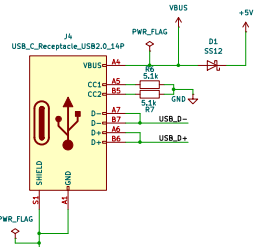
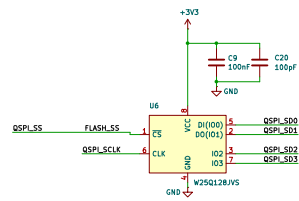


NOTE:
1. Use DRV8353R 102-V max 3-phase smart gate driver with buck regulator & current shunt amplifiers.
2. Use R3.1.1.1 & PWM Mode (PWM_MODE = 00b or MODE Pin Tied to AGND) (Page 30)
3. SimpleFOC for motor control algorithm
4. In-line current sensing

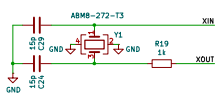
USB-C



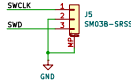
Flash



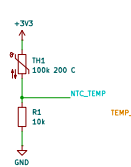
12MHz Crystal



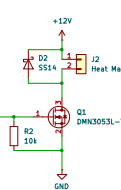
JST Debug Connector



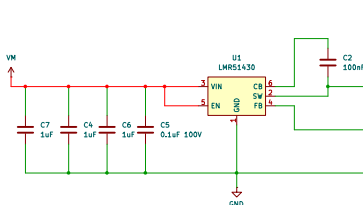
TEMPERATURE MONITOR



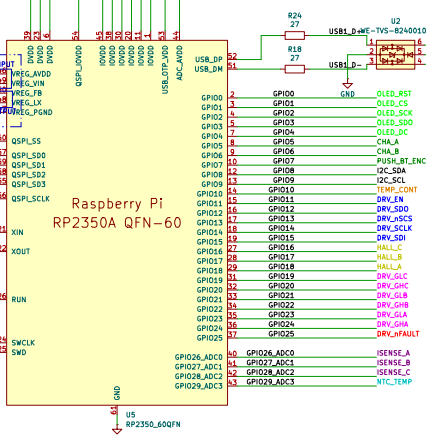
HEATER MAT CONTROL



HEATER PSU 12/1A

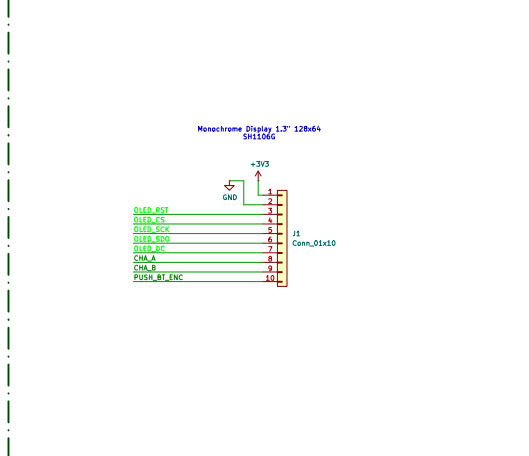


Raspberry Pi RP2350A QFN-60

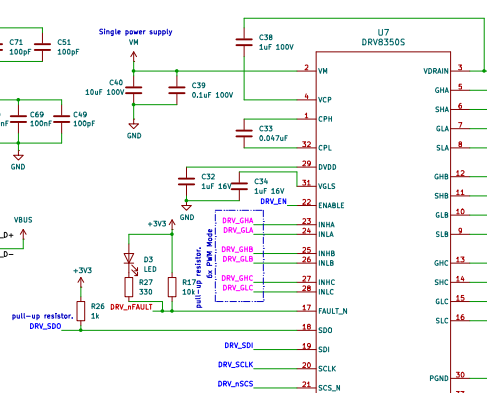


H1 MountingHole H2 MountingHole H3 MountingHole H4 MountingHole

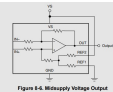
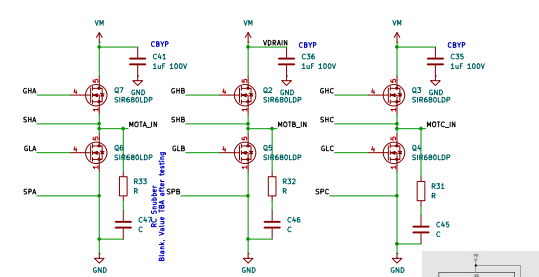
DAUGHTER BOARD



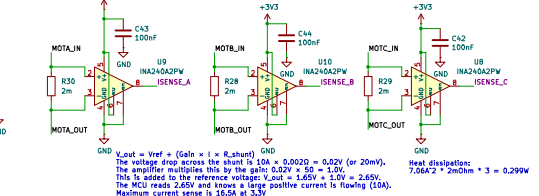
PRE-DRIVER (DRV8350S) with SPI



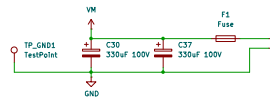
MOSFET GATE 80V/130A



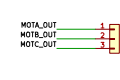
IN-LINE BI-DIRECTIONAL CURRENT SENSING



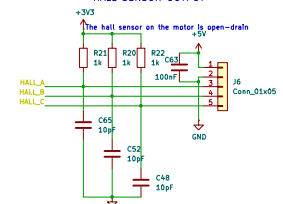
VOLTAGE MOTOR POWER IN



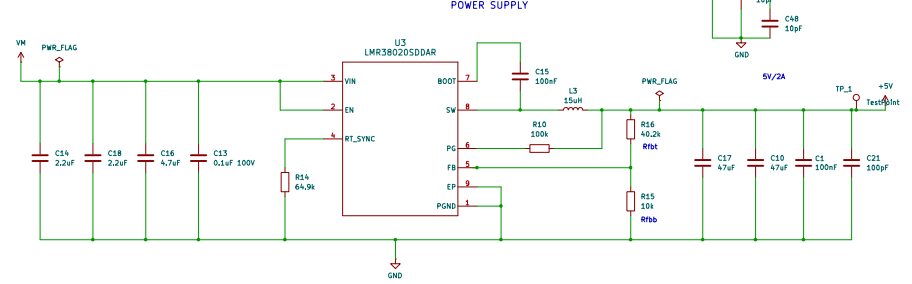
MOTOR OUTPUT



HALL SENSOR OUTPUT



5V/2A POWER SUPPLY



3.3V/2A POWER SUPPLY

