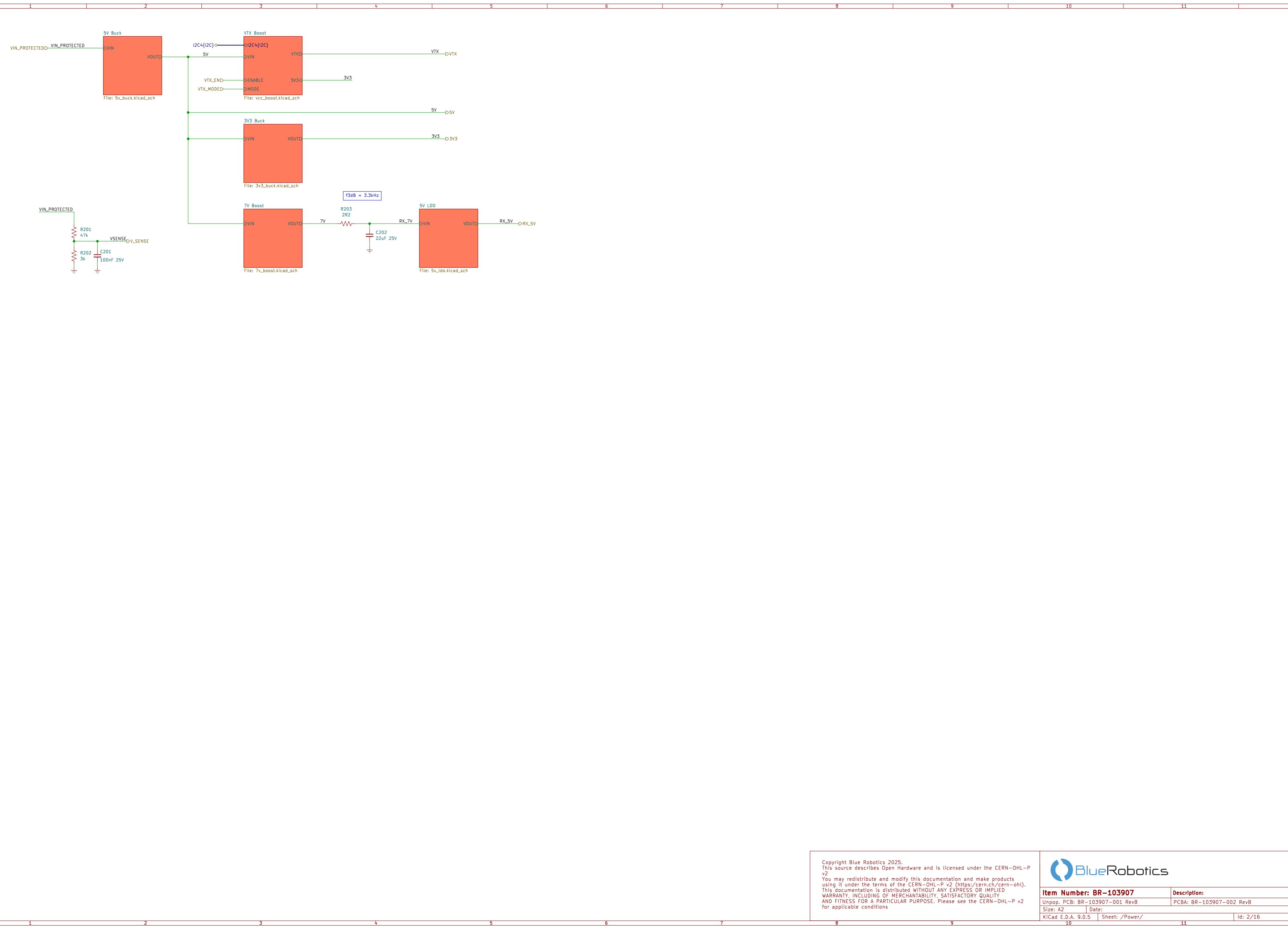


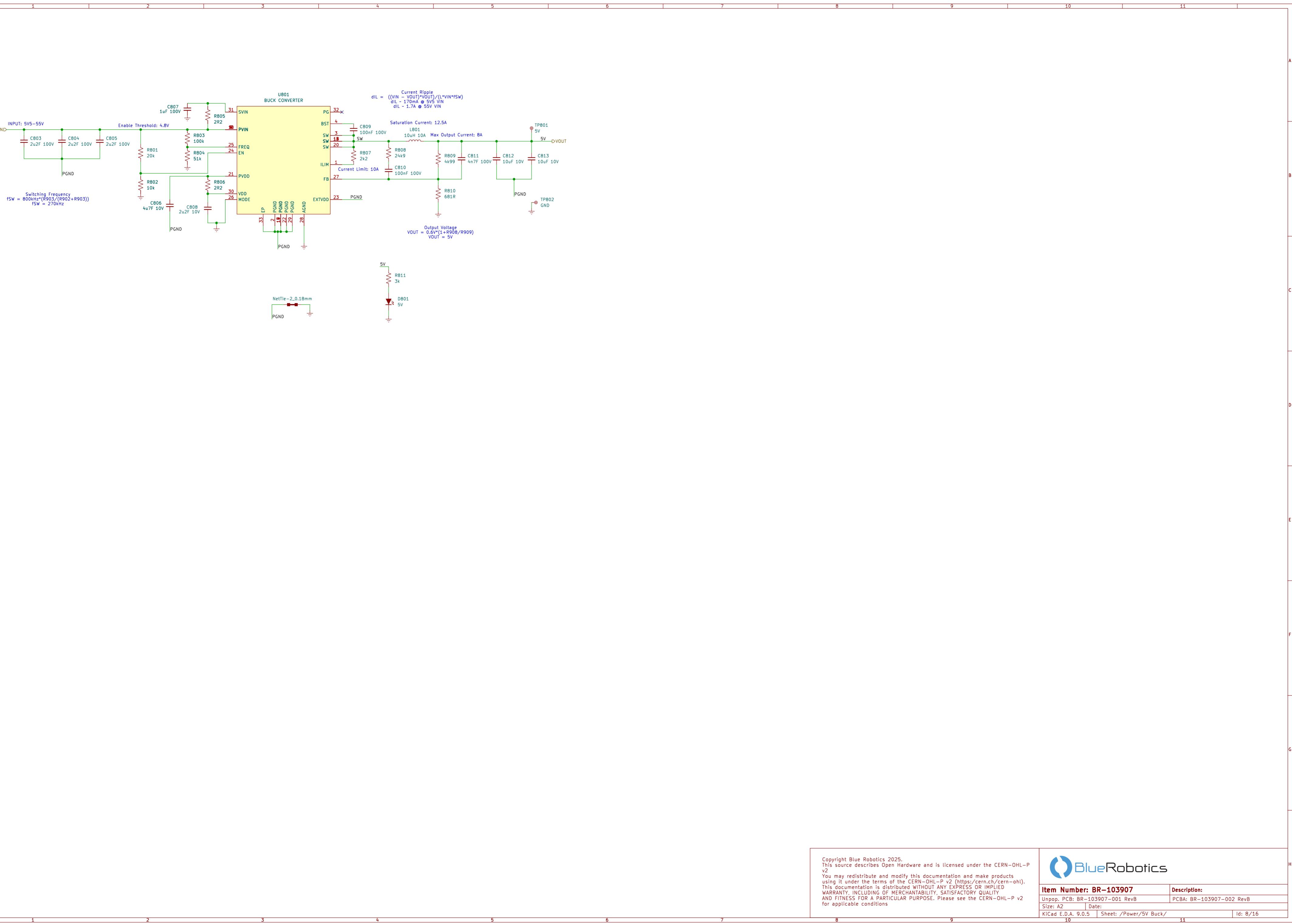
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Item Number: BR-103907	Description: Sonar Development Board
Unpop. PCB: BR-103907-001 RevB	PCBA: BR-103907-002 RevB
Size: A2	Date: 2025-06-13
KiCad E.D.A. 9.0.5	Sheet: /

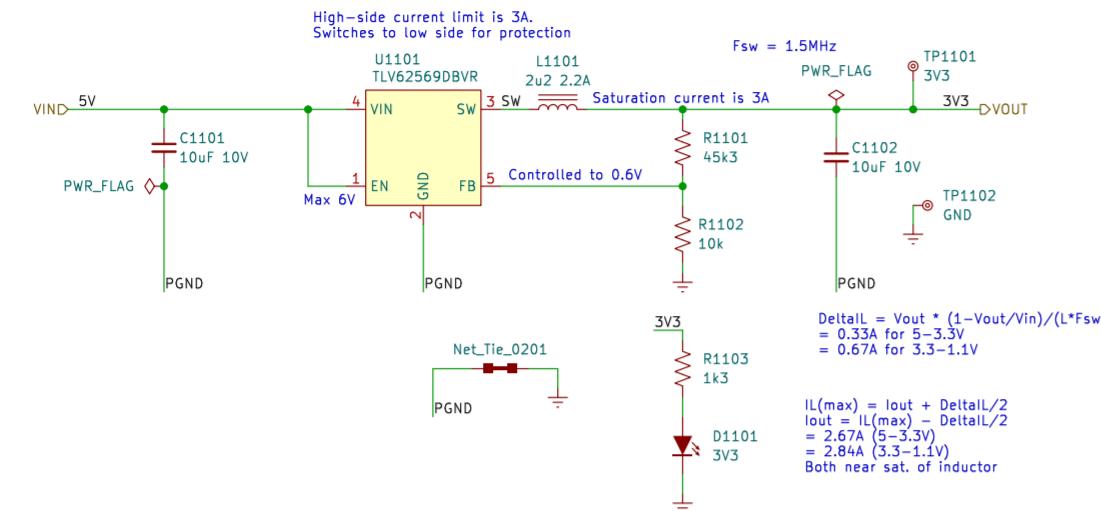


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Item Number: BR-103907	Description:
Unpop. PCB: BR-103907-001 RevB	PCBA: BR-103907-002 RevB
Size: A2	Date:
KiCad E.D.A. 9.0.5	Sheet: /Power/
	Id: 2/16



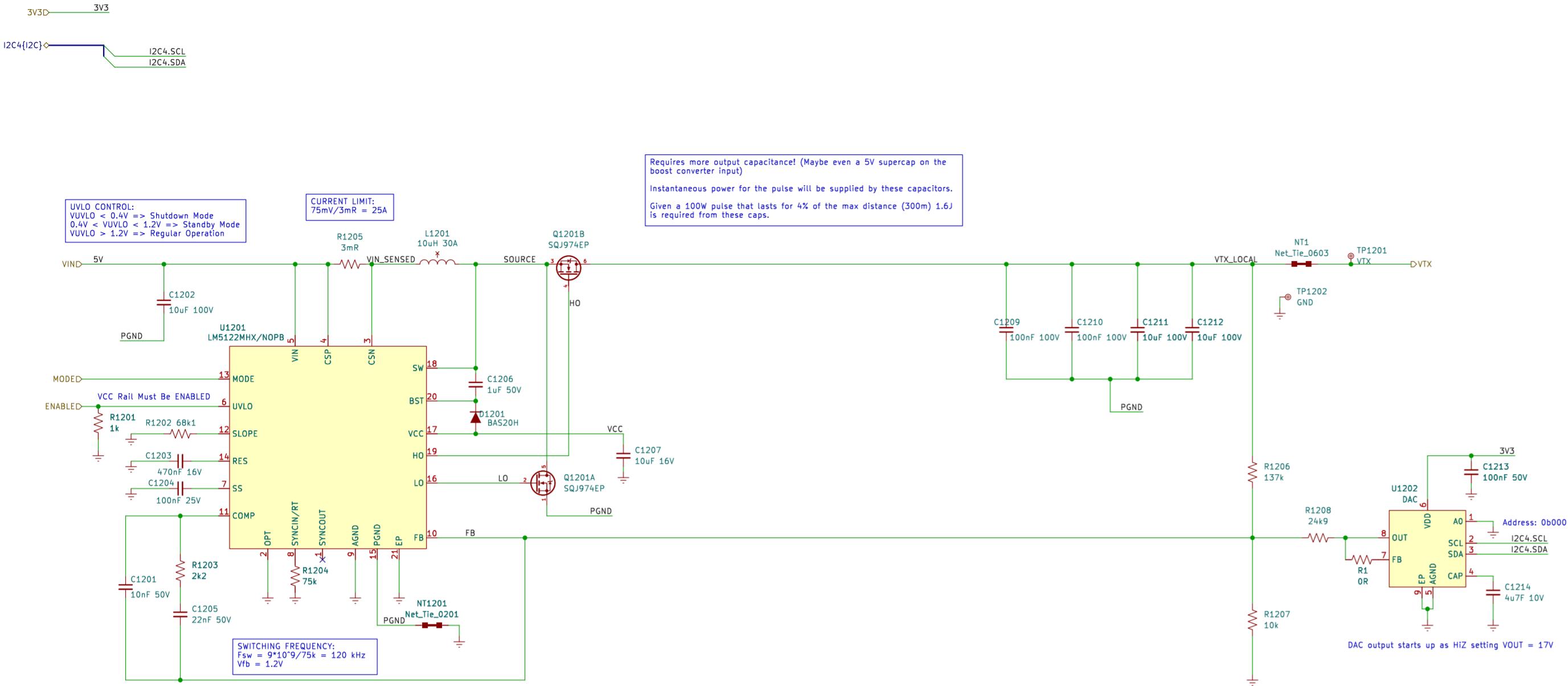
OUTPUT VOLTAGE:  
VOUT:  $(0.6V * (RSET + 10k)) / 10k$



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Item Number: BR-103907	Description:
Unpop. PCB: BR-103907-001 RevB	PCBA: BR-103907-002 RevB
Size: A2	Date:
KiCad E.D.A. 9.0.5	Sheet: /Power/3V3 Buck/

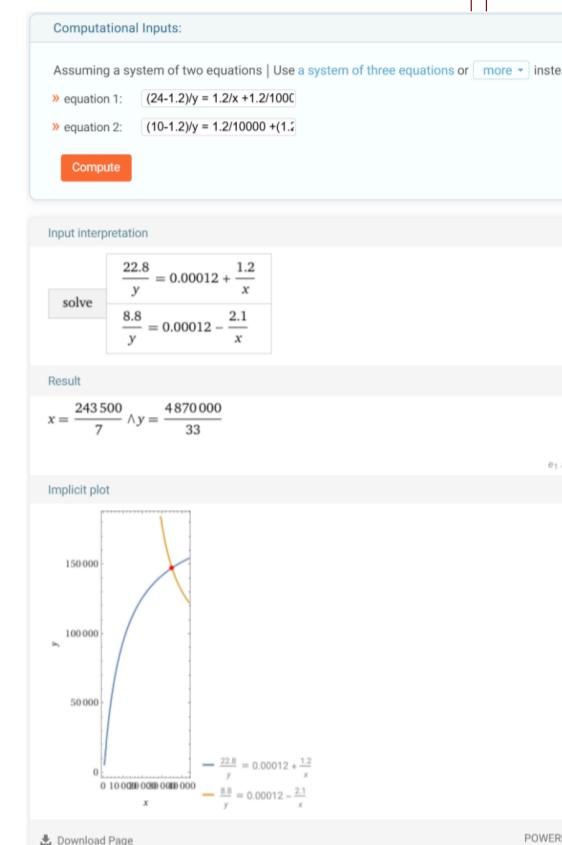
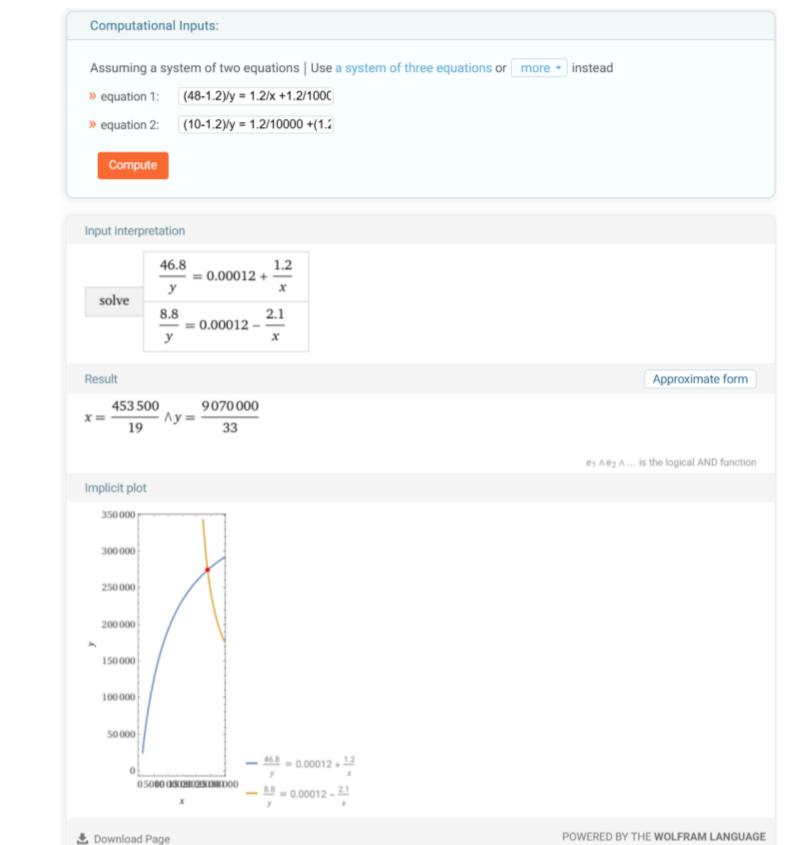
1	2	3	4	5	6	7	8	9	10	11
A	B	C	D	E	F	G	H	I	J	K



# RESISTORS FOR 10V–48V

X: RDAC  
Y: RFBT

# RESISTORS FOR 10V- X: RDAC Y: RFBT

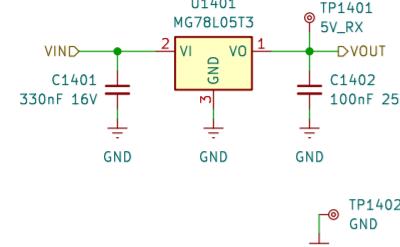


$V_{IN} = 5V$   
 $V_{OUT} = 7V$   
 $V_{out} = V_{IN}/(1-D)$   
 $\rightarrow D = 31.5\%$  (including diode drop)  
 $\rightarrow t_{ON} = 197ns$



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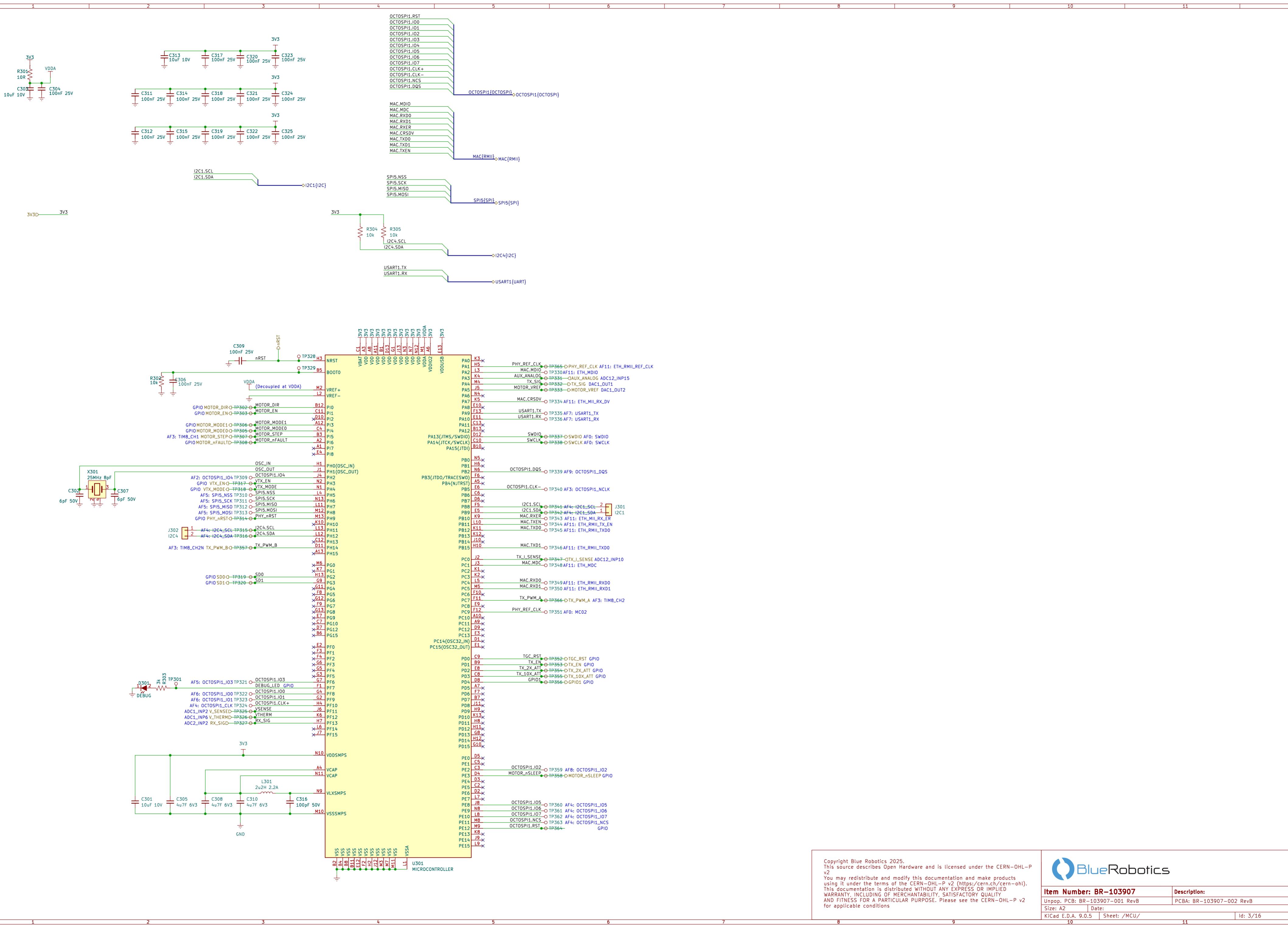
**BlueRobotics**  
Item Number: BR-103907      Description:  
Unpop. PCB: BR-103907-001 RevB      PCBA: BR-103907-002 RevB  
Size: A2      Date:  
KiCad E.D.A. 9.0.5      Sheet: /Power/7V Boost/      Id: 13/16

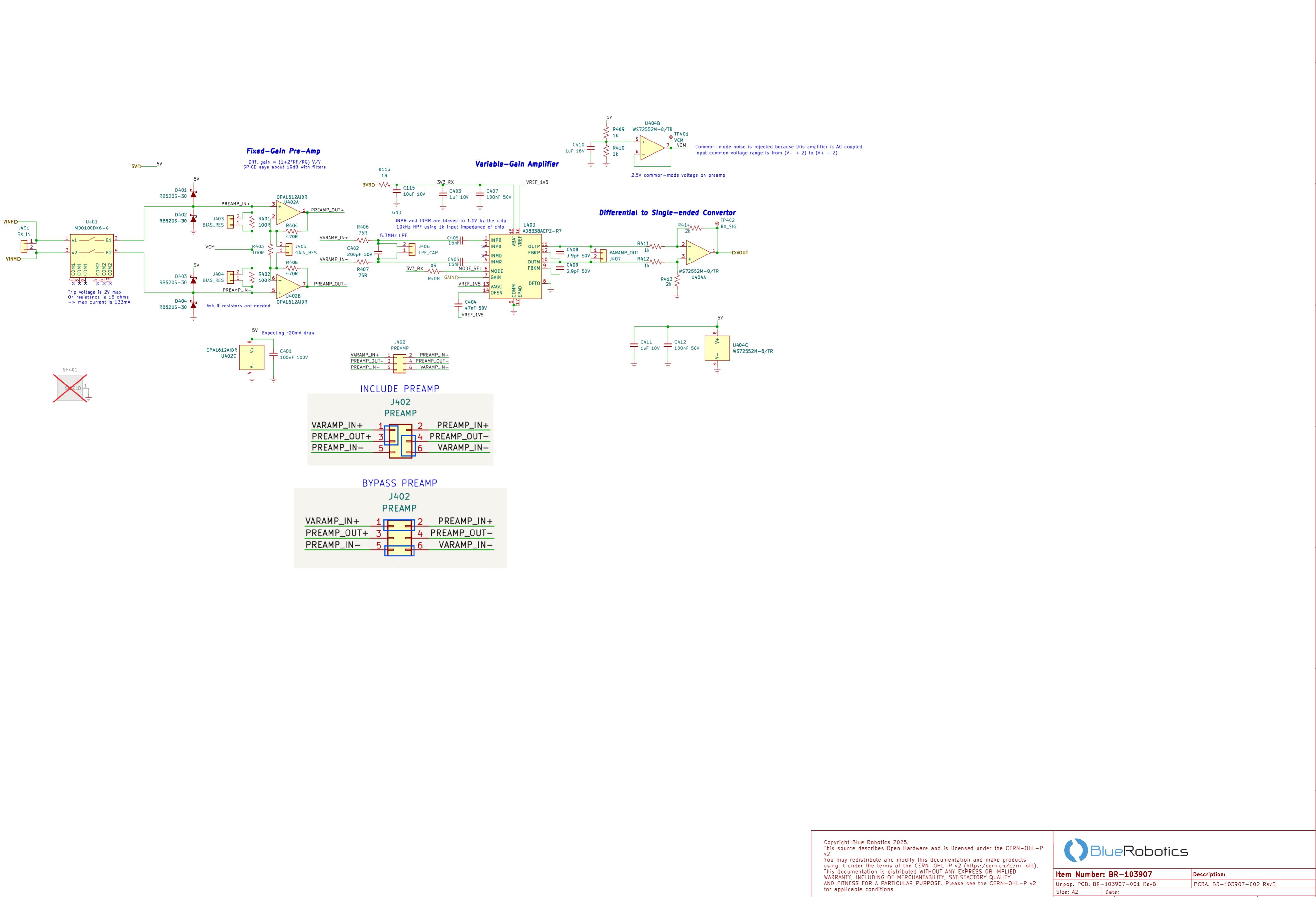


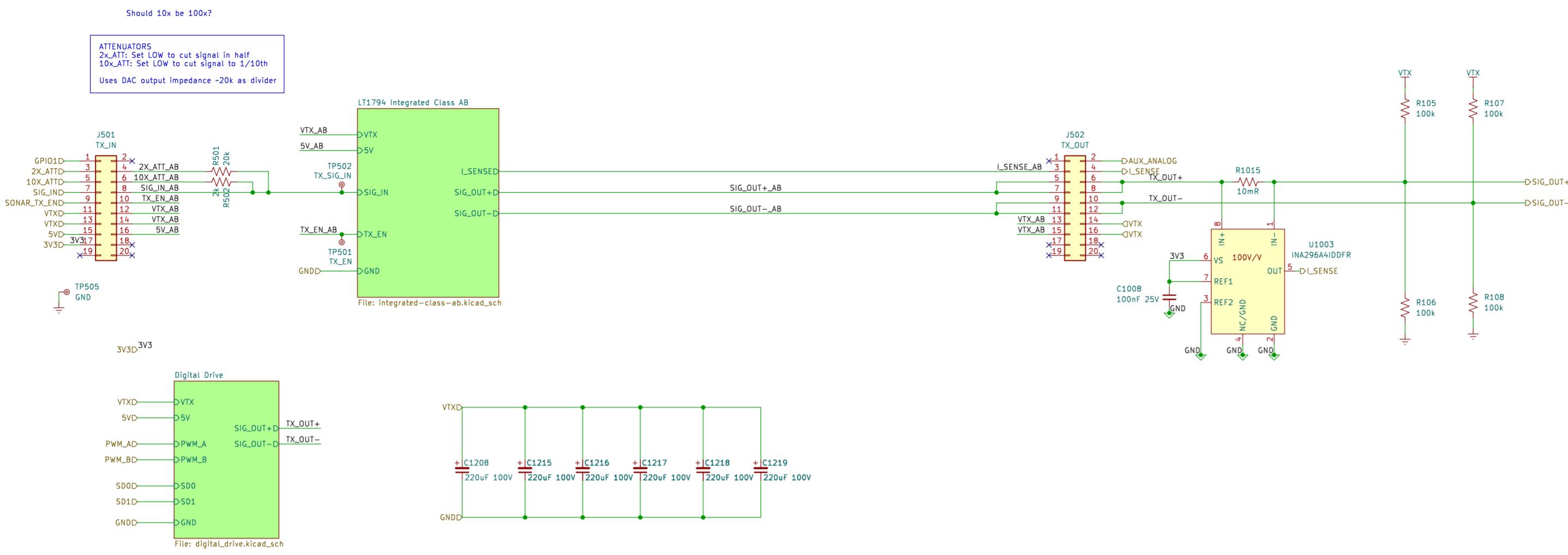
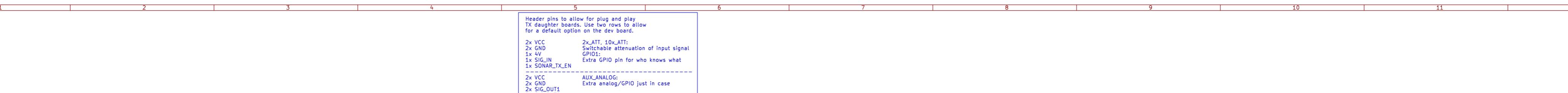
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<b>Item Number:</b> BR-103907	<b>Description:</b>
Unpop. PCB: BR-103907-001 RevB	PCBA: BR-103907-002 RevB
Size: A2	Date:
KiCad E.D.A. 9.0.5	Sheet: /Power/5V LDO/

Id: 14/16

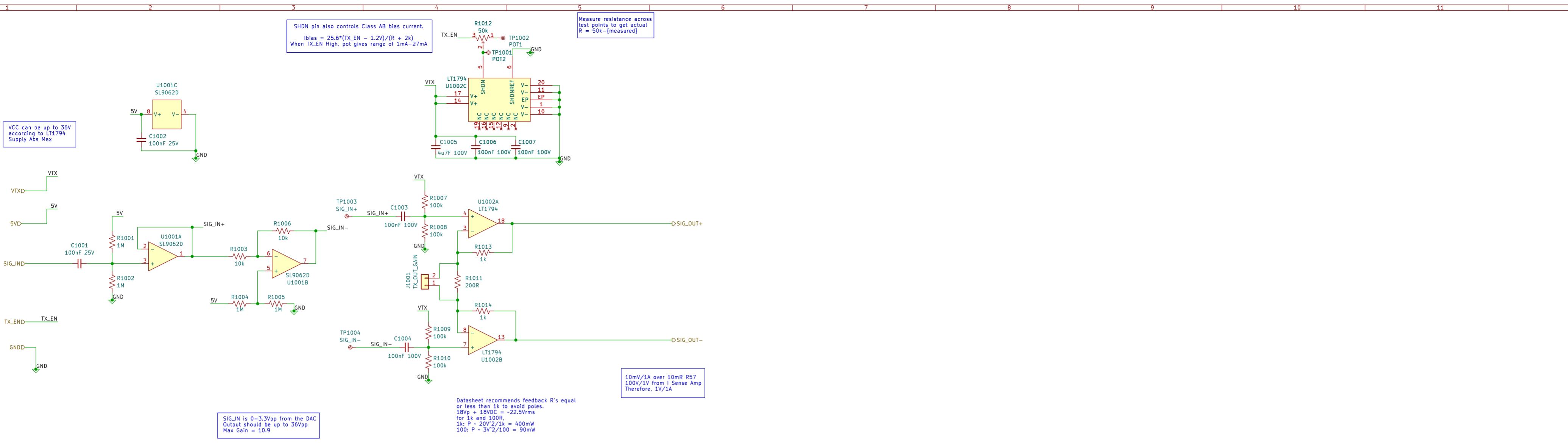






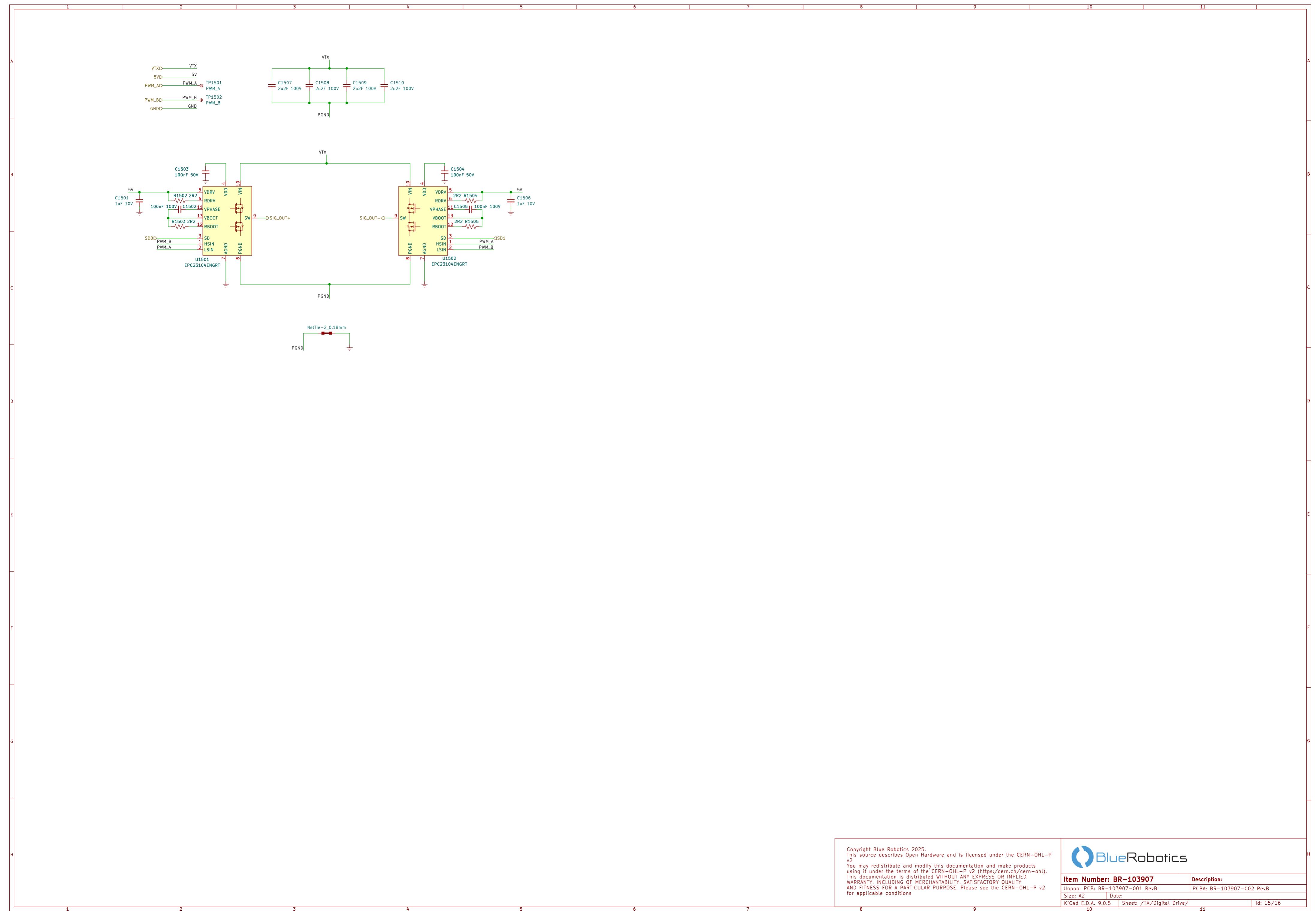
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Item Number: BR-103907	Description:
Unpop. PCB: BR-103907-001 RevB	PCBA: BR-103907-002 RevB
Size: A2	Date:
KiCad E.D.A. 9.0.5	Sheet: /TX/



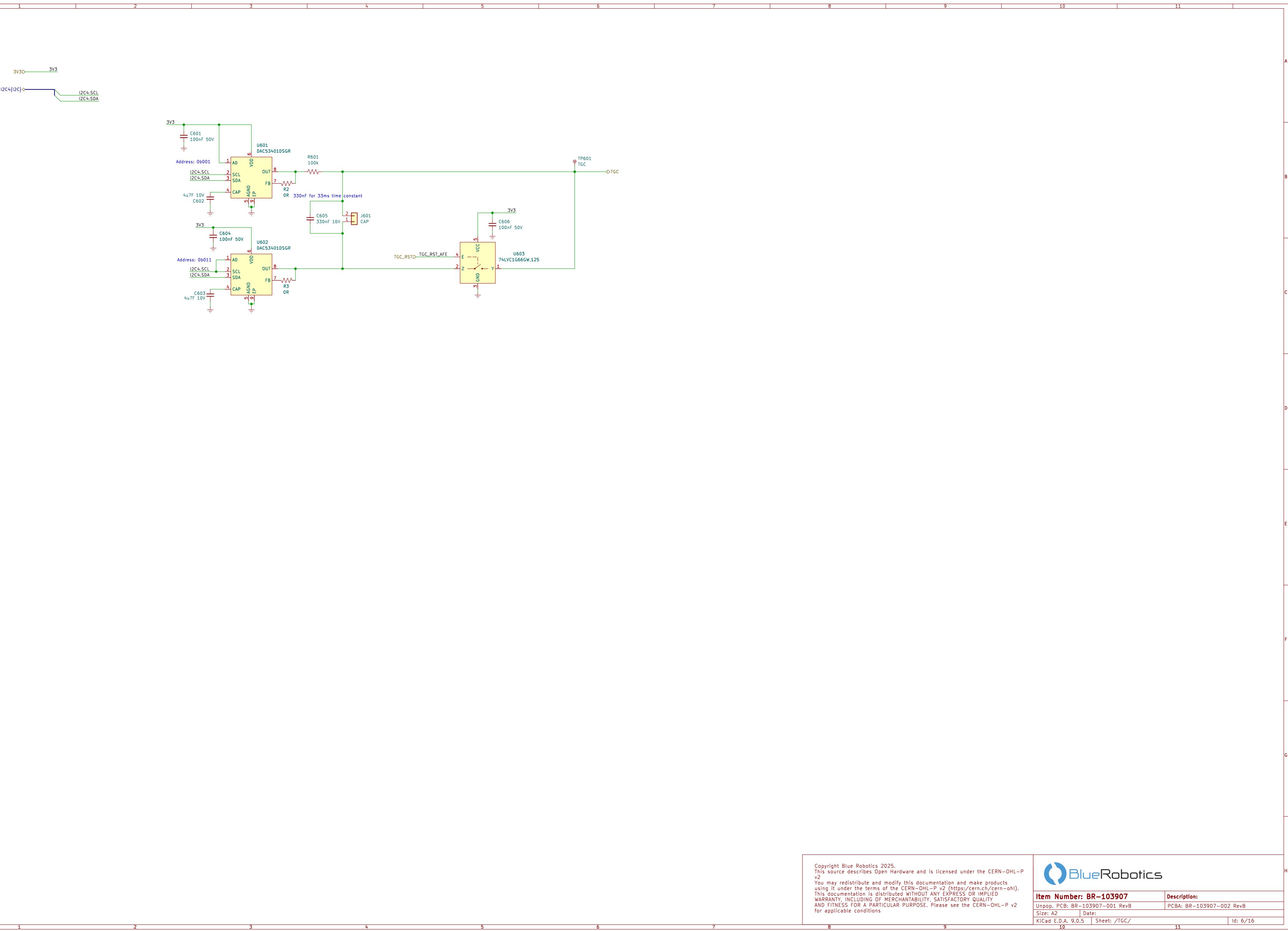
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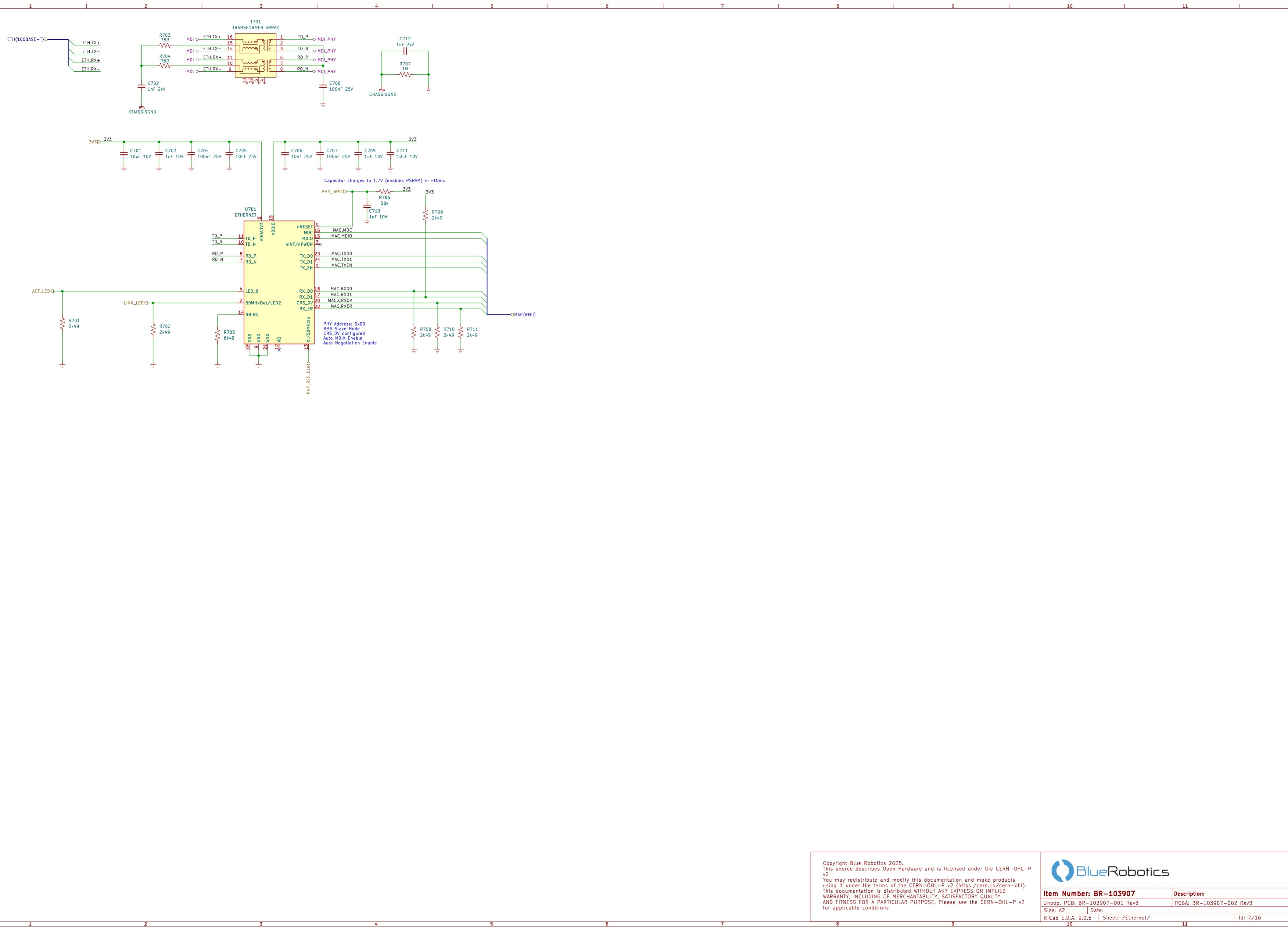
Item Number: BR-103907	Description:
Unpop. PCB: BR-103907-001 RevB	PCBA: BR-103907-002 RevB
Size: A2	Date:
KiCad E.D.A. 9.0.5	Sheet: /TX/LT1794 Integrated Class AB/
	Id: 10/16



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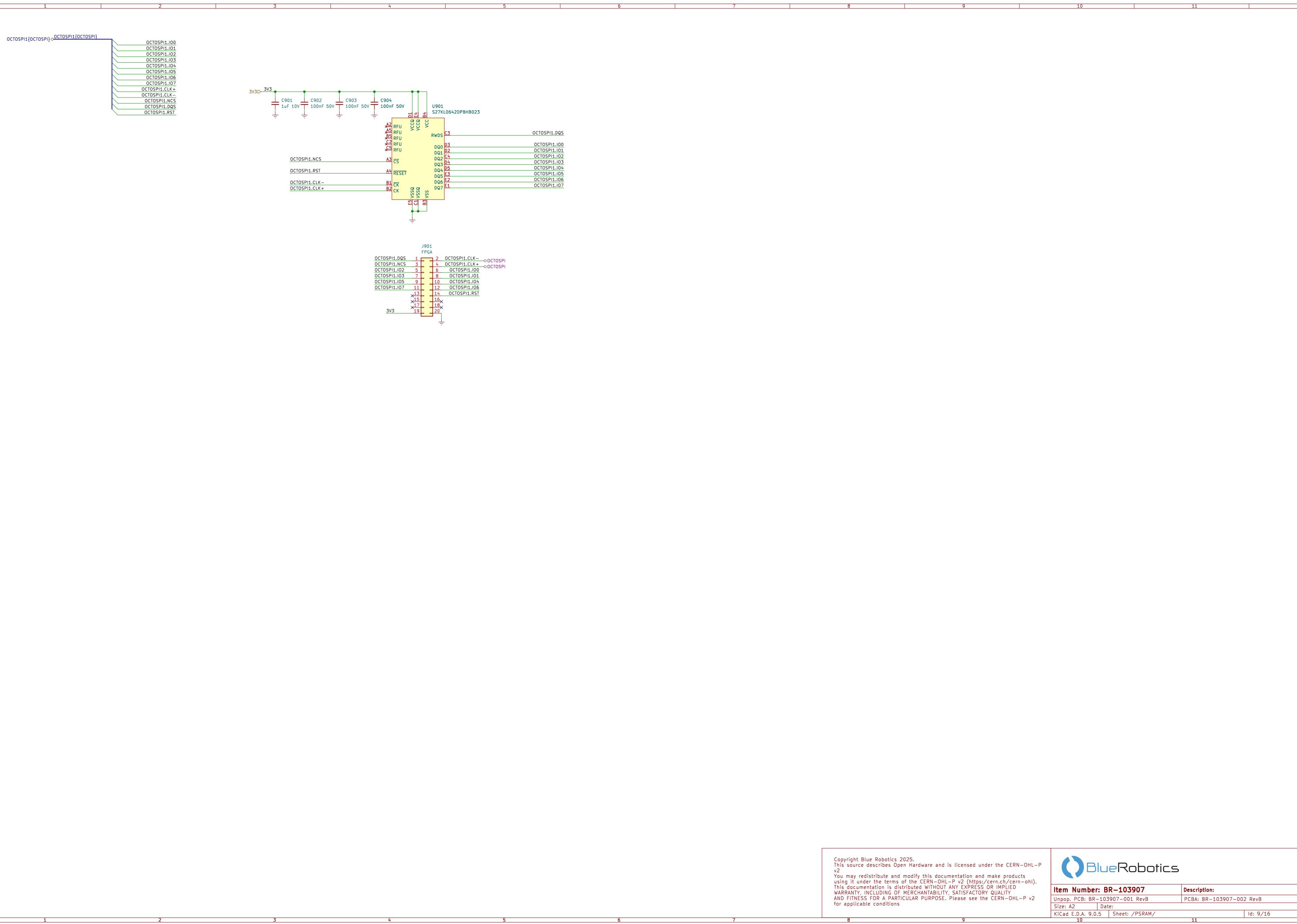
Item Number: BR-103907	Description:
Unpop. PCB: BR-103907-001 RevB	PCBA: BR-103907-002 RevB
Size: A2	Date:
KiCad E.D.A. 9.0.5	Sheet: /TX/Digital Drive/
	Id: 15/16





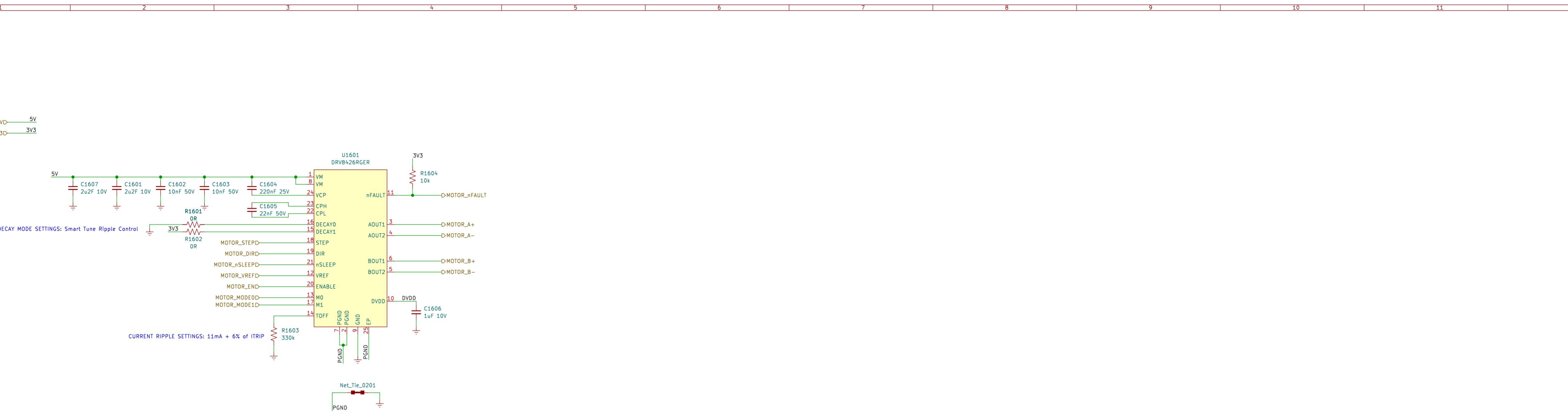
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Item Number: BR-103907	Description:
Unpop. PCB: BR-103907-001 RevB	PCBA: BR-103907-002 RevB
Size: A2	Date:
KiCad E.D.A. 9.0.5	Sheet: /Ethernet/



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**Item Number: BR-103907** | **Description:**  
 Unpop. PCB: BR-103907-001 RevB | PCBA: BR-103907-002 RevB  
 Size: A2 | Date:  
 KiCad E.D.A. 9.0.5 | Sheet: /PSRAM/ | Id: 9/16



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<b>Item Number:</b> BR-103907	<b>Description:</b>
Unpop. PCB: BR-103907-001 RevB	PCBA: BR-103907-002 RevB
Size: A2	Date:
KiCad E.D.A. 9.0.5	Sheet: /Stepper Driver/
	Id: 16/16