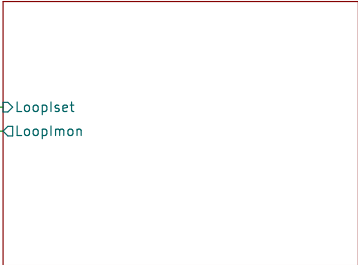


CV, OVP & OCP



File: cv-von.kicad_sch

MOSFET Loops



File: MOSFET-Loops.kicad_sch

Monitoring, Crossover, Von



File: Monitoring.kicad_sch

LoopIsetD LoopIset
LoopImonC LoopImon

DAC & ADC



File: dac_adc.kicad_sch

MCU connection



File: MCU.kicad_sch

DIB connection



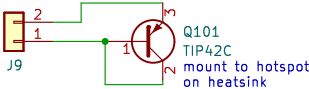
File: DIB.kicad_sch

Power & References

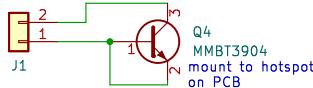


File: shifts-refs.kicad_sch

Temp Sensor heatsink



Temp Sensor PCB



HS102
Heatsink

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

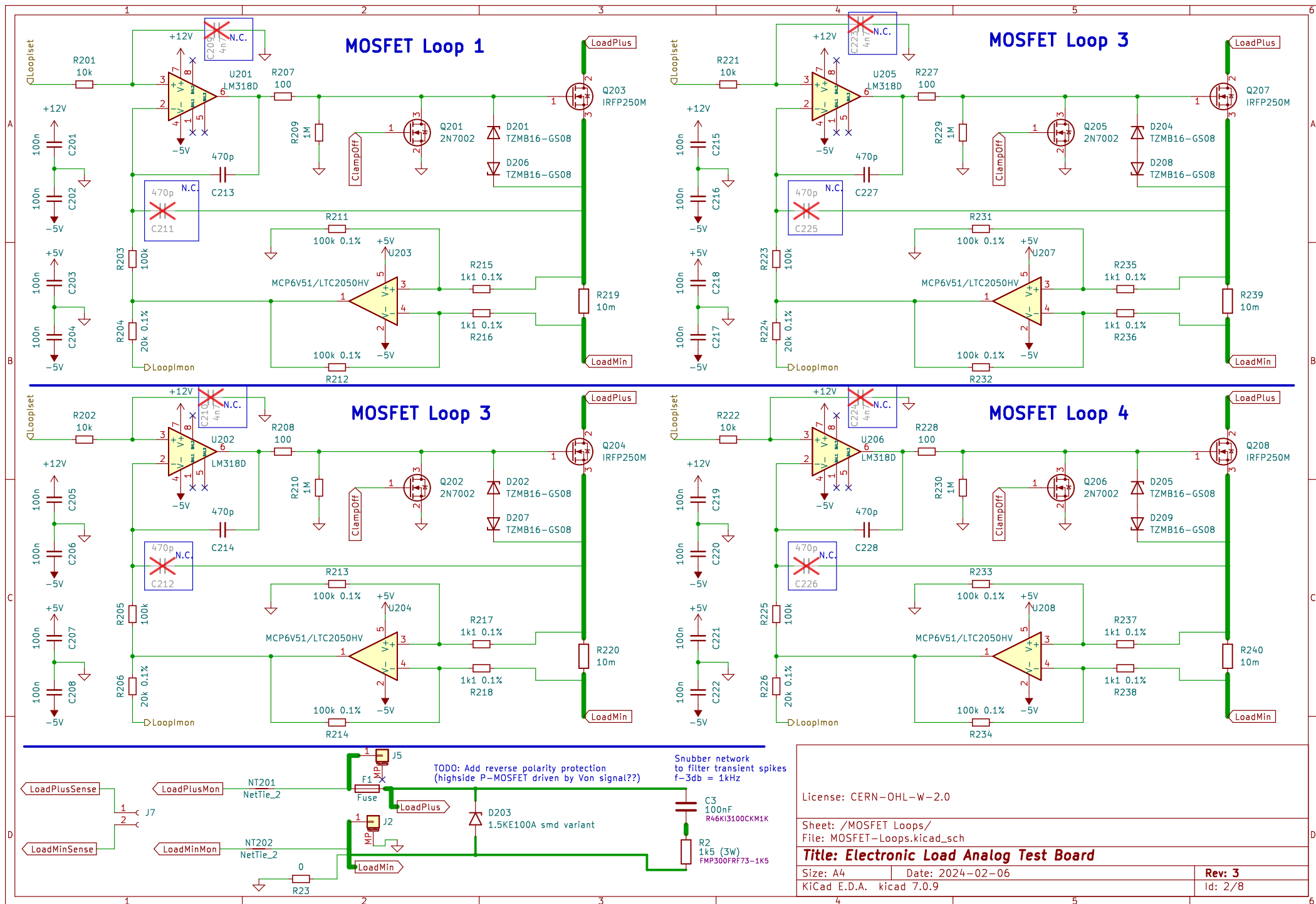
License: CERN-OHL-W-2.0

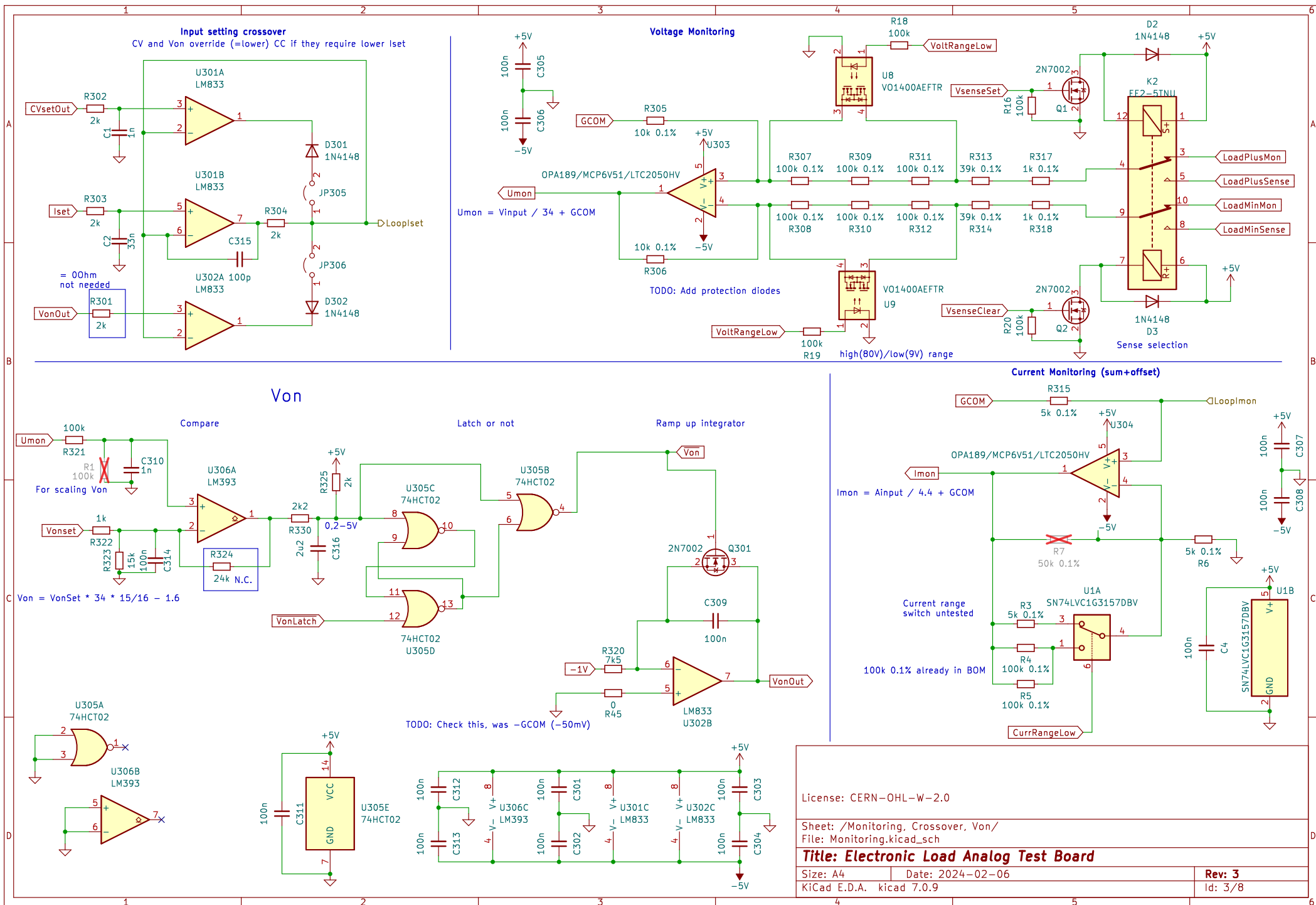
Sheet: /
File: EL-Load-Analog.kicad_sch

Title: Electronic Load Analog Test Board

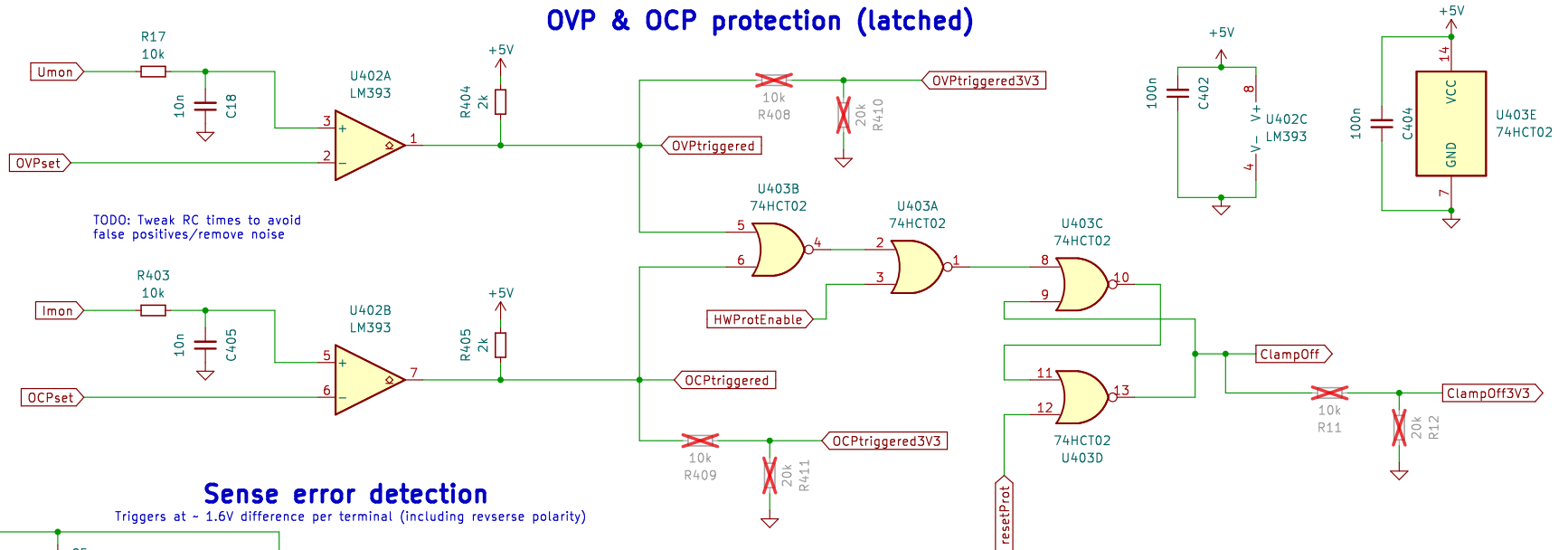
Size: A4 Date: 2024-02-06
KiCad E.D.A. kicad 7.0.9

Rev: 3
Id: 1/8



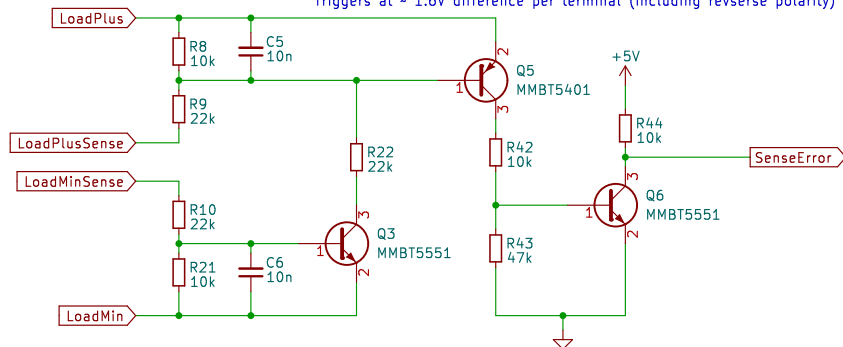


OVP & OCP protection (latched)

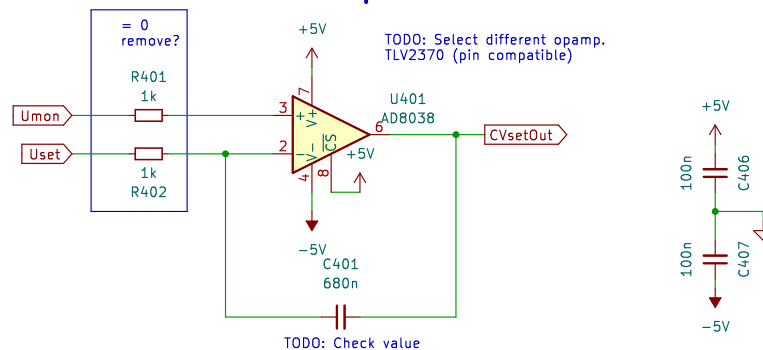


Sense error detection

Triggers at ~ 1.6V difference per terminal (including reverse polarity)



CV loop



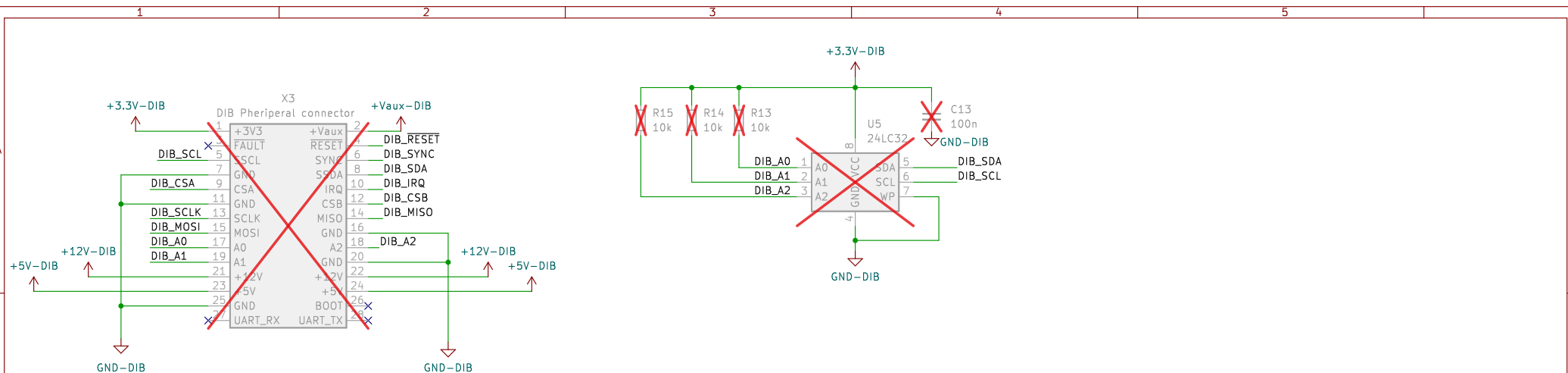
License: CERN-OHL-W-2.0

Sheet: /CV, OVP & OCP/
File: cv-von.kicad_sch

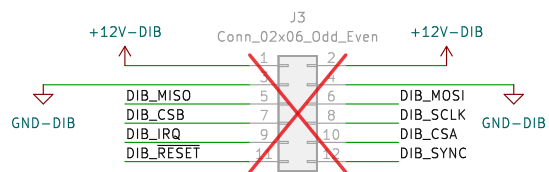
Title: Electronic Load Analog Test Board

Size: A4	Date: 2024-02-06
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Rev: 3
Id: 4/8



Only populate for final BB3 module



License: CERN-OHL-W-2.0

Sheet: /DIB connection/
File: DIB.kicad_sch

Title: Electronic Load Analog Test Board

Size: A4	Date: 2024-02-06
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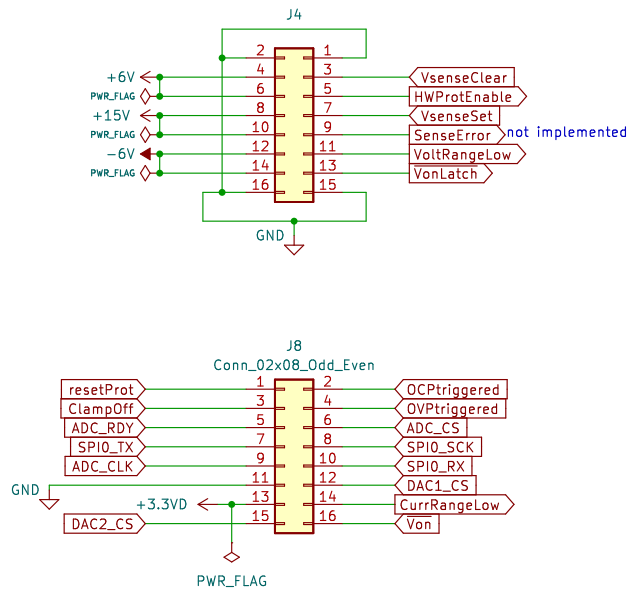
KiCad E.D.A.	kicad 7.0.9
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Rev: 3

Id: 6/8

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



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Sheet: /MCU connection/
File: MCU.kicad_sch

Title: Electronic Load Analog Test Board

Size: A4
KiCad E.D.A. kicad 7.0.9

Date: 2024-02-06

Rev: 3
Id: 7/8

