

MCU

File: mcu.kicad_sch

Sensors

File: sensors.kicad_sch

Bluetooth

File: bluetooth.kicad_sch

Outputs

File: outputs.kicad_sch

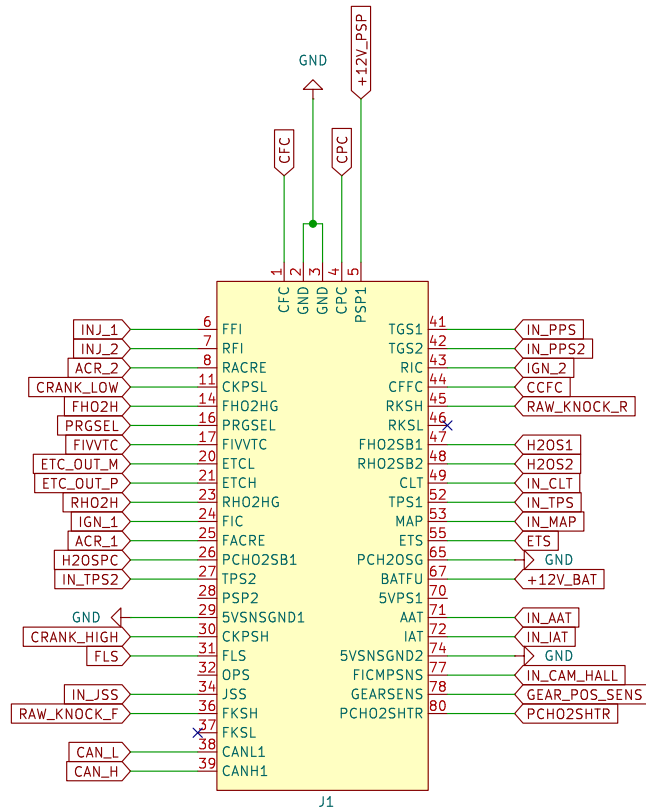
TODO:

Do we need to connect PSP2? Like connect it directly to PSP1 or sth? Measure at OEM ECU.

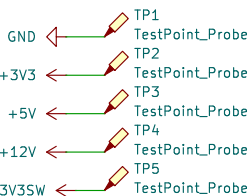
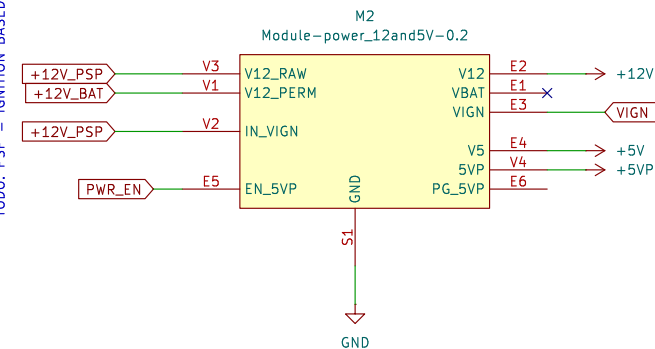
DONE: GEARSSENS analyze the signal -> Kind of analog?

DONE: AM POSITION = FICMPSNS Hall effect or what is that?

Knock Sensor LOW signals not needed?



TODO: PSP = IGNITION BASED?



Hellen-Bremen

Sheet: /
File: hellenbremen.kicad_sch

Title:

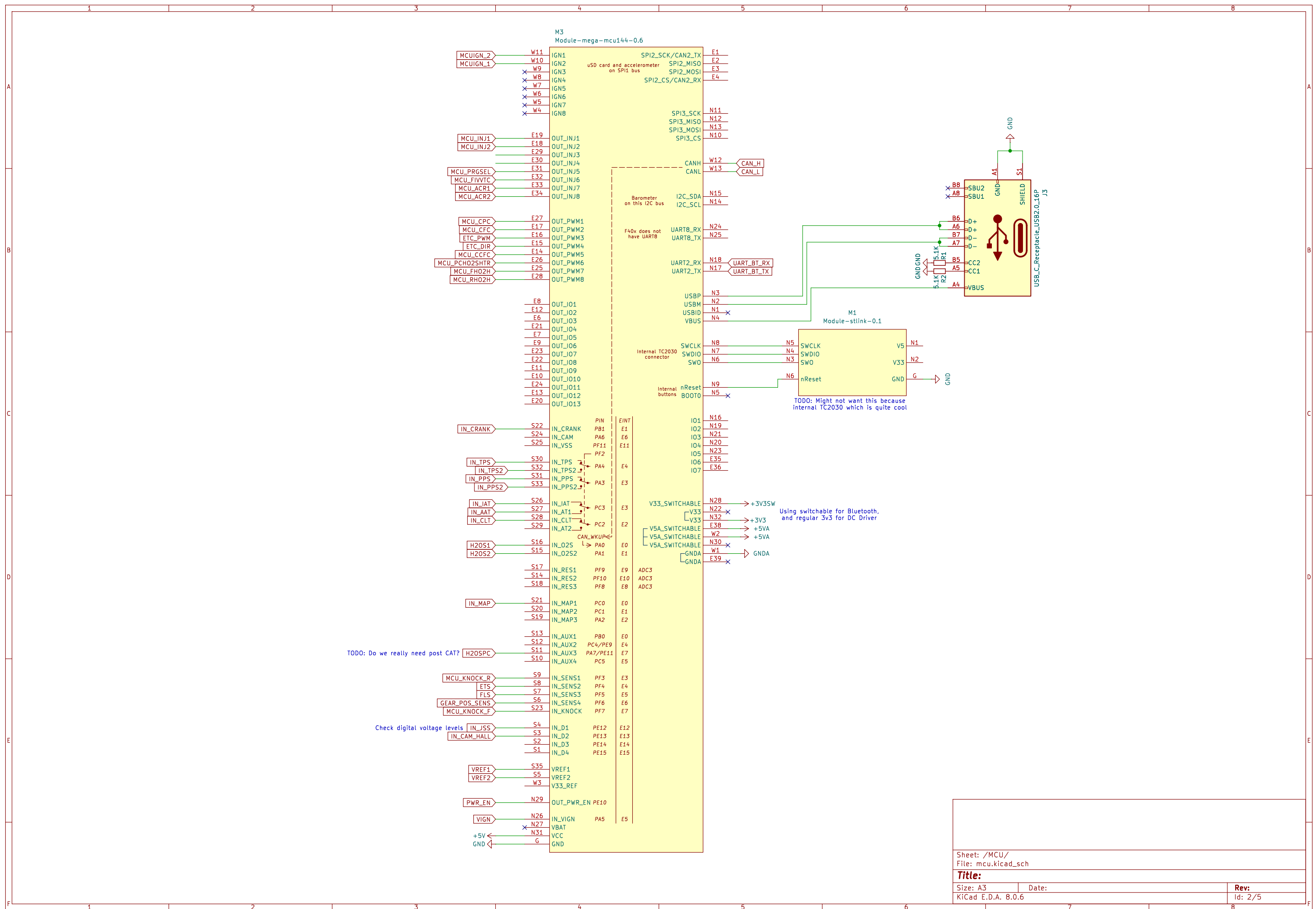
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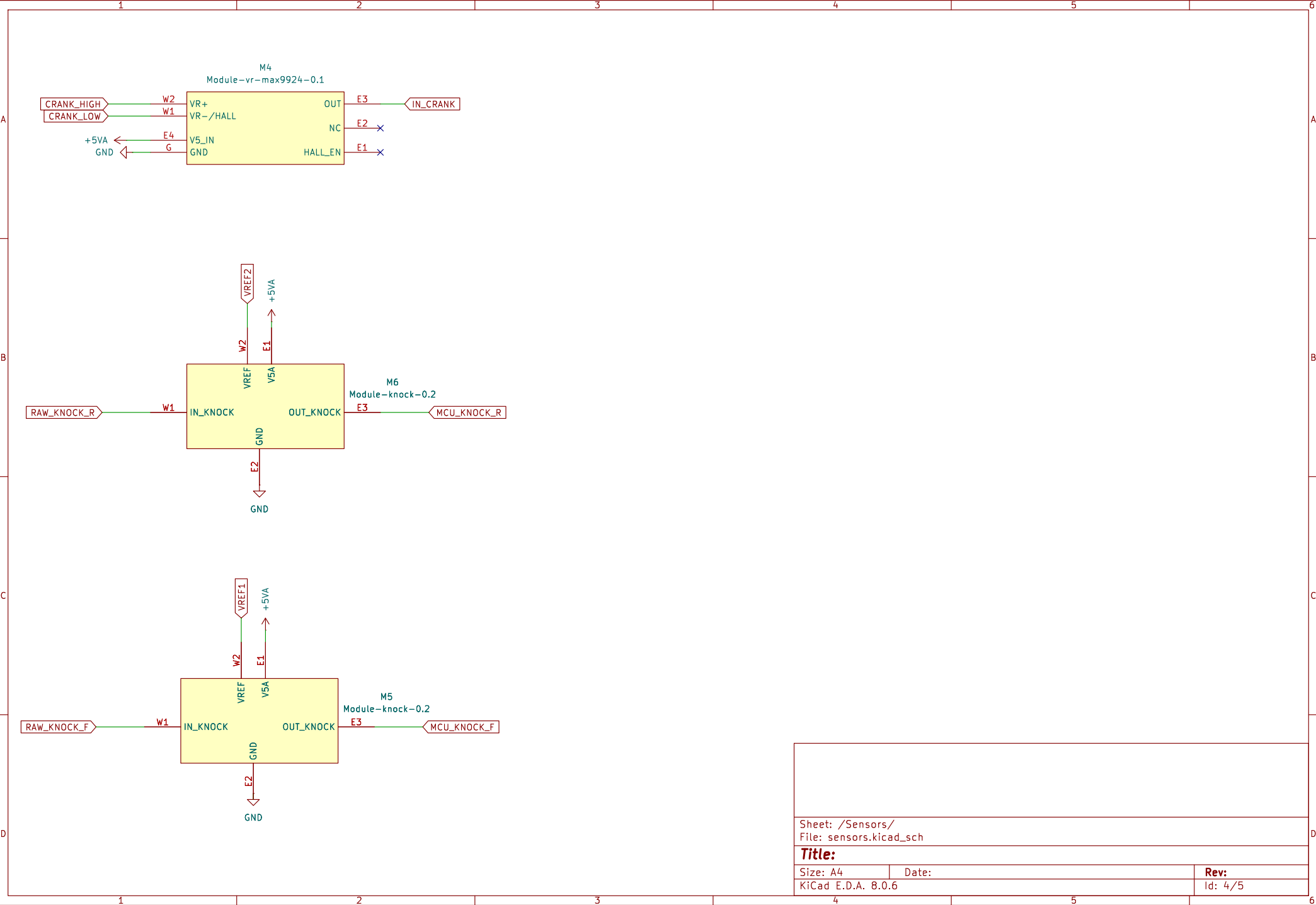
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KiCad E.D.A. 8.0.6

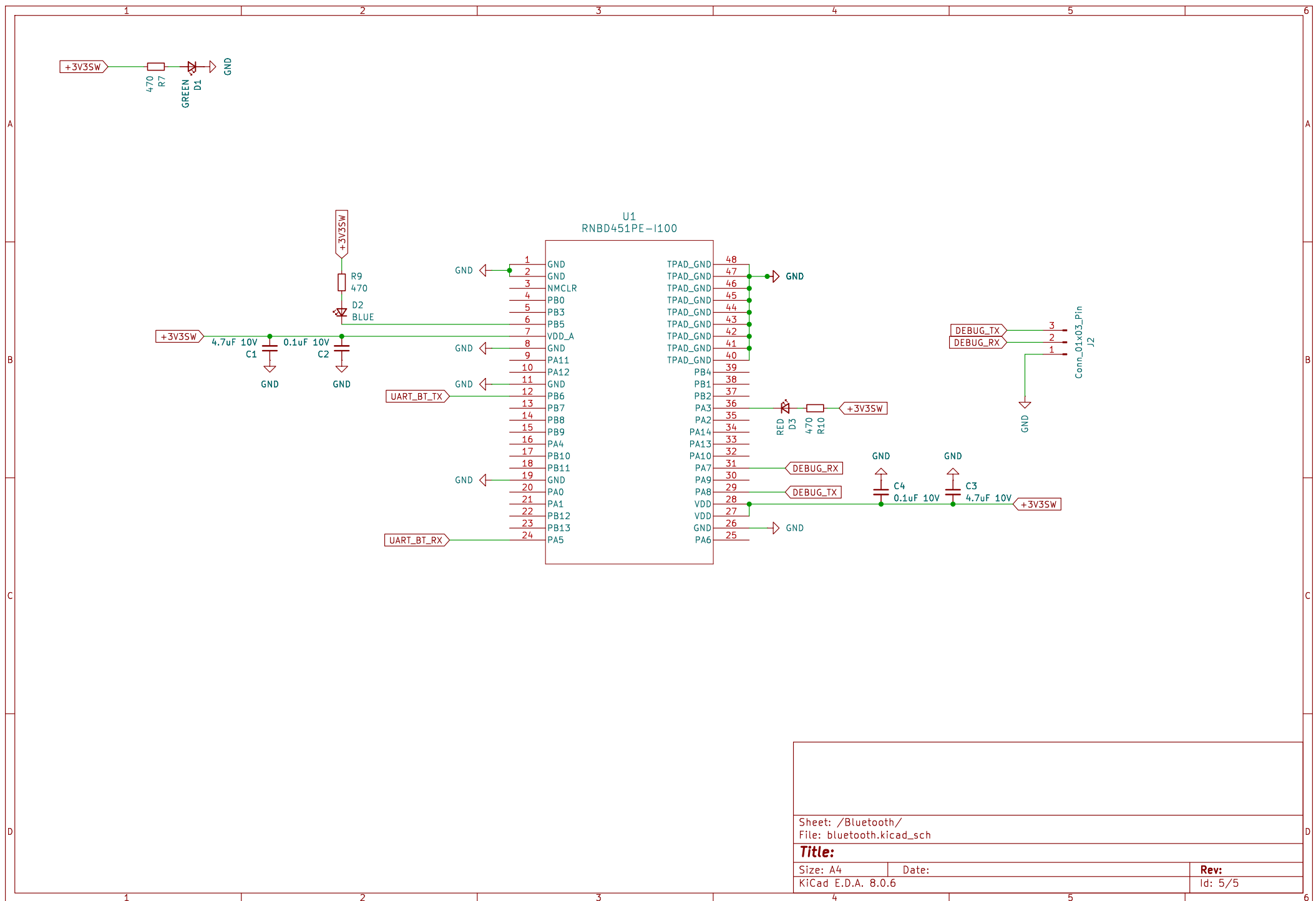
Rev: A

Id: 1/5

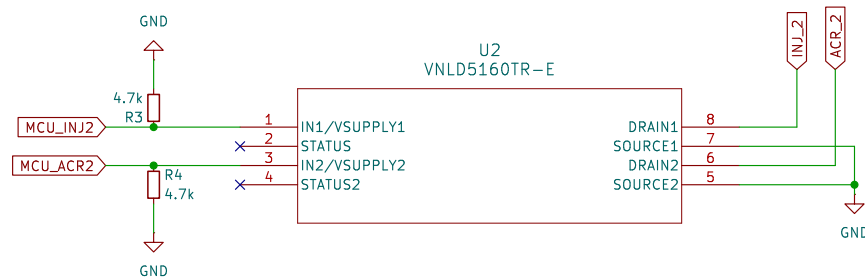




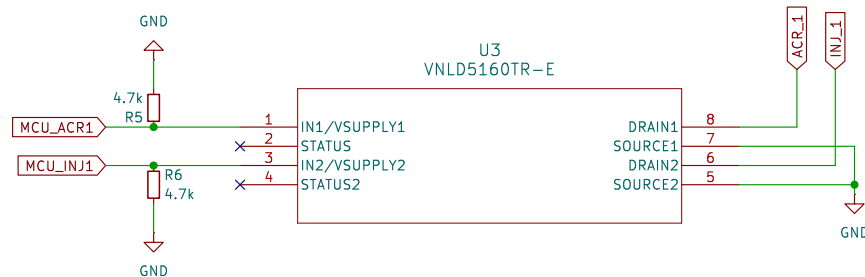
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Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. 8.0.6	Id: 4/5	



INJECTORS & ACR



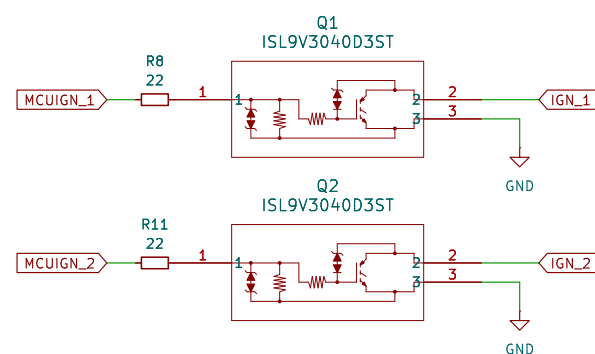
INJECTORS MEASURED TO TAKE MAX 1A EACH WHEN OPEN



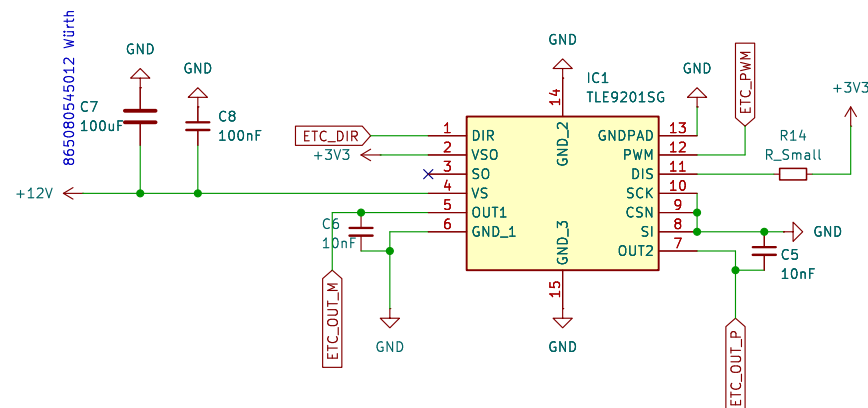
Harley Uses:

<https://www.mouser.de/ProductDetail/onsemi/FGB3040G2-F085C?qs=2WXlatMagcHzMRj1hscbYQ%3D%3D>

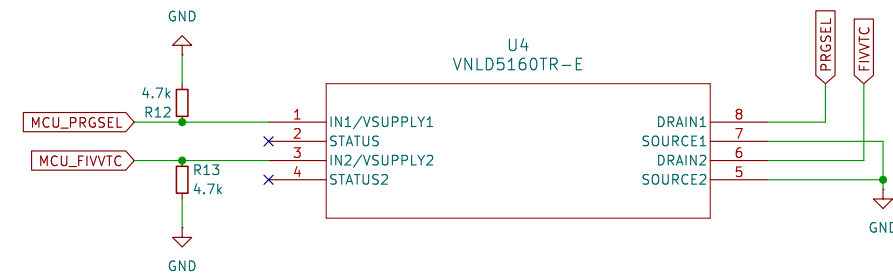
IGNITION



Electronic Throttle



PURGE & VVT SOLENOIDS



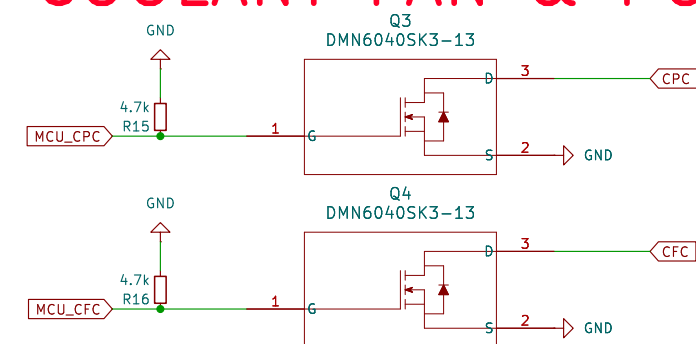
COOLANT FAN PULLS AROUND 4A WHEN CONSTANT 100%,
INITIALLY PULLING UP TO 8A FOR GETTING SPINNING
HARLEY USES: HUFA76429D3

HARLEY USES: HUFA76429D3

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

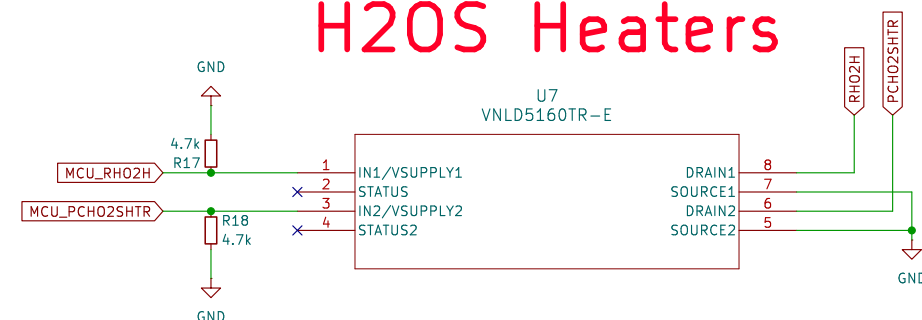
AND: <https://www.digikey.de/de/products/detail/diodes-incorporated/DMN6040SK3-13/8545933>

COOLANT FAN & PUMP

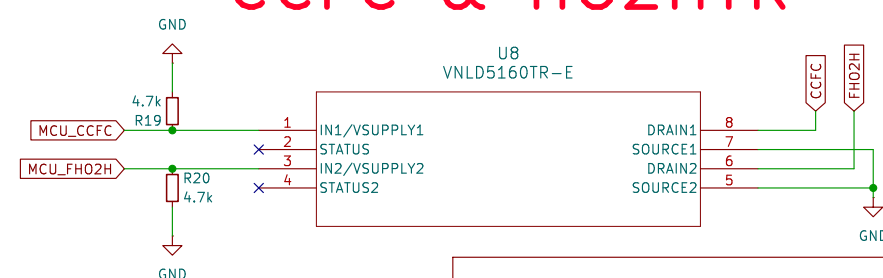


H2OS Heaters are PWM Controlled and max out at about 0.9 Amps at room temperature, then reducing with coming heat

H2S Heaters



CCFC & H₂O/HTR



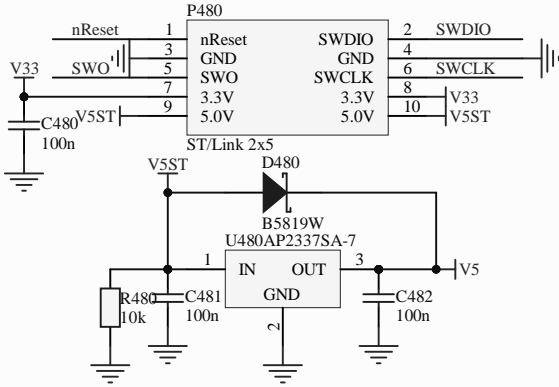
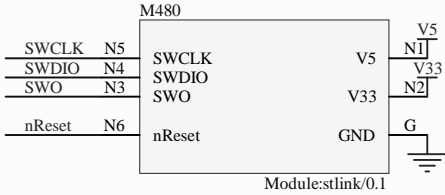
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File: outputs.kicad_sch

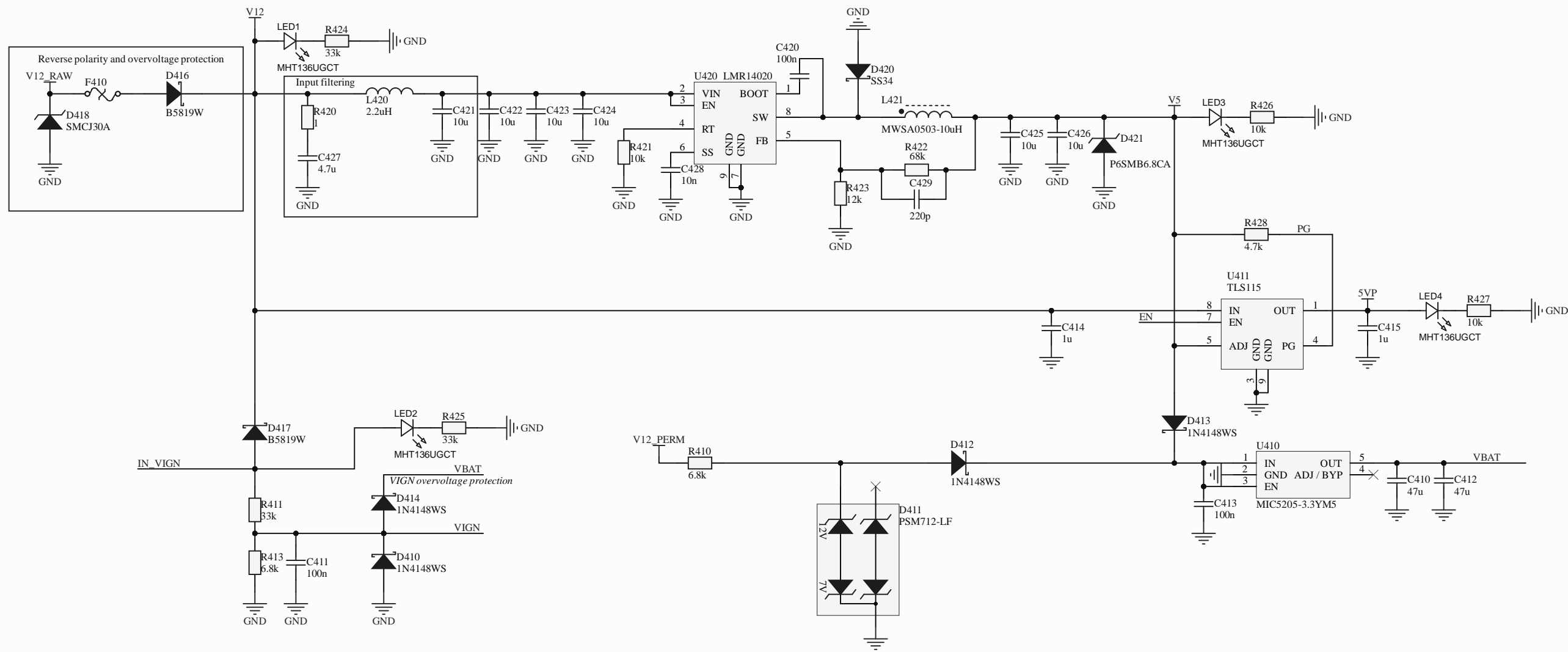
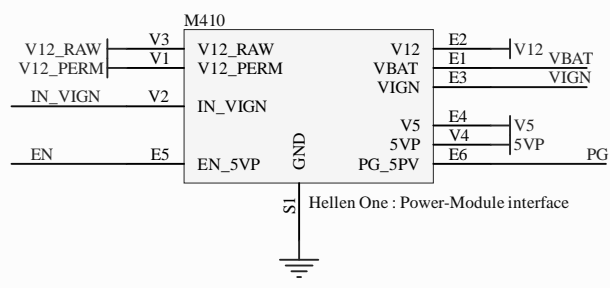
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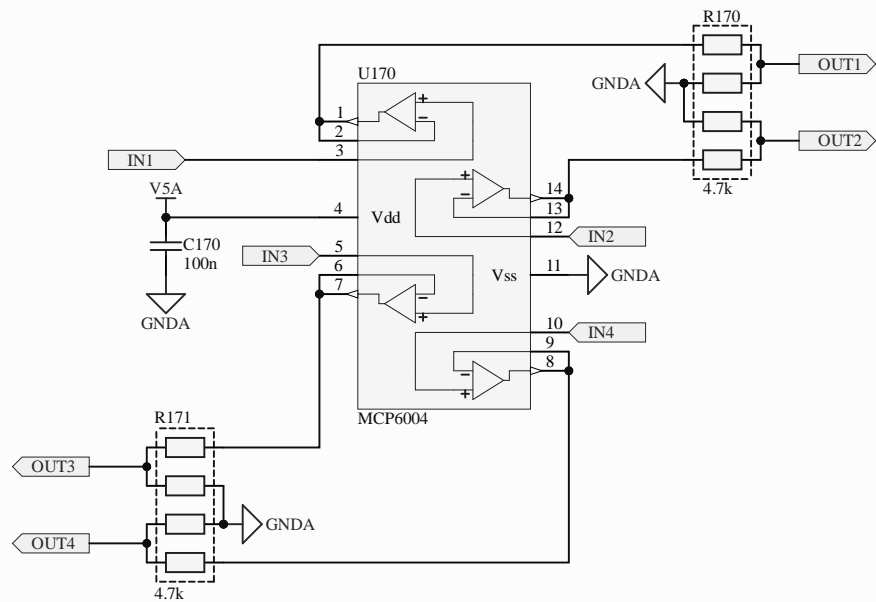
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Date:

Rev:







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B

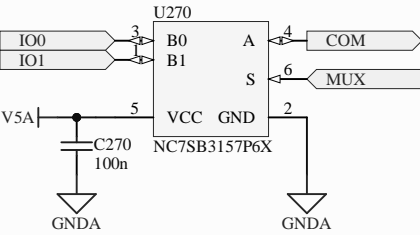
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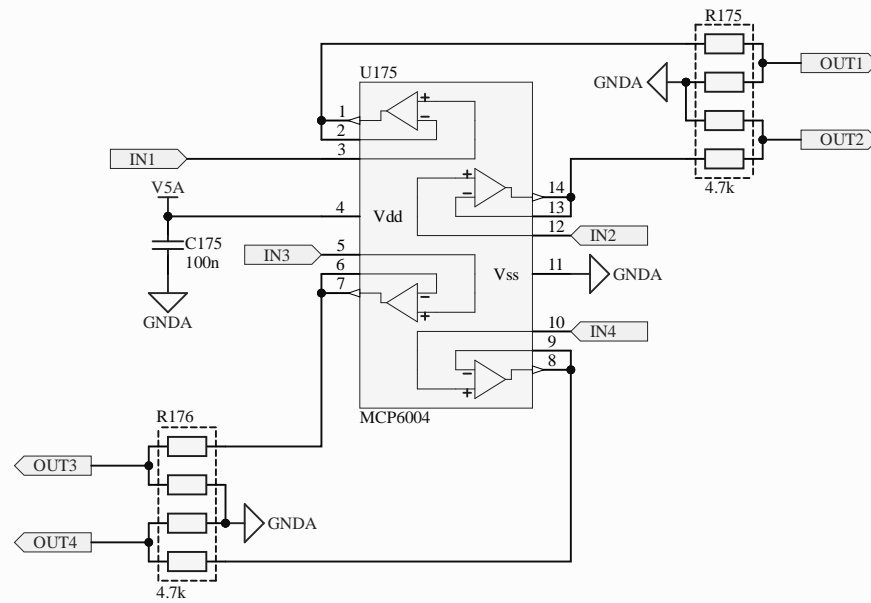
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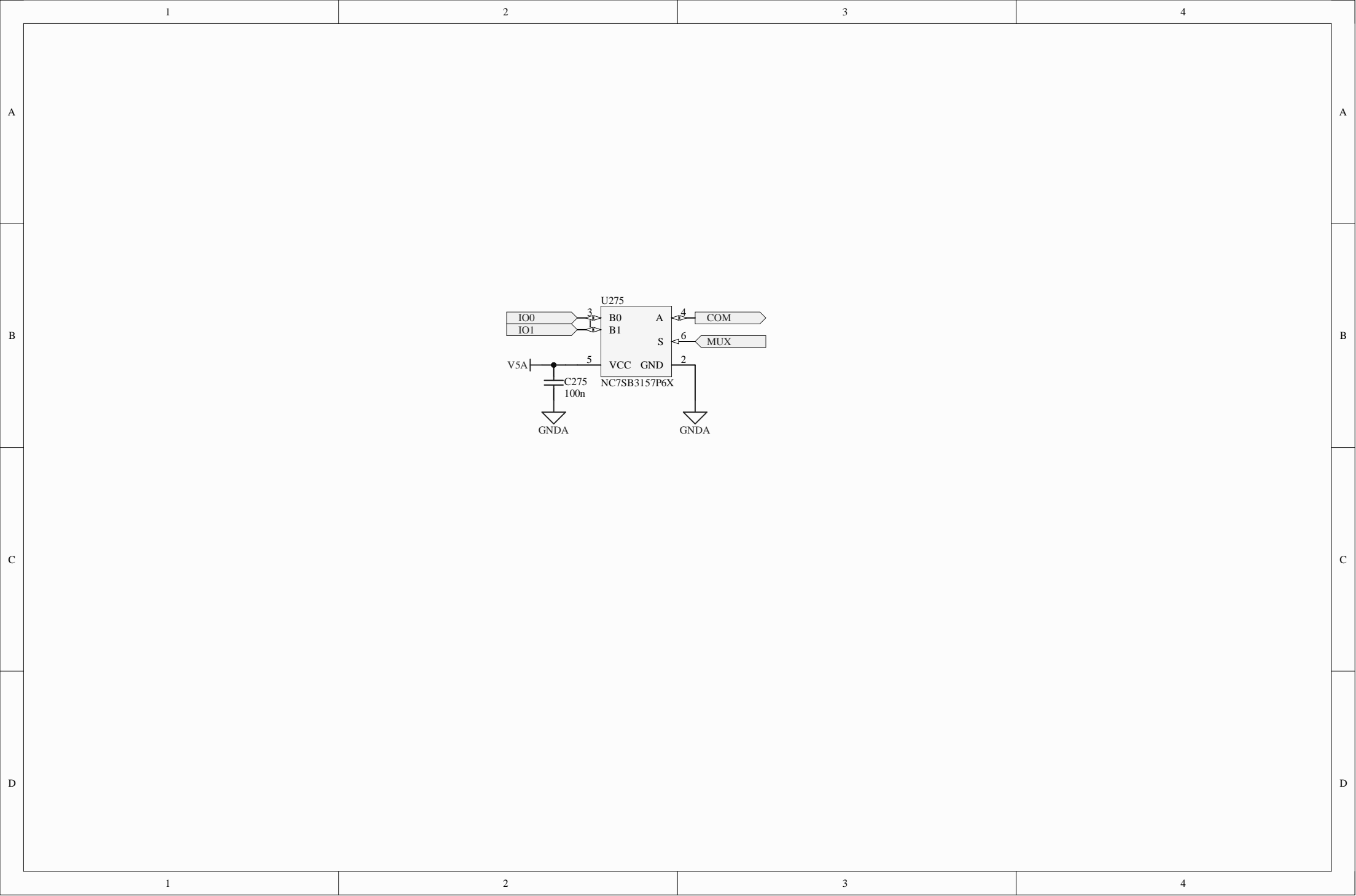
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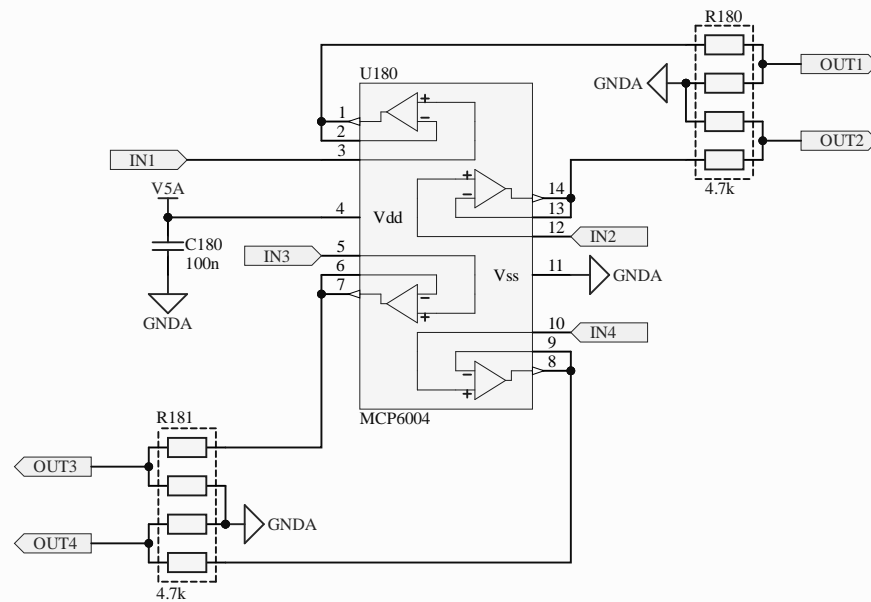
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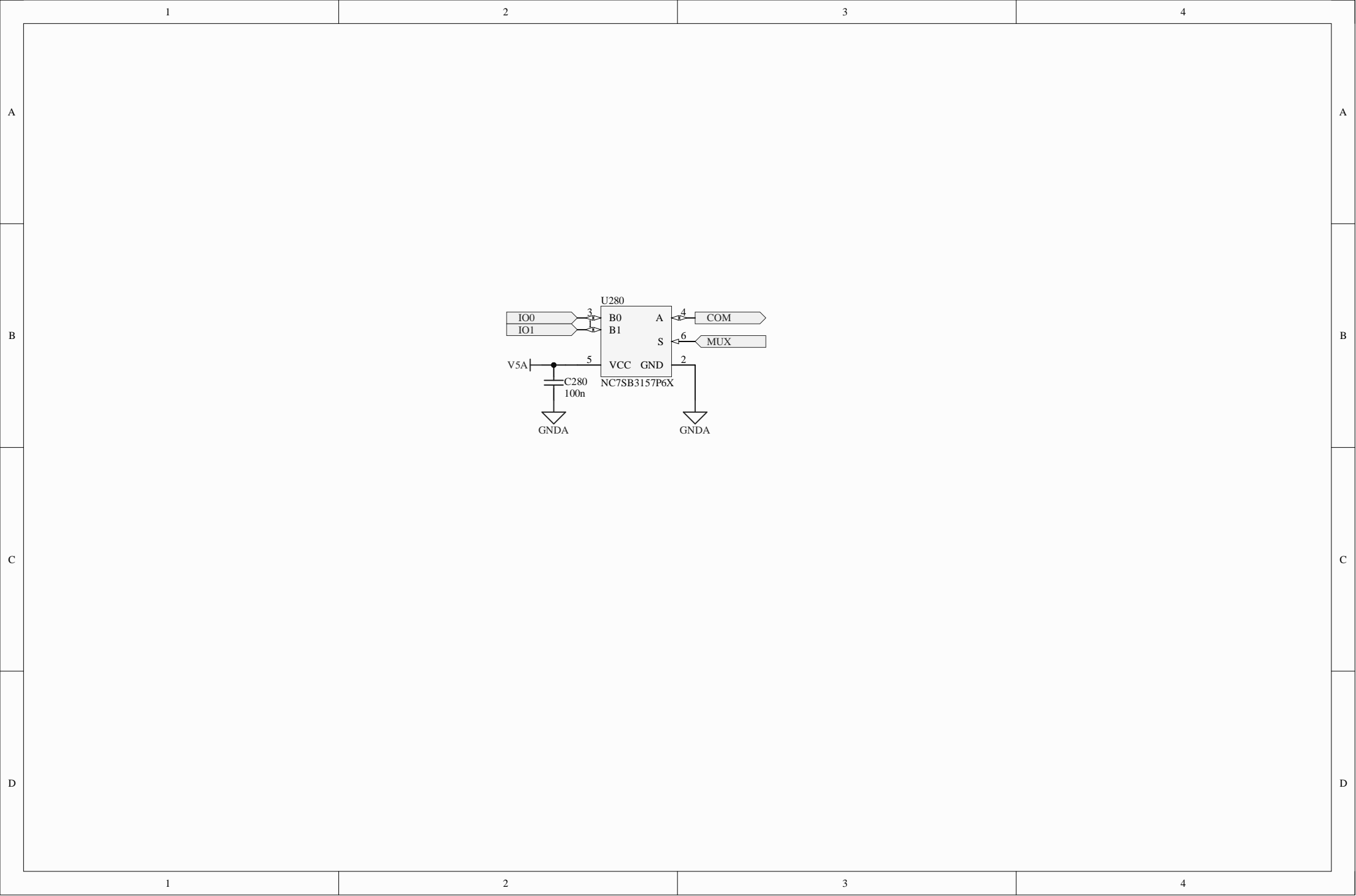
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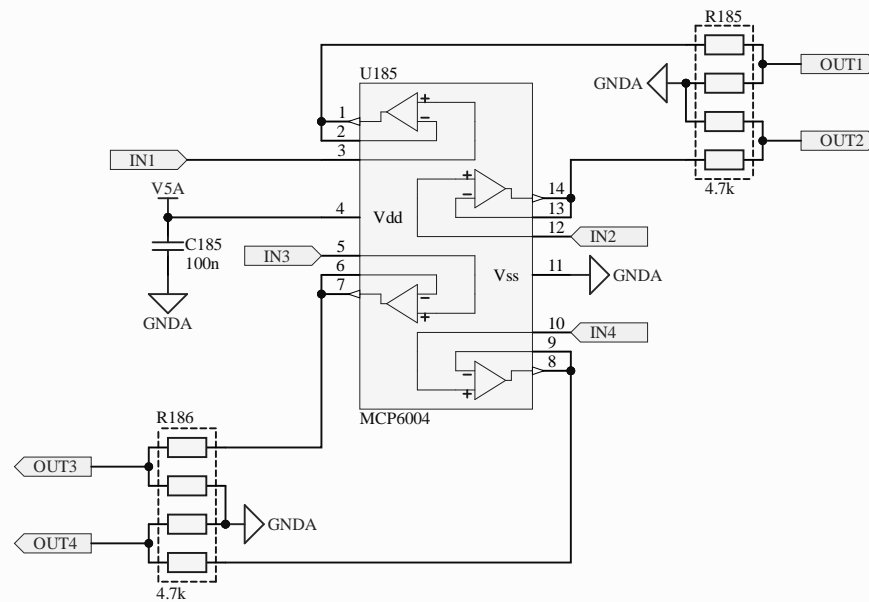


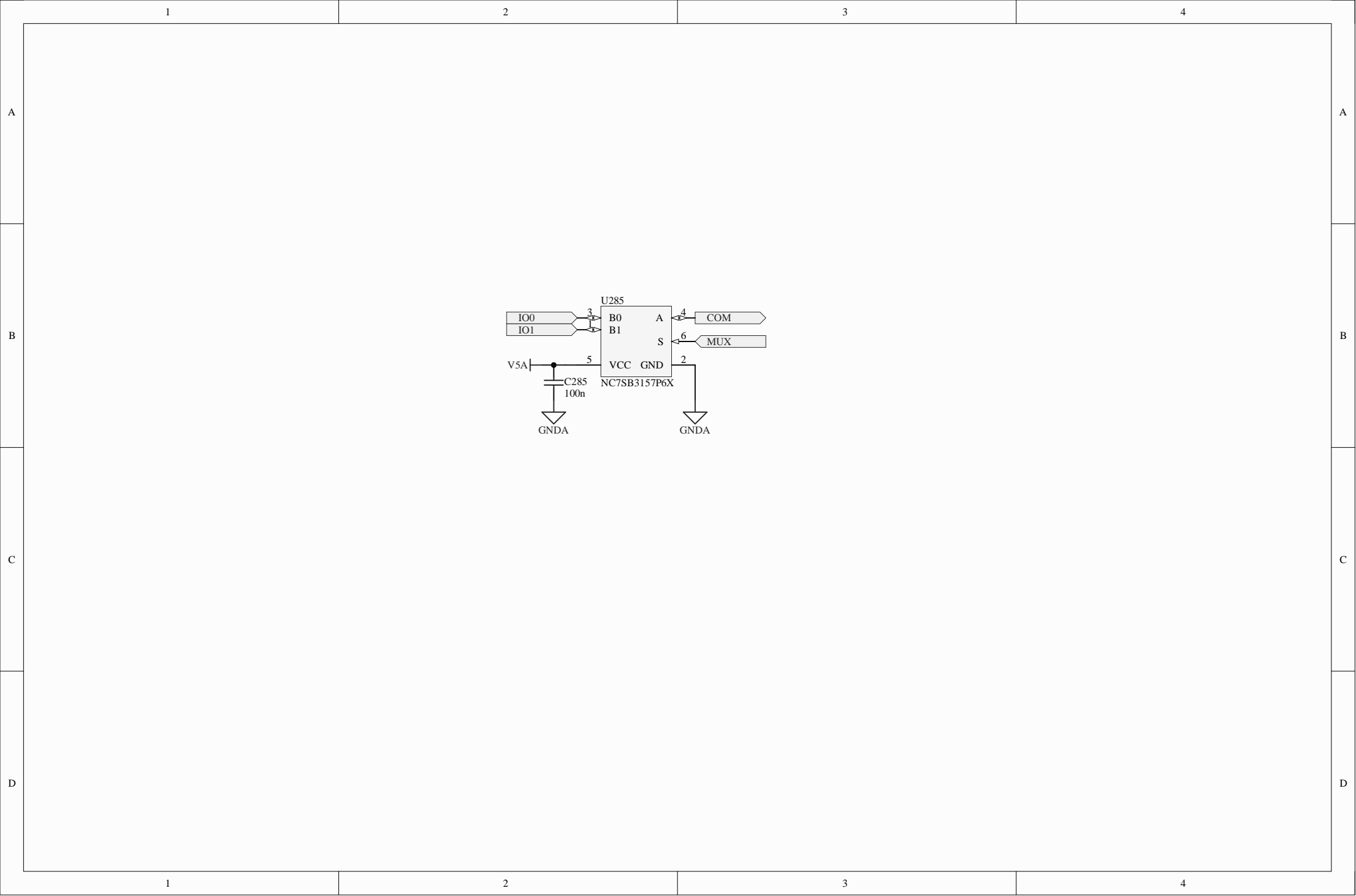


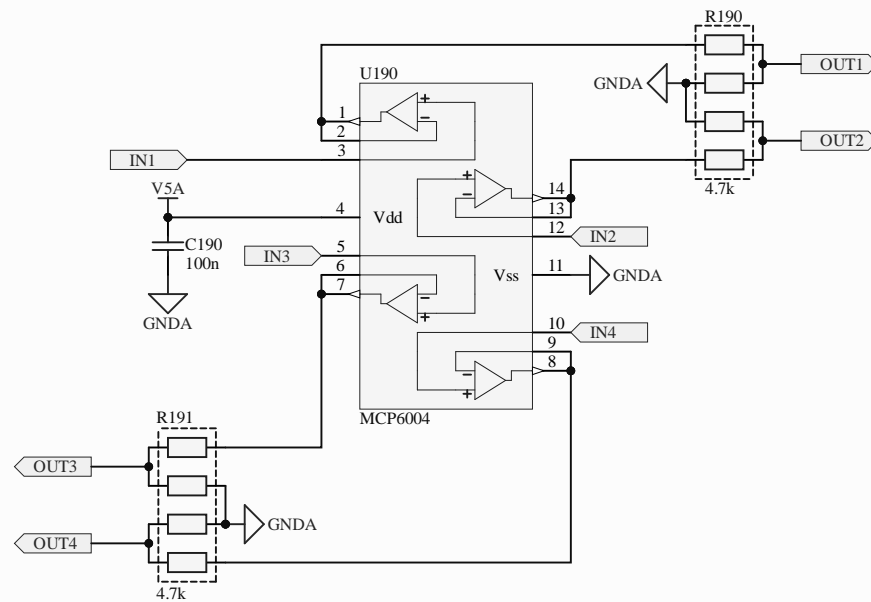




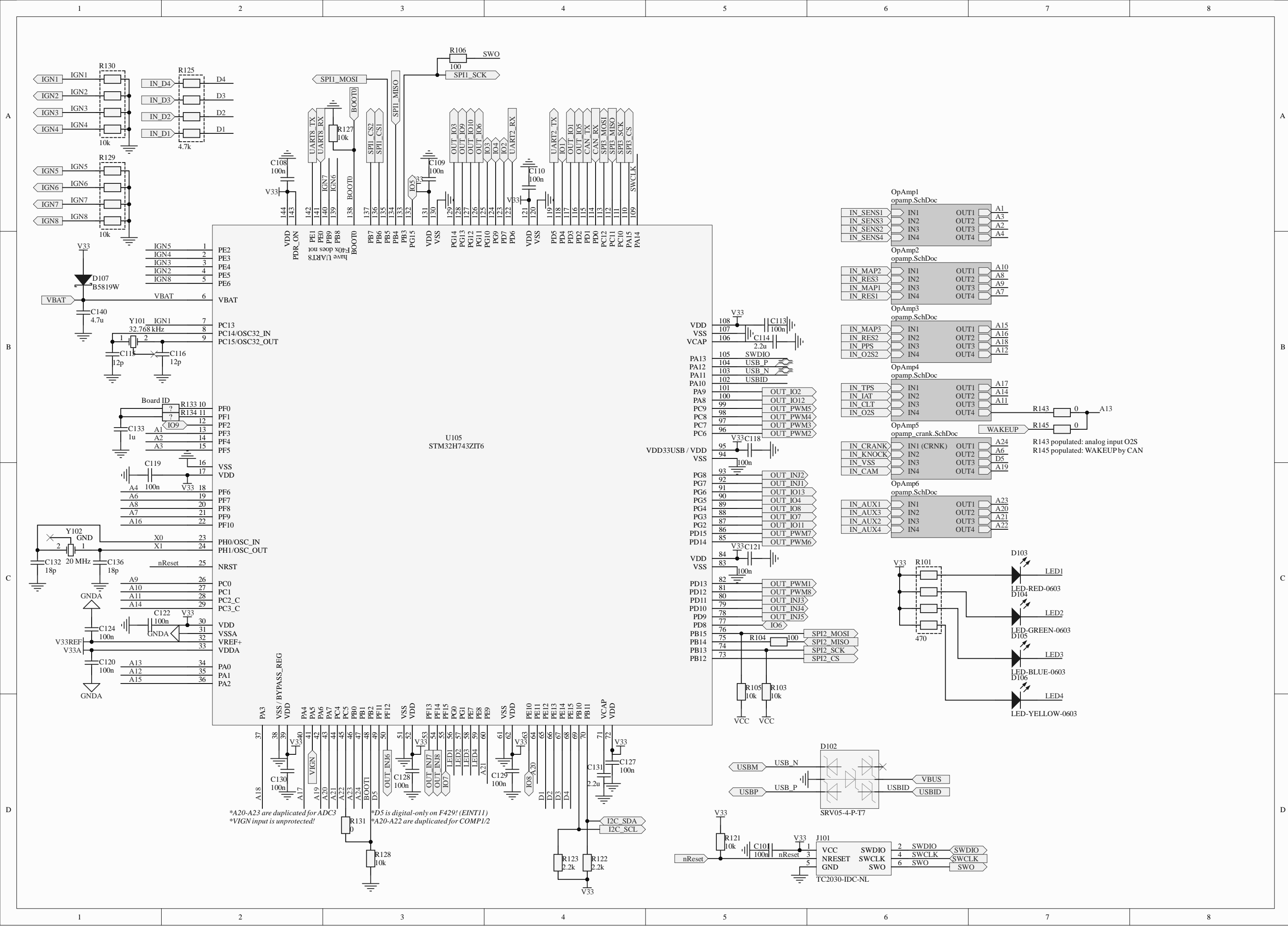












A

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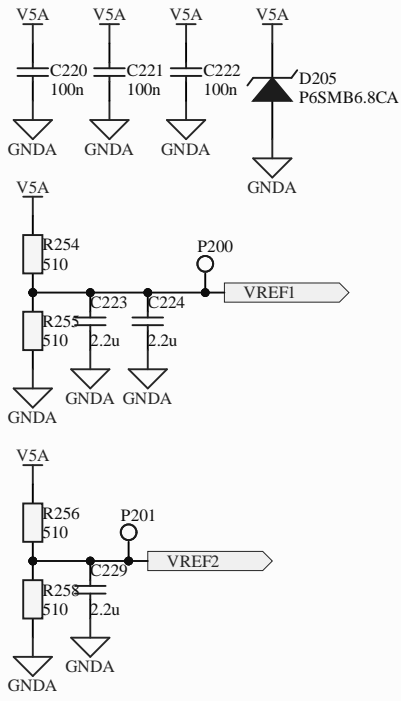
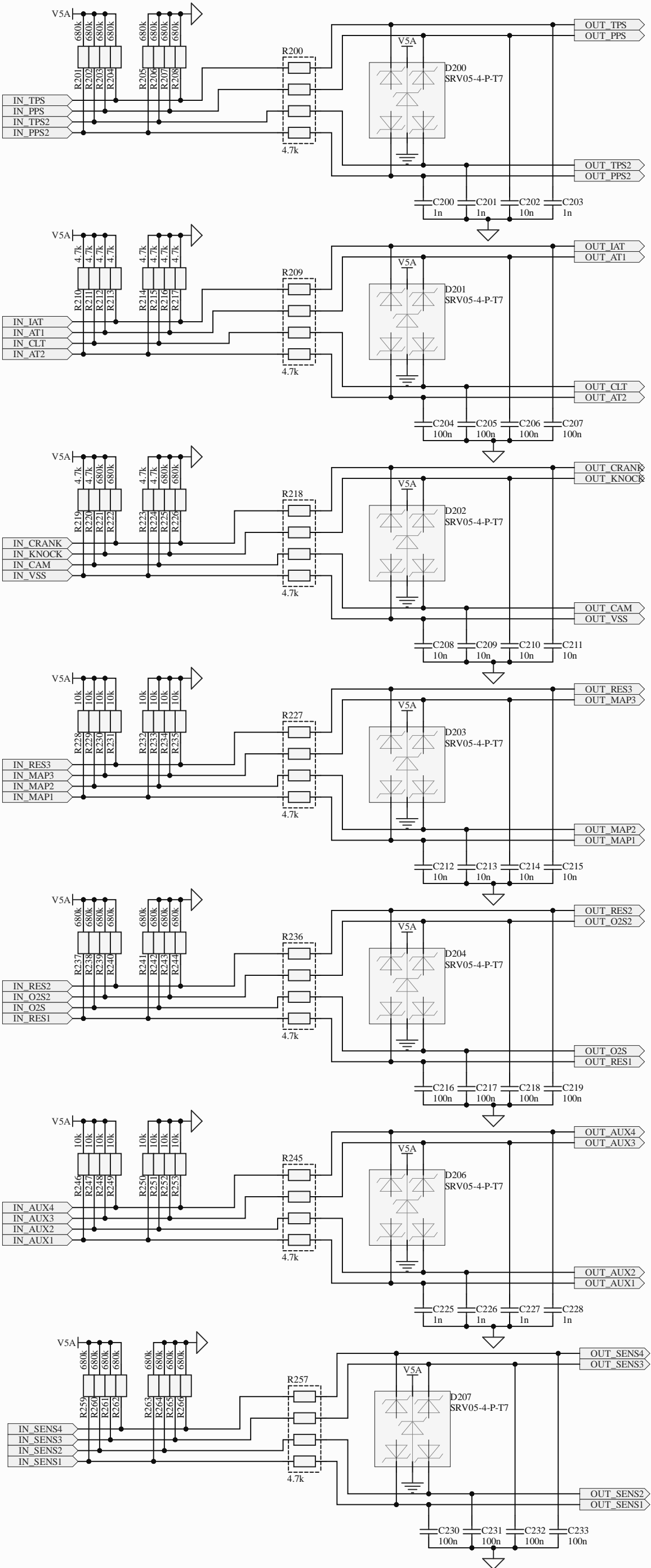
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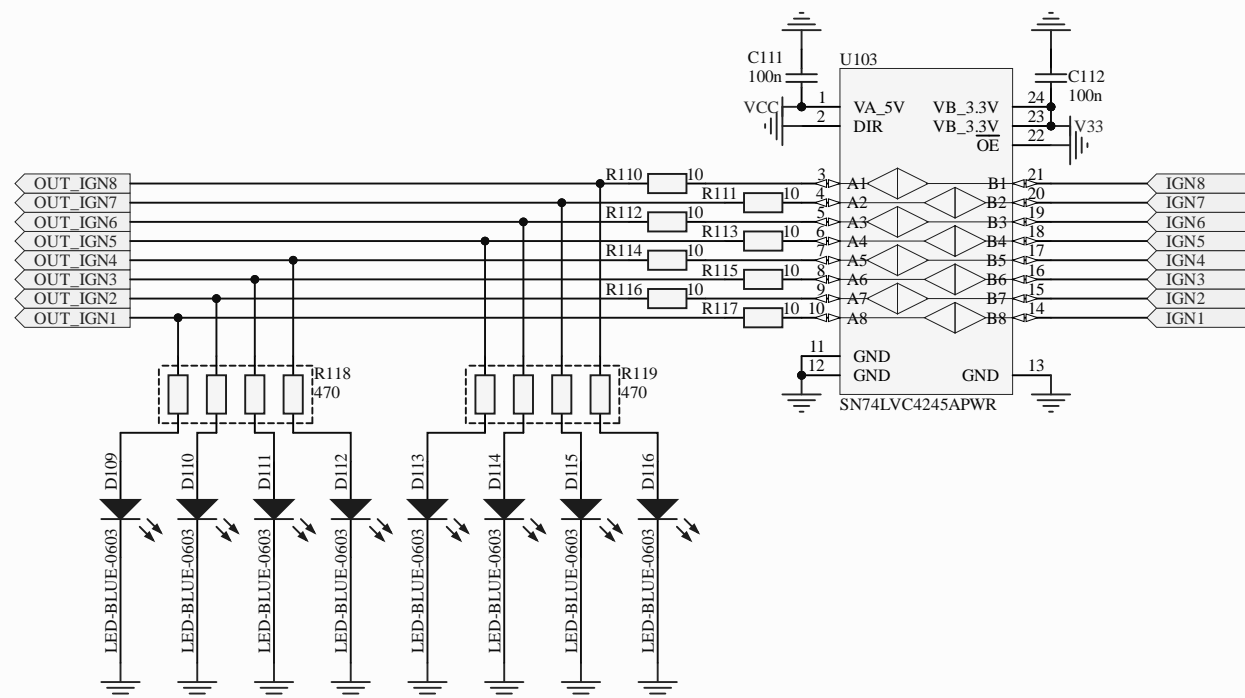
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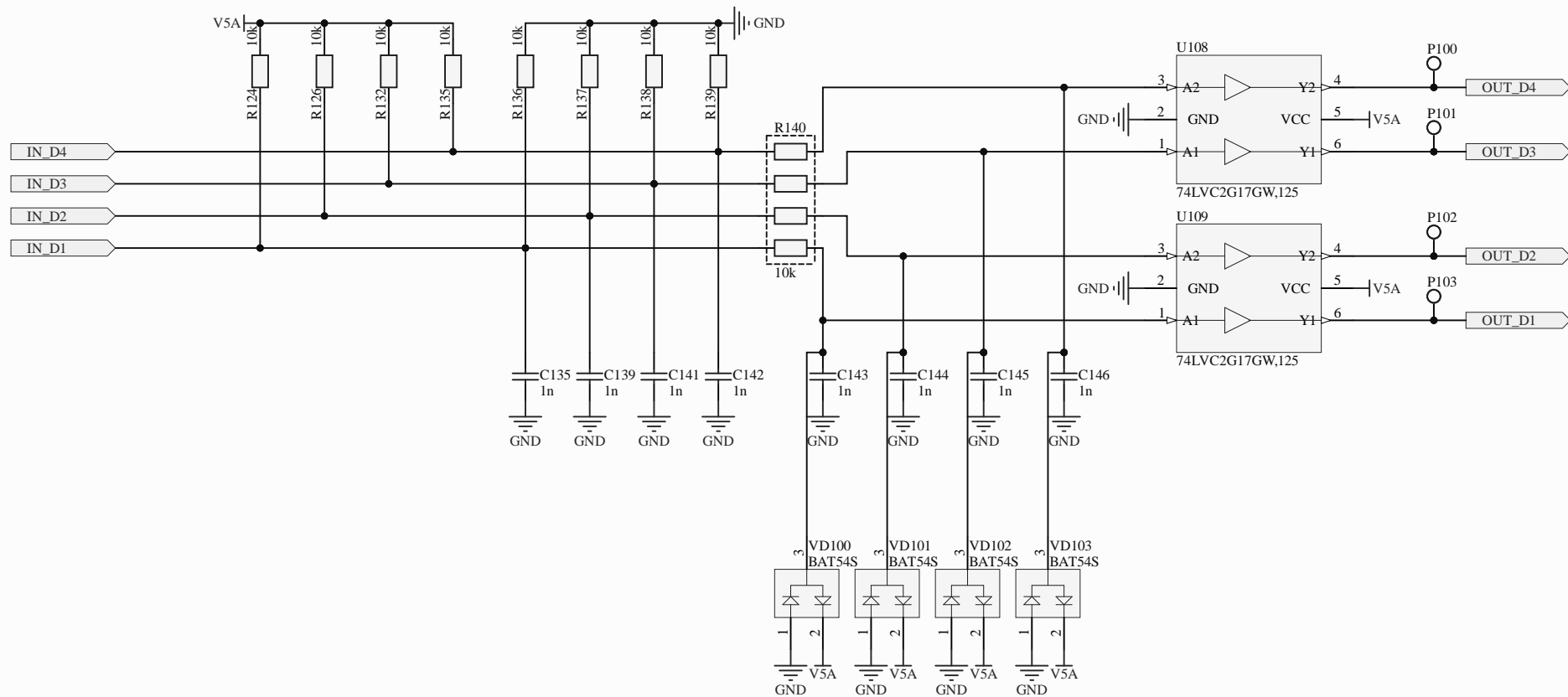
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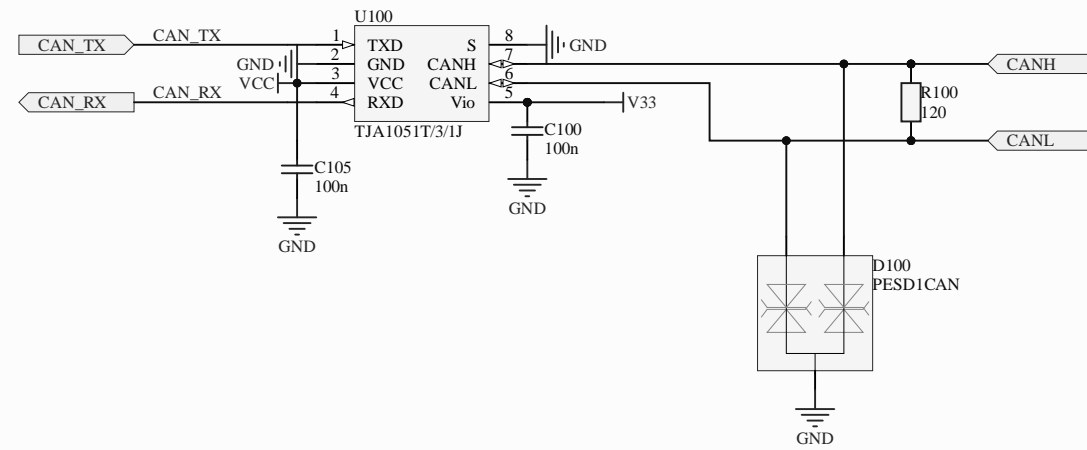
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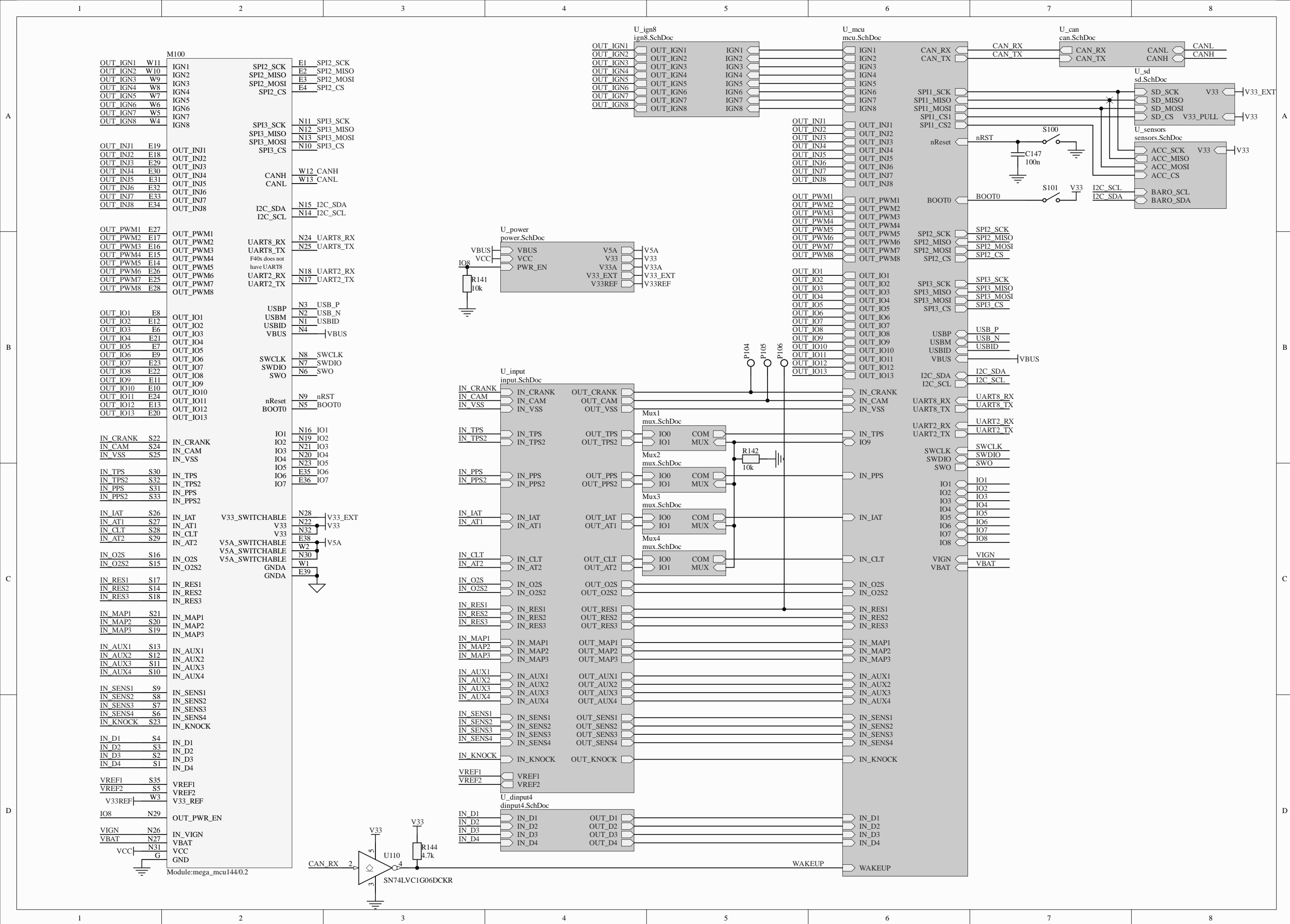
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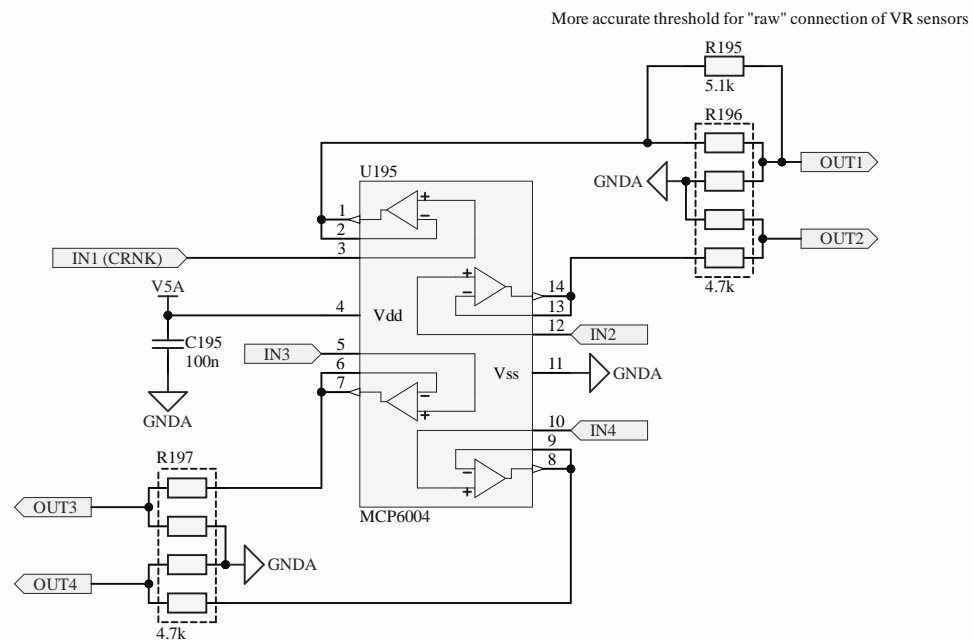


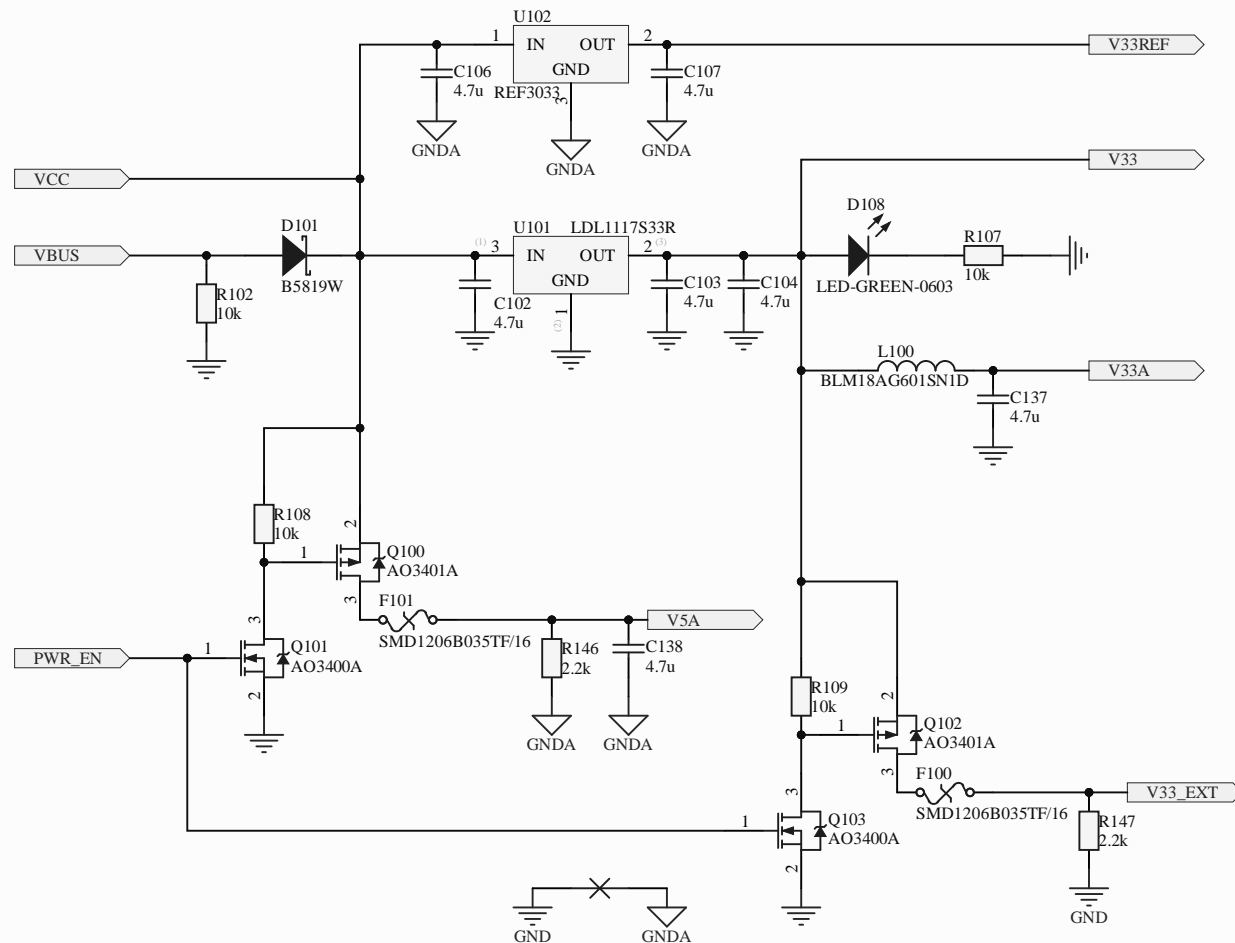




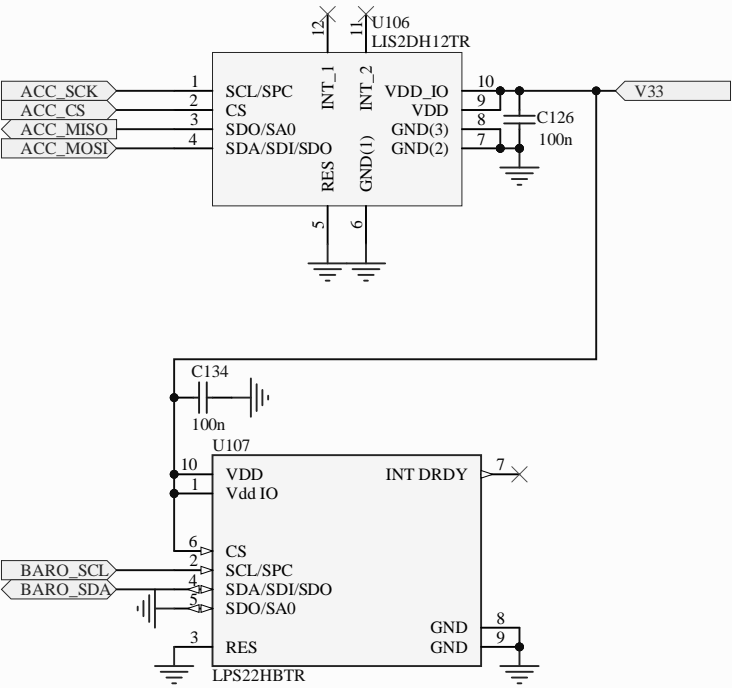


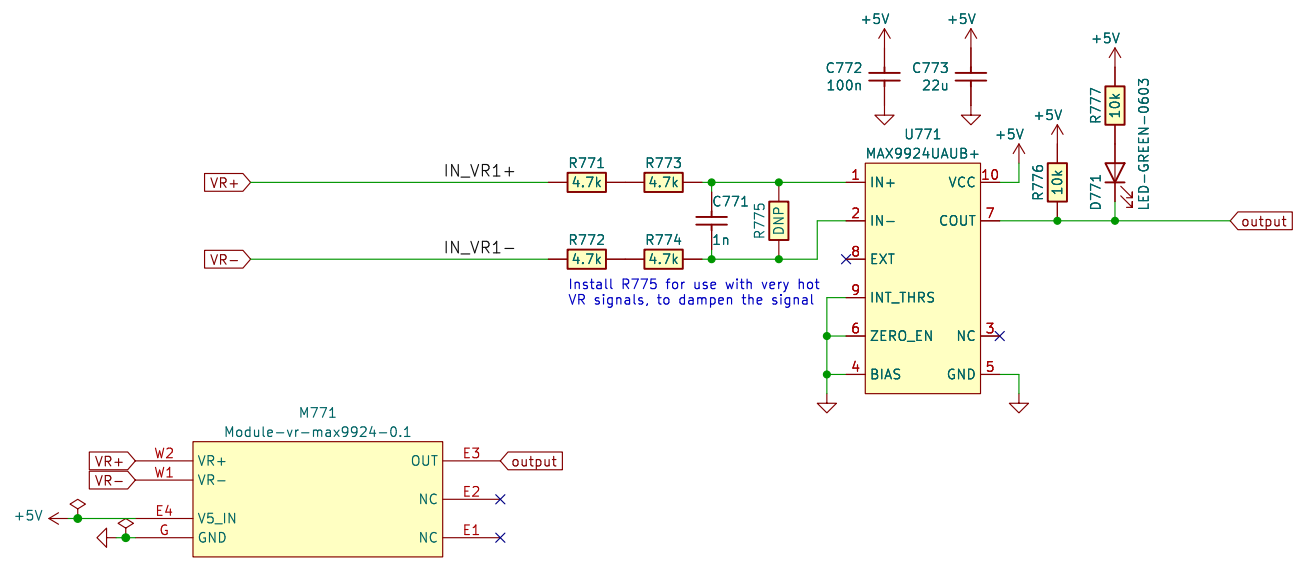






Title		
Size	Number	Revision
A4		
Date:	1.02.2024	Sheet of
File:	C:\Work\..power.SchDoc	Drawn By:





Sheet: /		
File: hellen1-vr-max9924.kicad_sch		
Title: VR MAX9924 module		
Size: A4	Date: 2023-07-25	Rev: 0.1
KiCad E.D.A. eeschema 7.0.9		Id: 1/1

