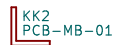
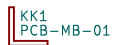
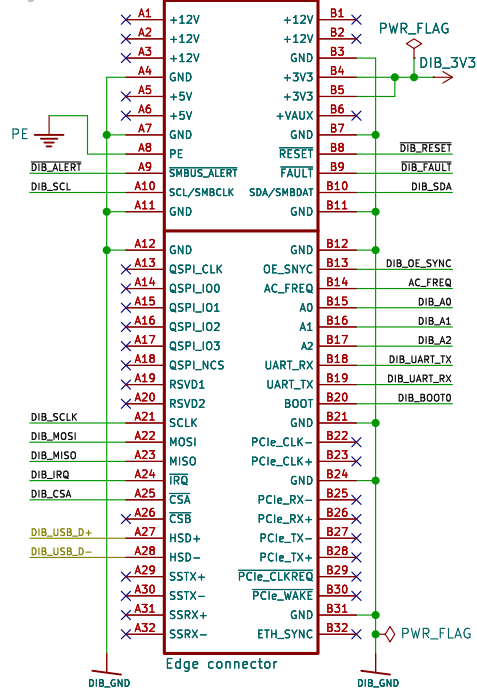
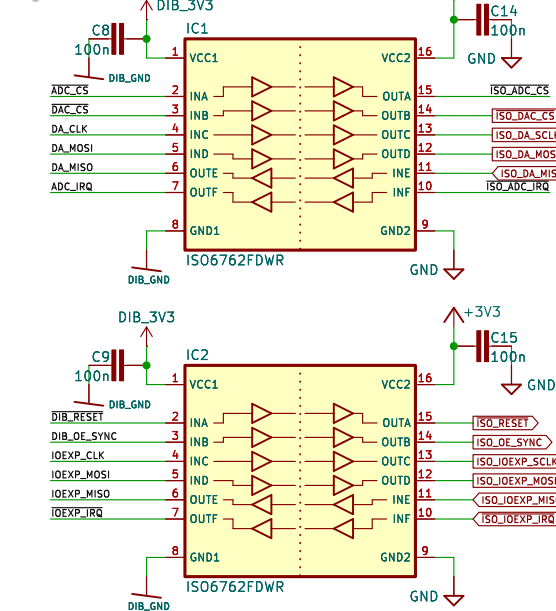

Id: 1/8



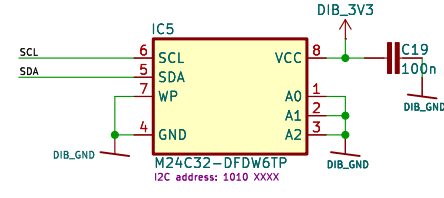
DIB signal connector X1



Digital isolators



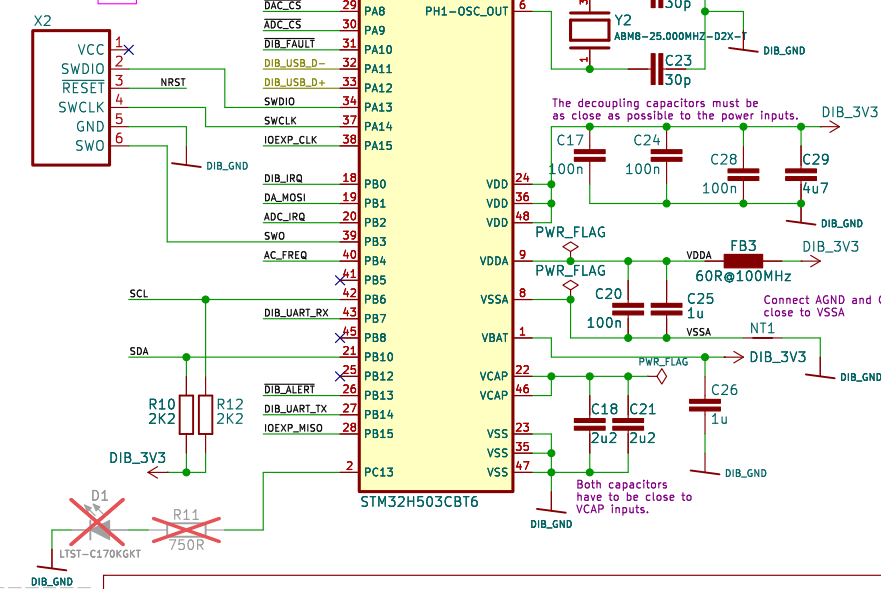
I2C Module ID EEPROM



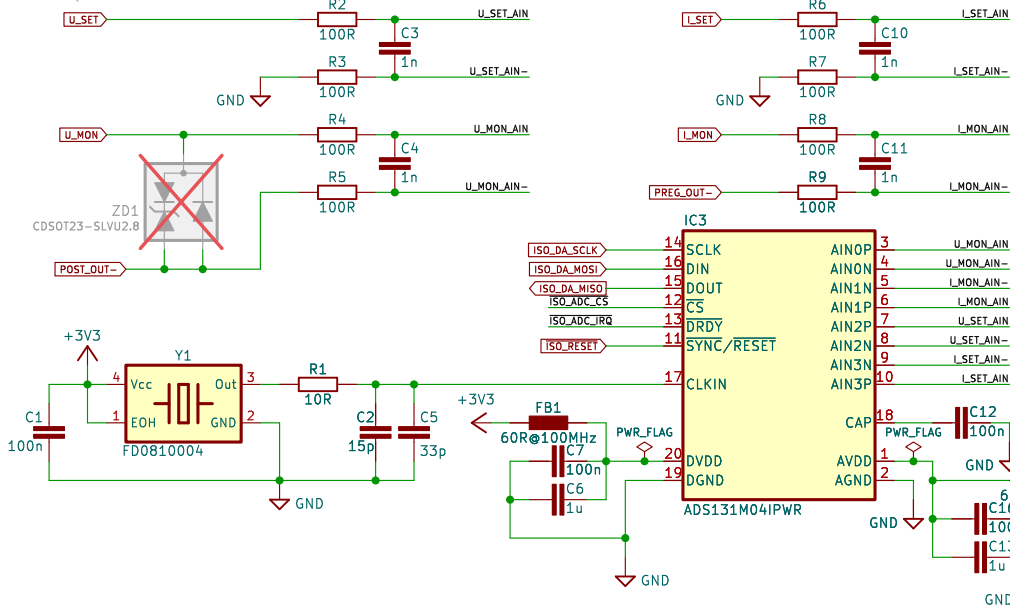
32-bit MCU

PCB pads for
Tag-Connect TC2030-IDC
(DigKey: TC2030-IDC-ND)

SWO 6 5 GND
SWCLK 4 3 nRST
SWDIO 2 1 +3V3



ADC with input RC filters



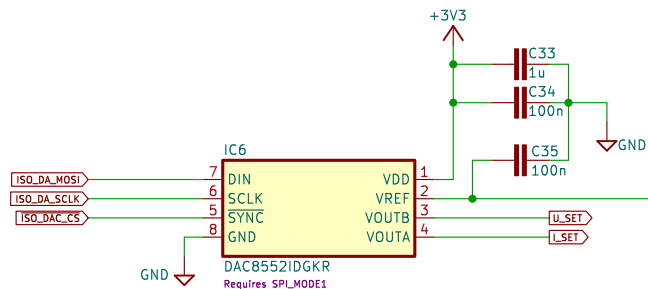
<https://www.envox.eu>
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Envox d.o.o.
Sheet: /DIB isolators, EEPROM, ADC, MCU/
File: DIB_EEPROM_ADC_MCU.kicad_sch

Title: EEZ DIB DCP405+ power module

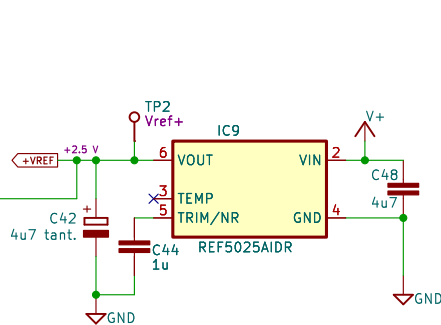
Size: A4 Date: 2025-12-06
KiCad E.D.A. 9.0.6

Rev: r4B3
Id: 2/8

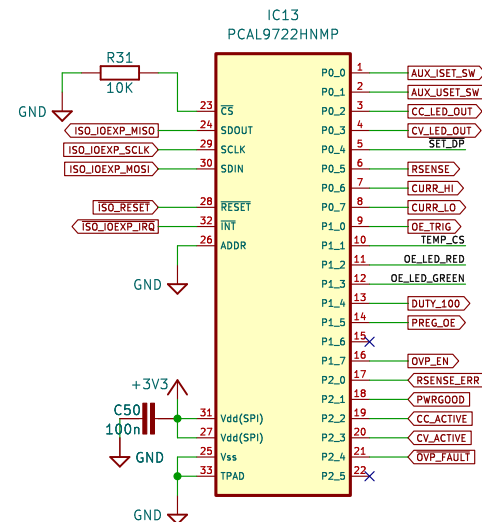
16-bit DAC (set voltage and current)



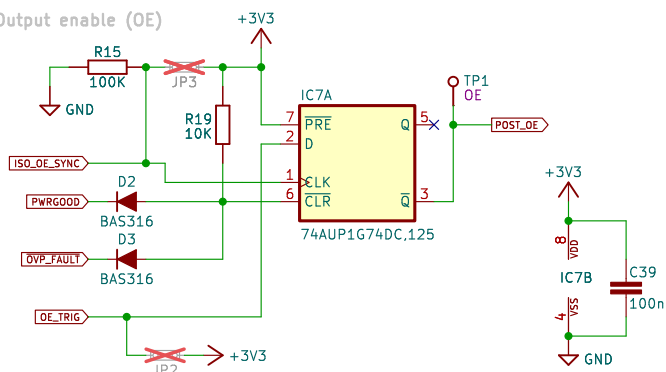
Voltage reference



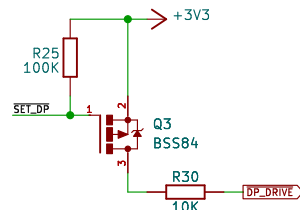
SPI 22-bit I/O Expander



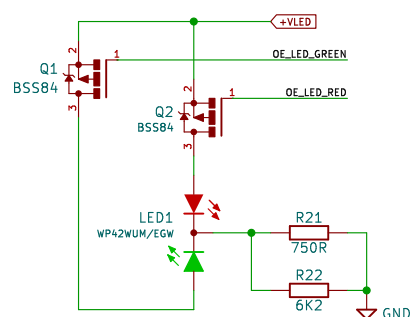
Output enable (OE)



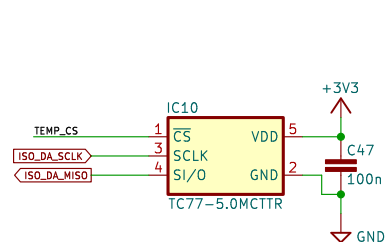
Down-programmer



OE indicator



SPI Temperature sensor



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Sheet: /DAC, OE, Vref, IOEXP, Temp/

File: DAC_Vref_IOEXP_Temp.kicad_sch

Title: EEZ DIB DCP405+ power module

Size: A4

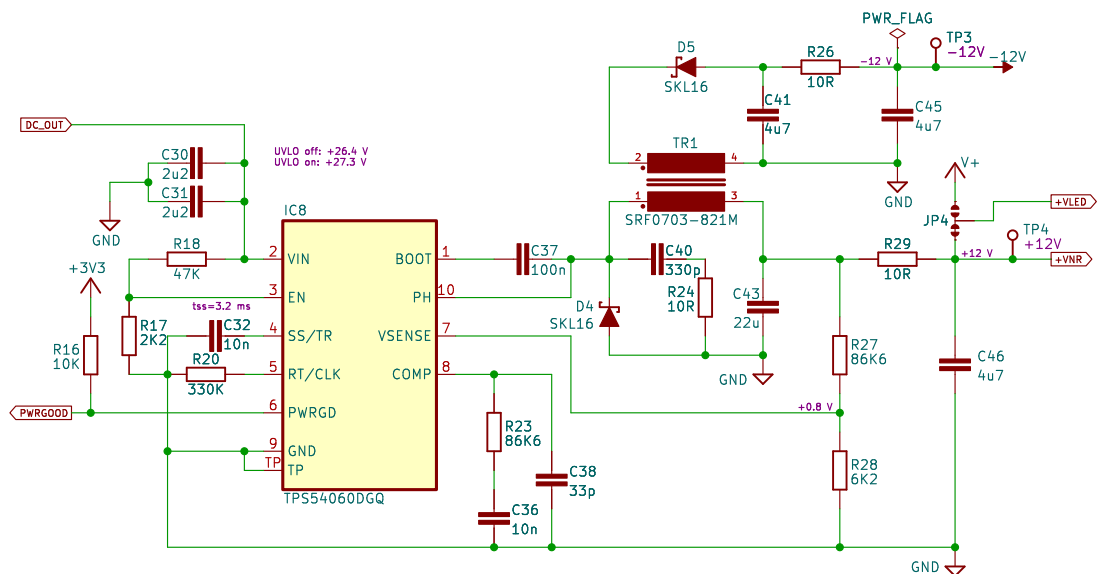
Date: 2025-12-06

Rev: r4B3

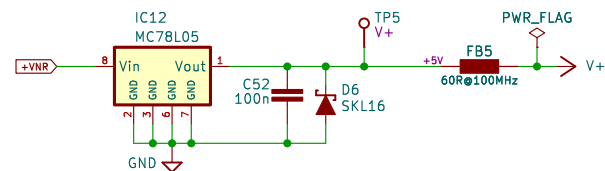
KiCad E.D.A. 9.0.6

Id: 3/8

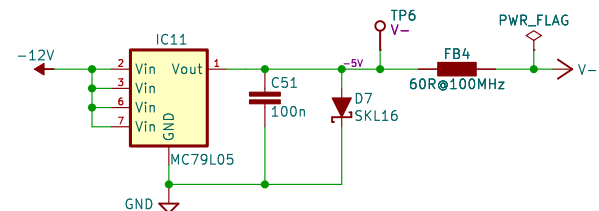
Bias power supply



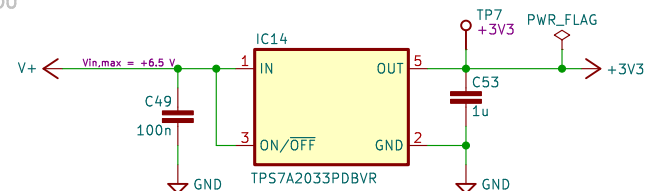
+5V LDO



-5V LDO



+3V3 LDO



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Envox d.o.o.

Sheet: /Bias power/

File: Bias_power.kicad_sch

Title: EEZ DIB DCP405+ power module

Size: A4

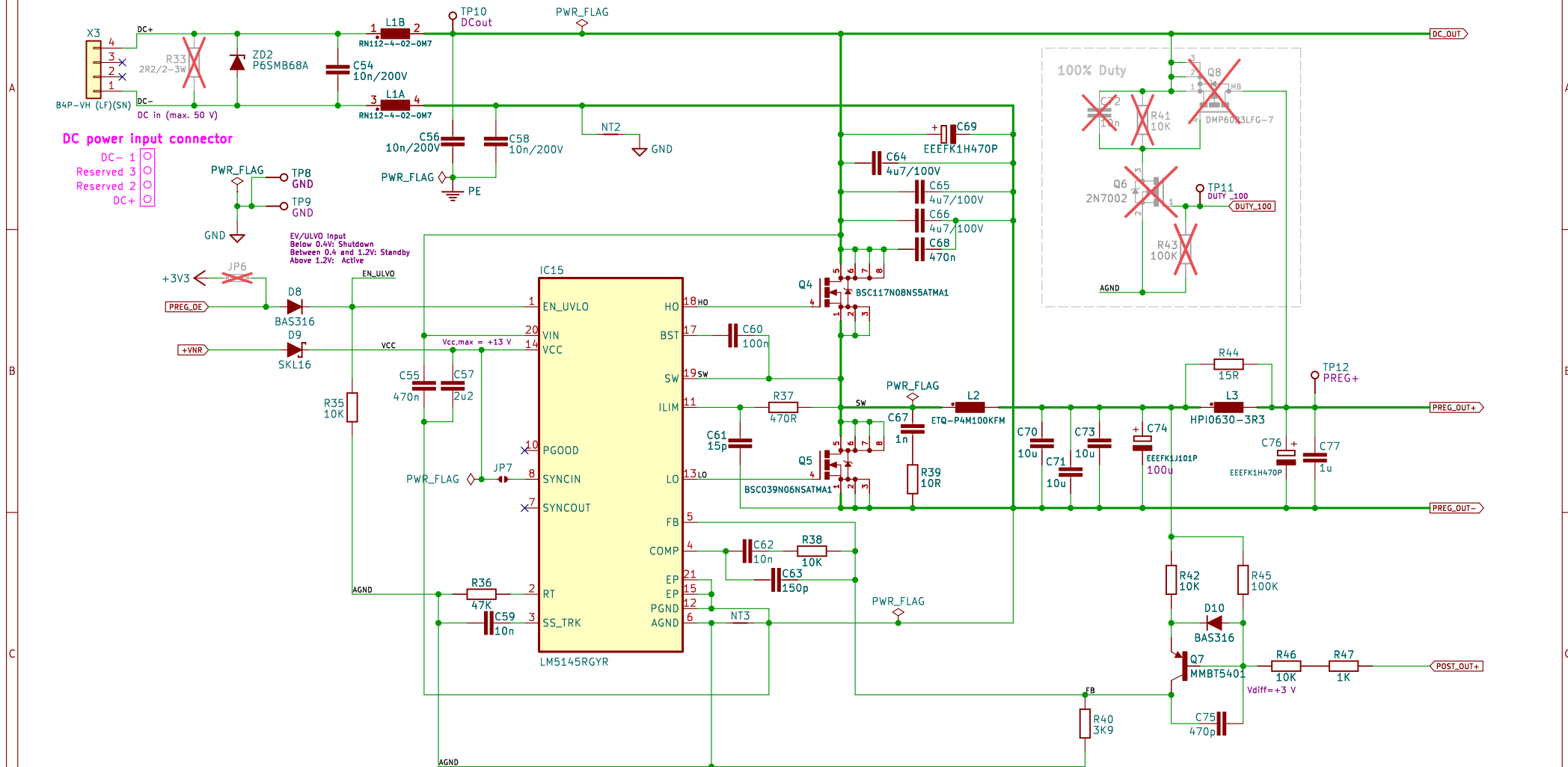
Date: 2025-12-06

Rev: r4B3

KiCad E.D.A. 9.0.6

Id: 3/8

Low EMI power pre-regulator

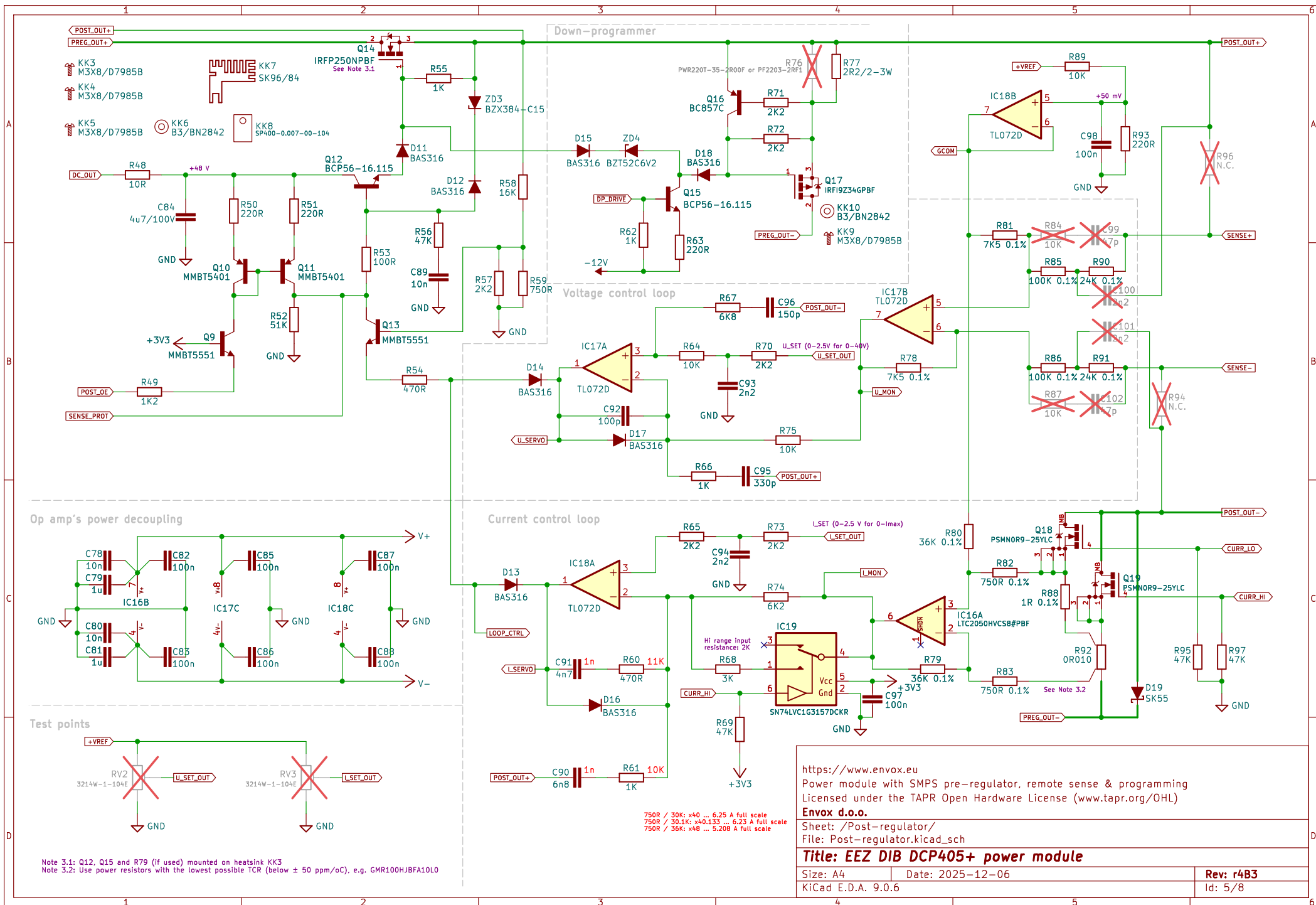


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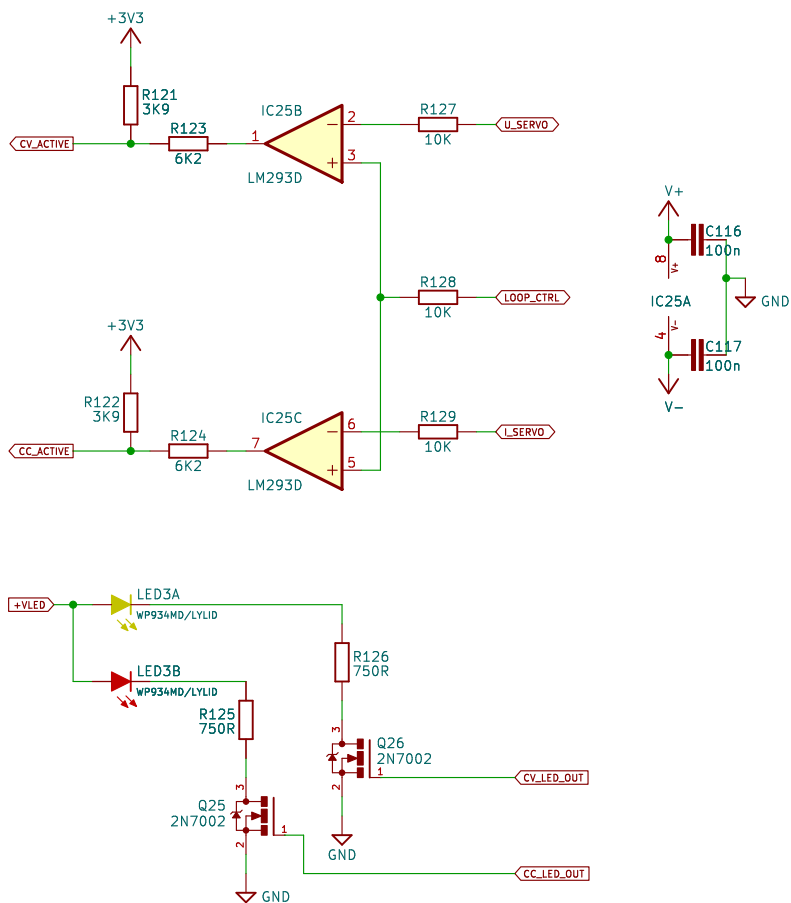
Sheet: /Power pre-regulator/
File: Power_pre-regulator.kicad_sch

Title: EEZ DIB DCP405+ power module

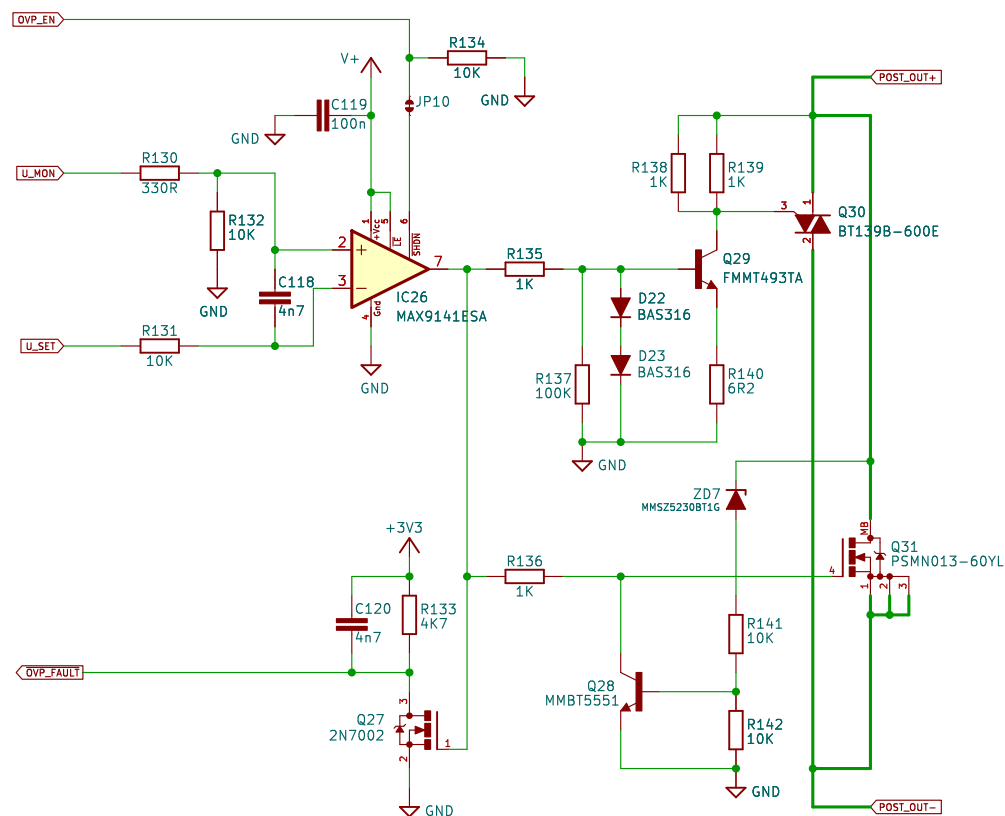
Size: A4	Date: 2025-12-06	Rev: r4B3
KiCad E.D.A. 9.0.6		Id: 4/8



Constant Voltage (CV) and Constant Current (CC) mode detection and indication



Over-voltage protection (OVP)



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Sheet: /Mode detection, OVP/

File: CC_CV_OVP.kicad_sch

Title: EEZ DIB DCP405+ power module

Size: A4

Date: 2025-12-06

Rev: r4B3

KiCad E.D.A. 9.0.6

Id: 7/8