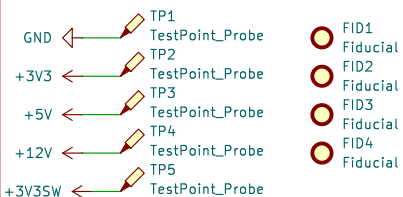
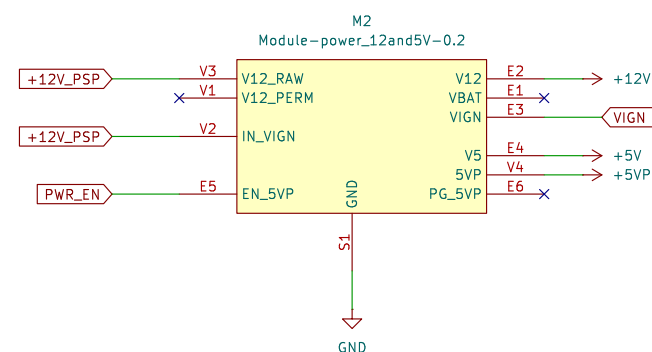
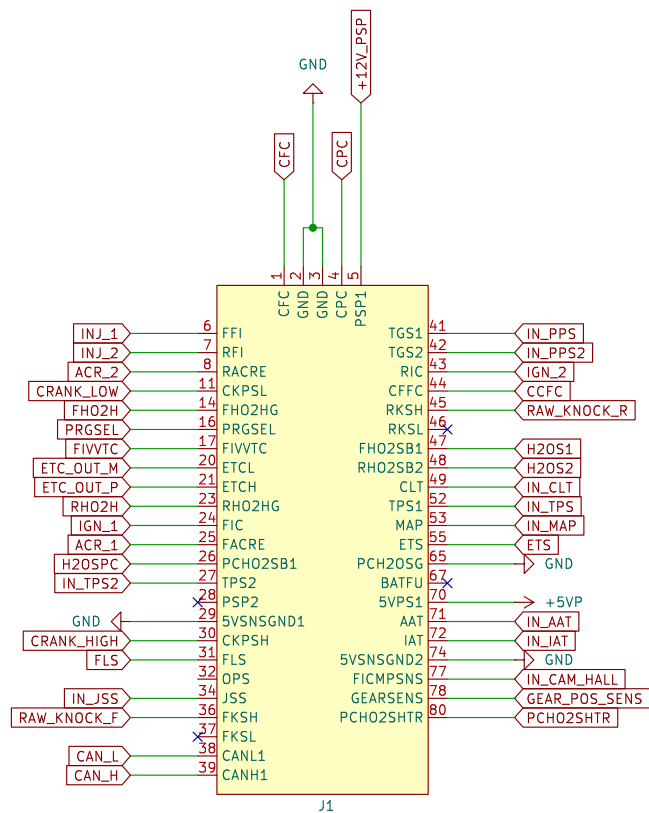


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File: sensors.kicad_sch

File: bluetooth.kicad.sch

File: outputs.kicad sch



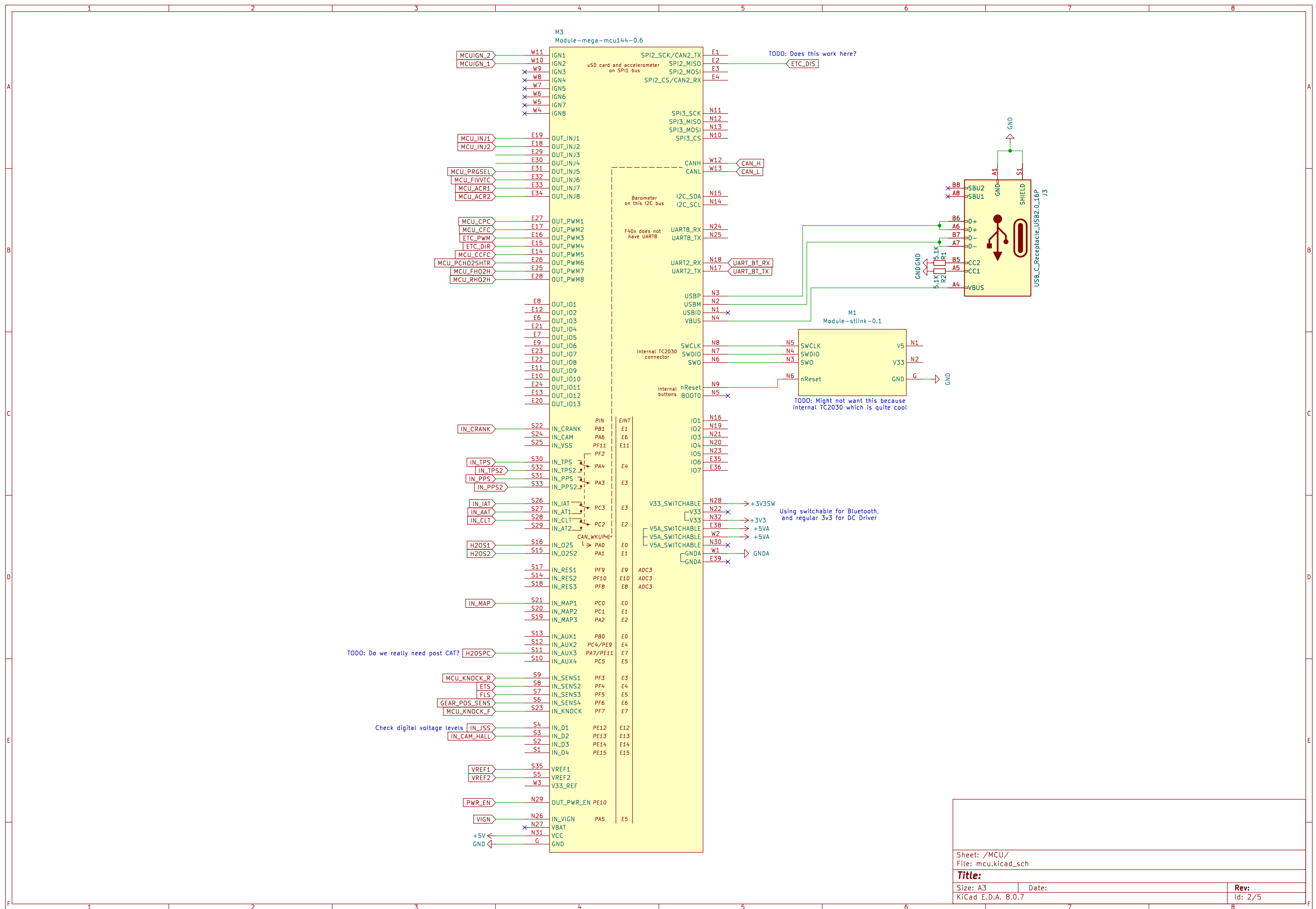
Hellen – Bremen

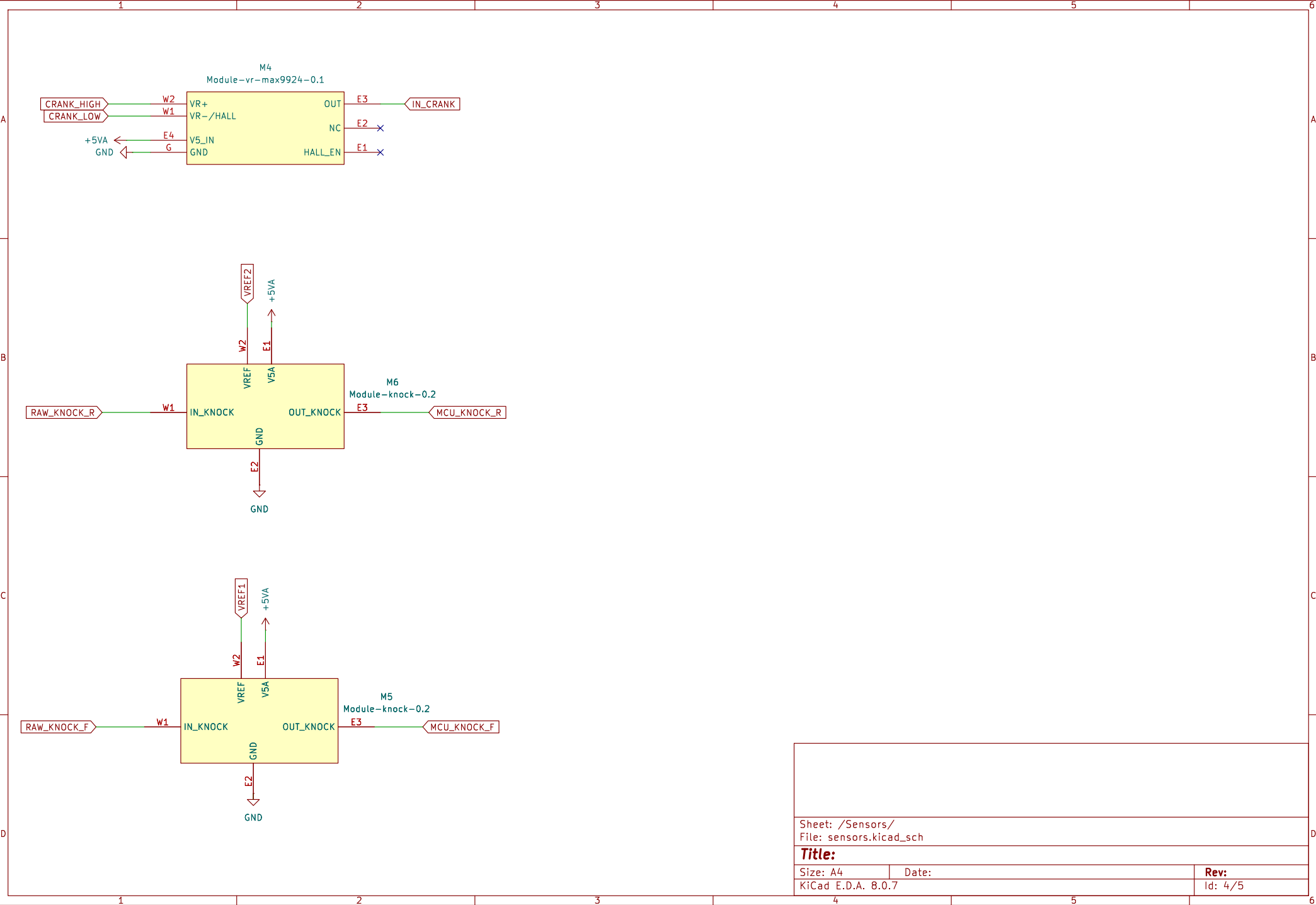
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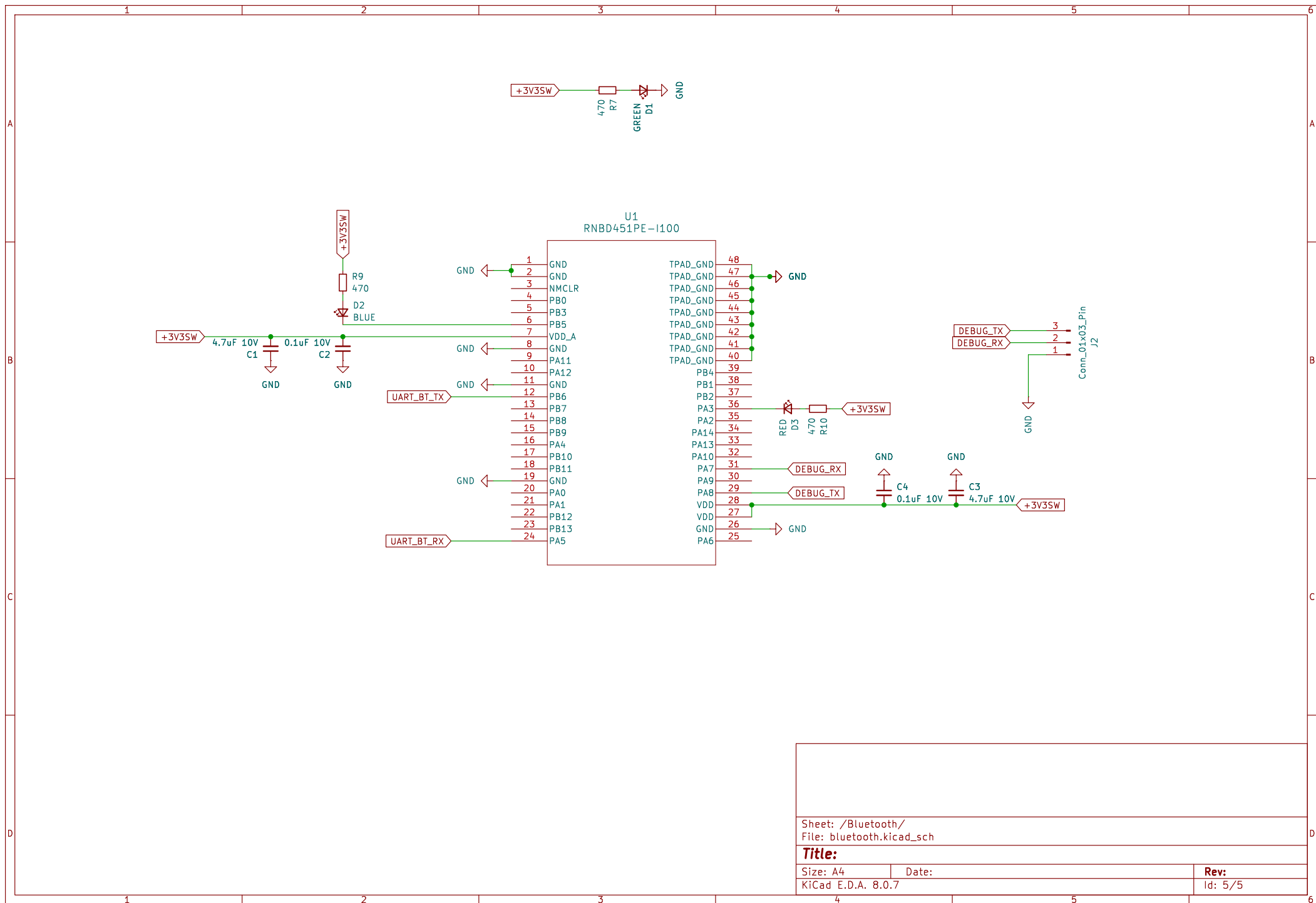
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Rev: A
Id: 1/5





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Rev:

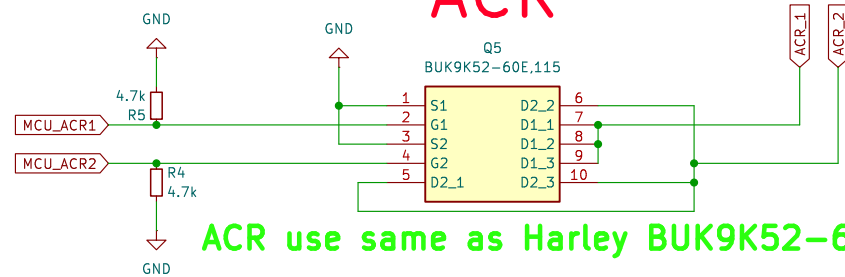
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INJECTORS



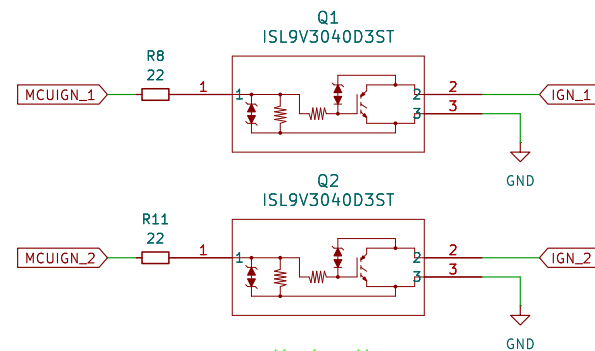
INJECTORS MEASURED TO TAKE MAX 1A EACH WHEN OPEN
VNLD5160TR-E should be fine
HARLEY uses 2N06L35

ACR



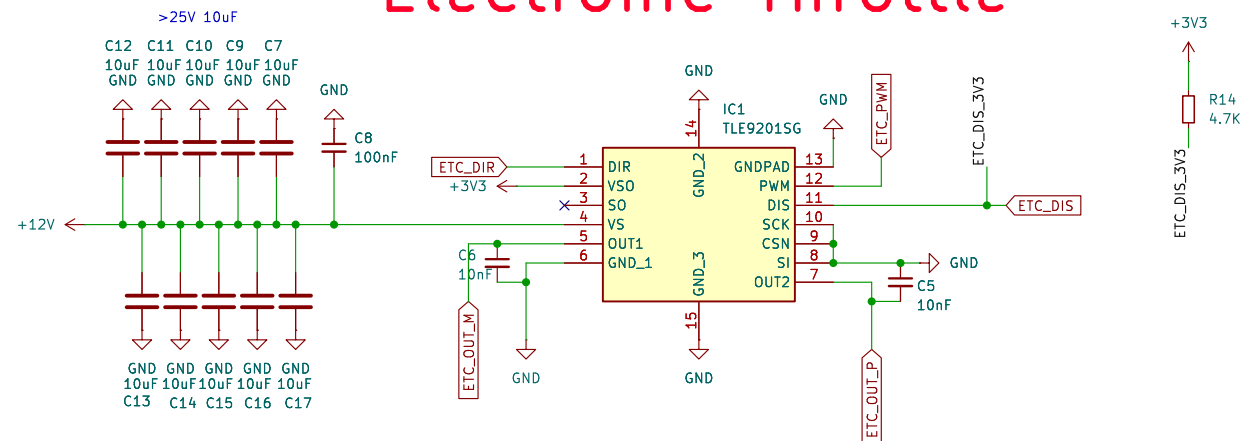
ACR use same as Harley BUK9K52-60E

IGNITION

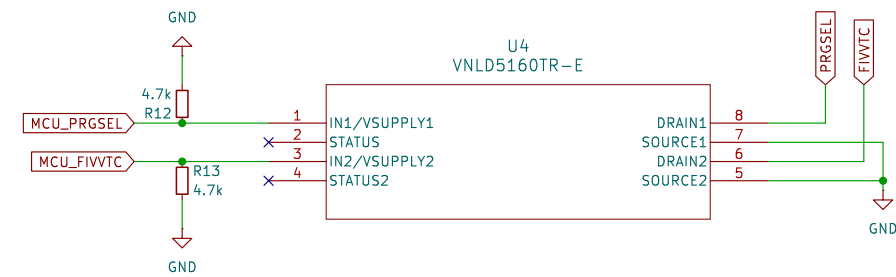


Harley Uses:
<https://www.mouser.de/ProductDetail/onsemi/FGB3040G2-F085C?qs=2WXlatMagChzMRj1hscbYQ%3D%3D>
ISL9V3040D3ST should work though

Electronic Throttle

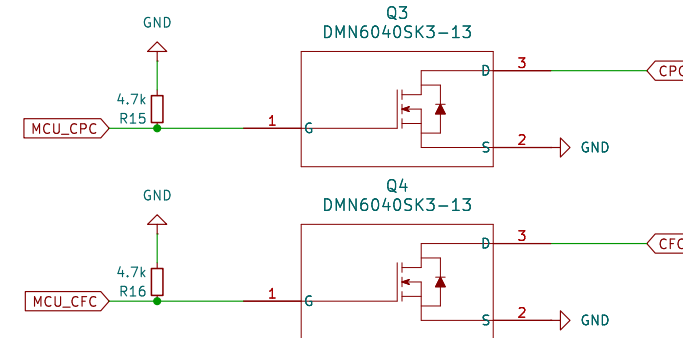


PURGE & VVT SOLENOIDS



TODO: PURGE AND VVT SOLENOIDS NOT MEASURED YET AT ALL

COOLANT FAN & PUMP



COOLANT FAN PULLS AROUND 4A WHEN CONSTANT 100%,
INITIALLY PULLING UP TO 8A FOR GETTING SPINNING
HARLEY USES: HUF76629D3ST

POSSIBLE: <https://www.digikey.de/de/products/detail/onsemi/HUF76629D3ST/4553106>

AND: <https://www.digikey.de/de/products/detail/diodes-incorporated/DMN6040SK3-13/8545933>

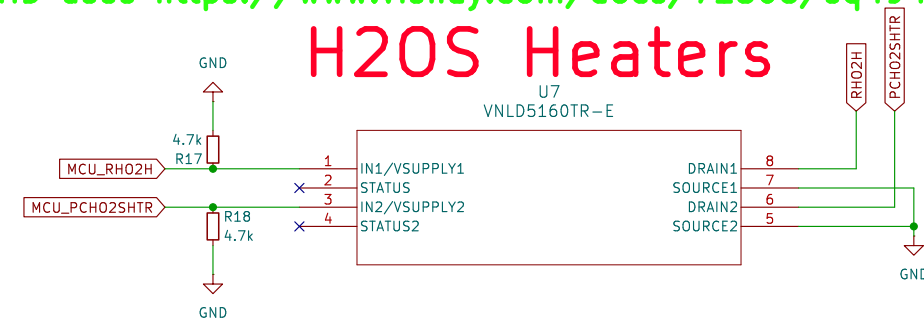
Weytronik: <https://www.digikey.de/de/products/detail/vishay-siliconix/SISS54DN-T1-GE3/14004251?s=N4IgtTCBcDaiMoEk5wKwBYAiA5EBdAvka>

H2OS Heaters are PWM Controlled and max out at about 0.9 Amps
at room temperature, then reducing with heat coming.

VNLD5160TR-E should work. Will test

HD uses <https://www.vishay.com/docs/71506/sq4946aey.pdf>

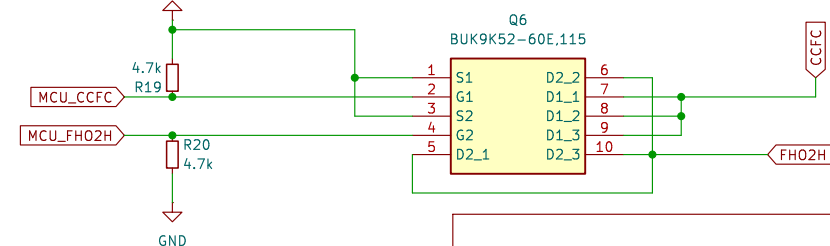
H2OS Heaters



CCFC: Harley uses 2N06L35

TODO: Does this part really make sense?

CCFC & HO2HTR



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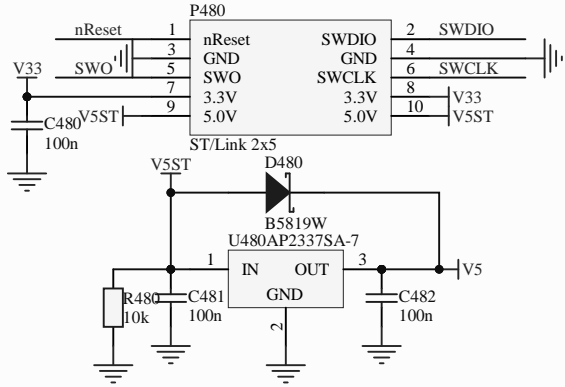
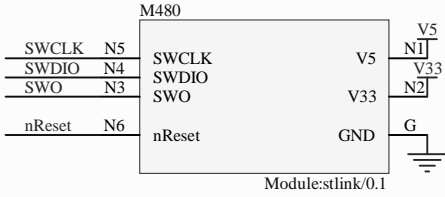
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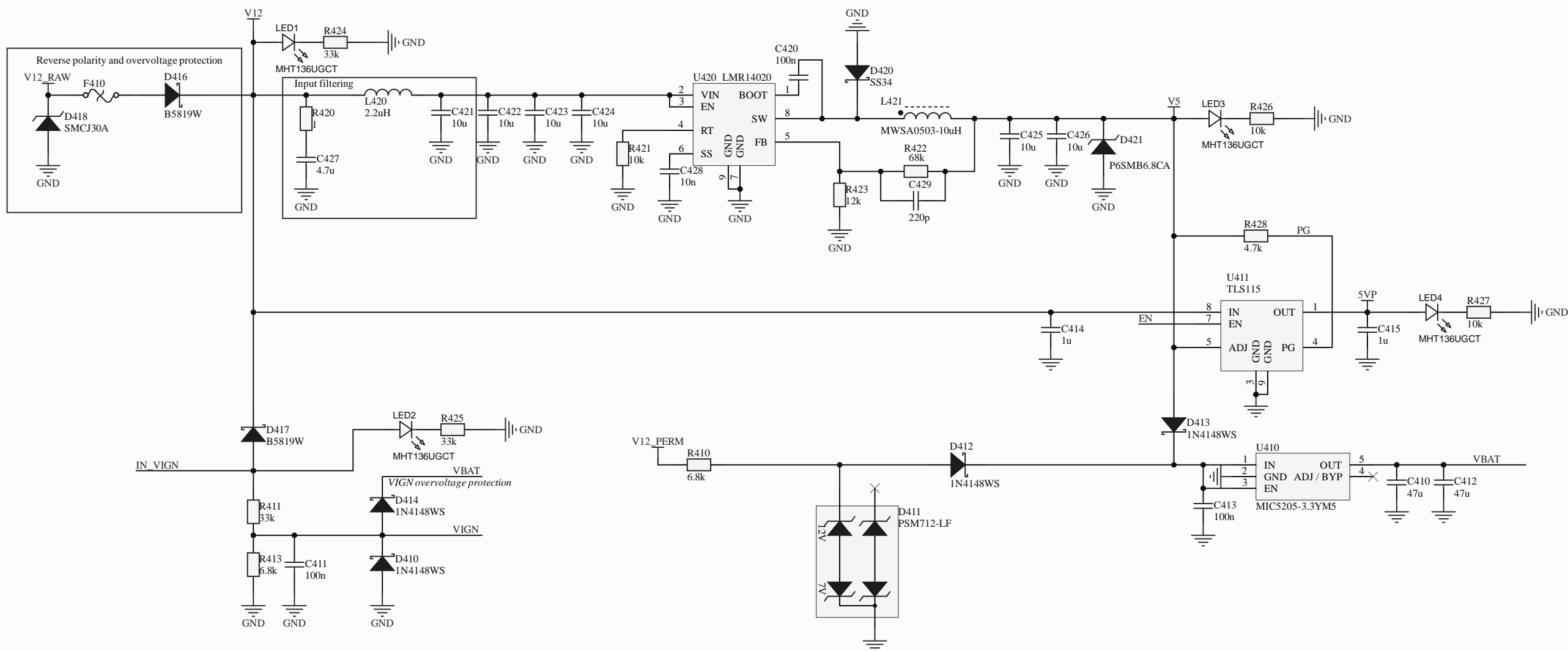
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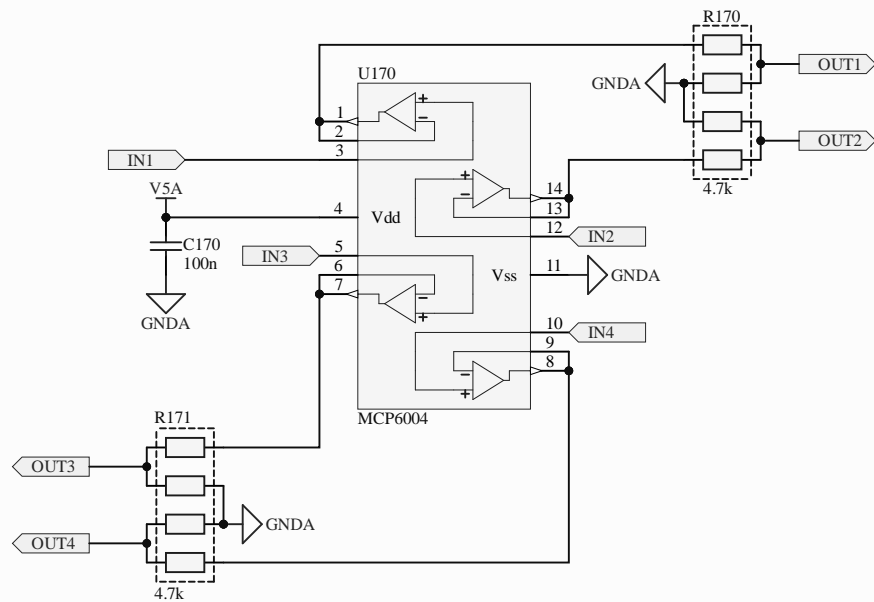
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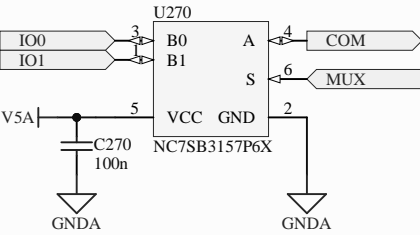
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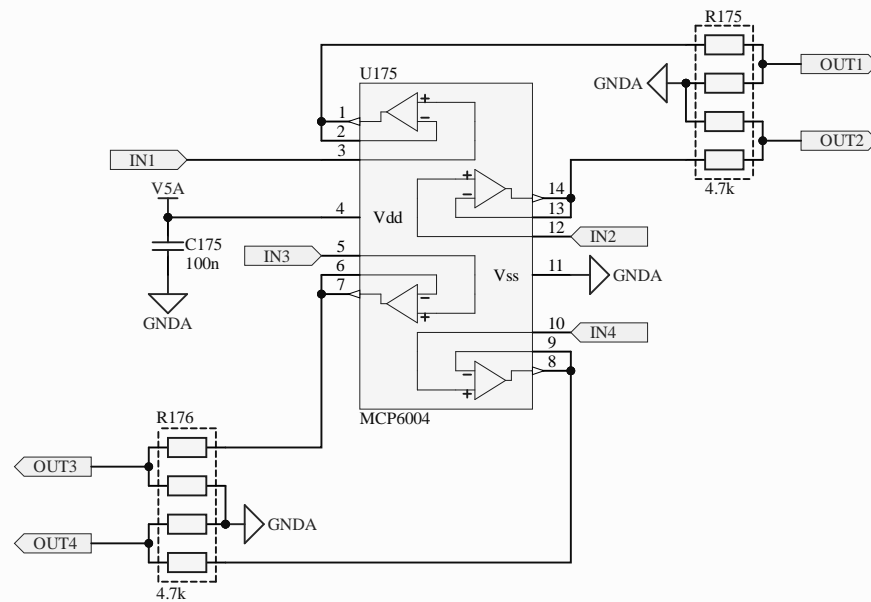
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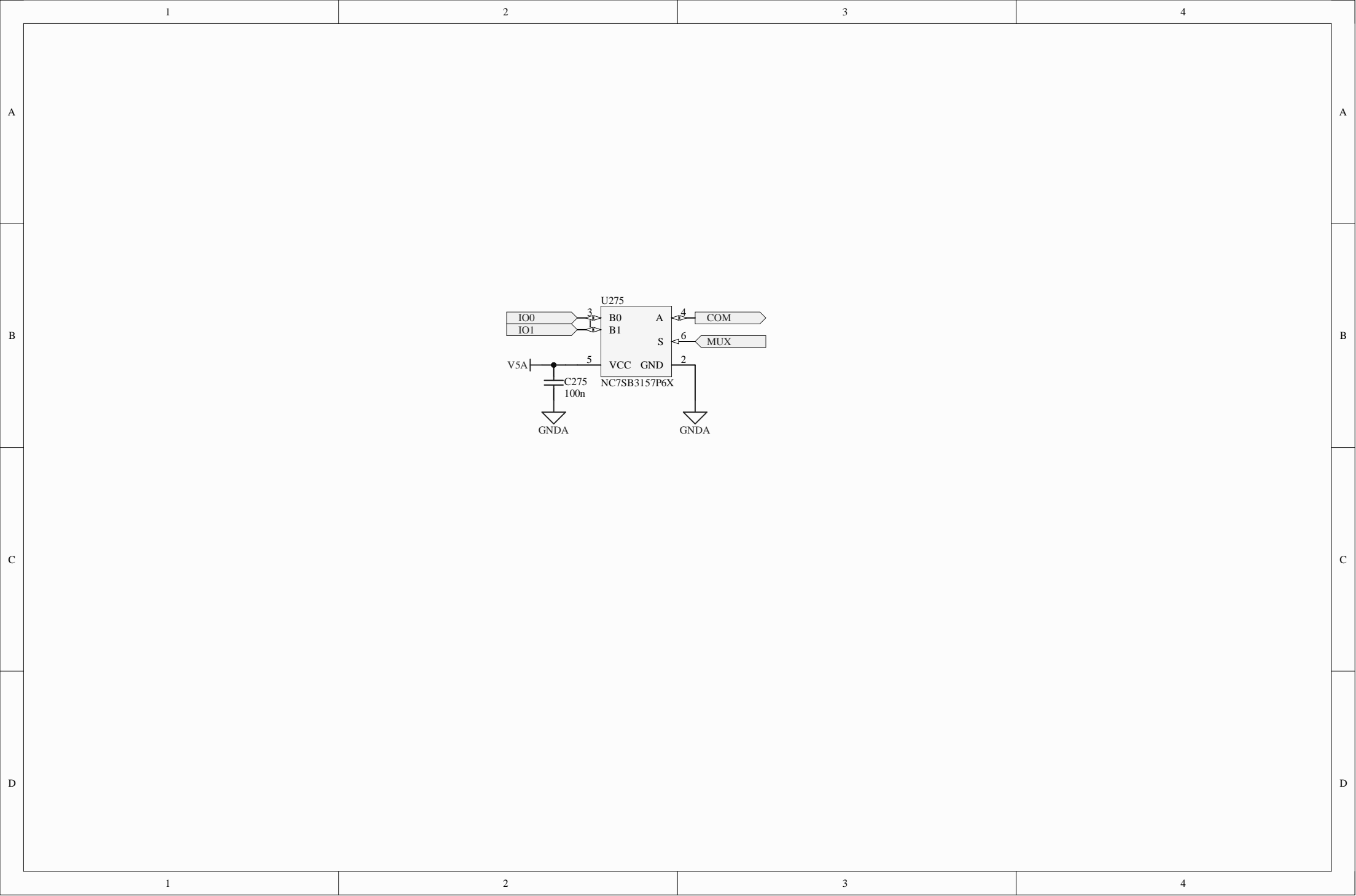
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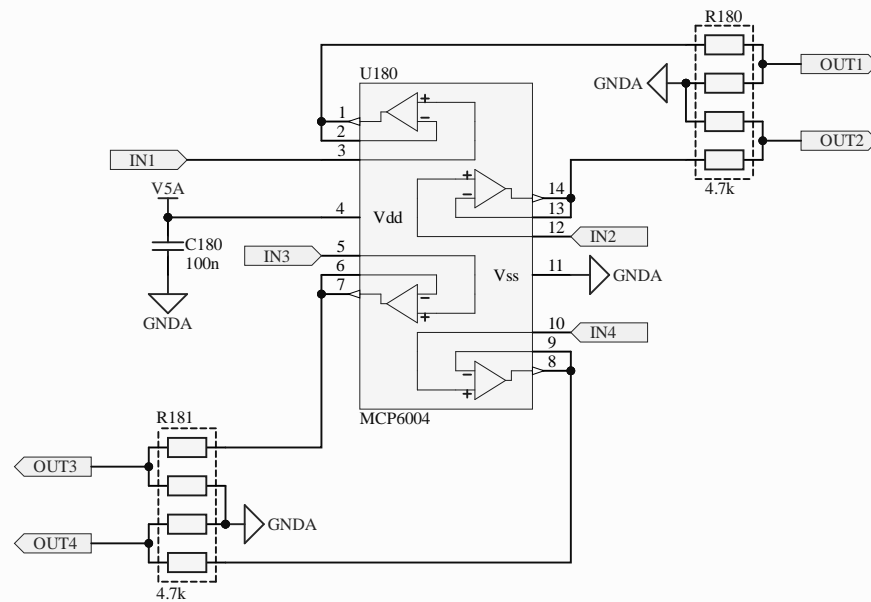
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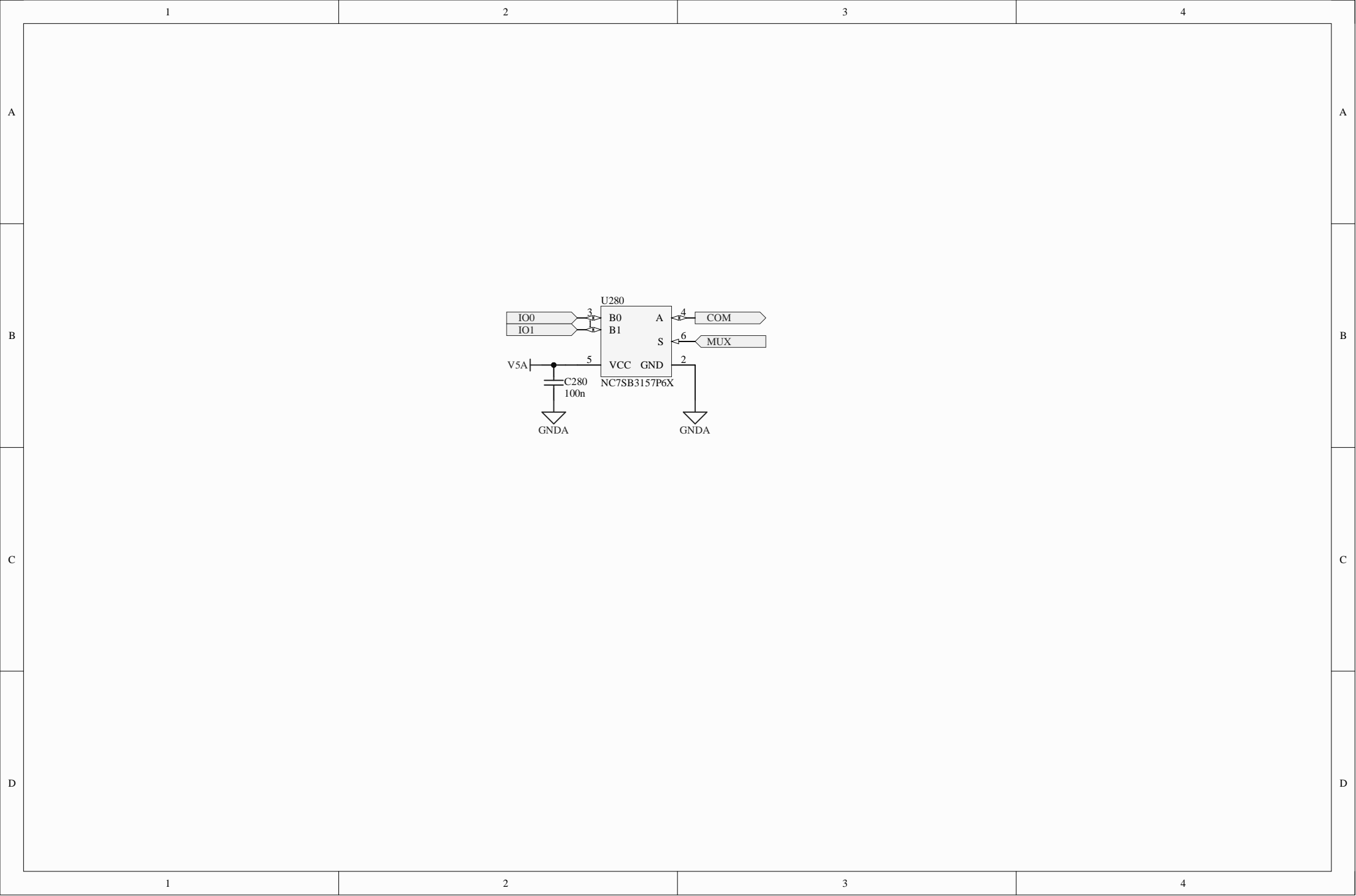
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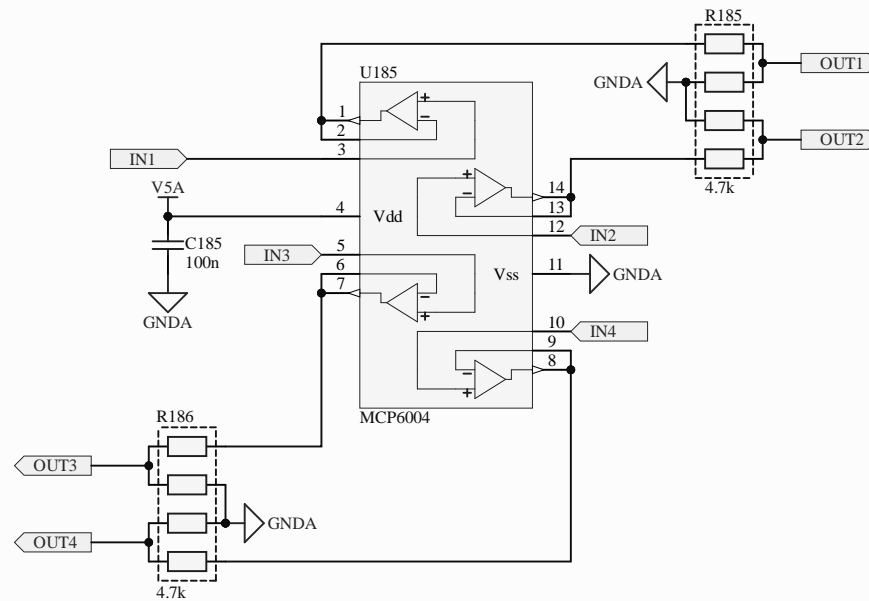


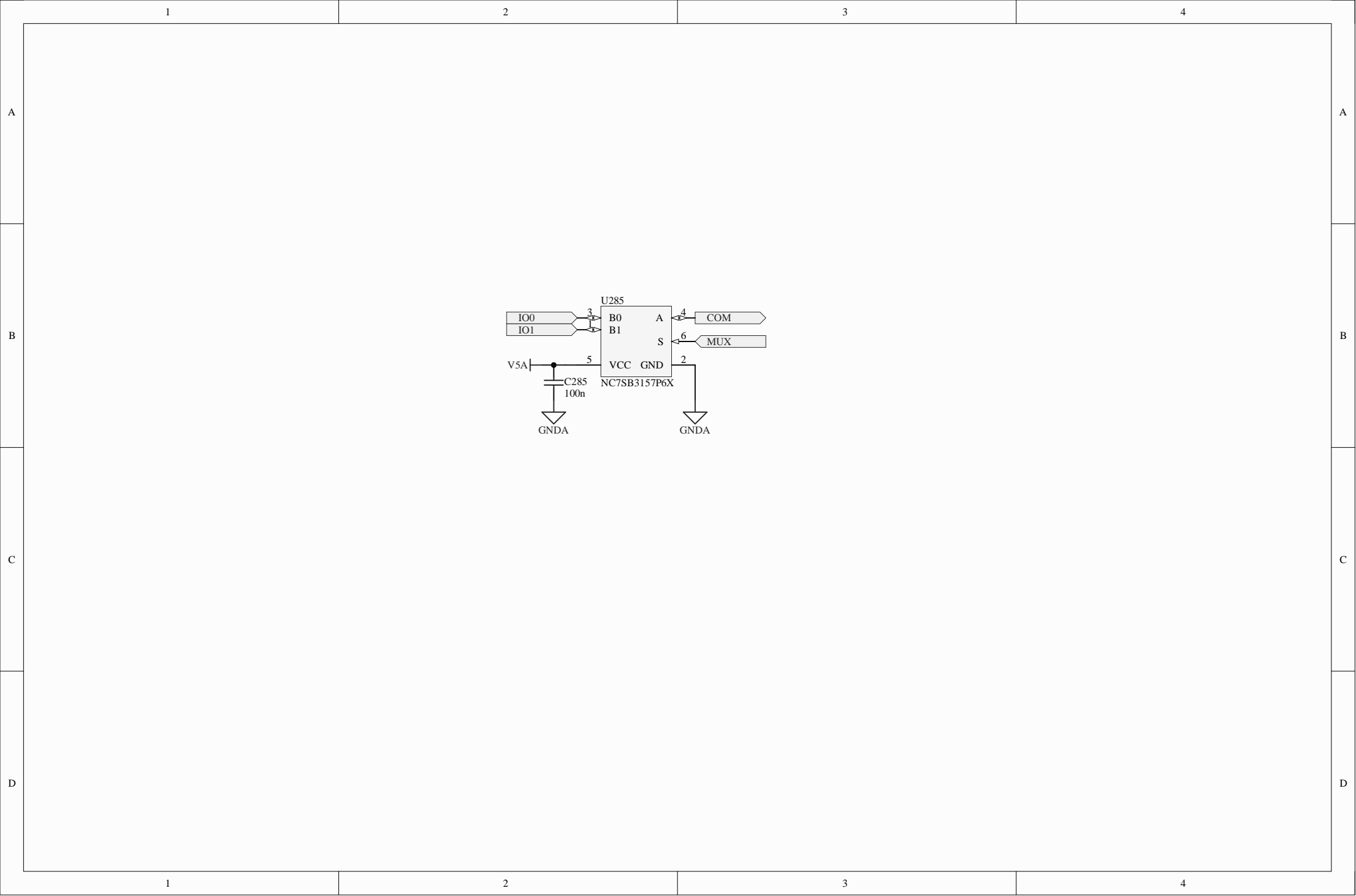


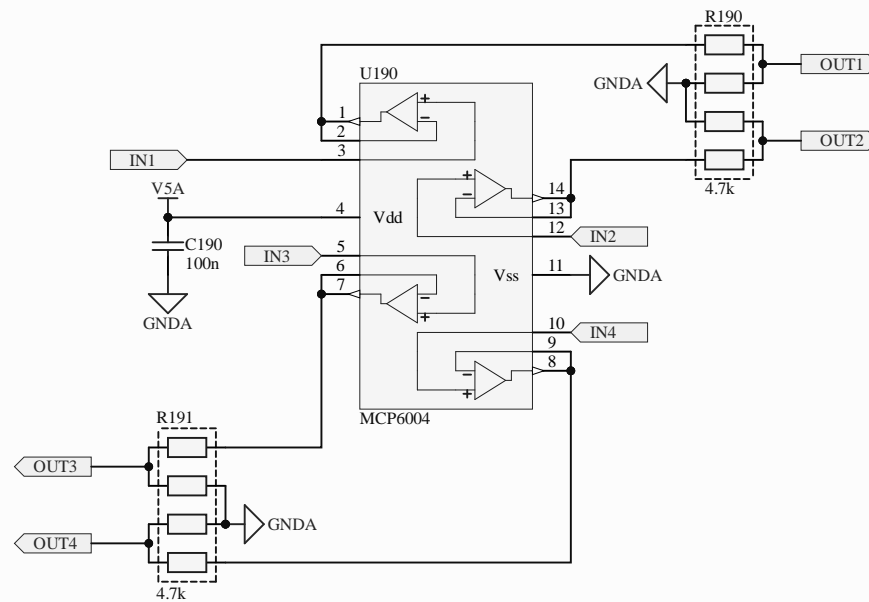




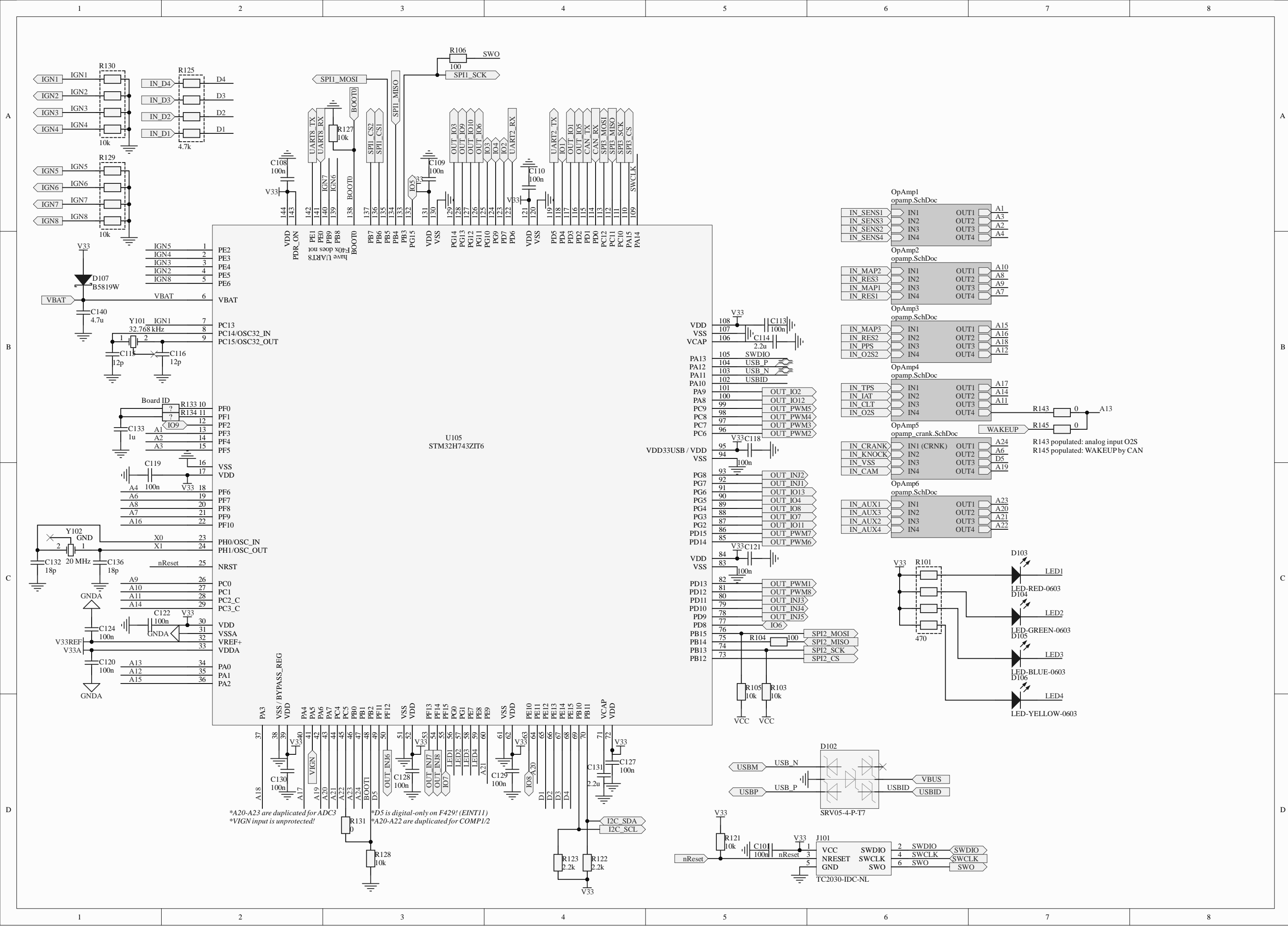












A

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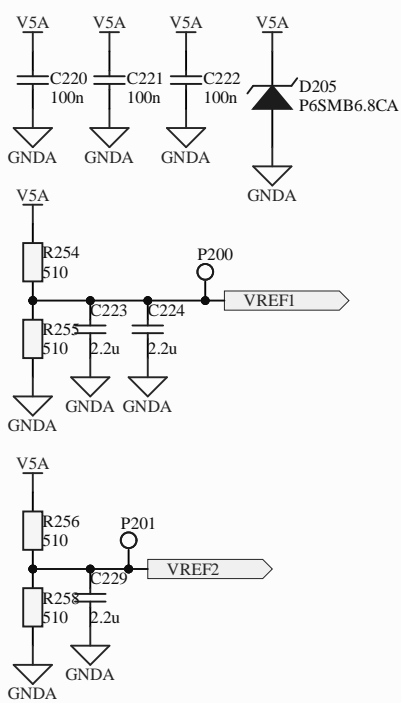
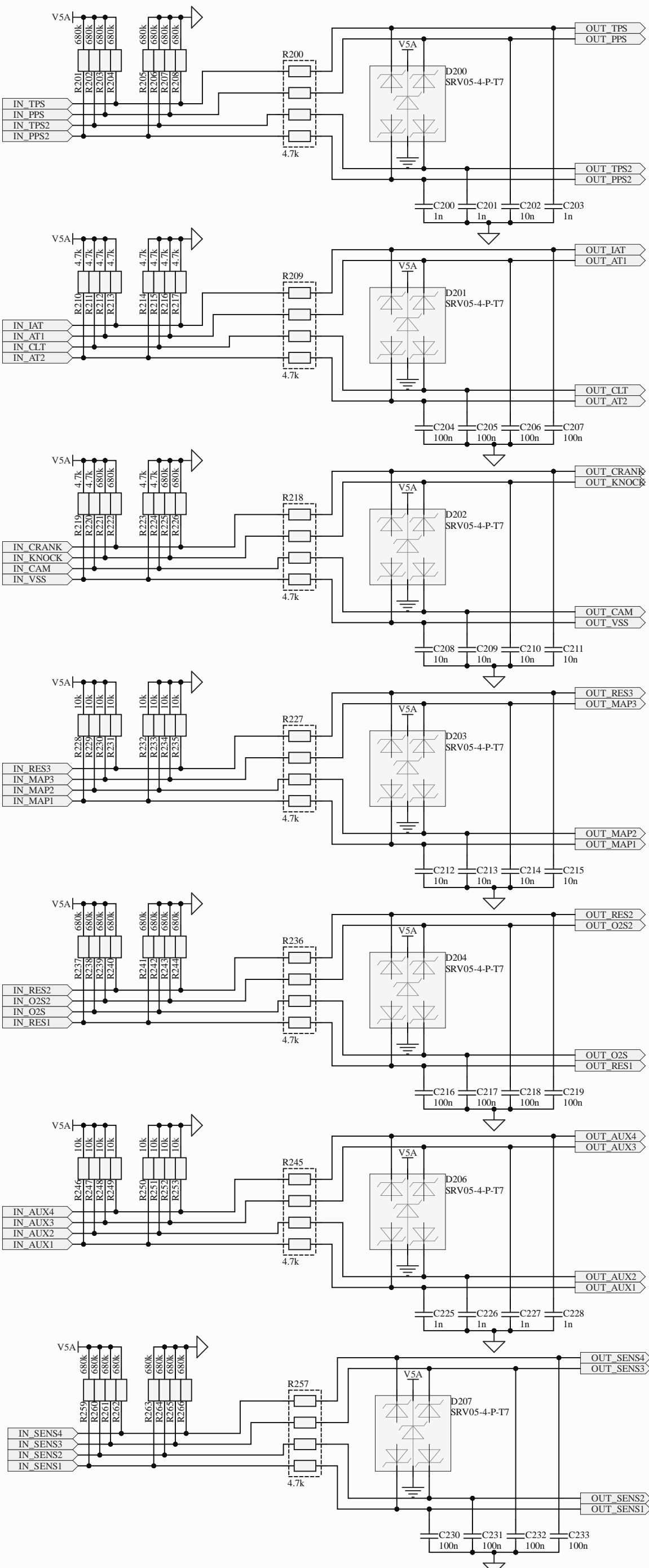
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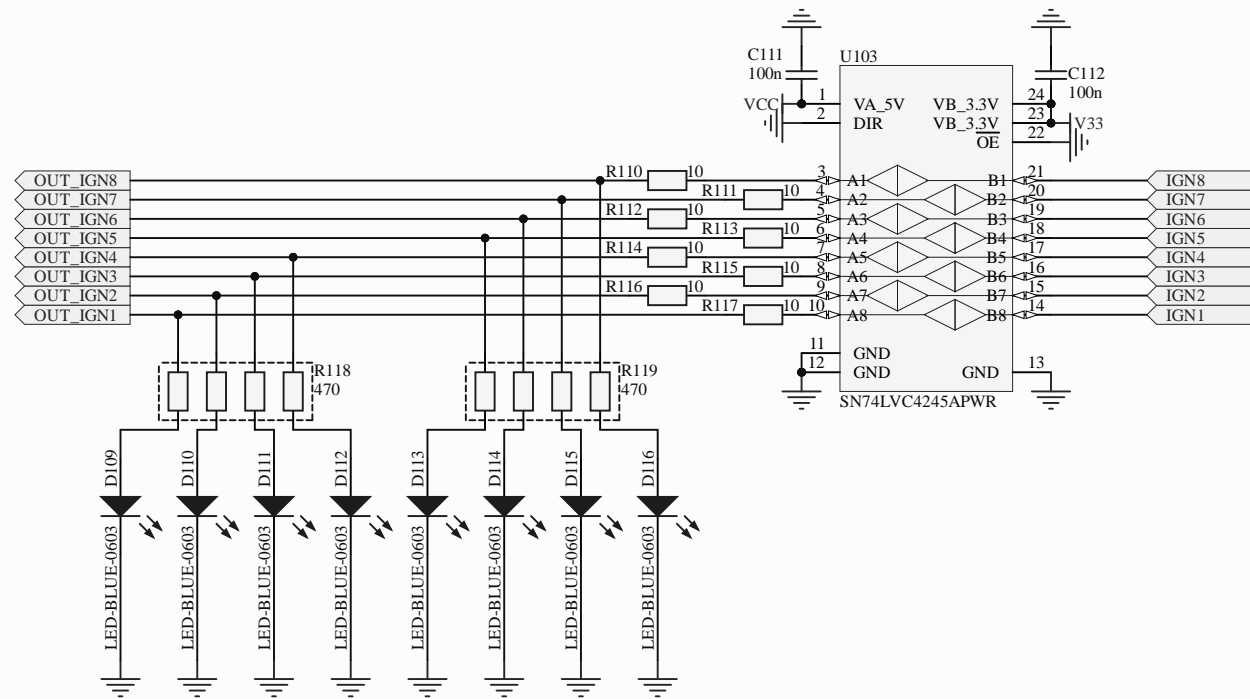
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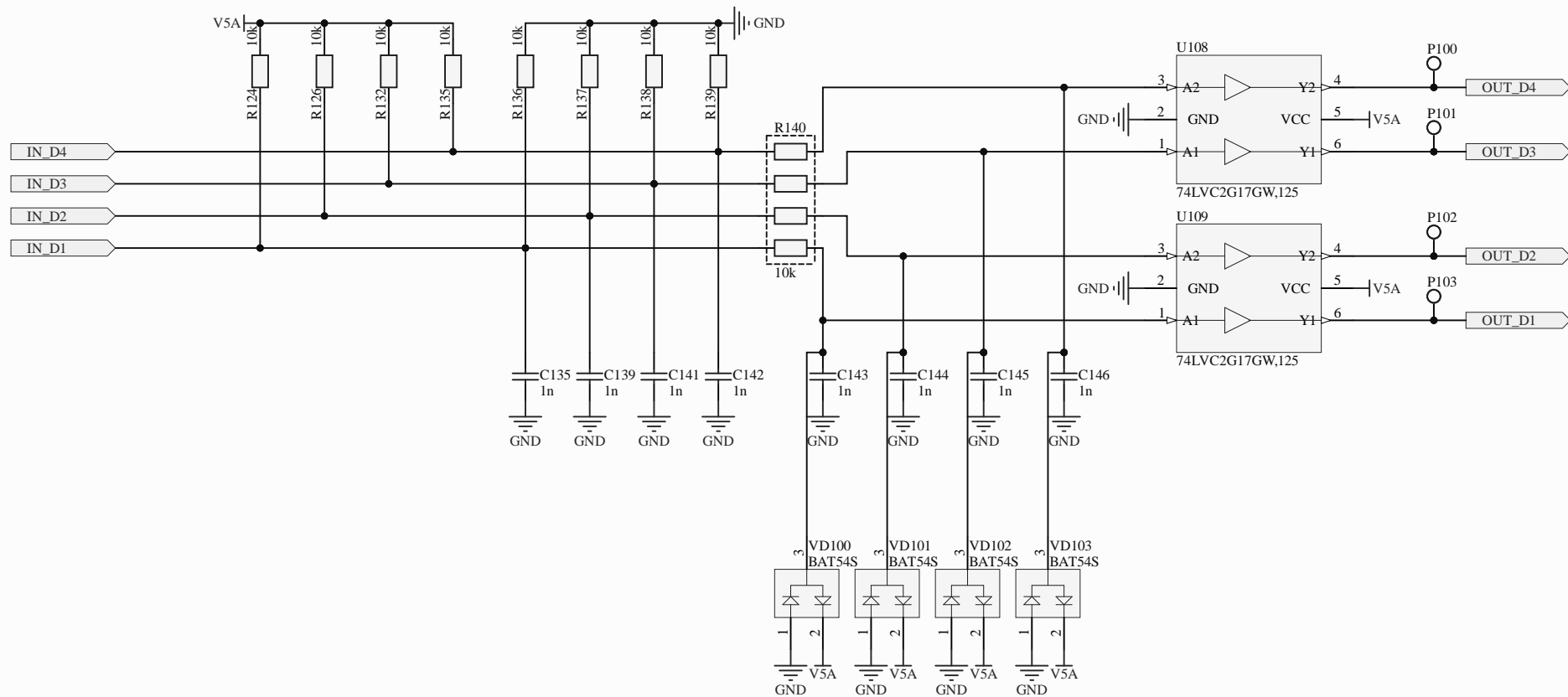
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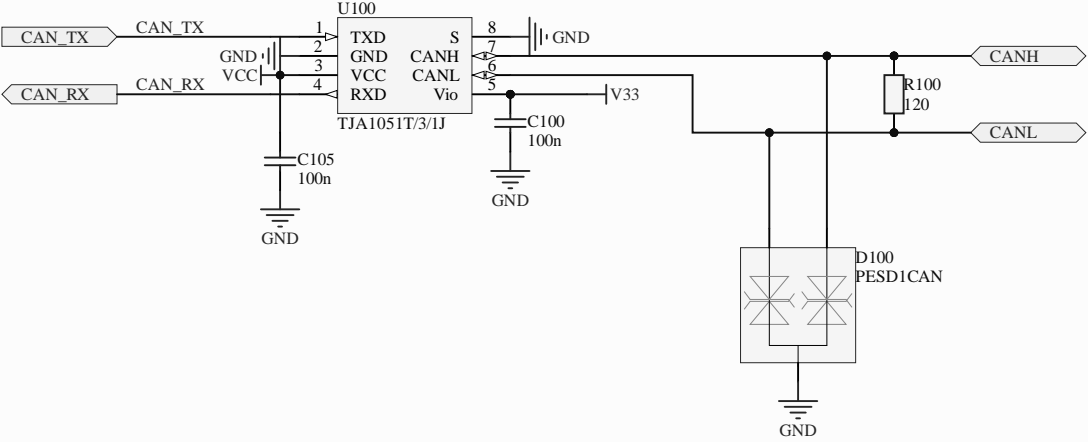
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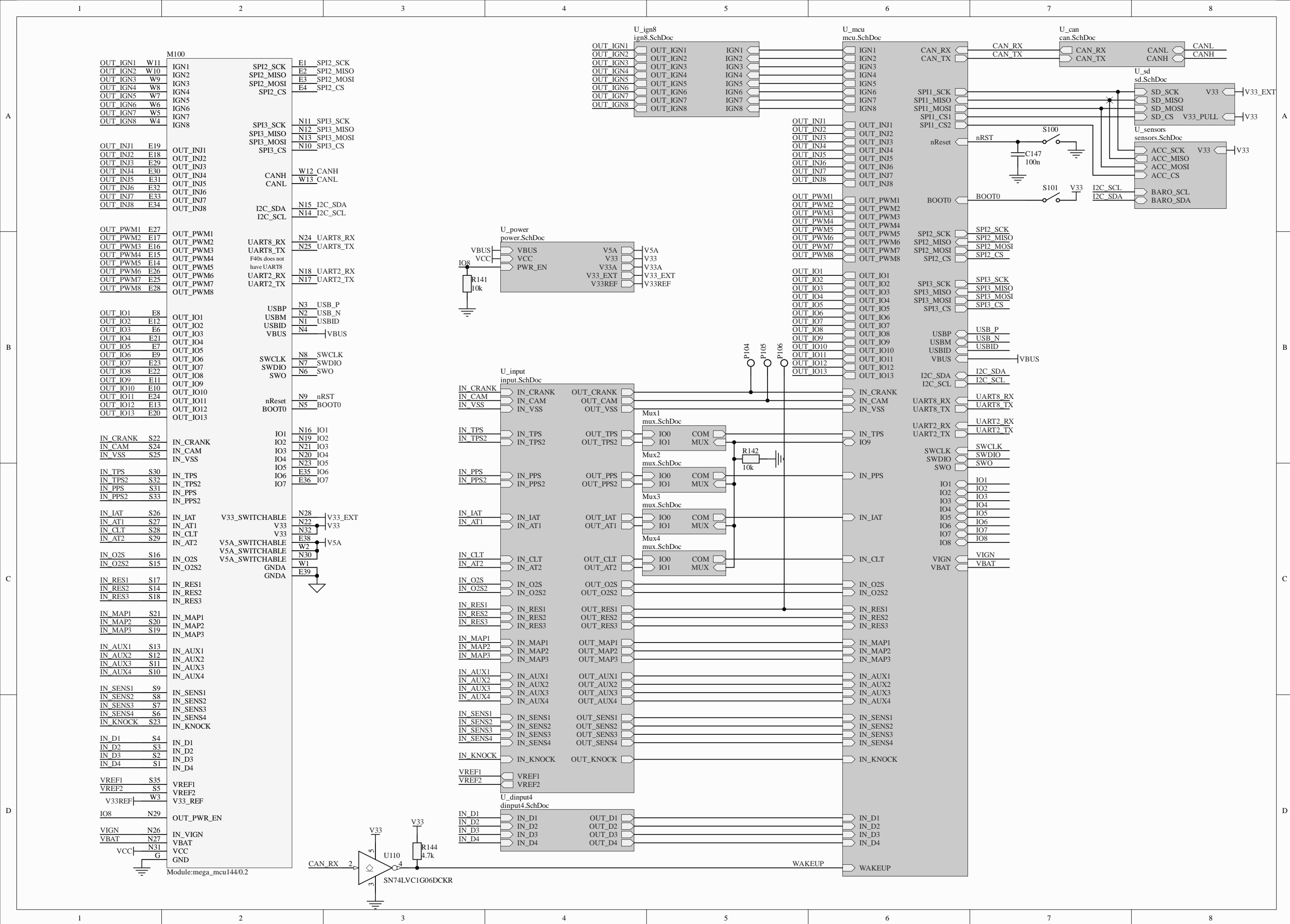
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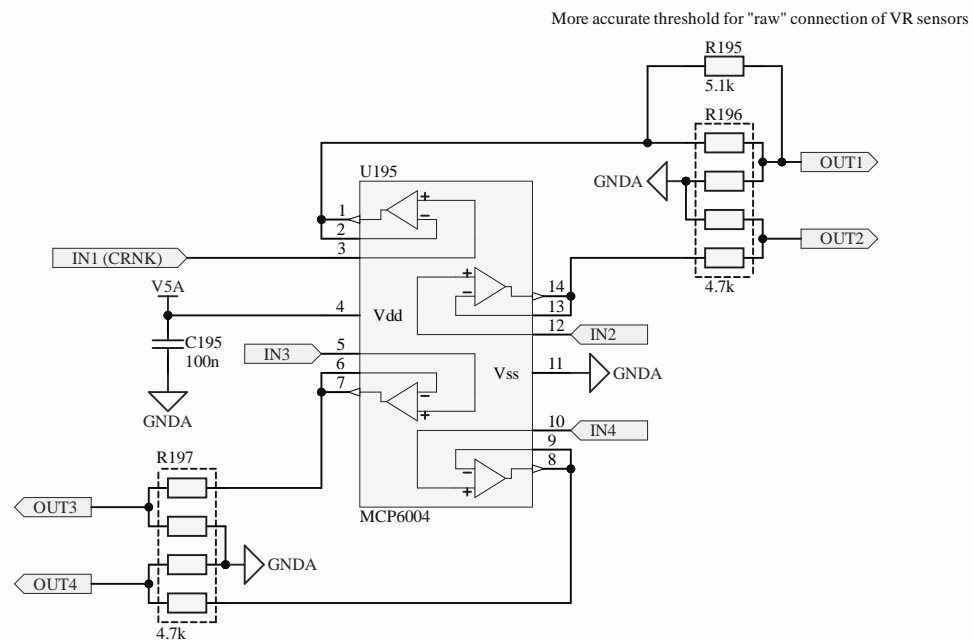


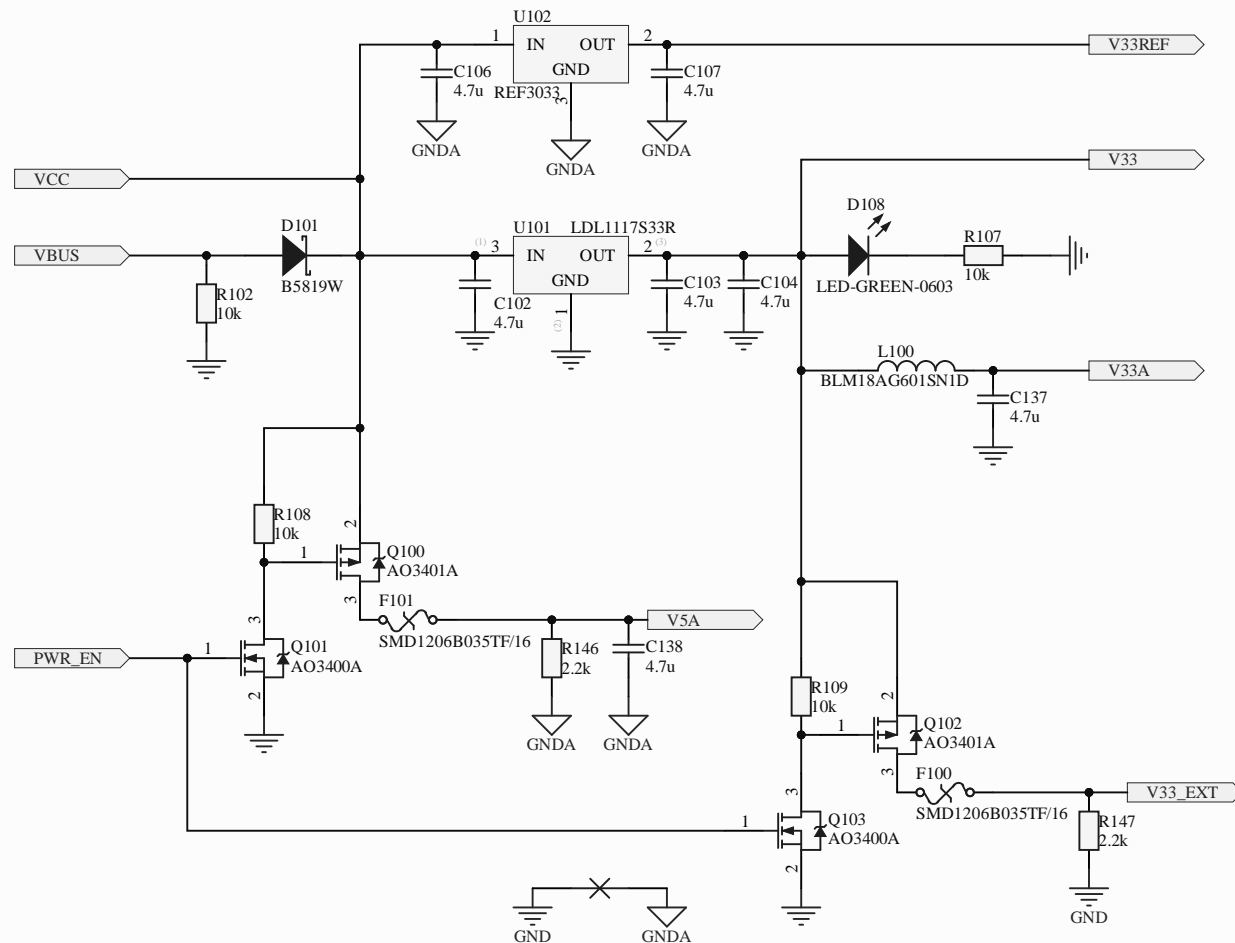




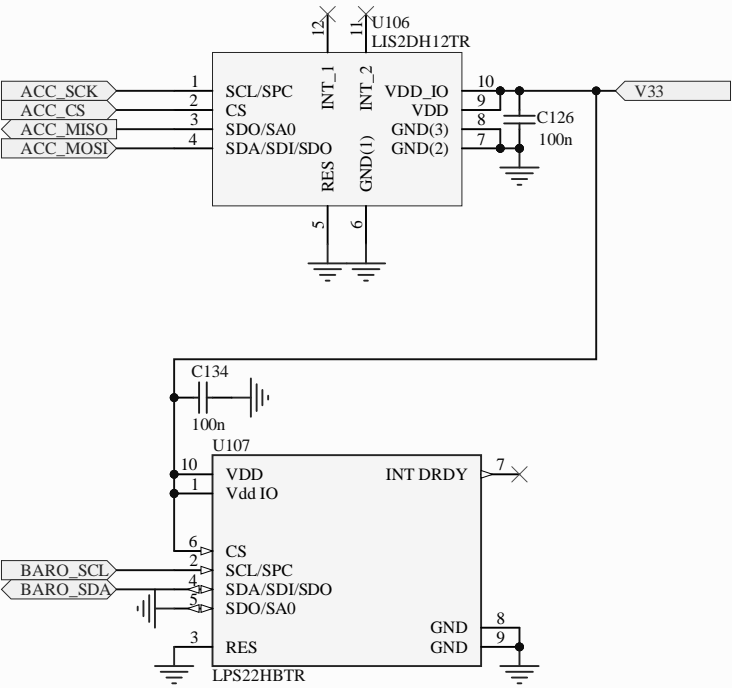


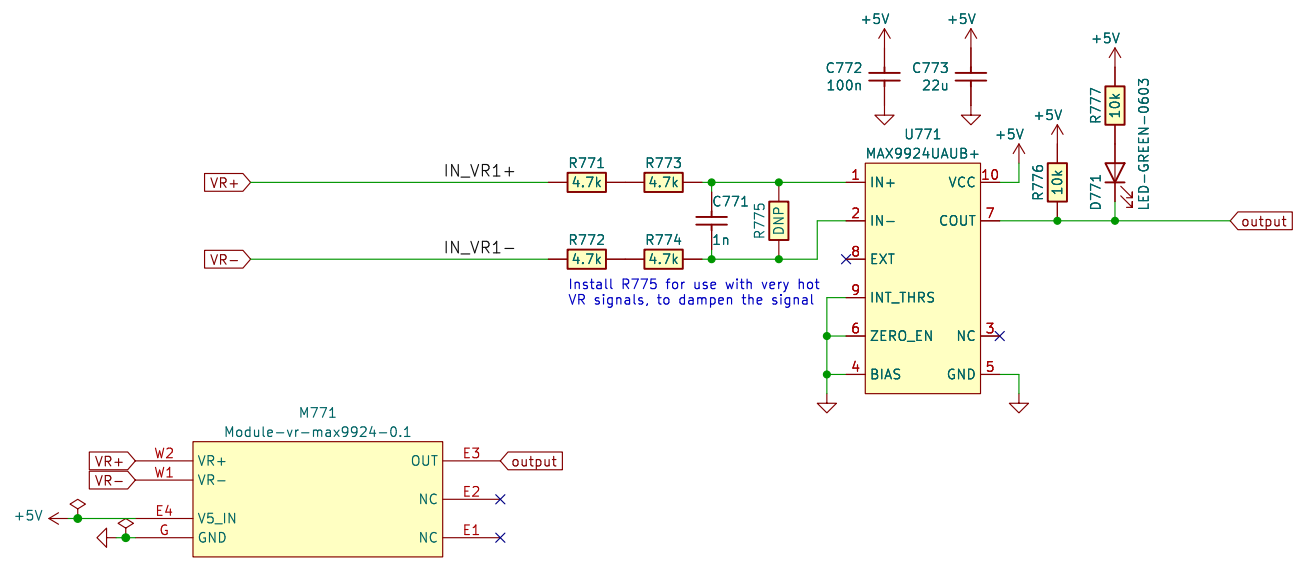






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| KiCad E.D.A. eeschema 7.0.9 | | Id: 1/1 |

