

A

A

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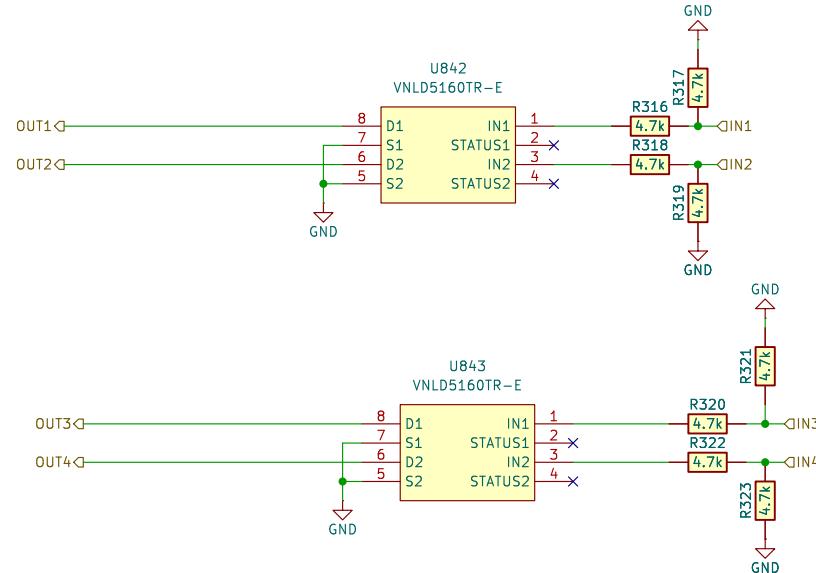
B

C

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D



Sheet: /LS/
File: LS4.kicad_sch

Title:

Size: A4 | Date:
KiCad E.D.A. 8.0.9

Rev:
Id: 3/6

A

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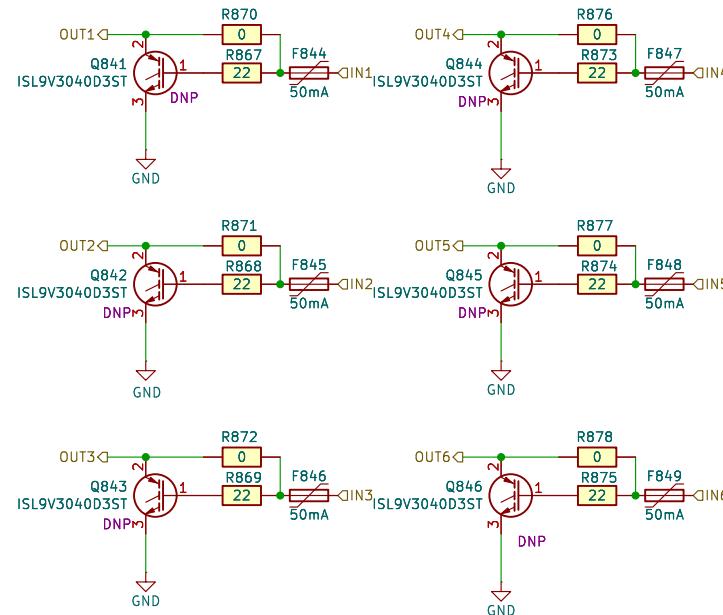
C

C

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D

Remove R20–R22, R26–R28, and install Q7–Q12 for use with dumb coils



Sheet: /Ignition/
File: IGN6.kicad_sch

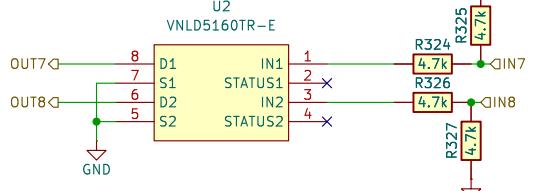
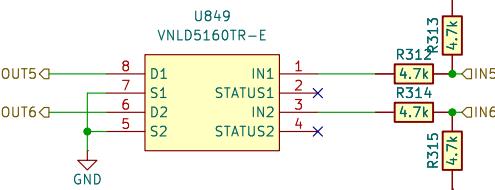
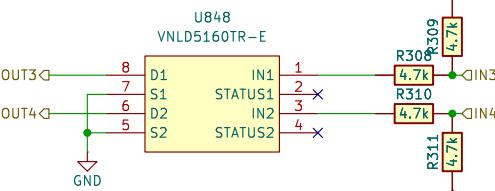
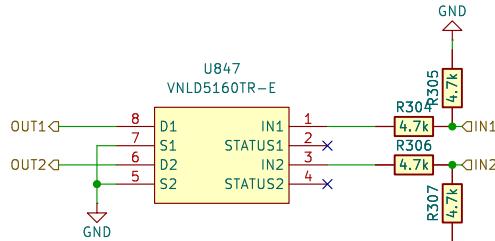
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Rev:
Id: 5/6

A

A



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Size: A4 Date:

KiCad E.D.A. 8.0.9

Rev:
Id: 6/6

A

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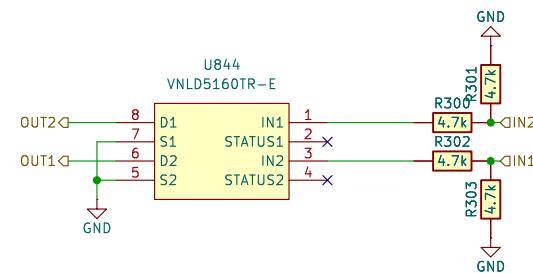
D

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Sheet: /LS HOT/
File: LS_HOT.kicad_sch

Title:

Size: A4 | Date:
KiCad E.D.A. 8.0.9

Rev:
Id: 8/6

1 2 3 4 5 6

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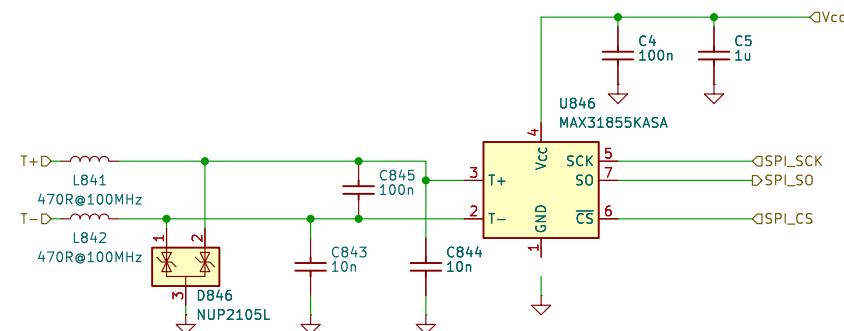
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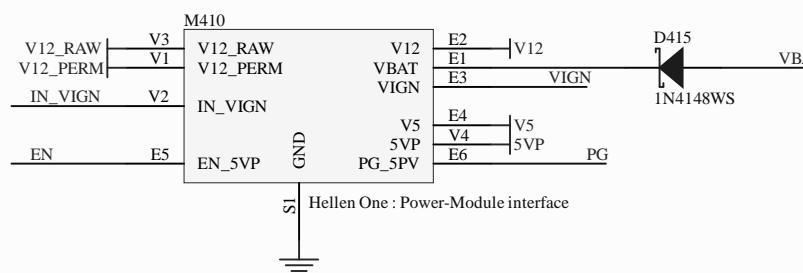
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Rev:
Id: 9/6

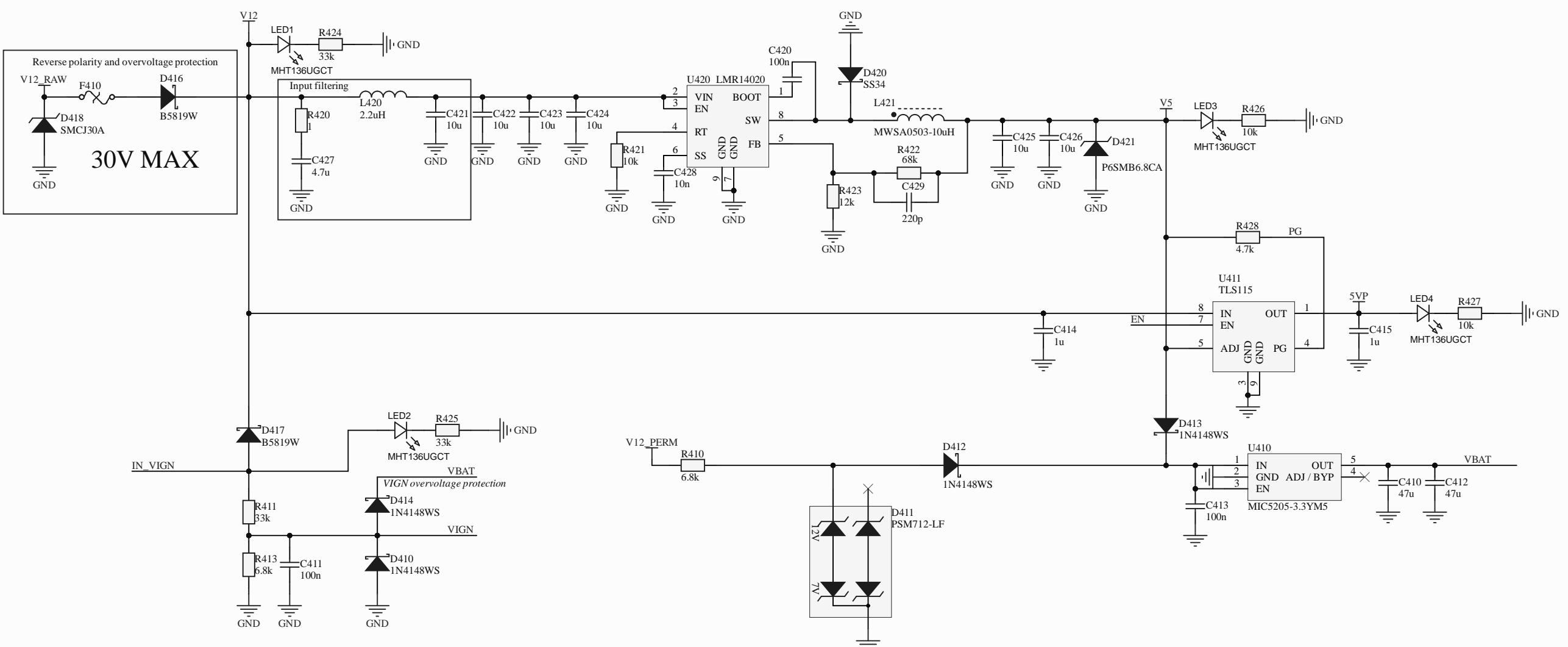
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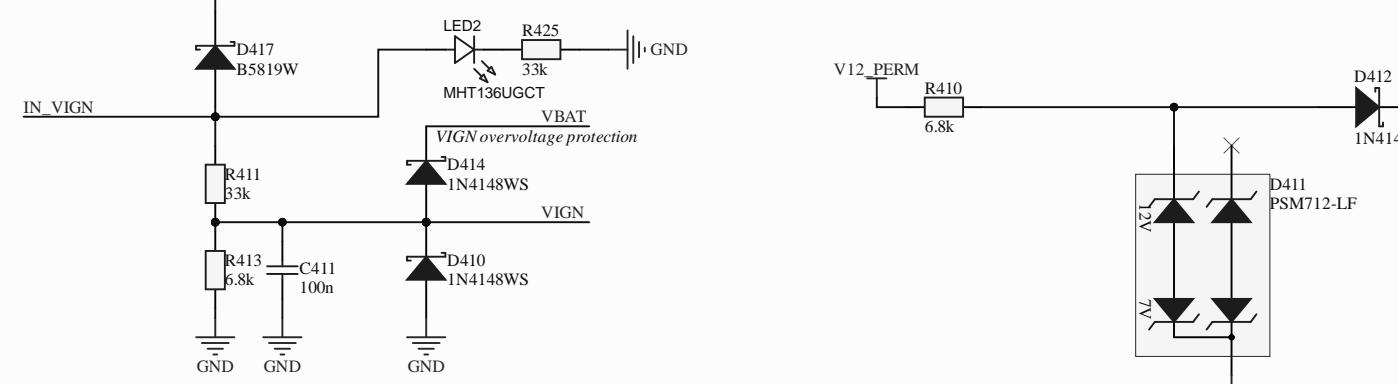
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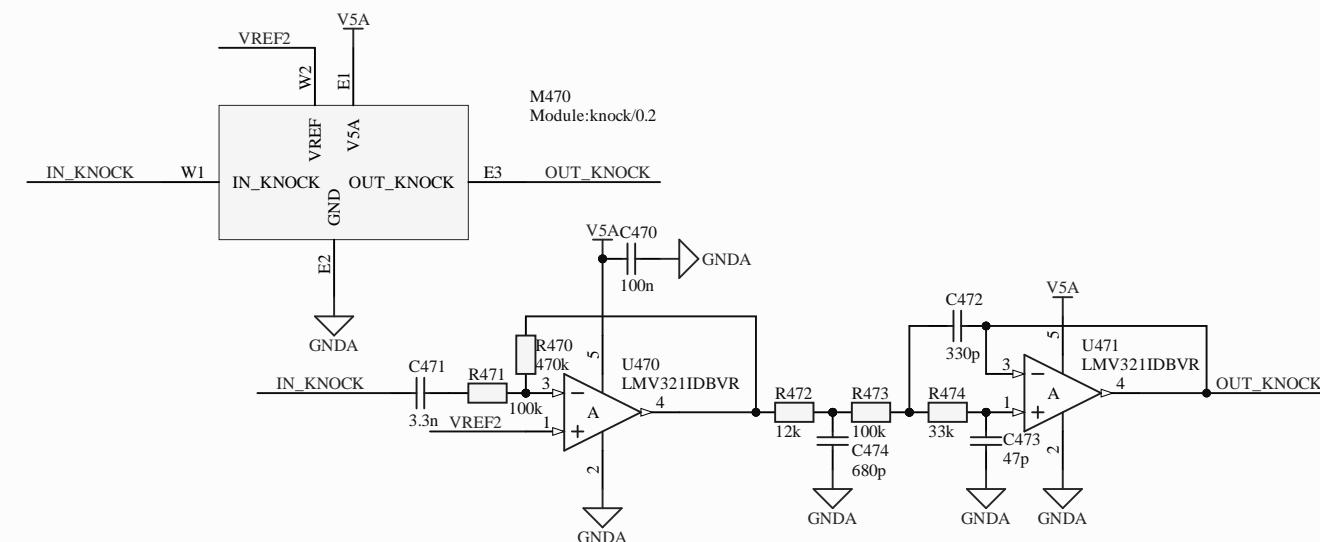
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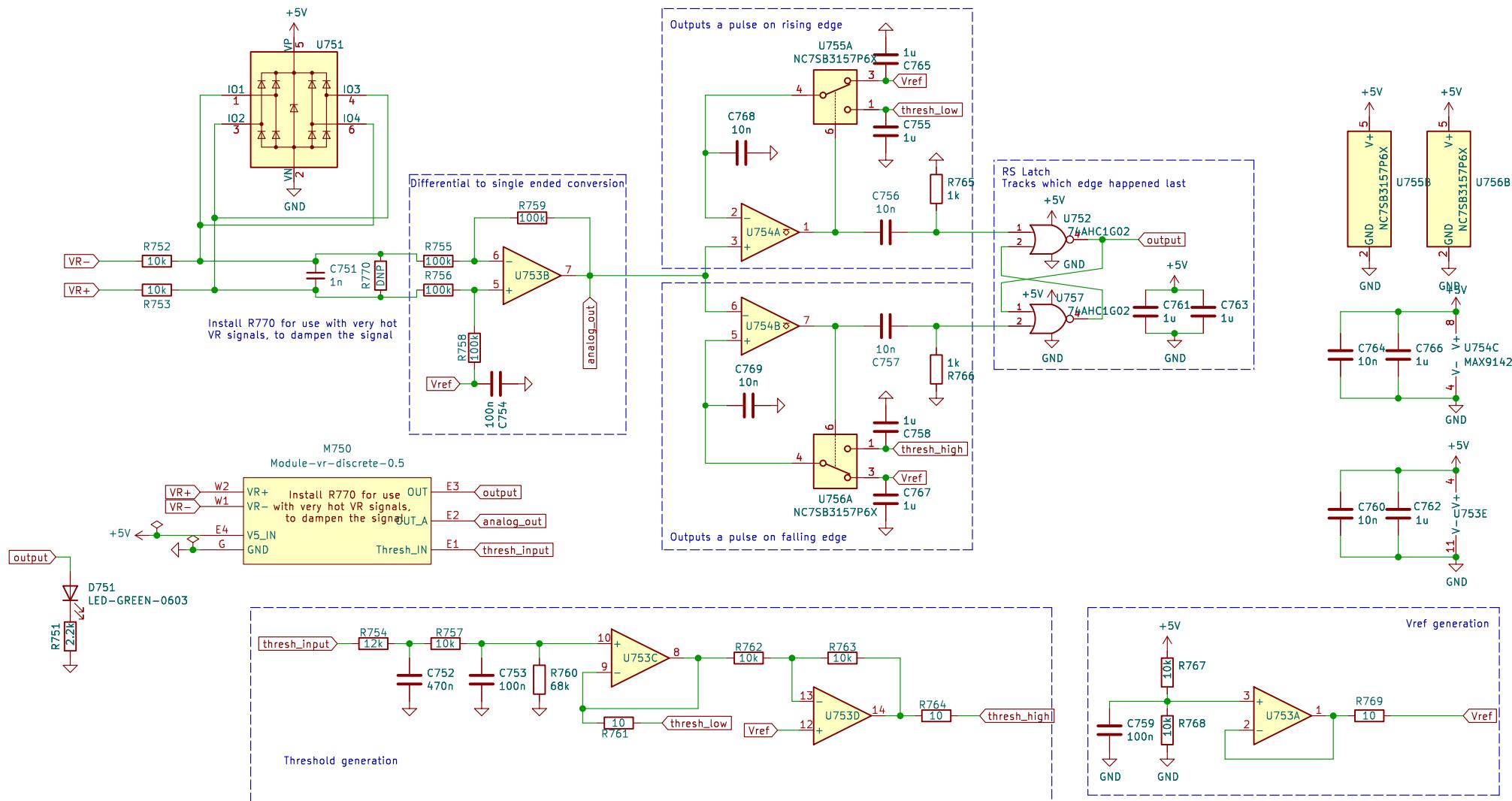
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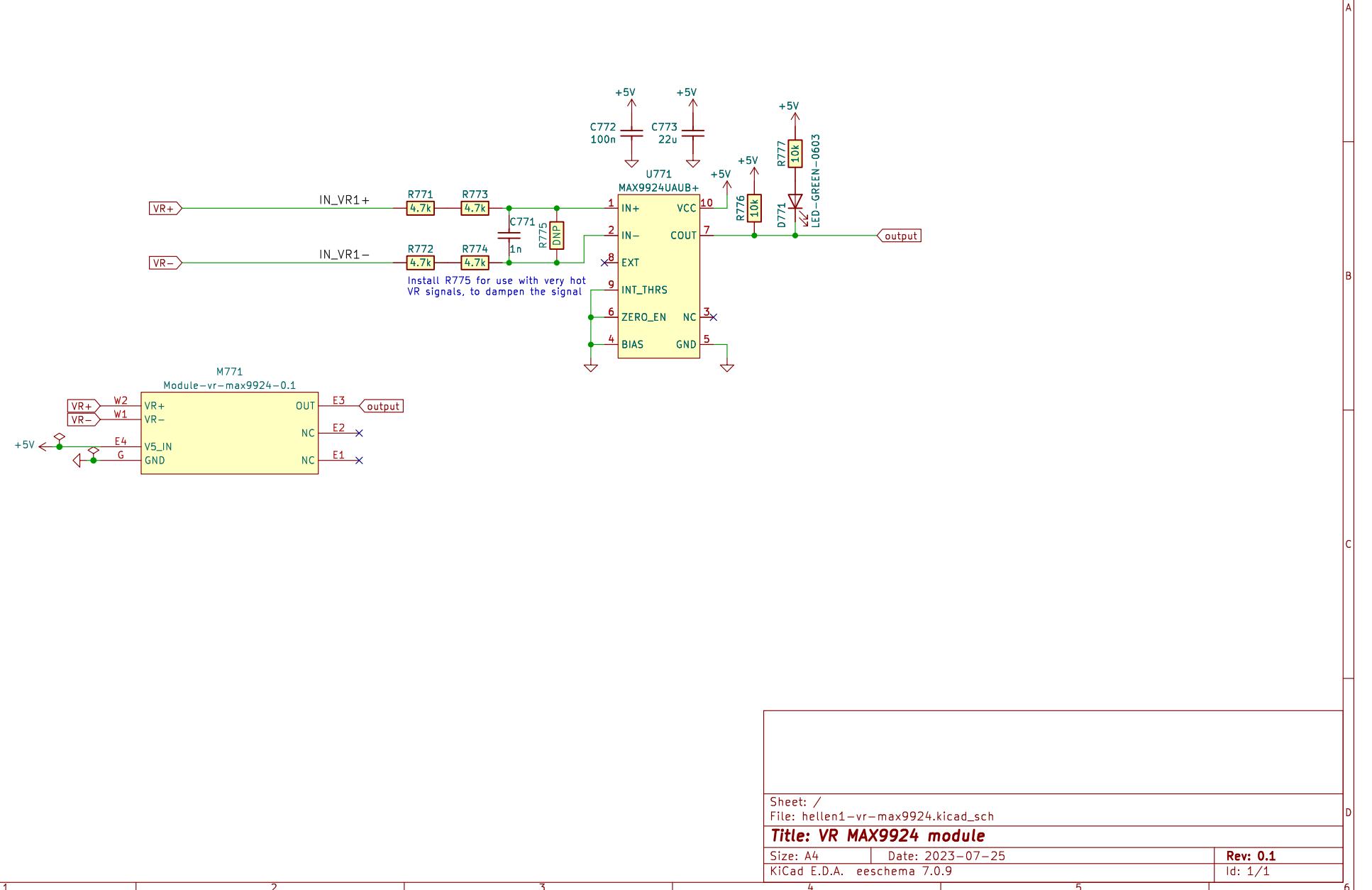


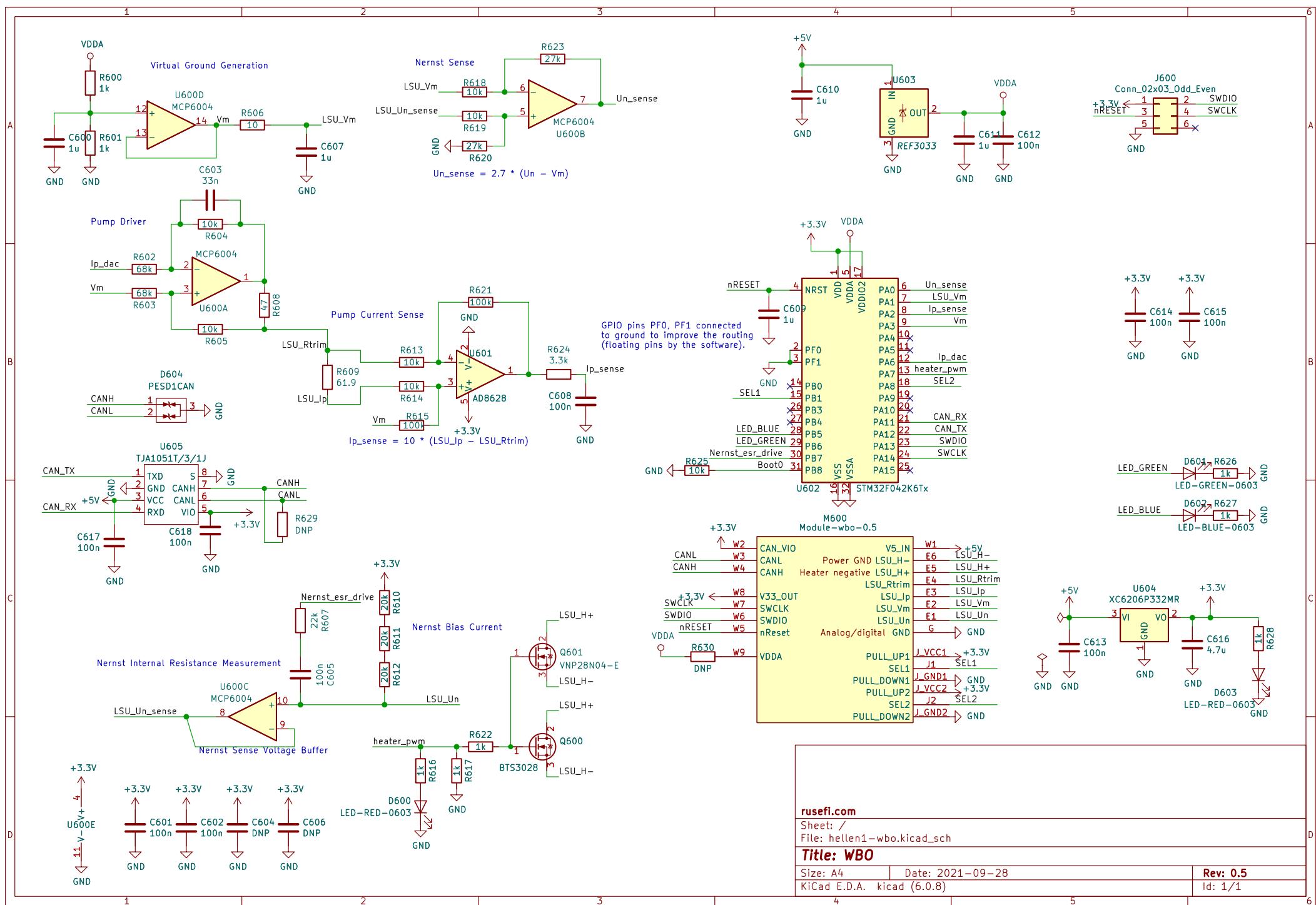
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Size: A4 | Date:
KiCad E.D.A. kicad 7.0.9

Rev:
Id: 1/1





A

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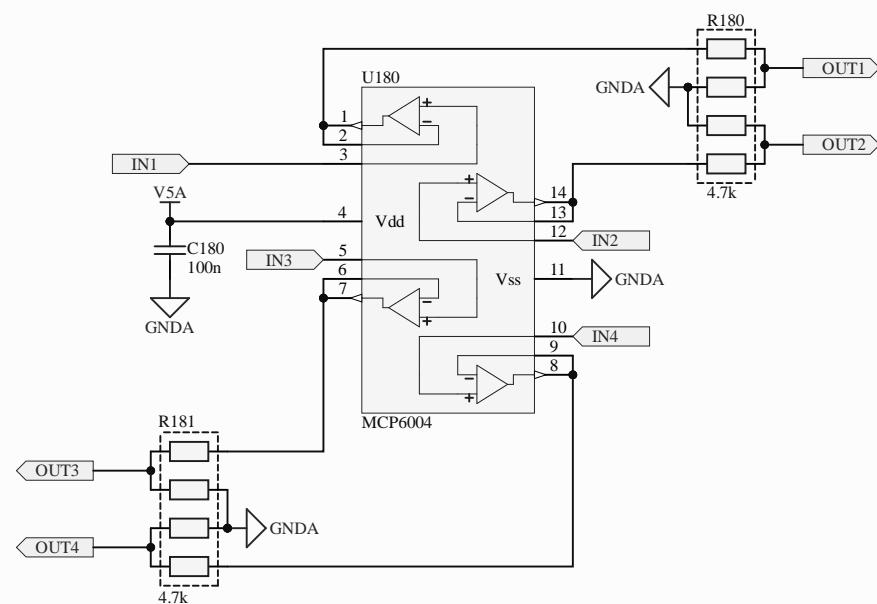
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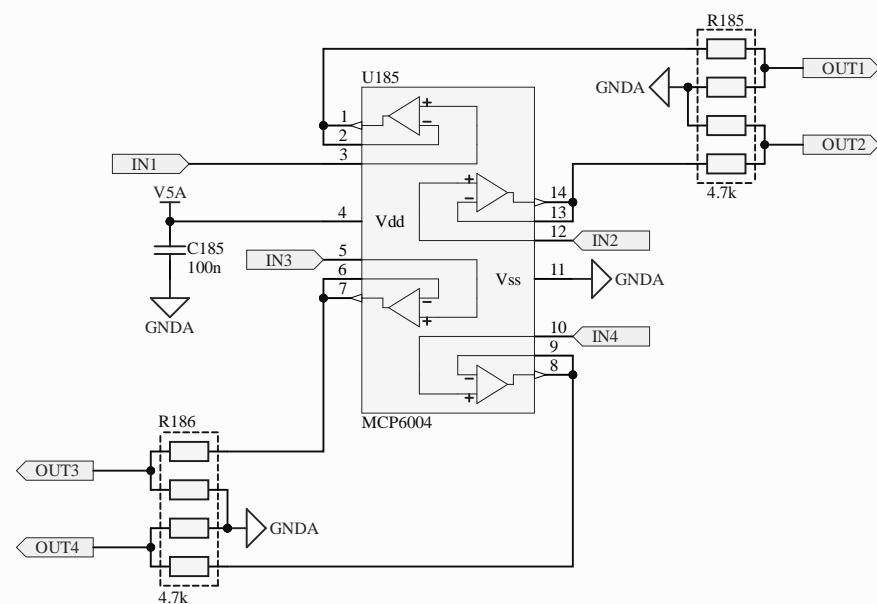
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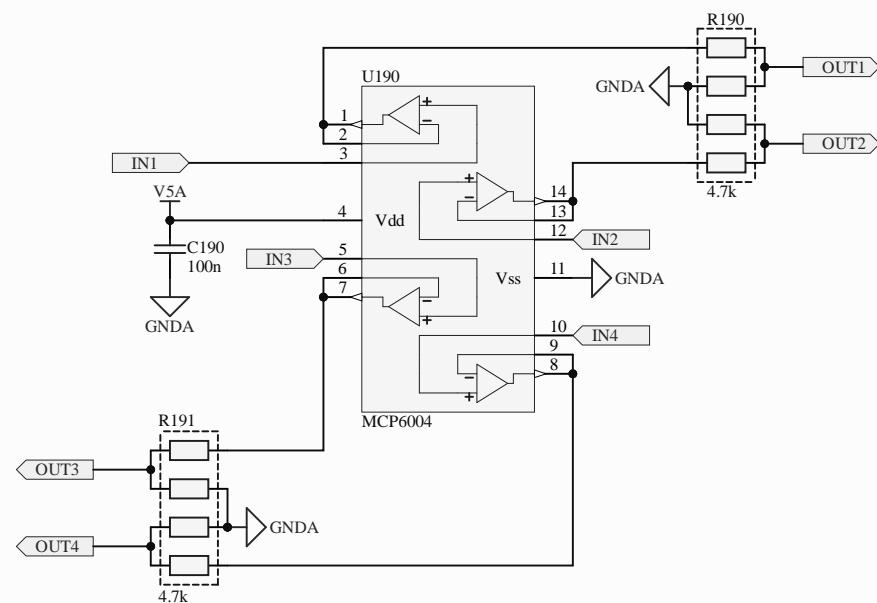
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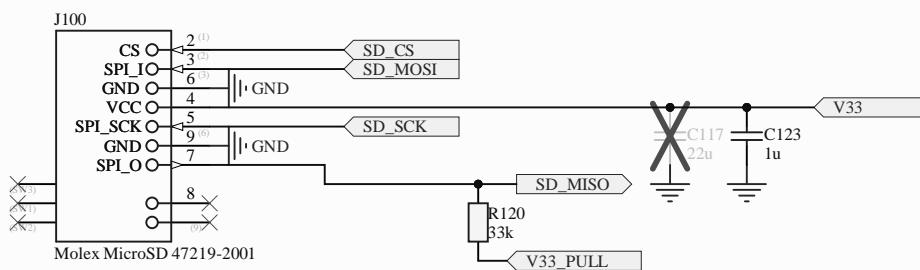
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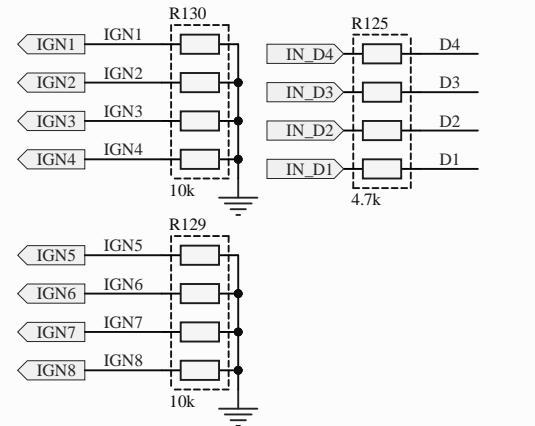
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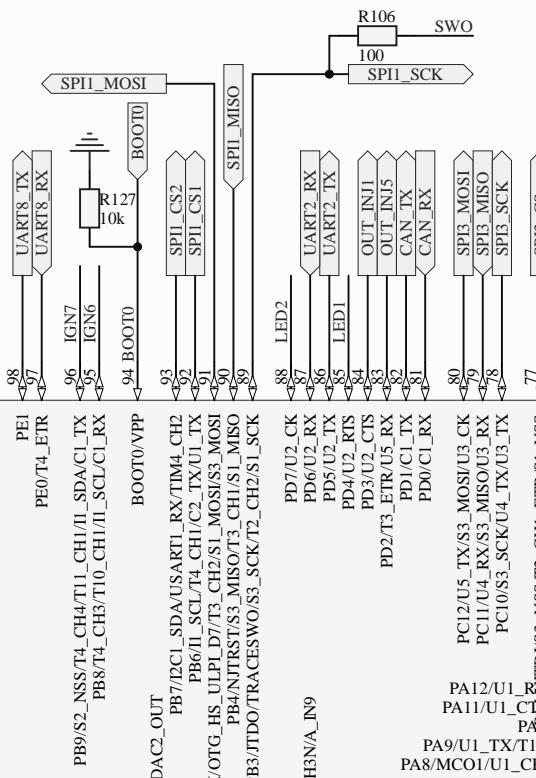
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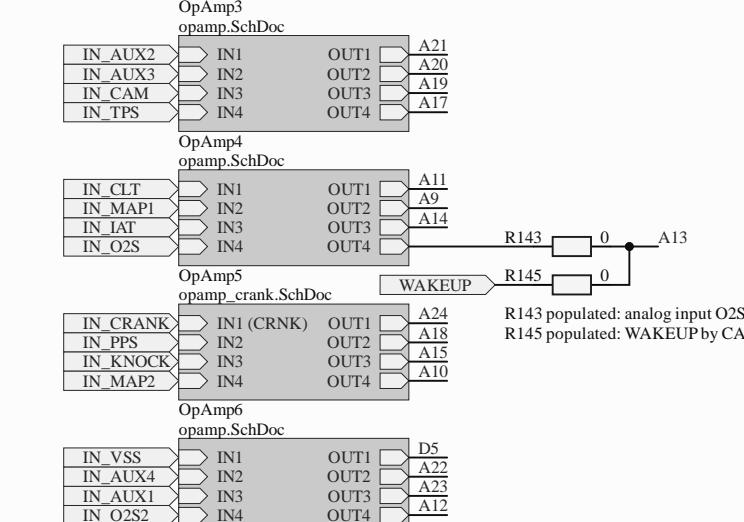
V33
100n
99



U05
STM32F429VGT6

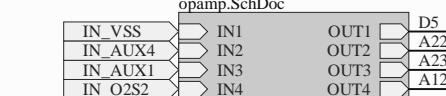
VDD
VSS
C113
100n

VCAP_2



R143 populated: analog input O2S

R145 populated: WAKEUP by CAN



OpAmp5 opamp_crank.SchDoc

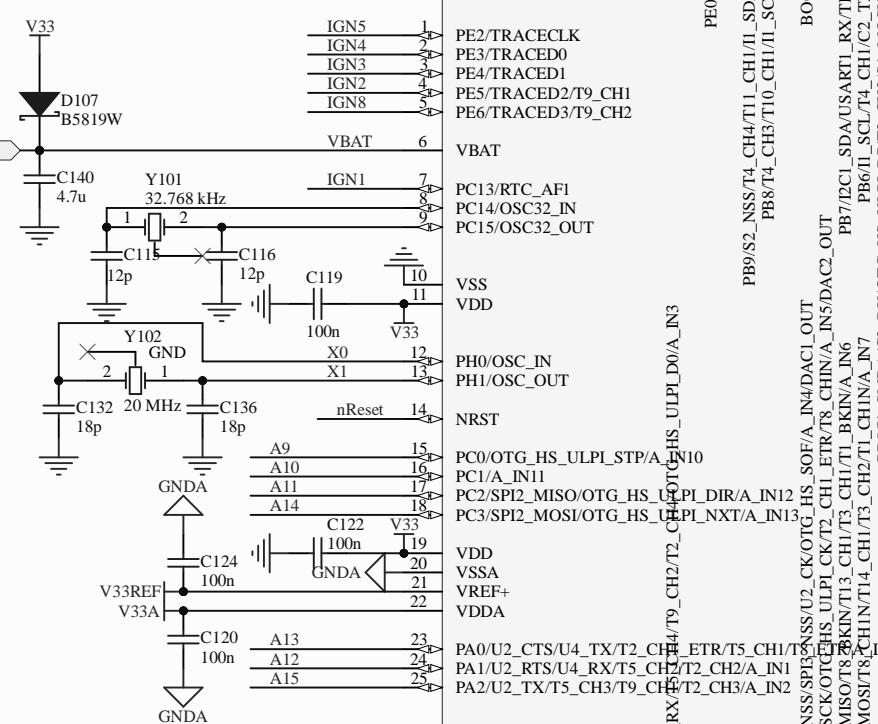
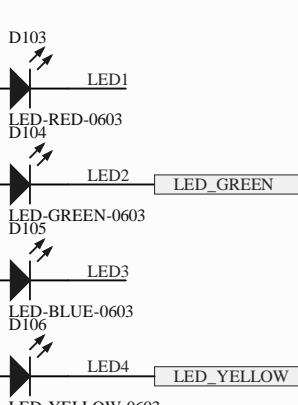
IN_CLT IN_MAP1 IN_IAT IN_O2S

OUT1 (A11) OUT2 (A9) OUT3 (A14) OUT4 (A17)

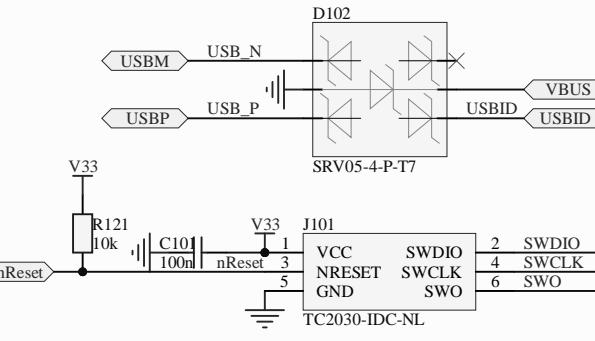
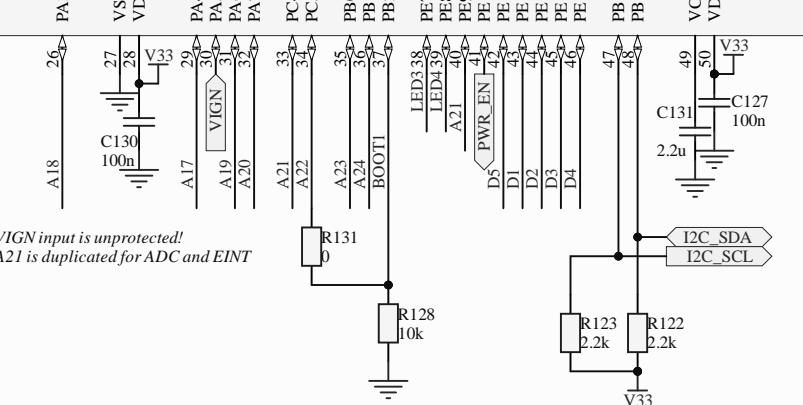
OpAmp6 opamp.SchDoc

IN_VSS IN_AUX4 IN_AUX1 IN_O2S2

OUT1 (D5) OUT2 (D22) OUT3 (D23) OUT4 (A12)



*VIGN input is unprotected!
*A21 is duplicated for ADC and EINT



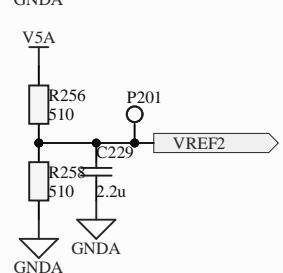
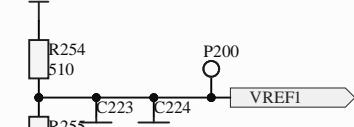
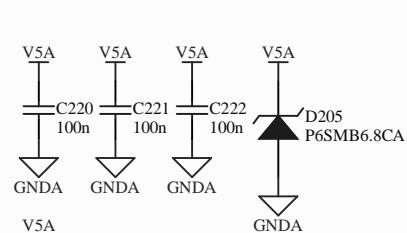
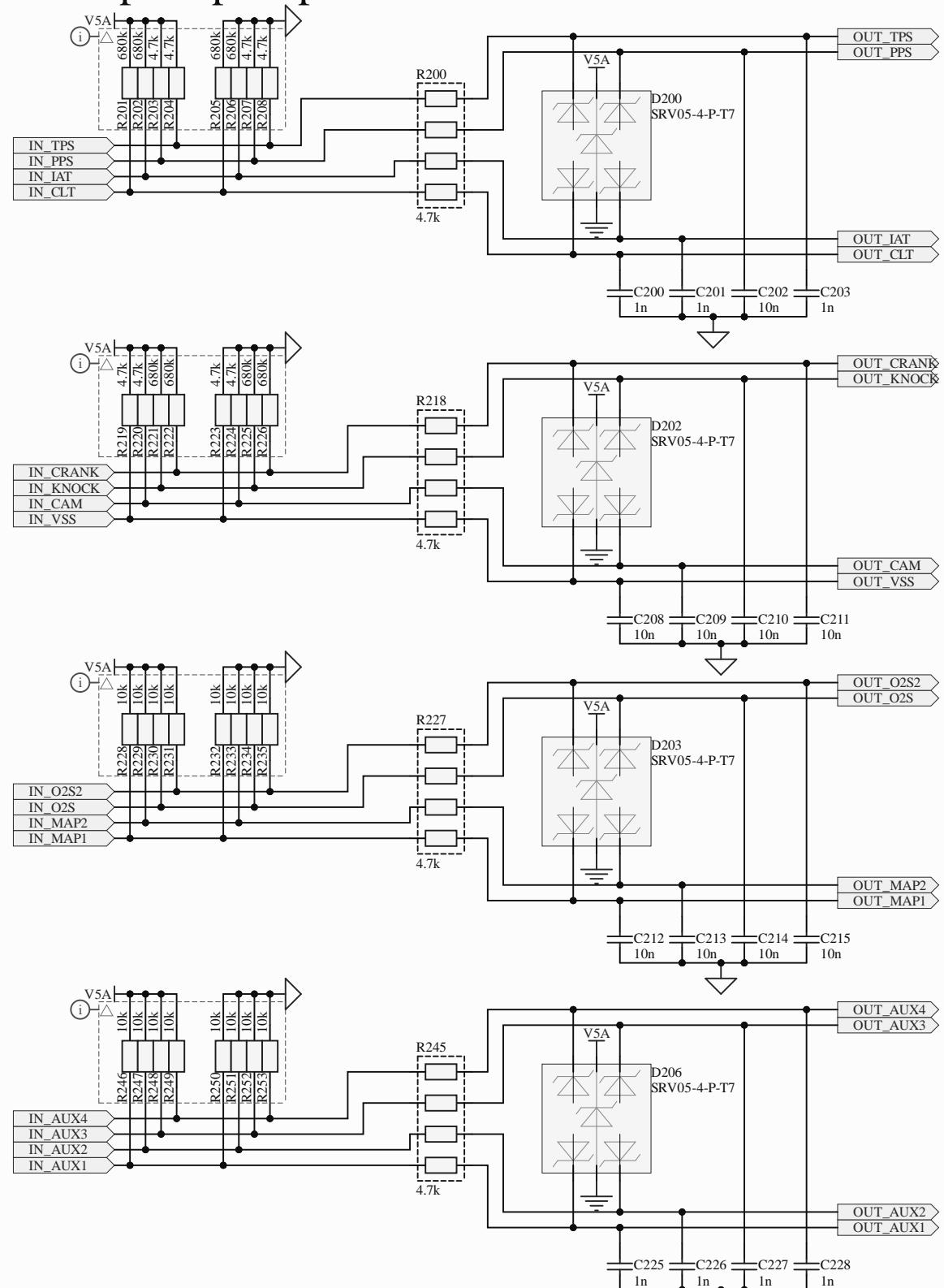
A

A

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B

See pullups replacement file for actual values



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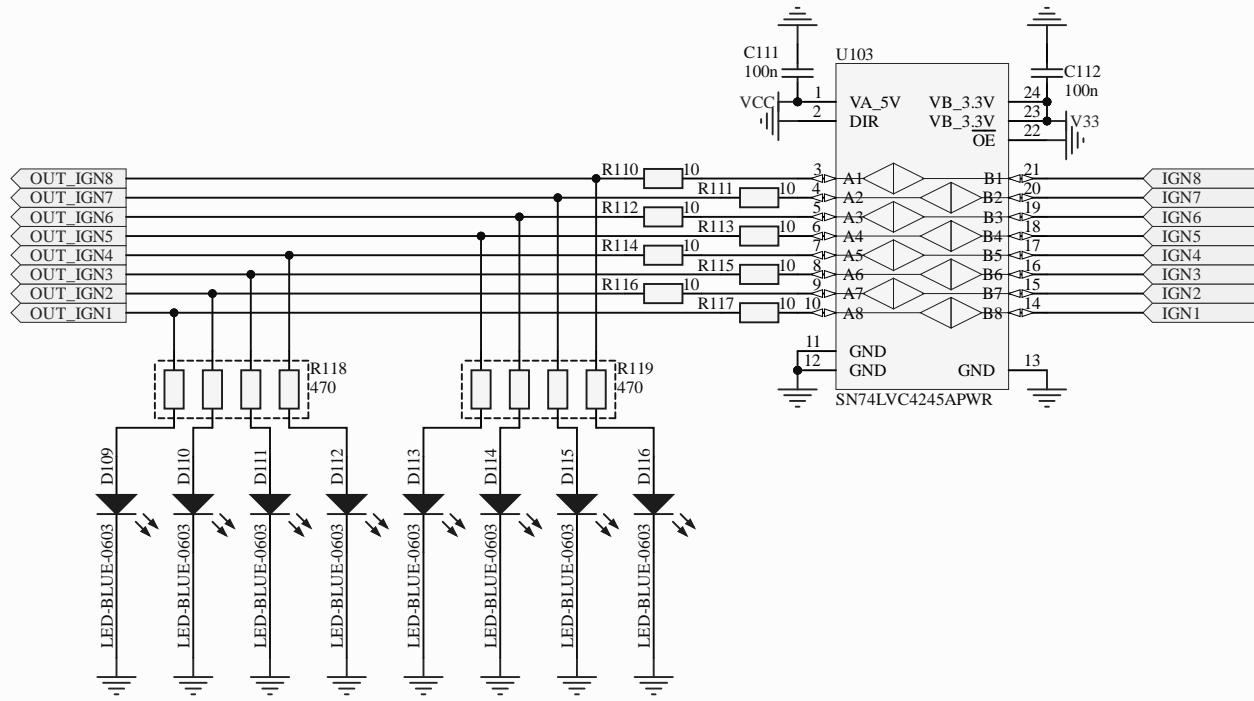
B

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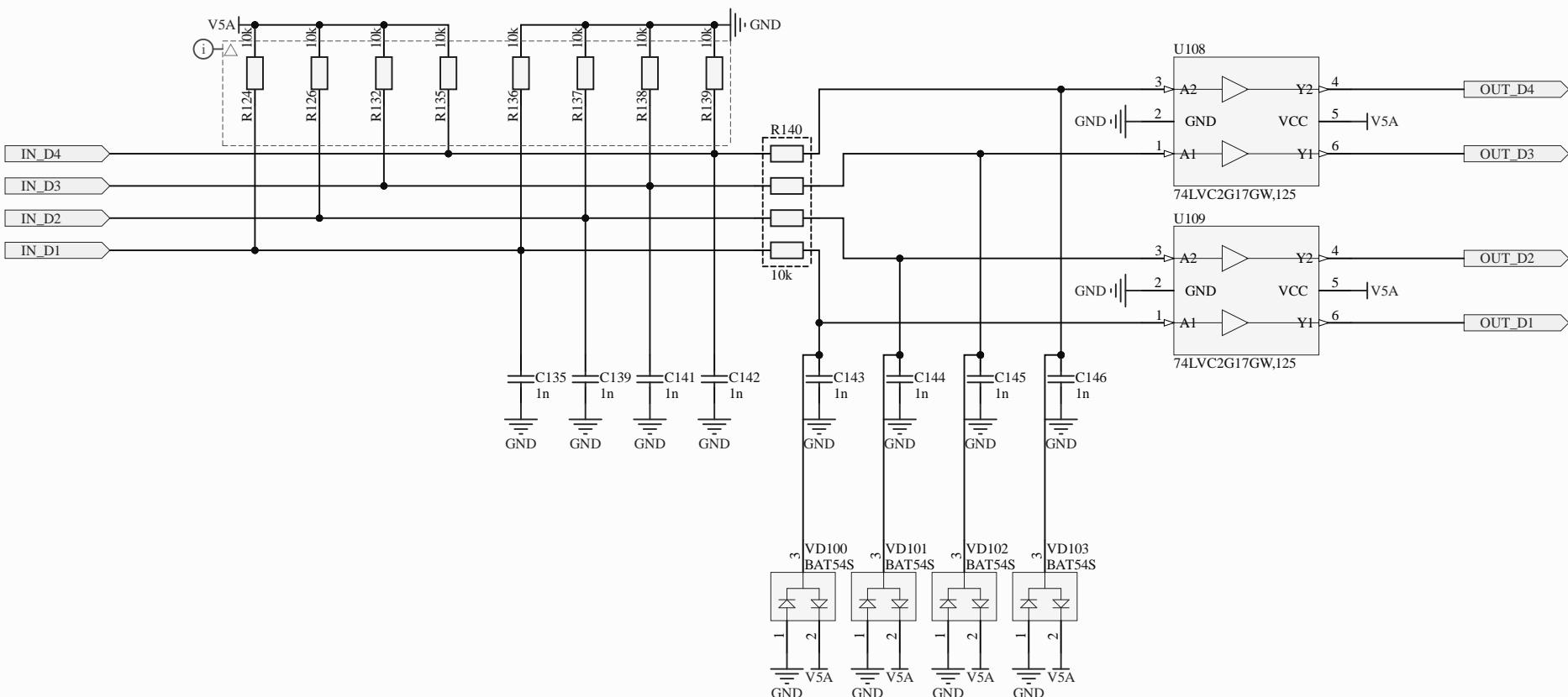
D



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A

See pullups replacement file for actual values



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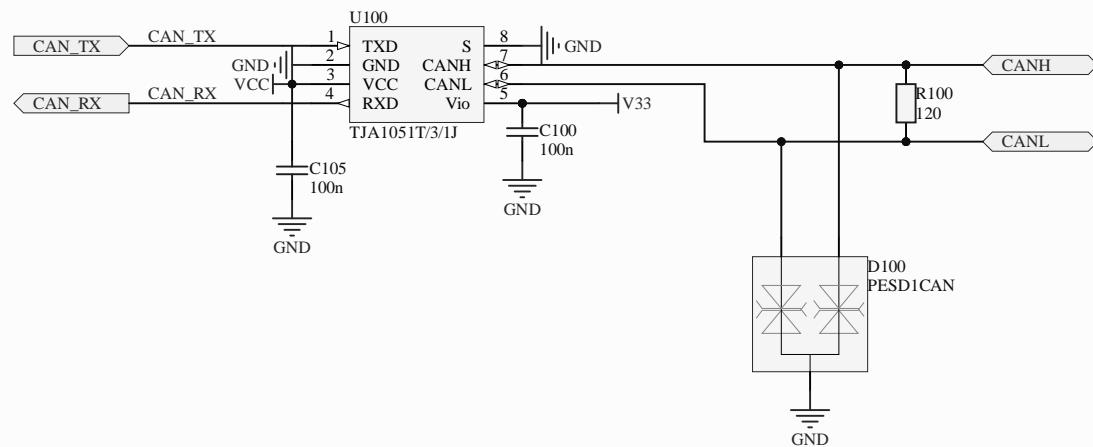
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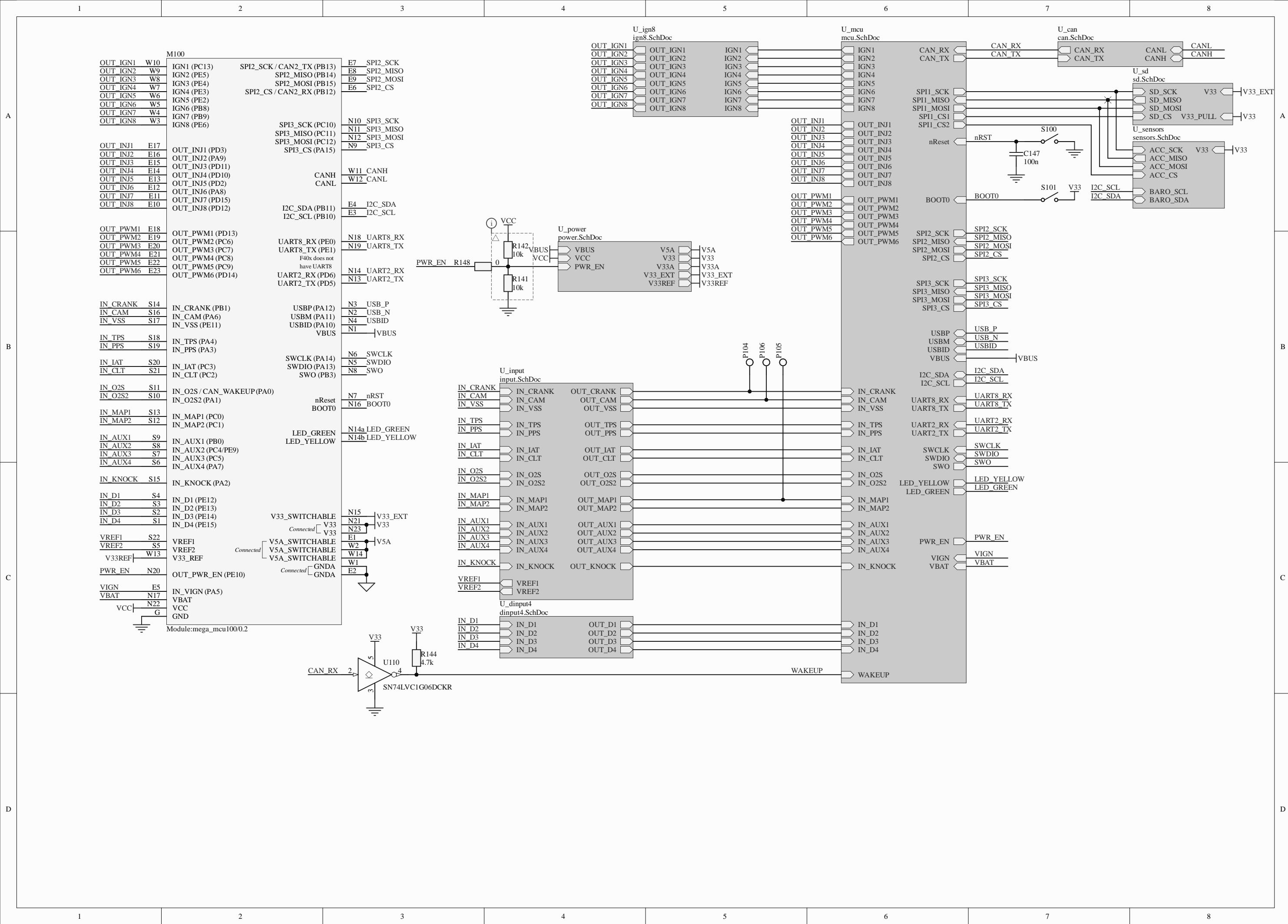
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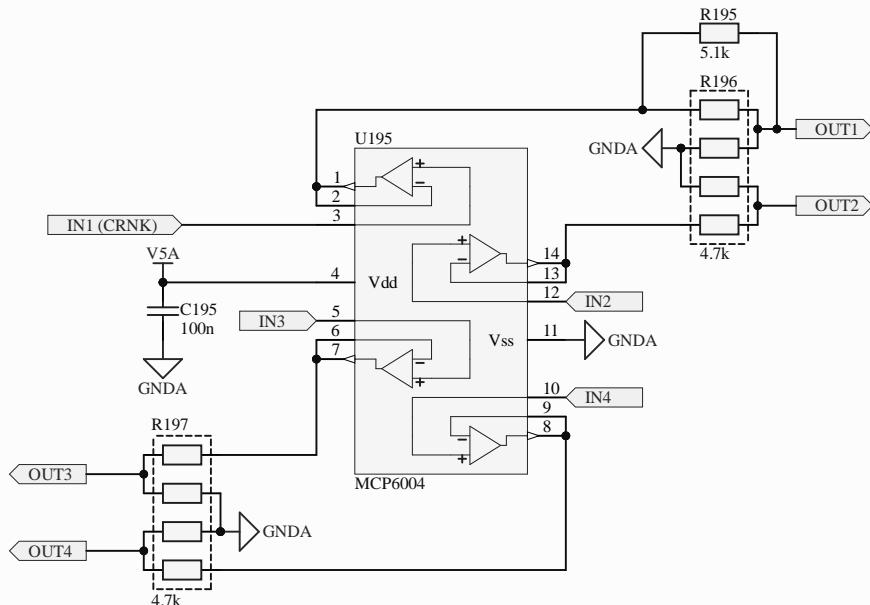
C

C

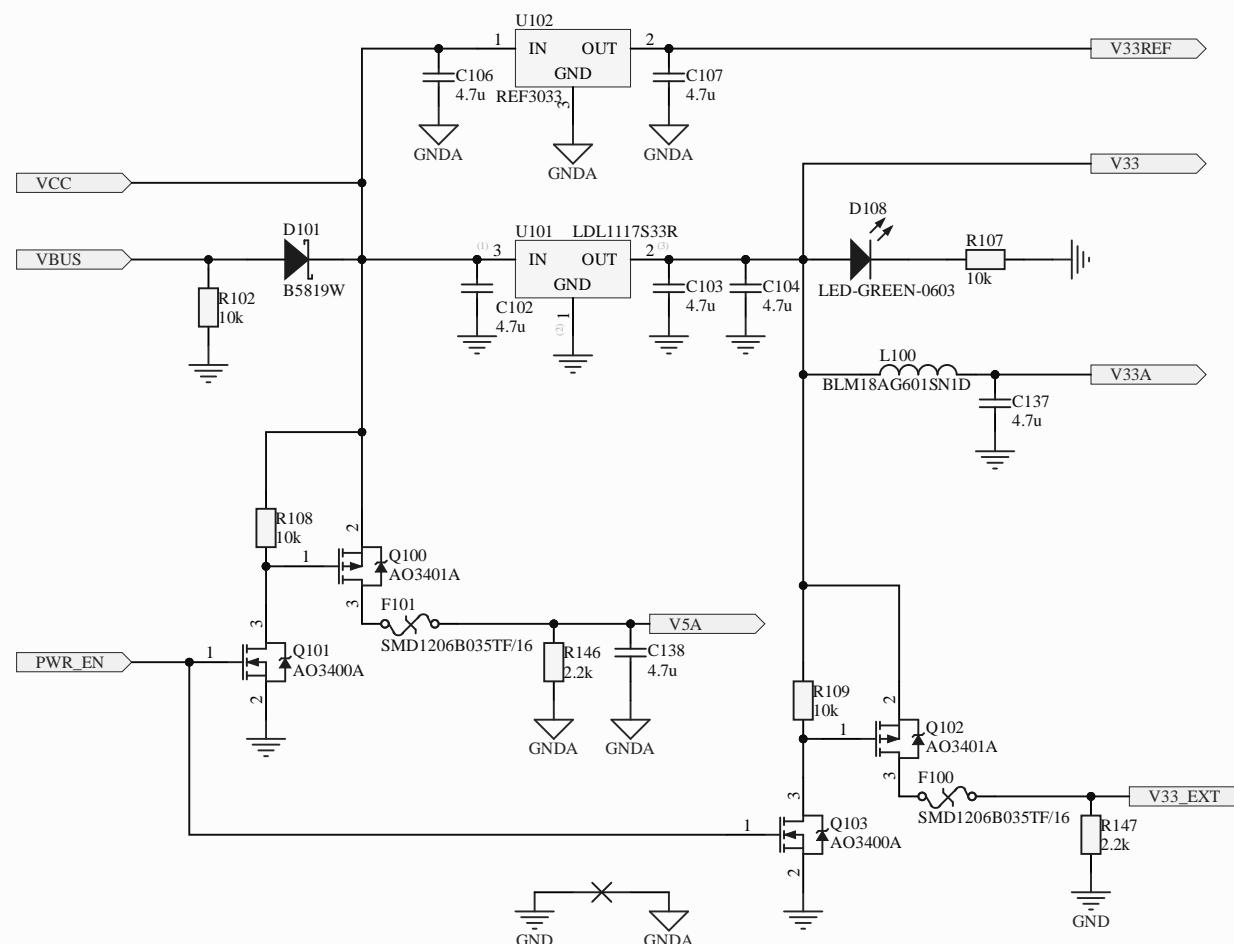
D

D

More accurate threshold for "raw" connection of VR sensors



A



Title

Size	Number	Revision
A4		
Date:	5.03.2025	Sheet of
File:	C:\Work...\power.SchDoc	Drawn By:

A

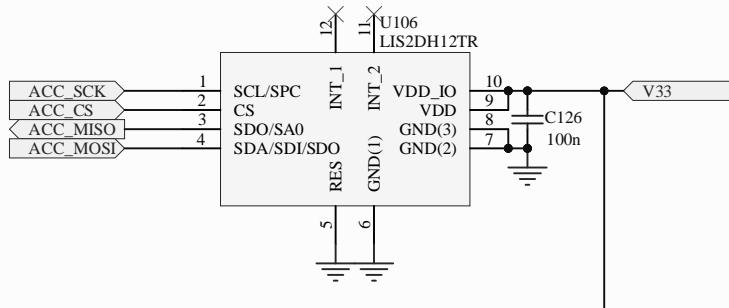
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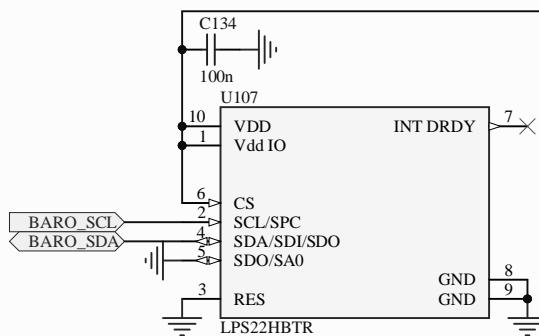
A

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