

CV, OVP & OCP



File: cv-von.kicad\_sch

Monitoring, Crossover, Von



File: Monitoring.kicad\_sch

MOSFET Loops



File: MOSFET-Loops.kicad\_sch

DAC & ADC



File: dac\_adc.kicad\_sch

MCU connection



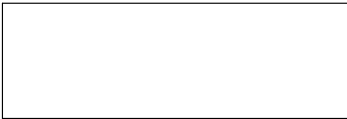
File: MCU.kicad\_sch

DIB connection



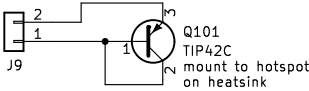
File: DIB.kicad\_sch

Power & References

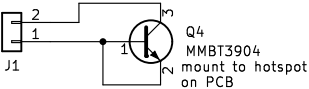


File: shifts-refs.kicad\_sch

Temp Sensor heatsink

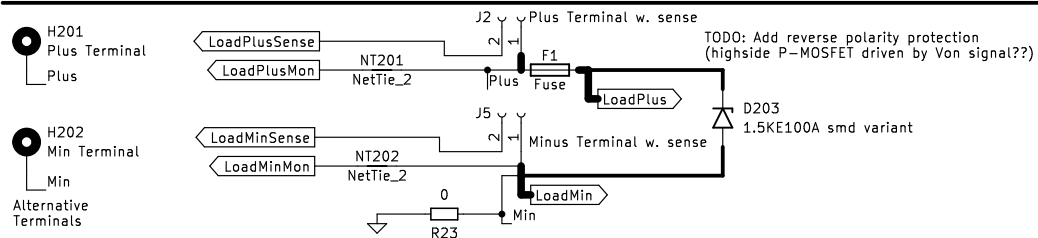
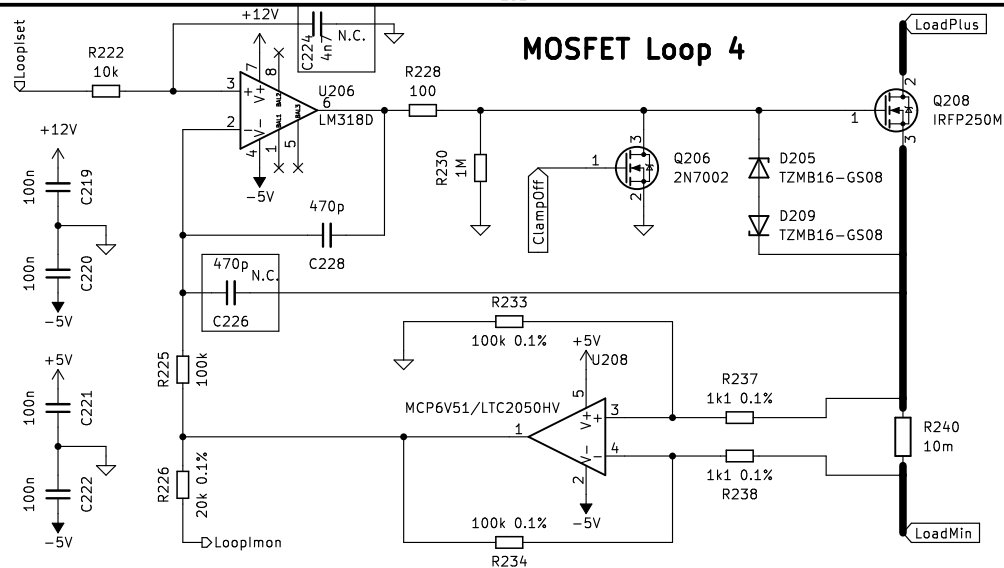
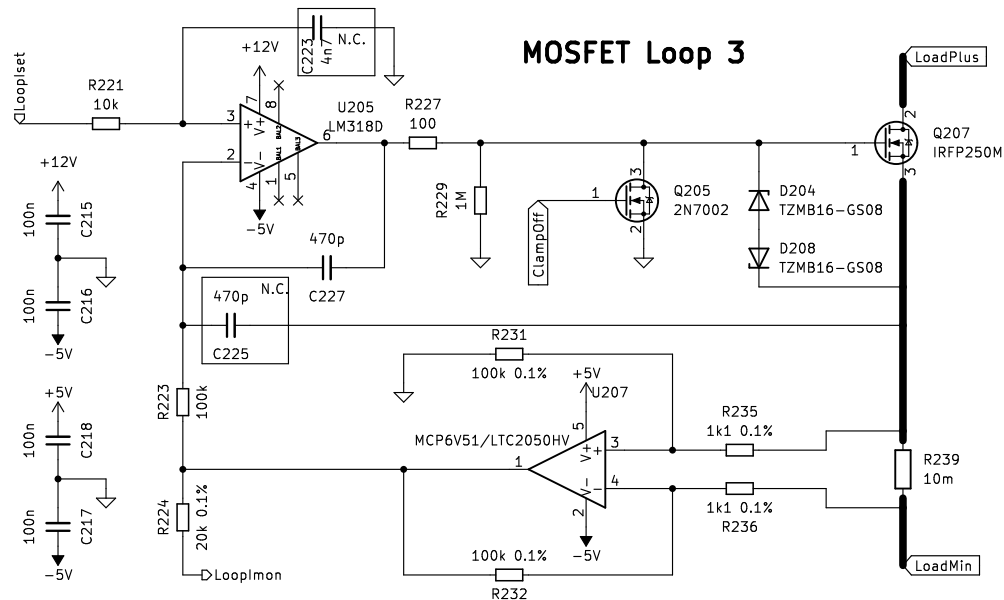


Temp Sensor PCB

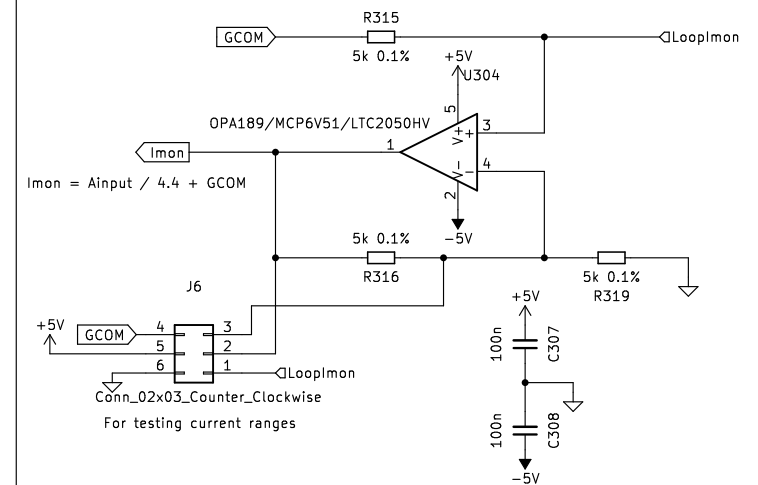
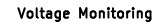


HS102 Heatsink

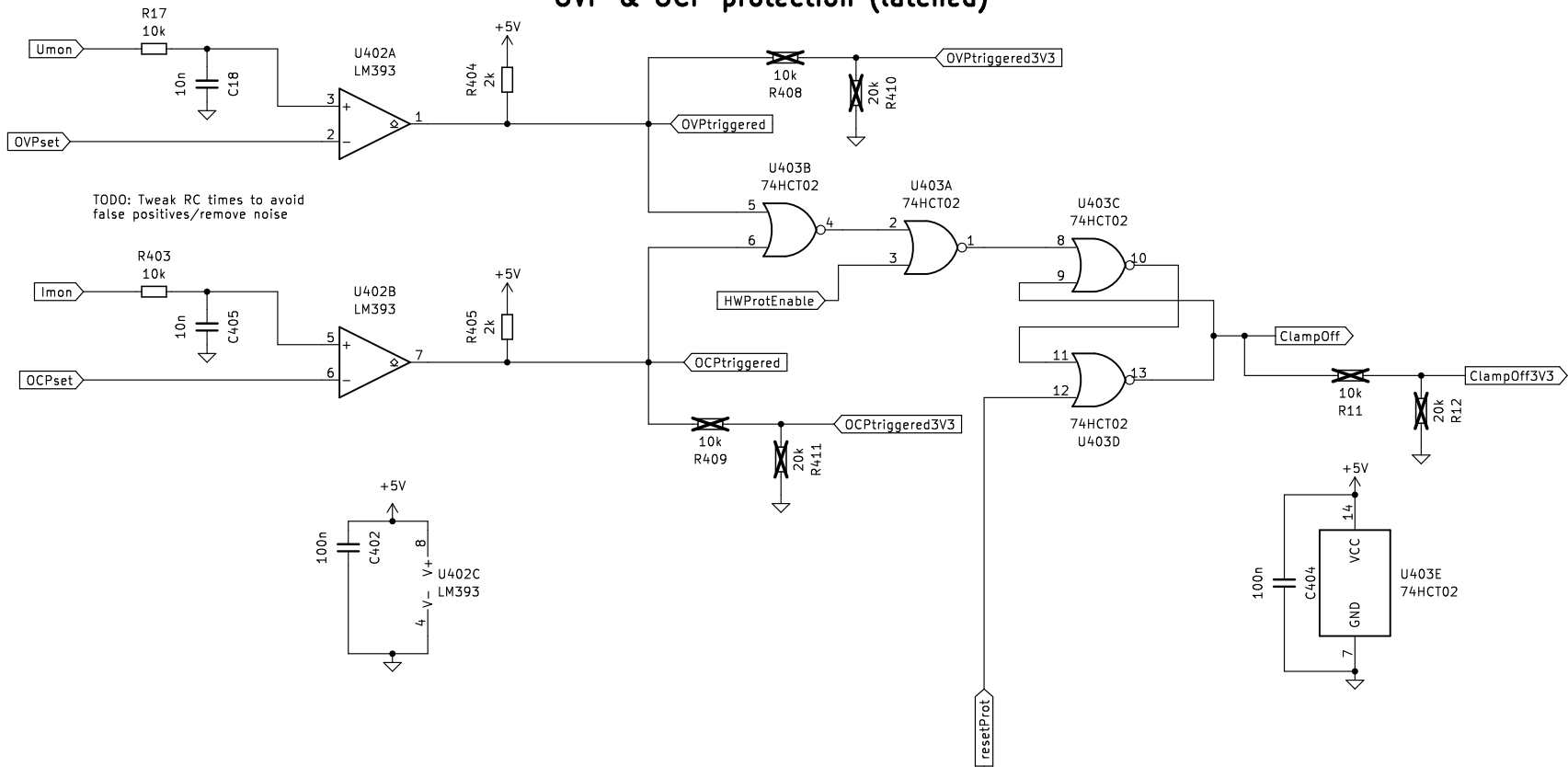
- H101 MountingHole
- H102 MountingHole
- H103 MountingHole
- H104 MountingHole



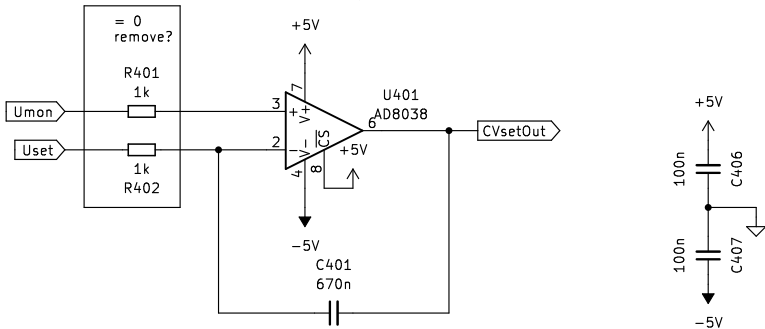
CV and Von override (=lower) CC if they require lower Iset



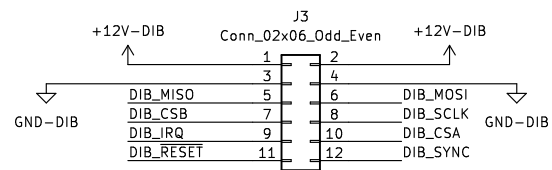
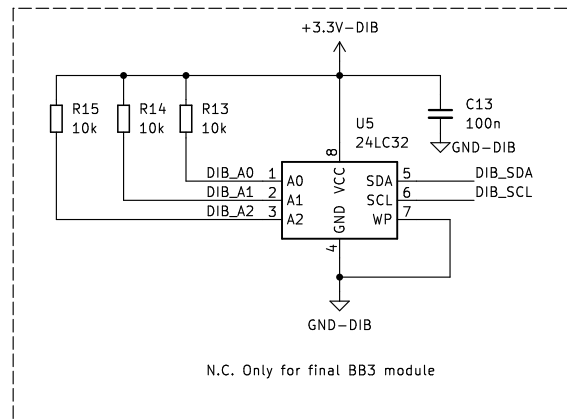
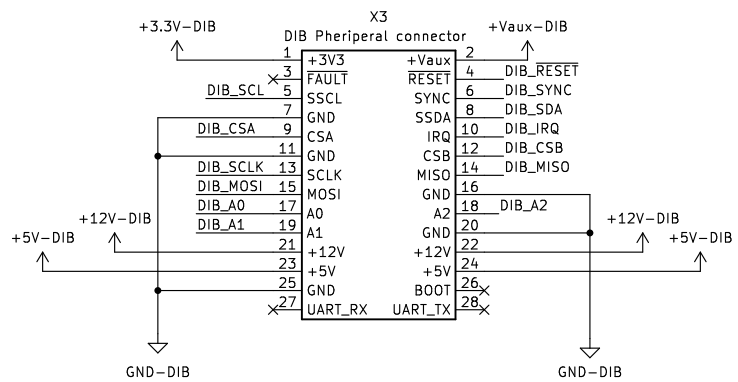
# OVP & OCP protection (latched)



# CV loop

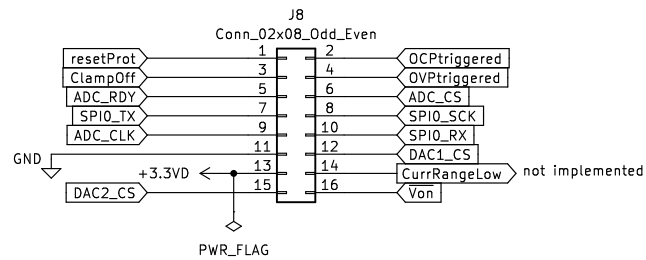
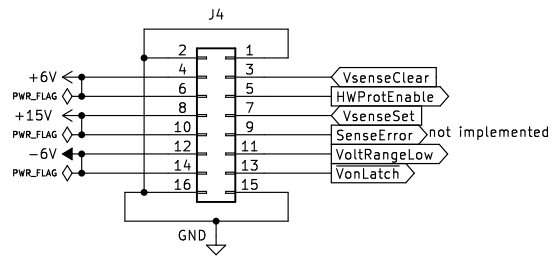






Connector 1 to/from DIB:  
 - 2x GND ( 2 pins)  
 - SPI + CSA from DIB (4 pins)  
 - Reset pin from DIB (1 pin)  
 - CSB/Boot pin from DIB (1 pin)  
 - 12V power from DIB. (1-2 pins)  
 ==== 10 PINS

Connector 2 to analog stuff.  
 - SPI + 3x CS from DAC+ADC (6 pins)  
 - I2C from GPIO/MCP23008 + Fan control. (2 pins)  
 - GND  
 ==== 10 PINS



# Clamping circuitry

ADC level adjustment  
Note: ADS131 supports negative voltages

