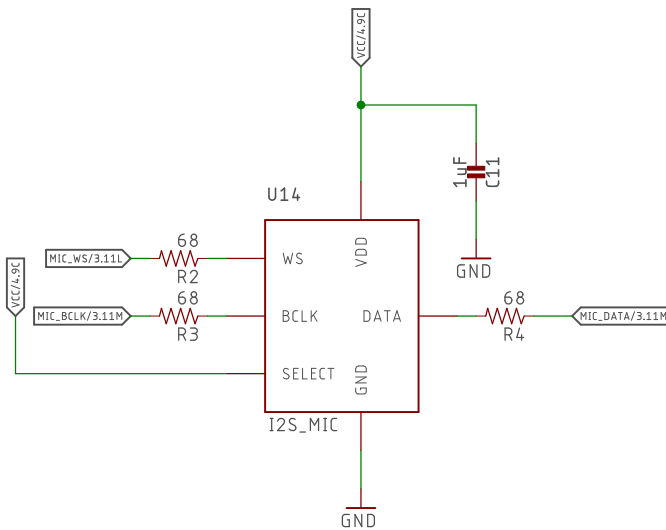
GPS and WiFi Radios



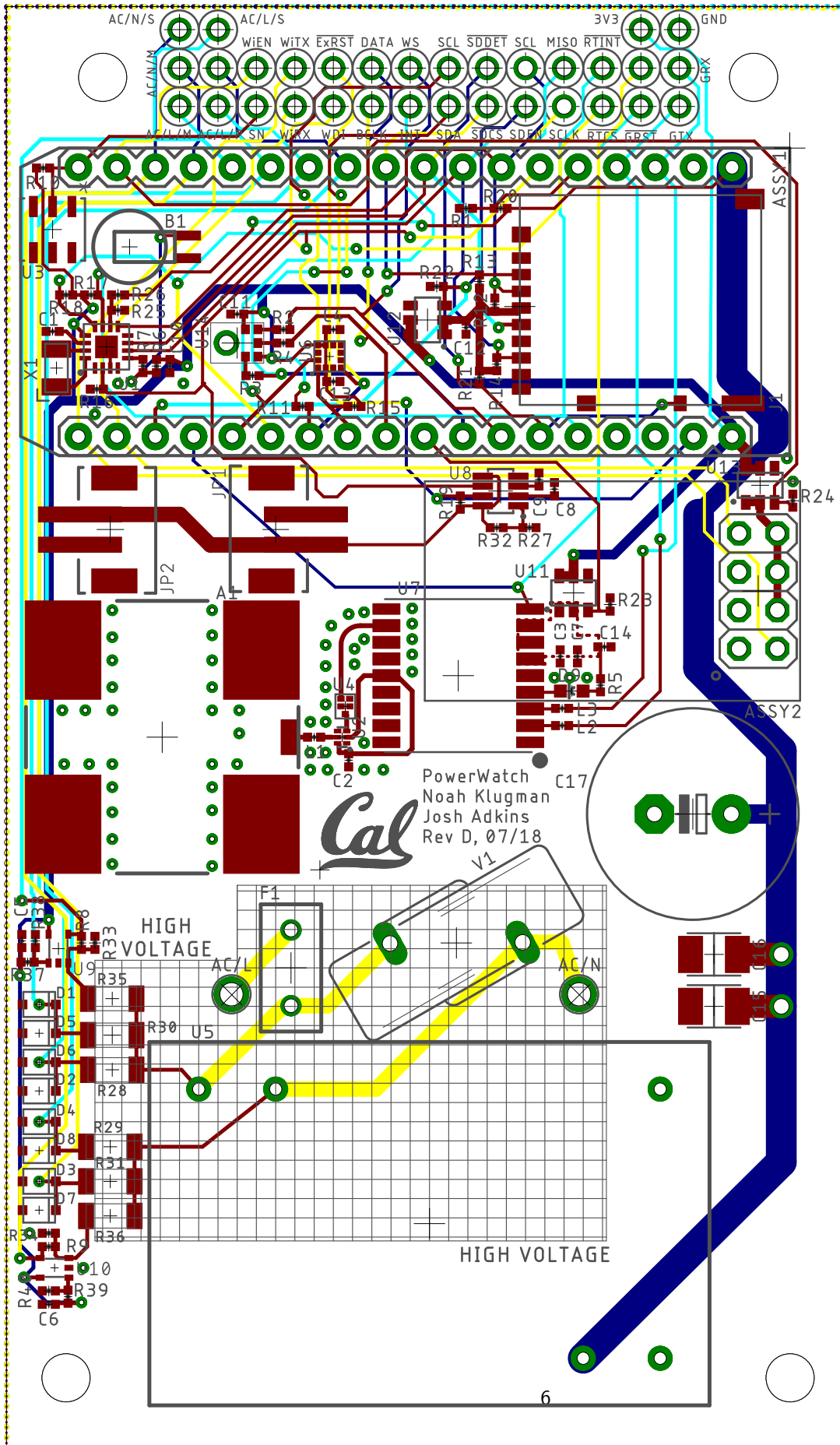
<https://cdn.sparkfun.com/datasheets/Wireless/WiFi/ESP8266ModuleV1.pdf>

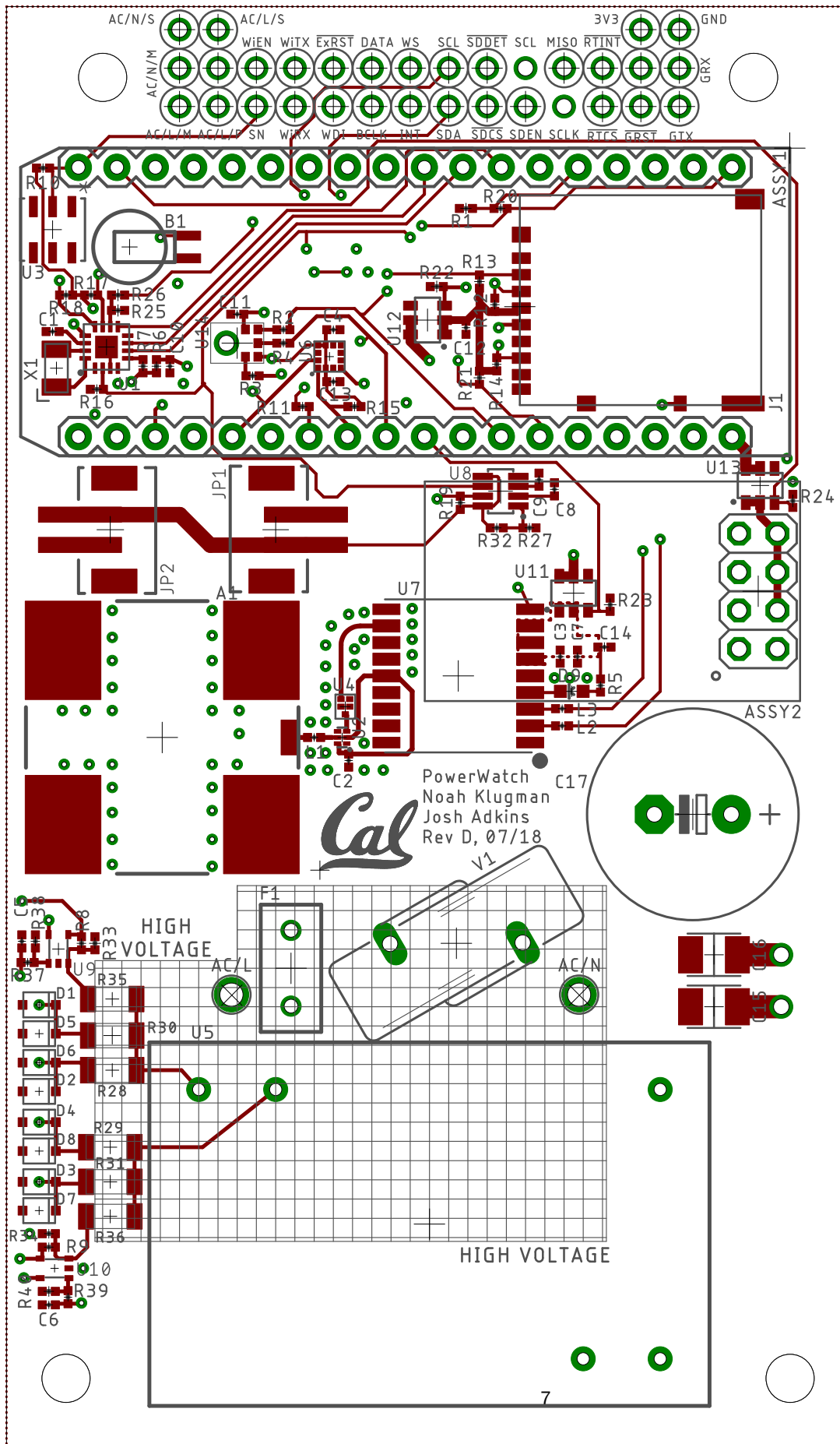


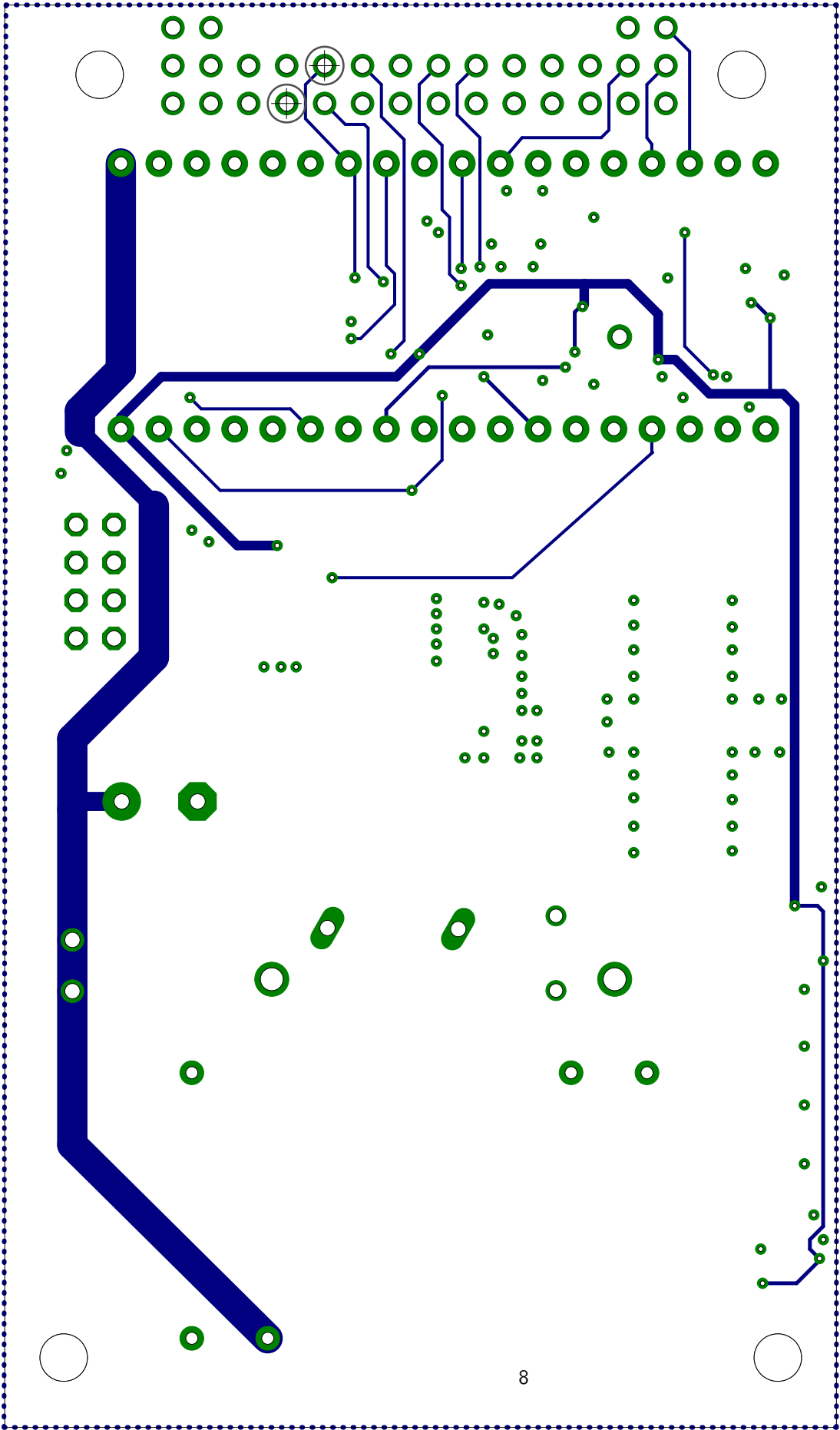
Sensors



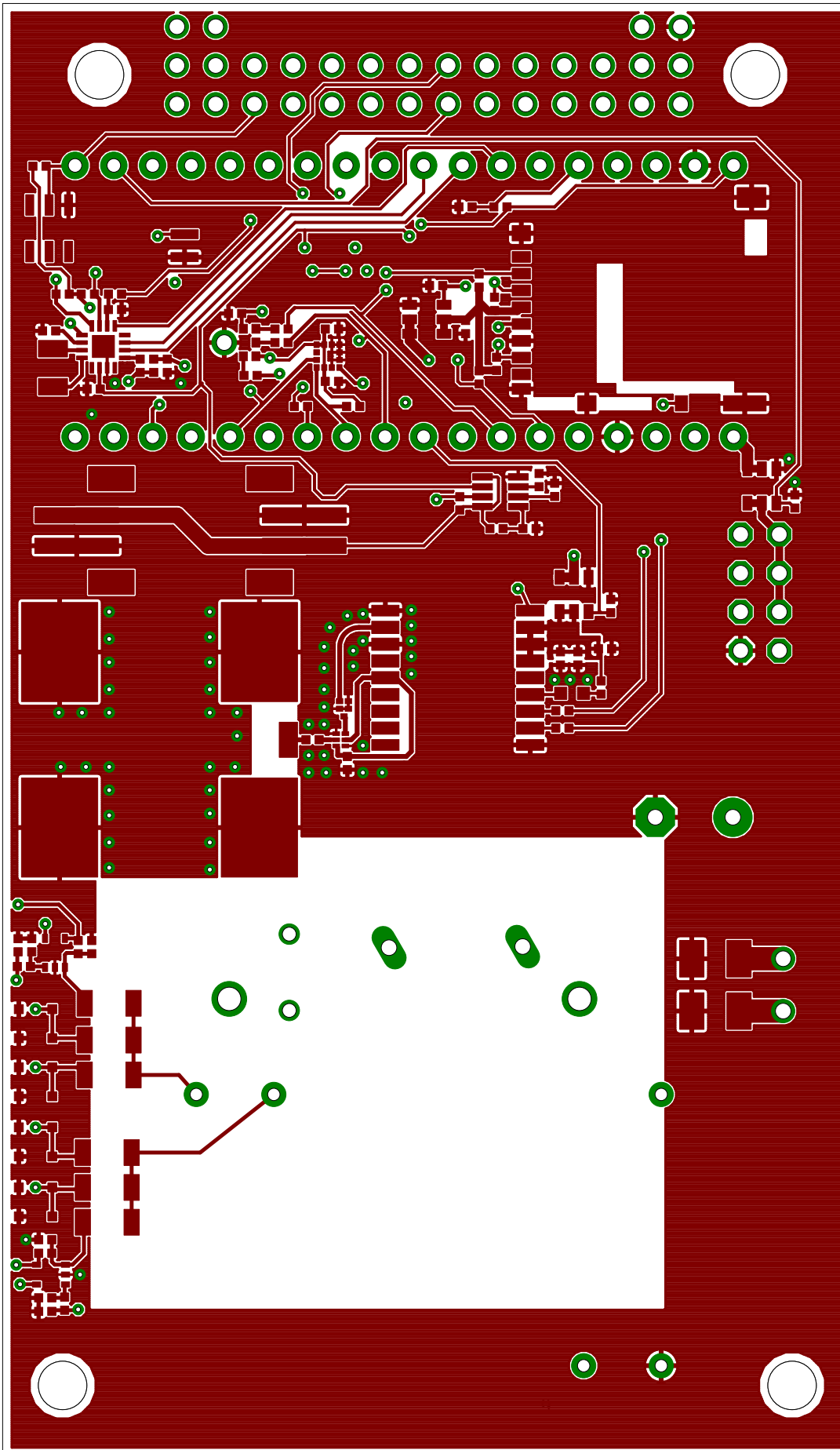
Top and Bottom Layers



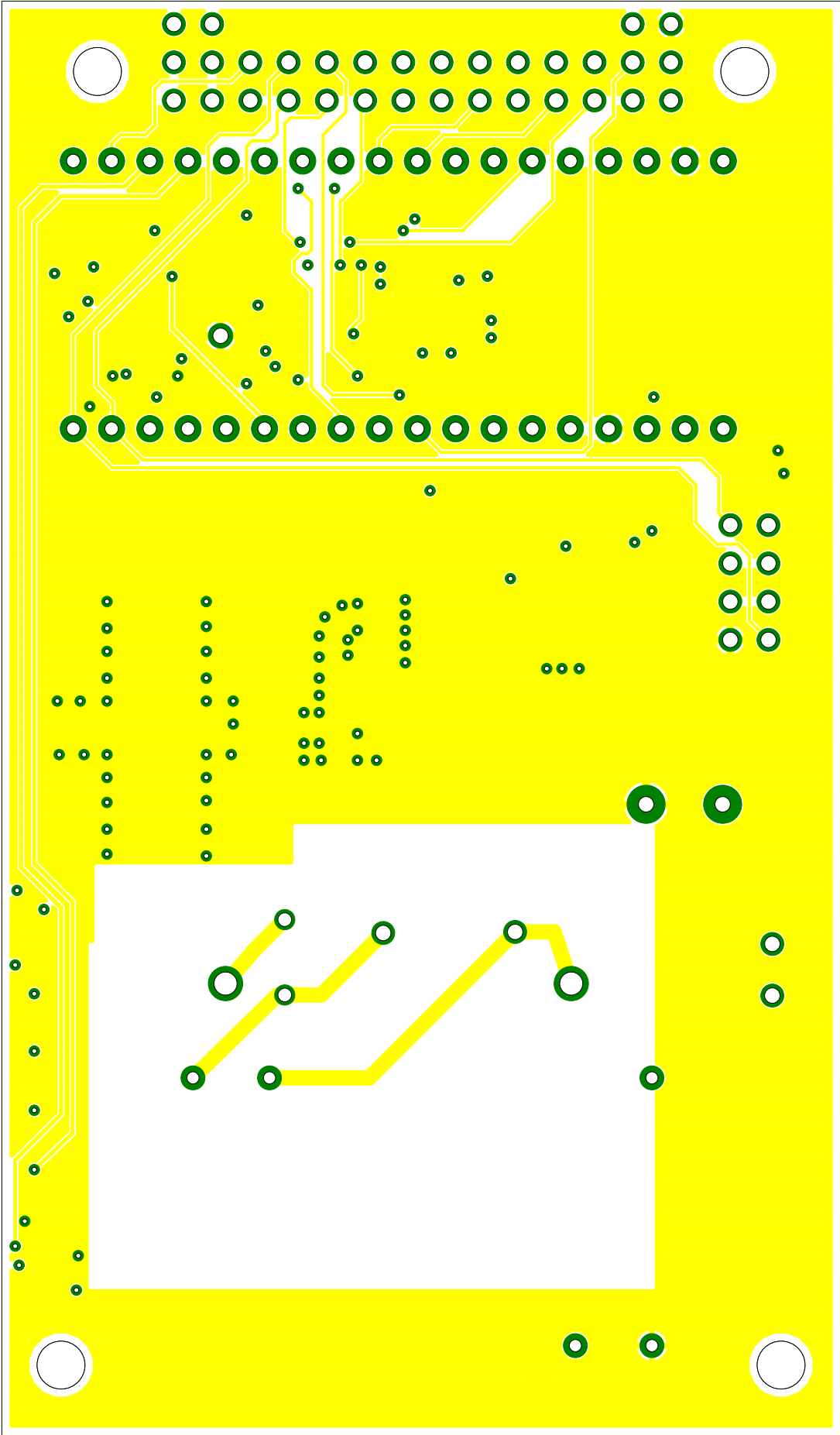


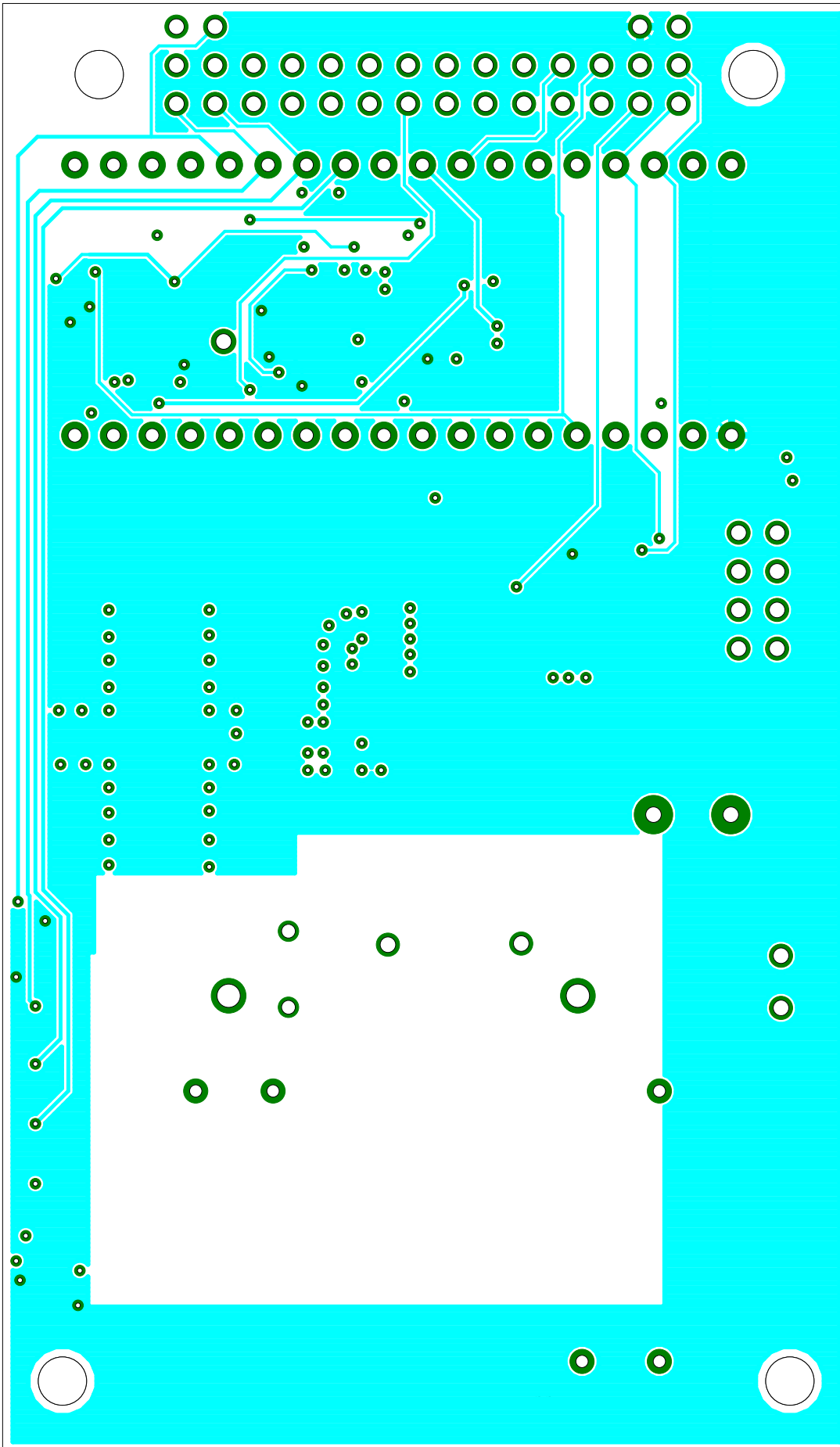


Top Copper Layer

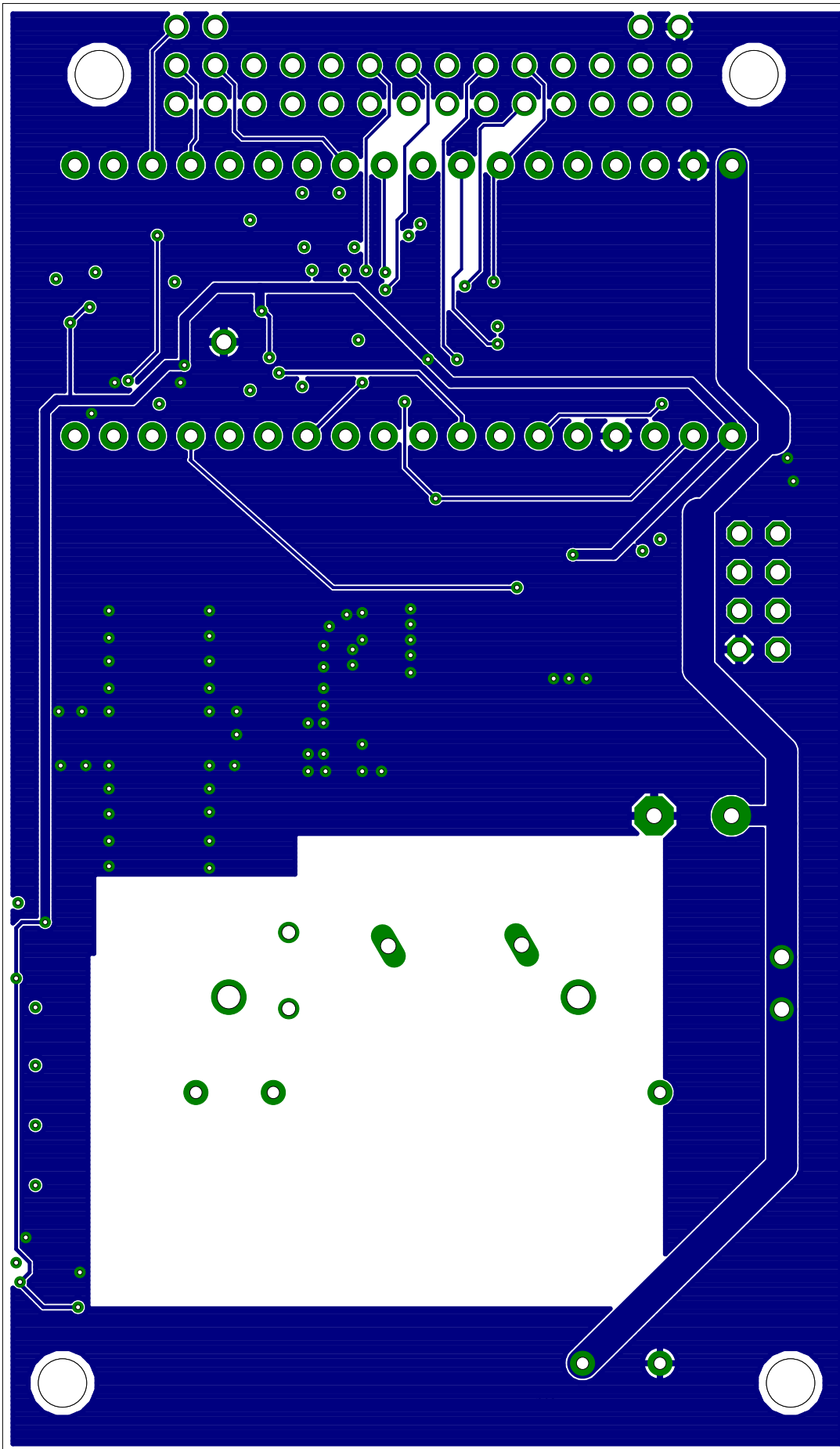


Layer 2 Copper

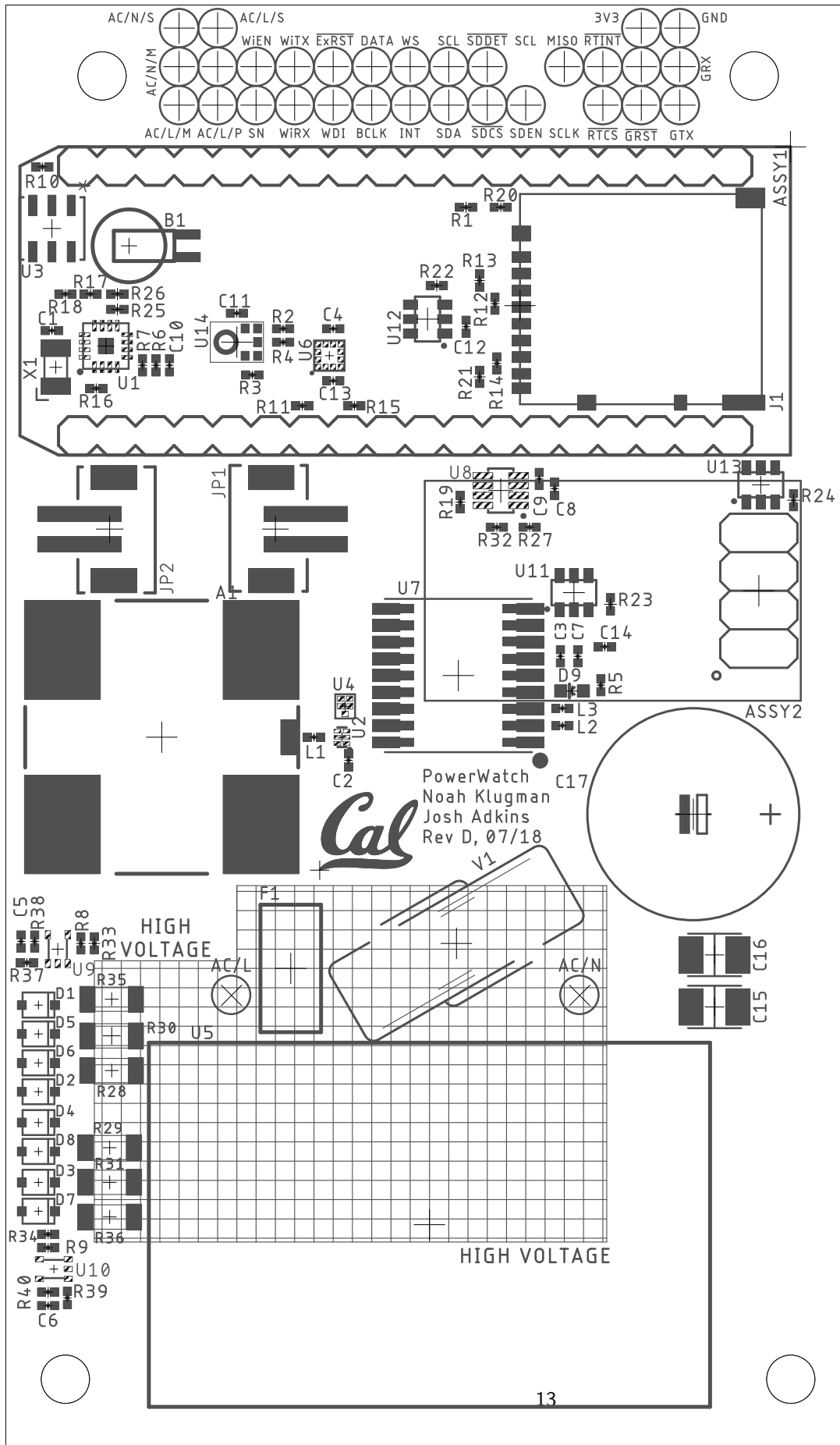




Bottom Copper Layer



Top Paste Layer with Silkscreen



Bottom Paste Layer with Silkscreen

