

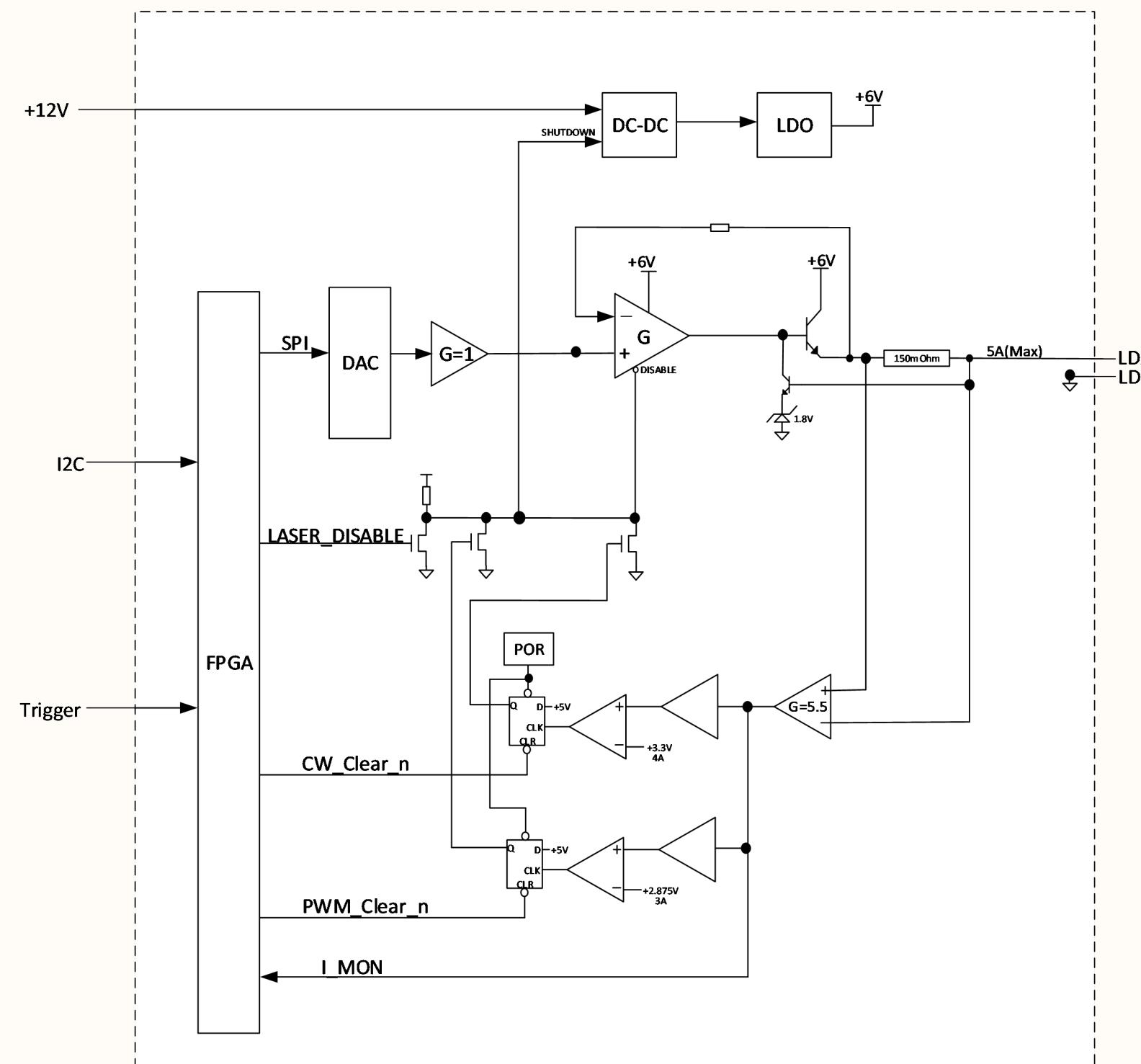
- A
1. Cover
2. Diagram
3. Main Power
4. Console Power Supply
5. TEC Power Supply
6. TA Seed Digital Power Supply
7. Seed Driver Positive Power Supply
8. Seed Driver Negative Power Supply
9. TA Driver Positive Power Supply
10. TA Driver Negative Power Supply
11. Safety Electrical Power Supply
12. Safety Optical Power Supply
13. Power up Sequencing
14. ADC
15. Console USB Hub
16. Console MCU28
17. Console Fan
18. Seed Driver
19. Seed CW Modulation
20. Seed FPGA
21. TA Driver
22. TA FPGA
23. TA Mount
24. Safety Electrical Monitoring
25. Safety Optical Monitoring
26. Safety Electrical FPGA
27. Safety Optical FPGA
28. TEC ADC
29. TEC Controller
30. E2 Hardware
- B
C
D

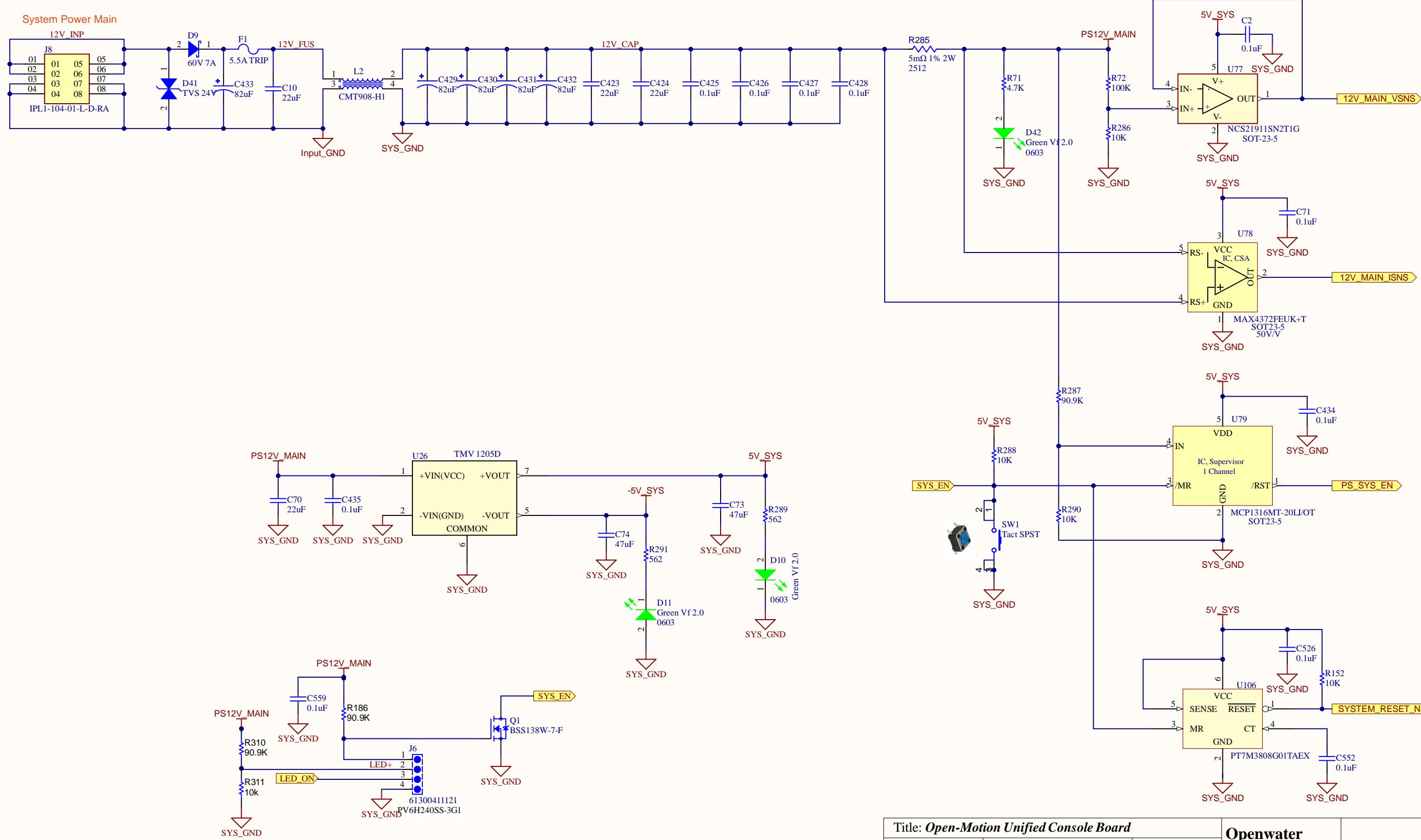
700-00010 Open-Motion Unified Console Board

REVISION 0

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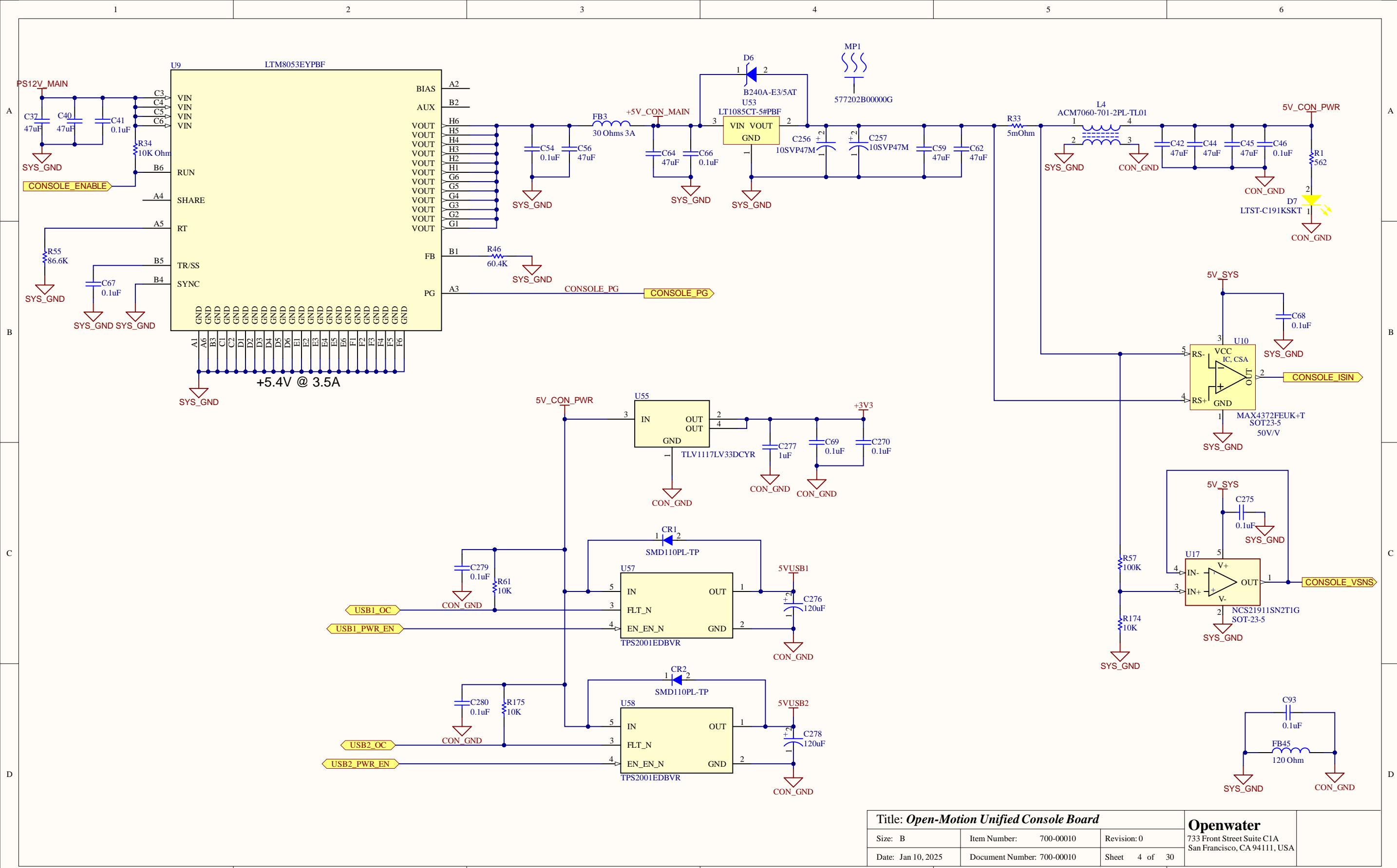


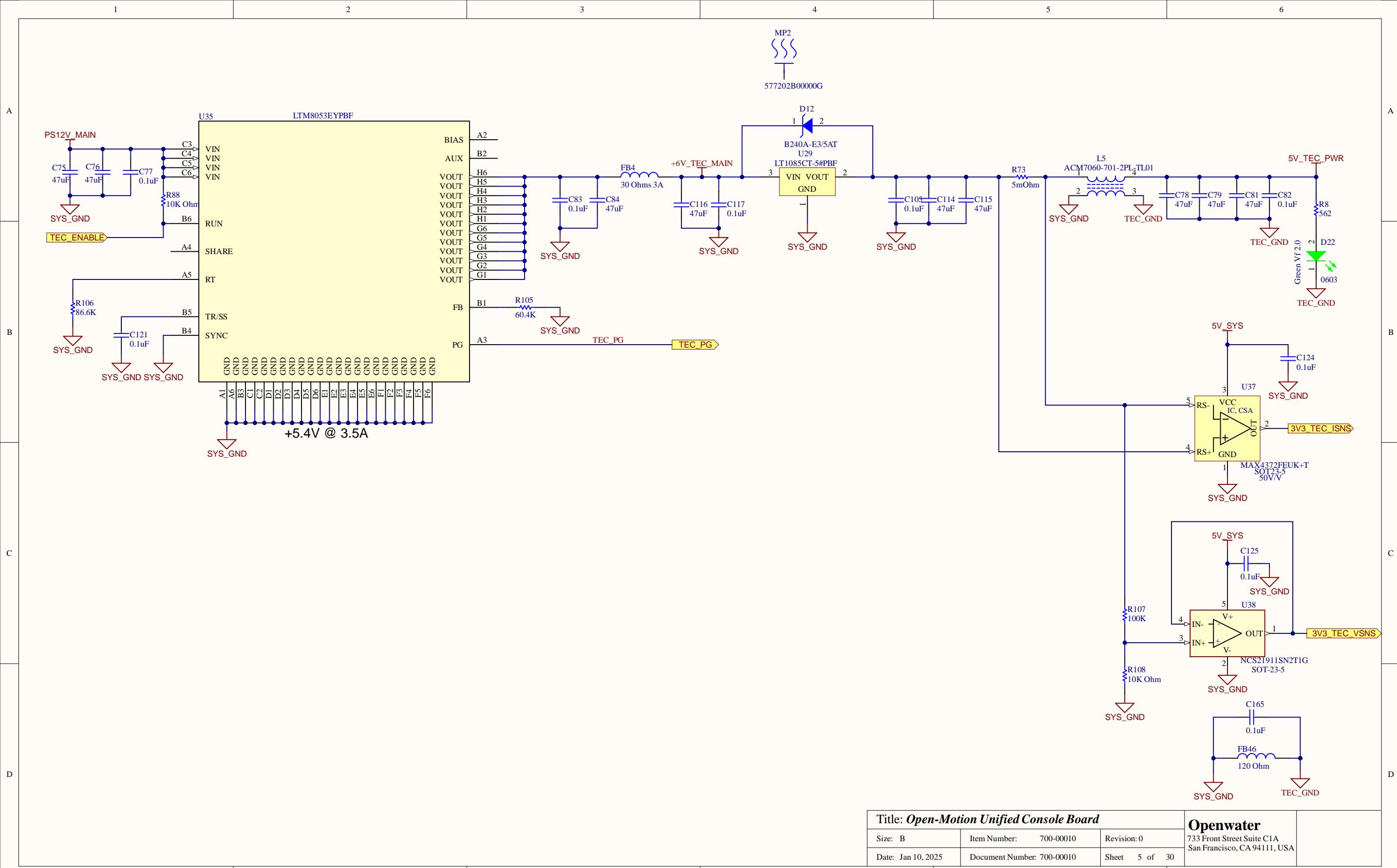


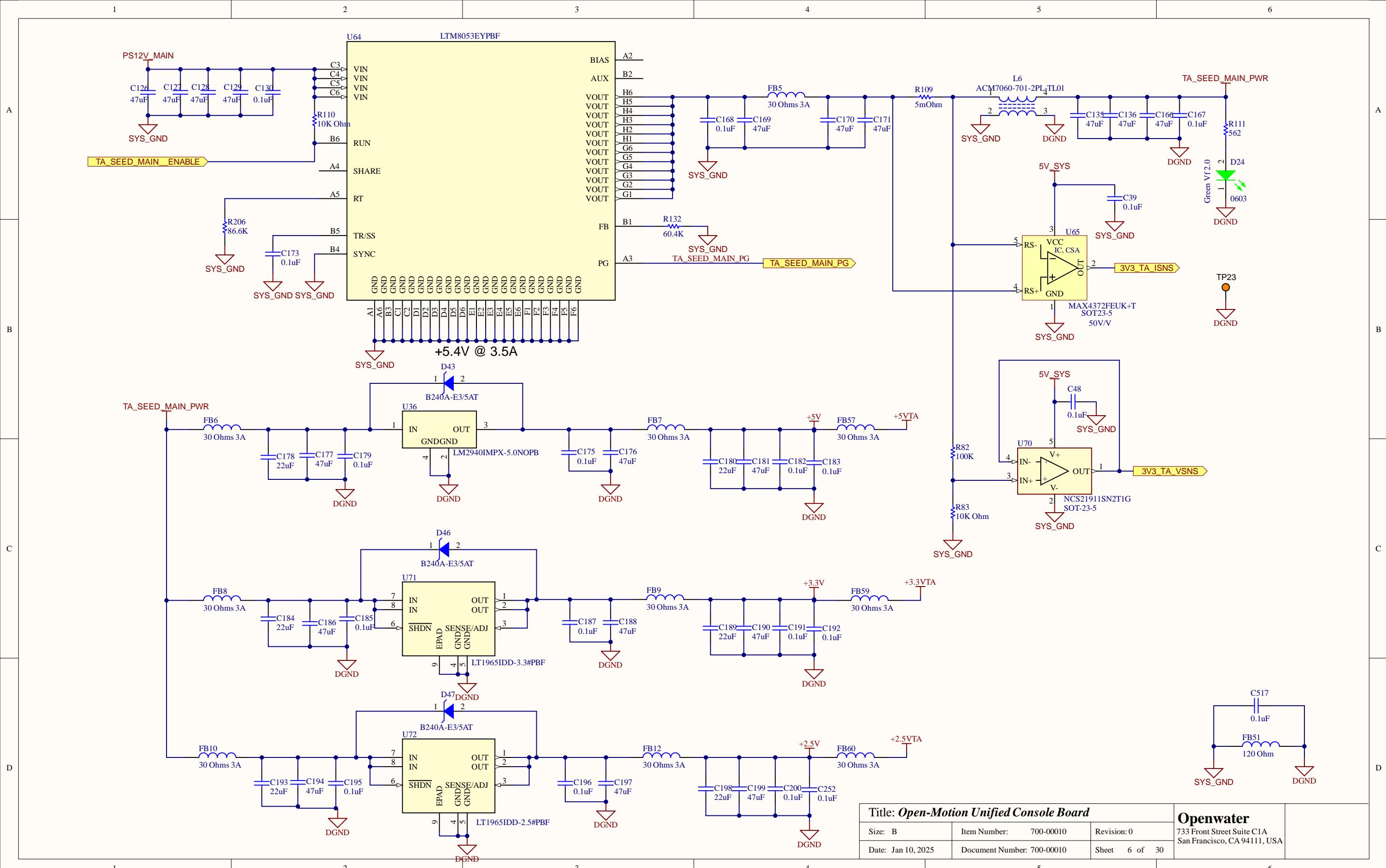
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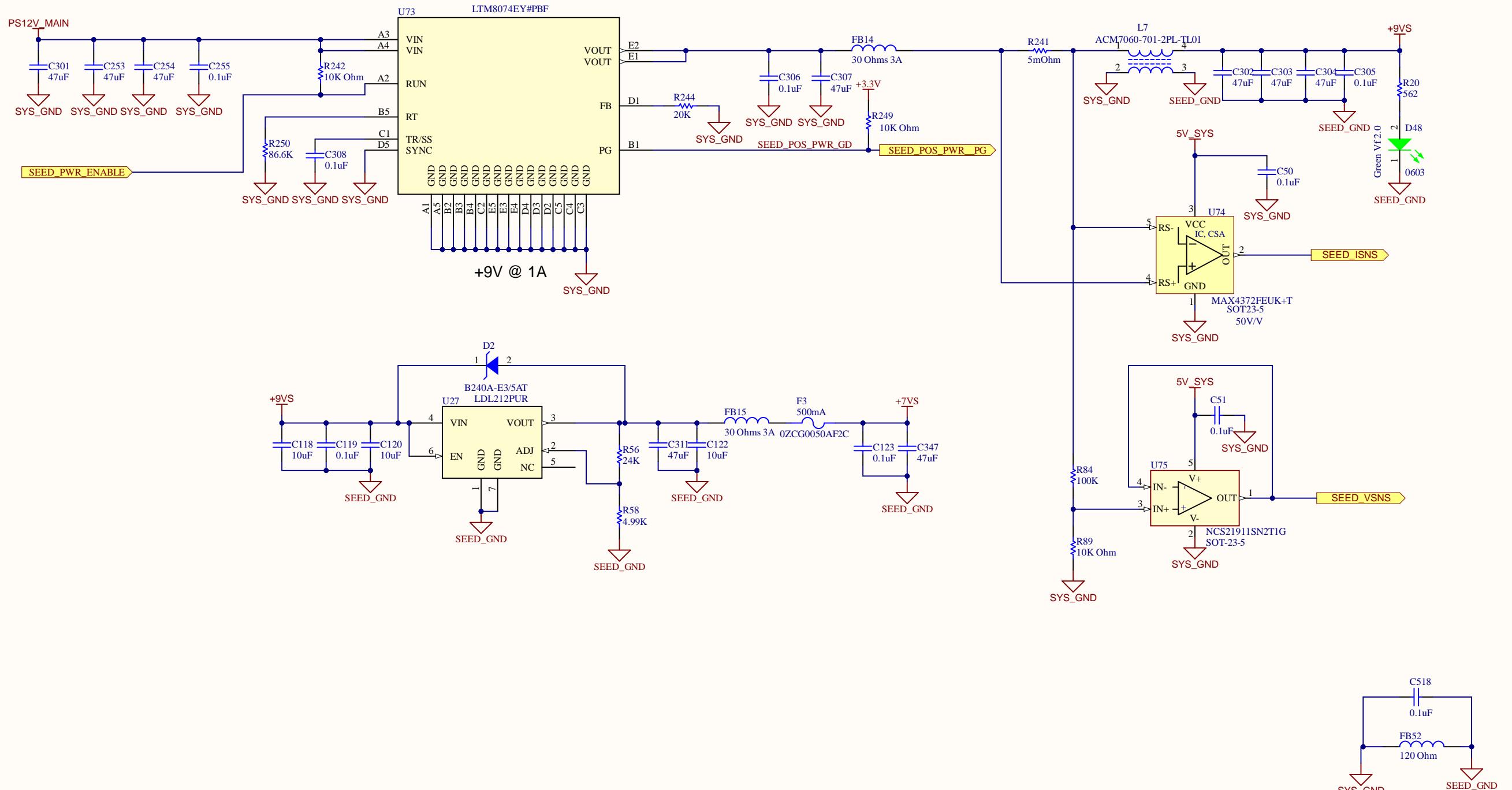




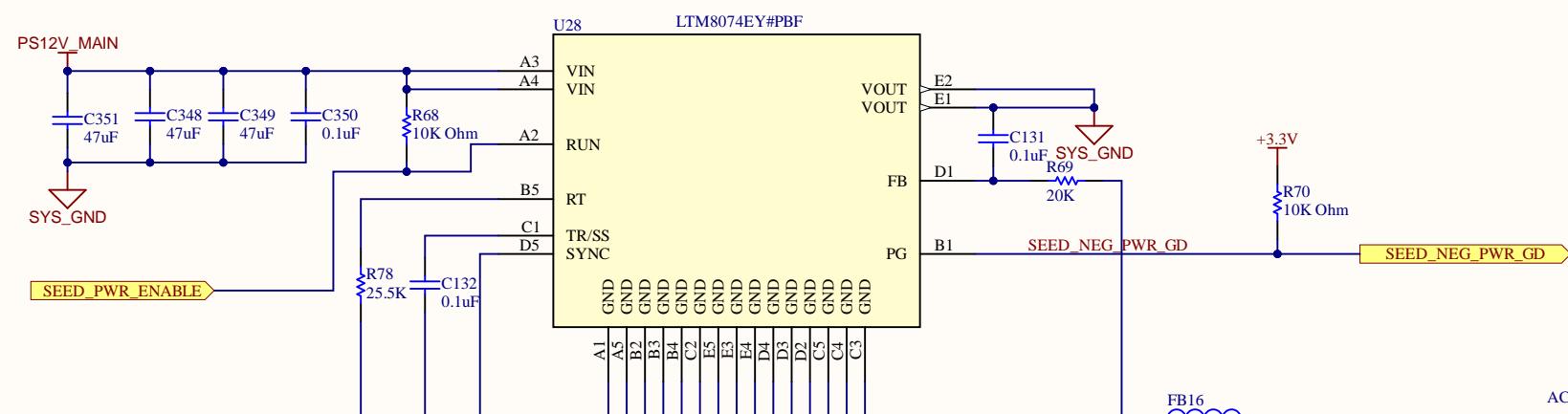
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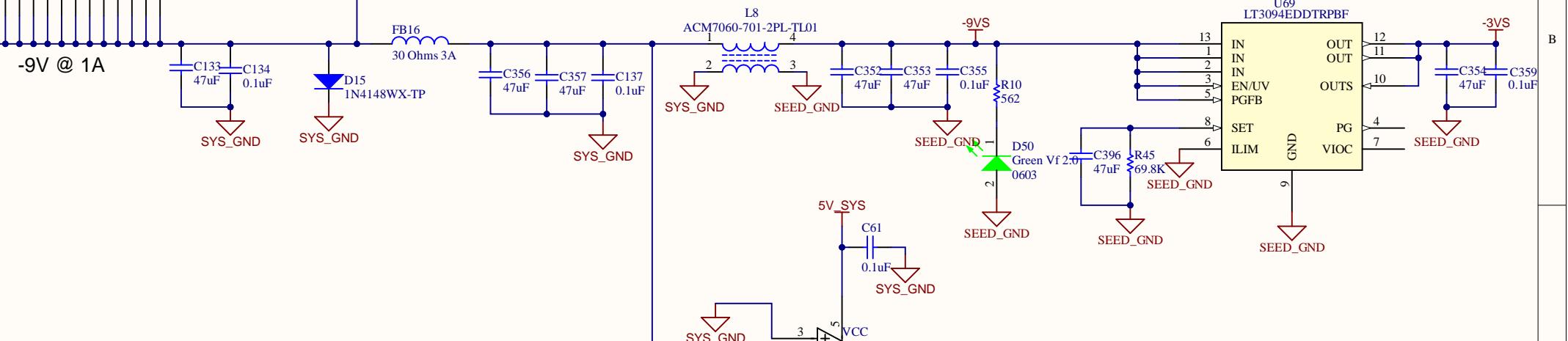
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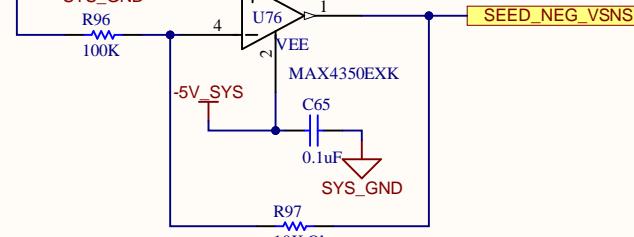
A



B



C



D

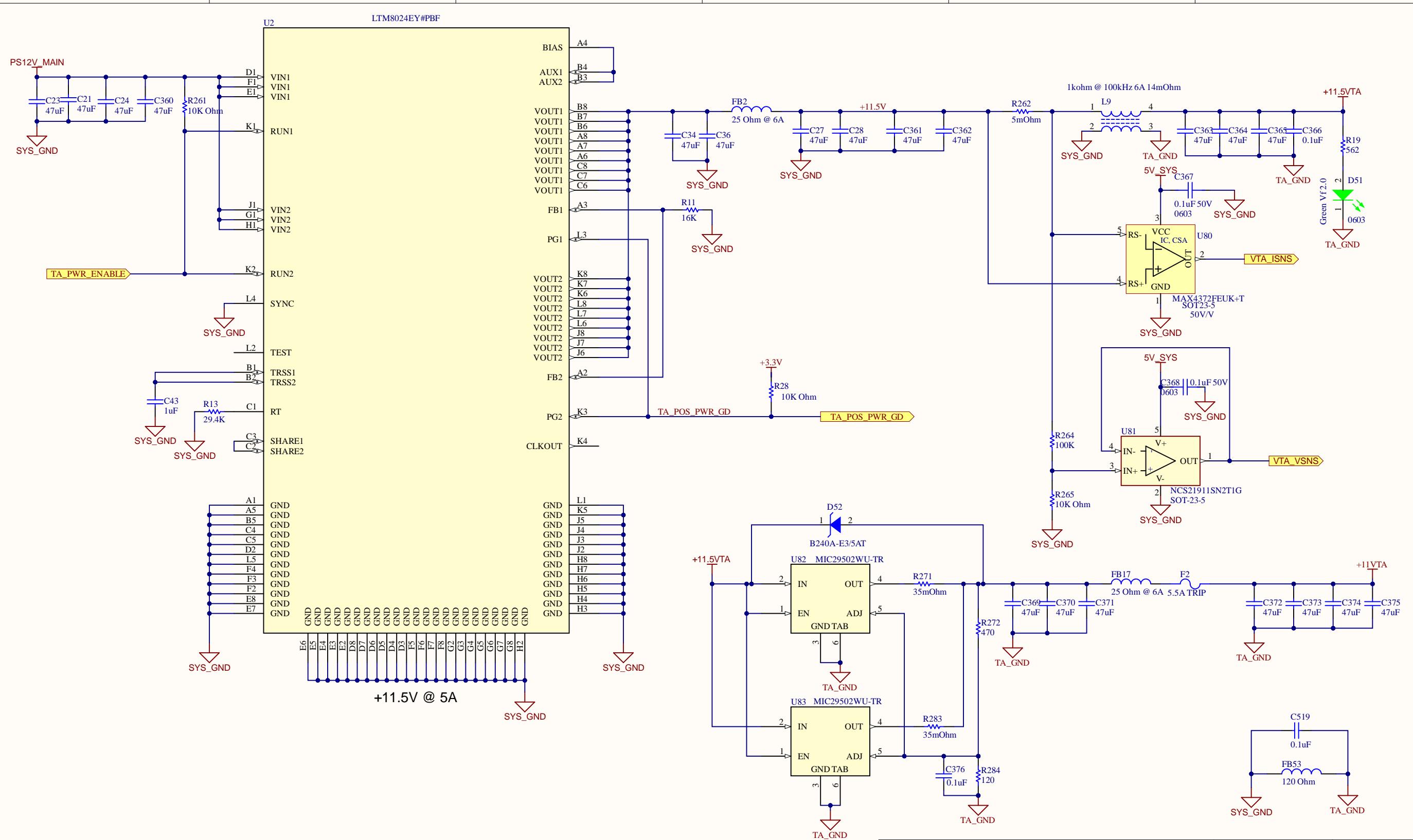
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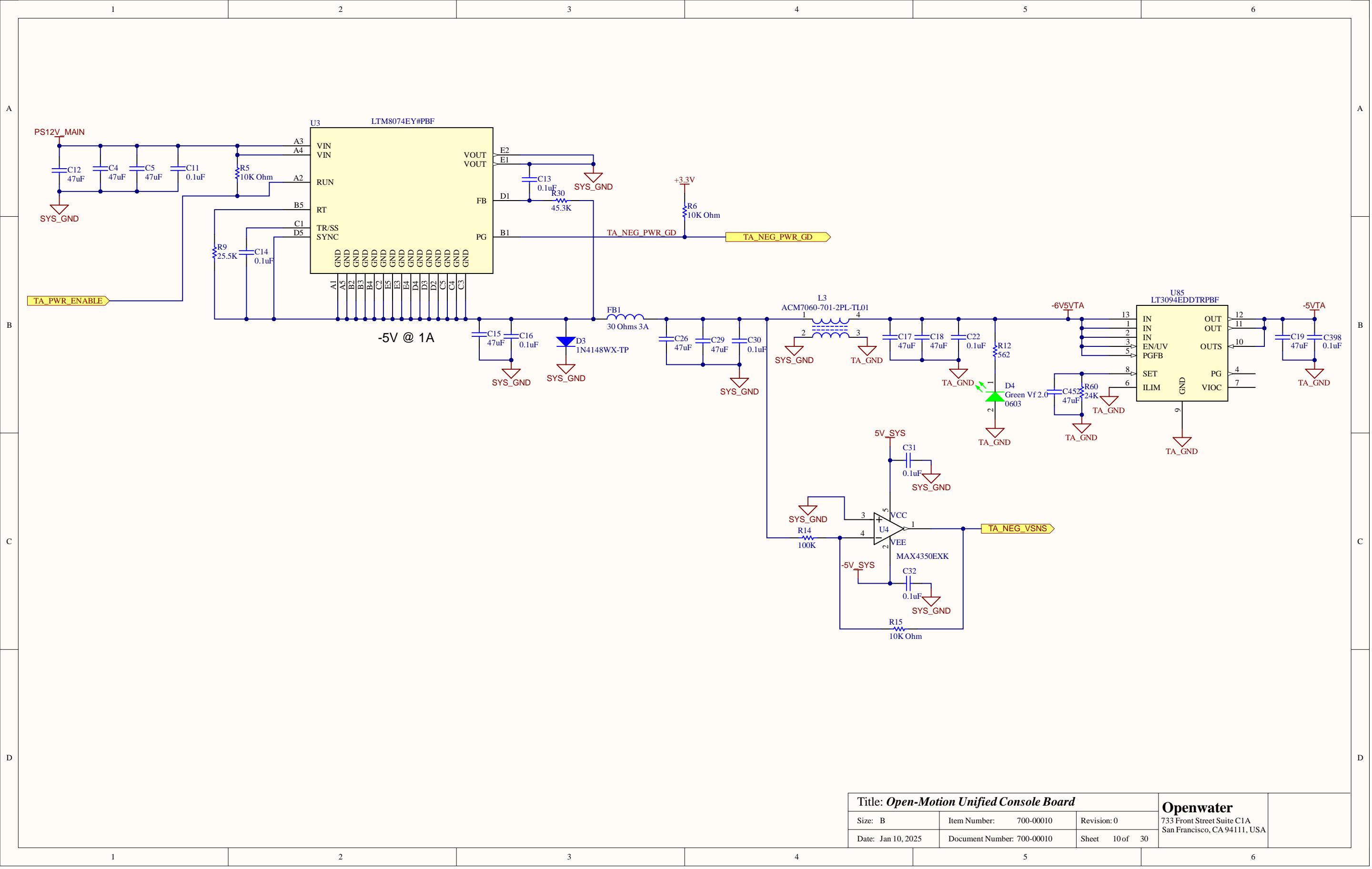
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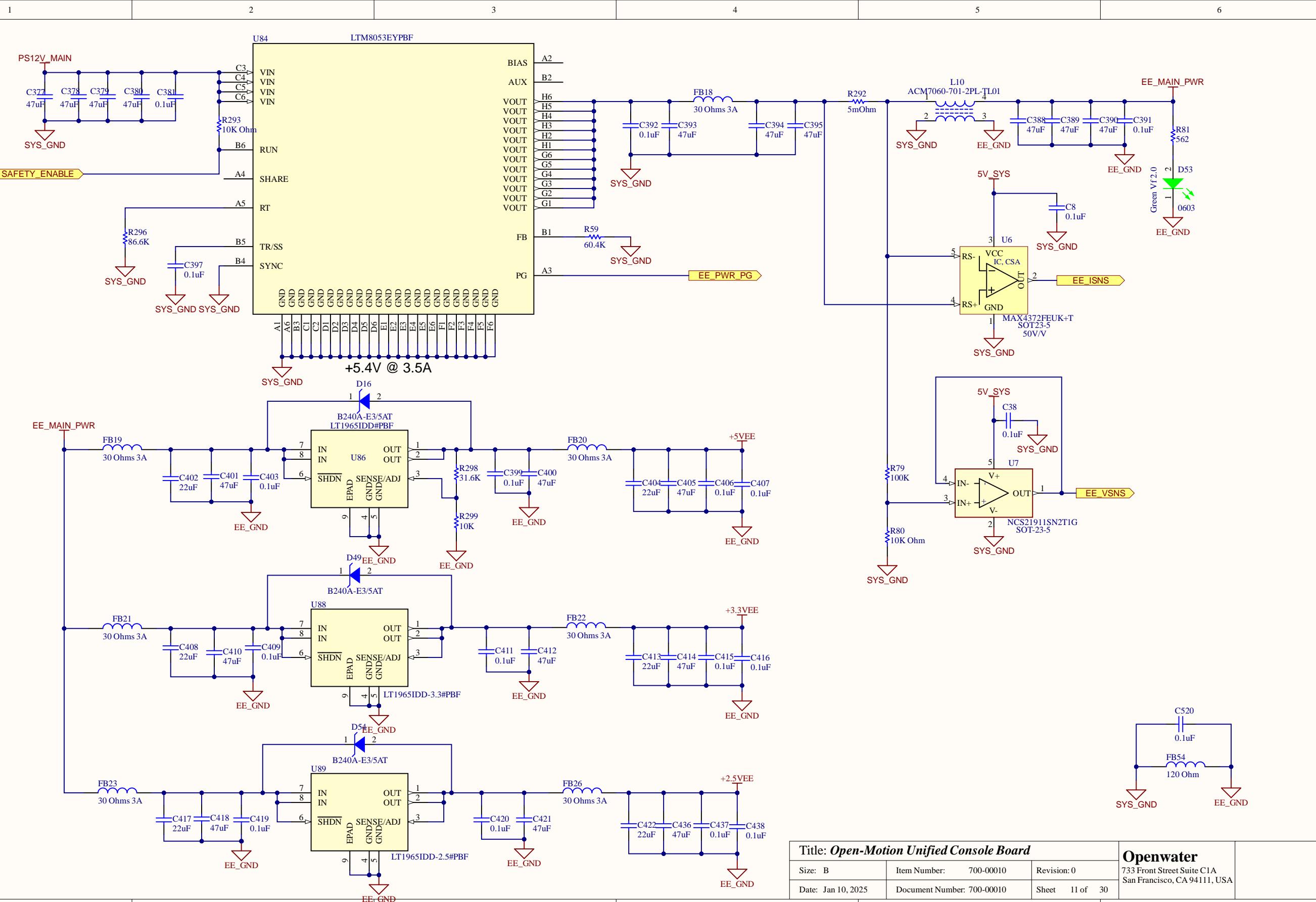
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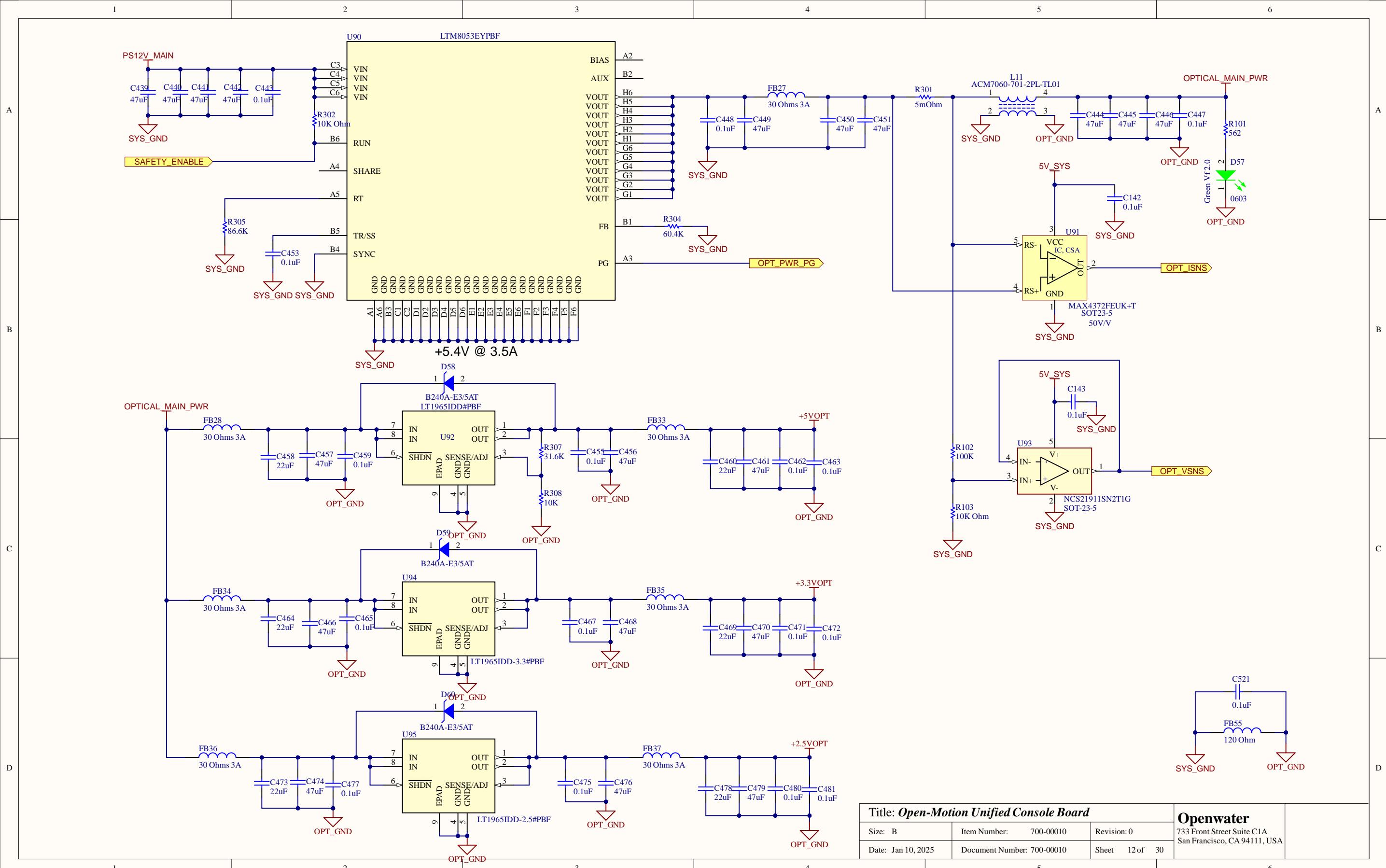




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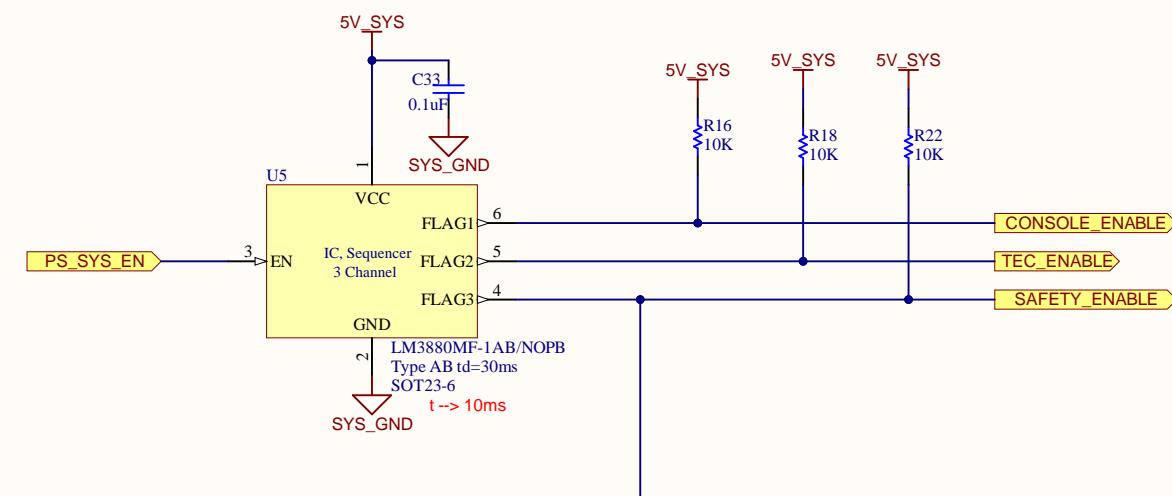


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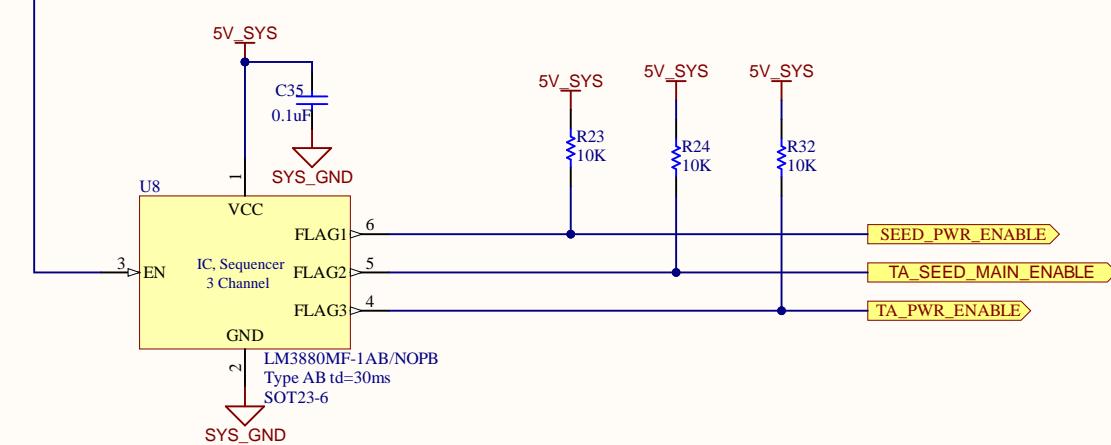
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A

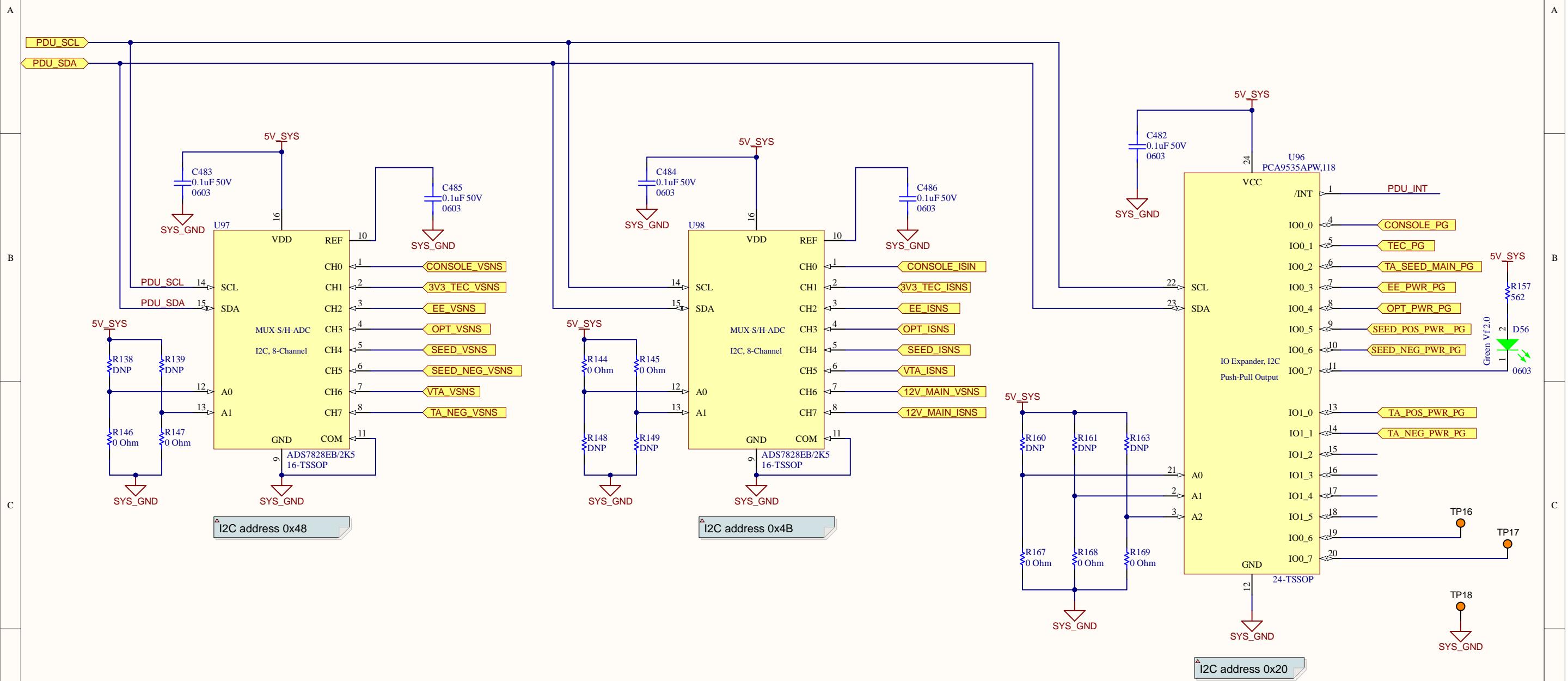


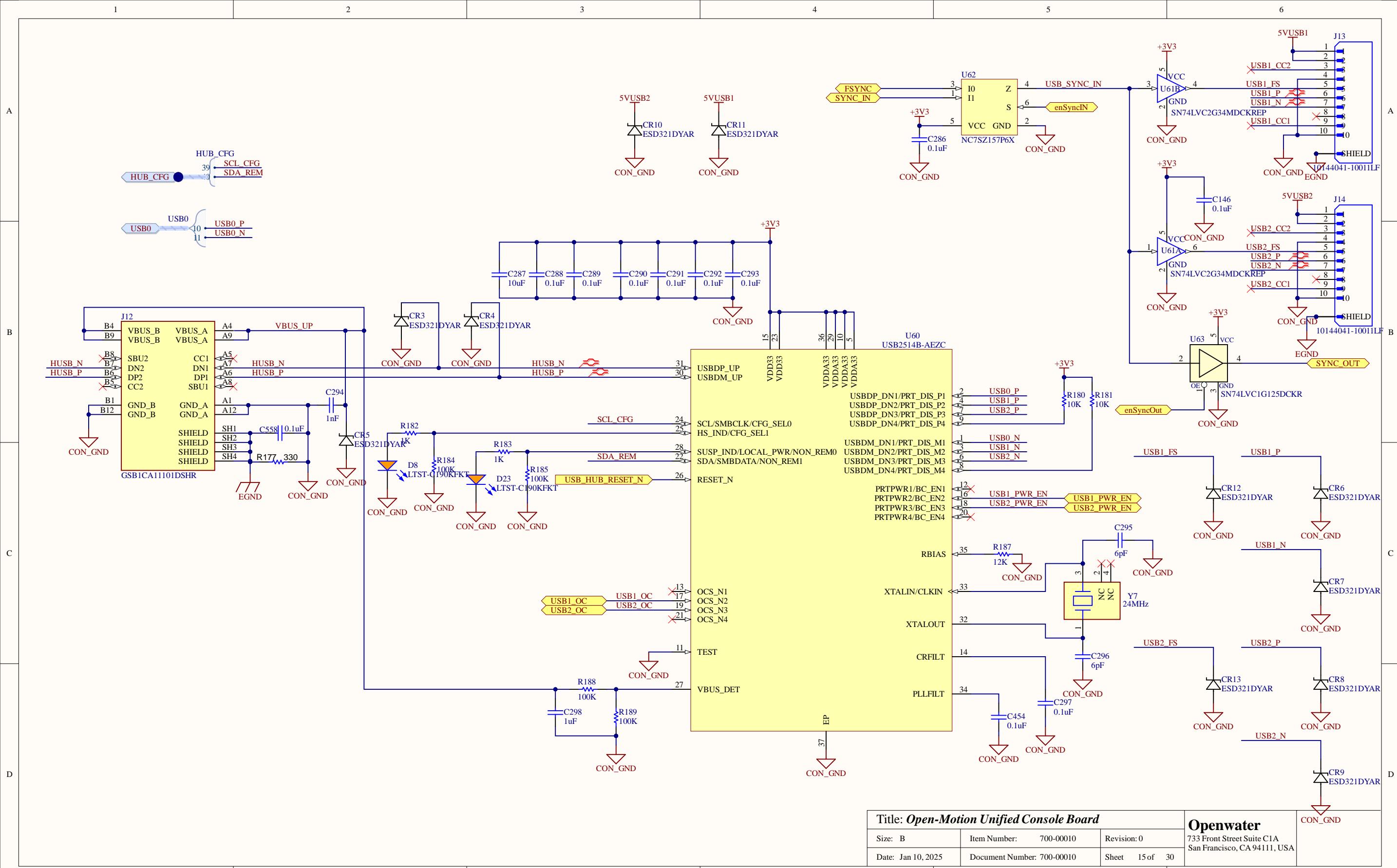
B



C

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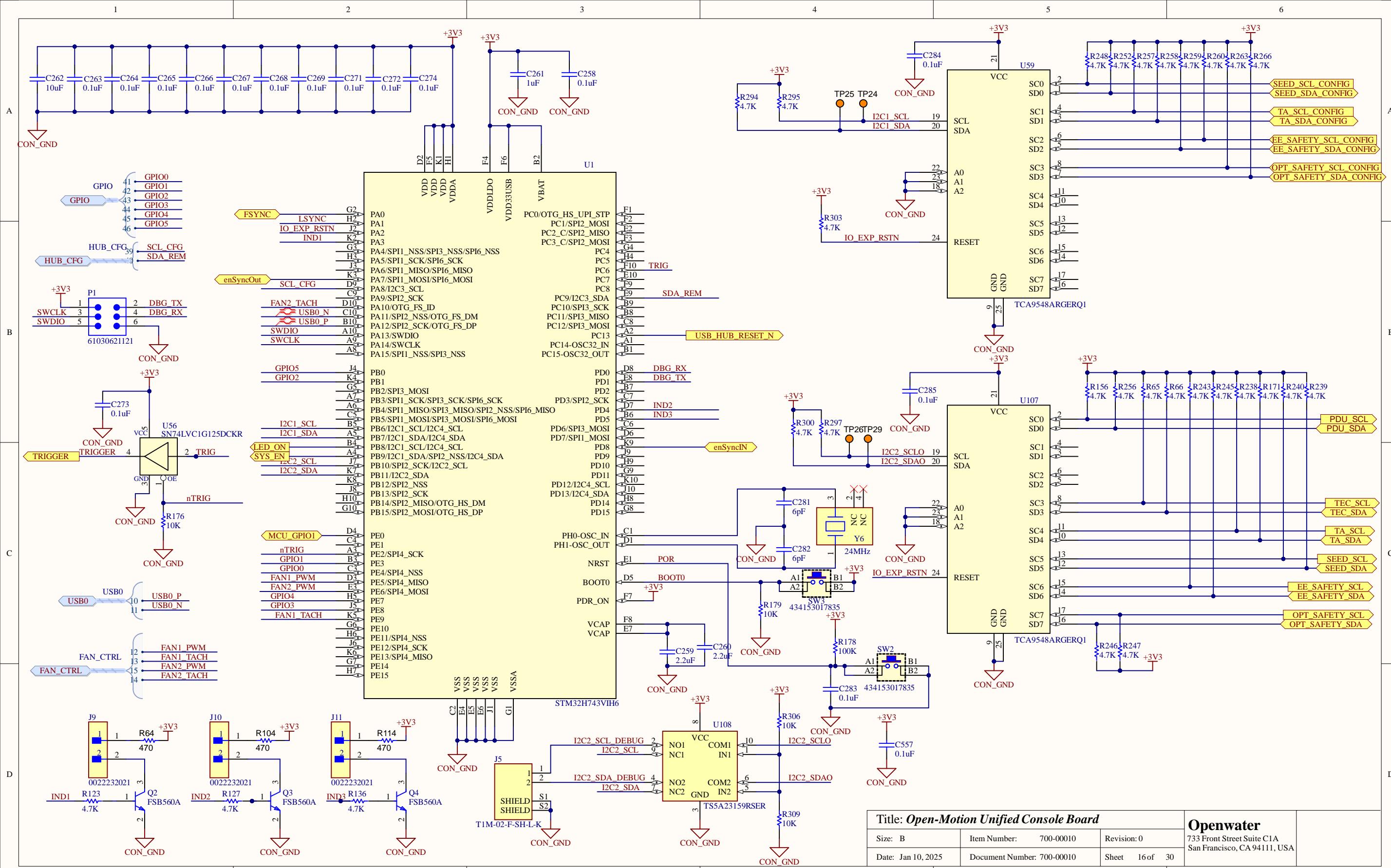


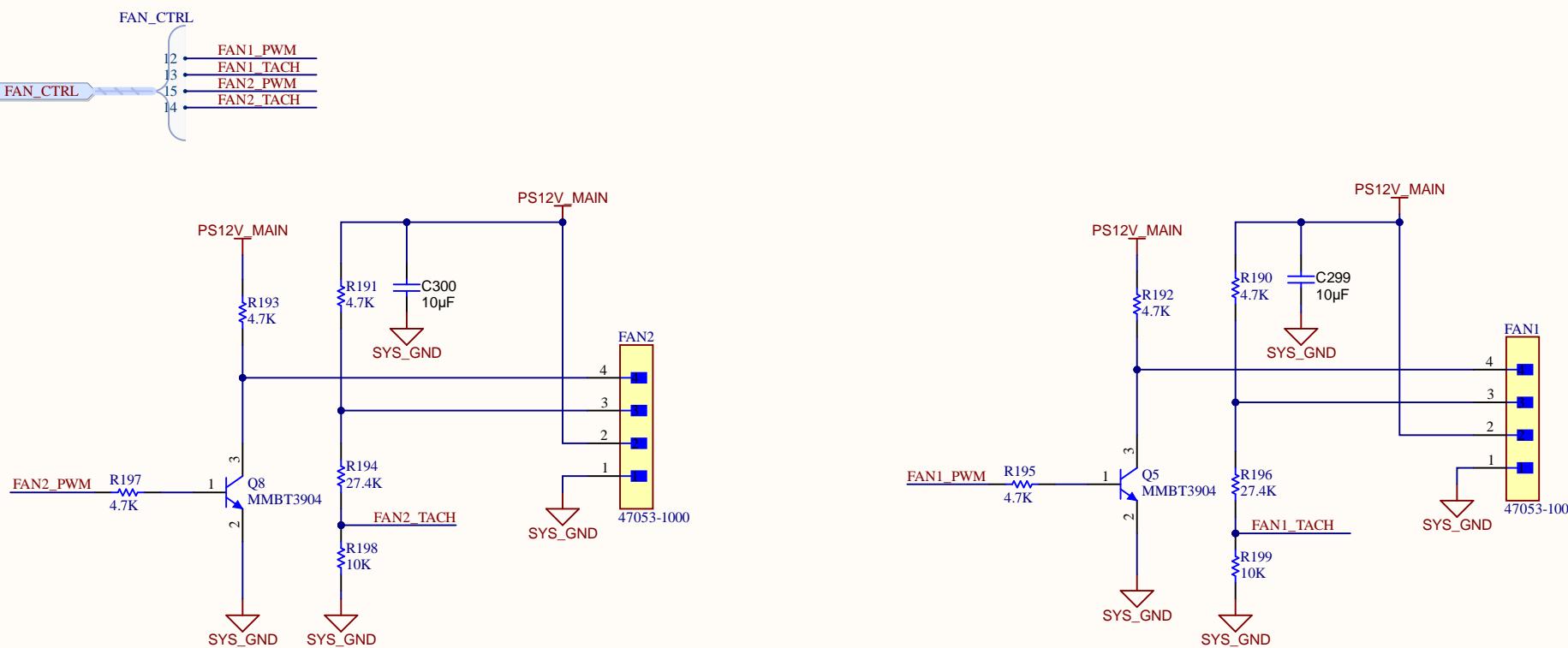
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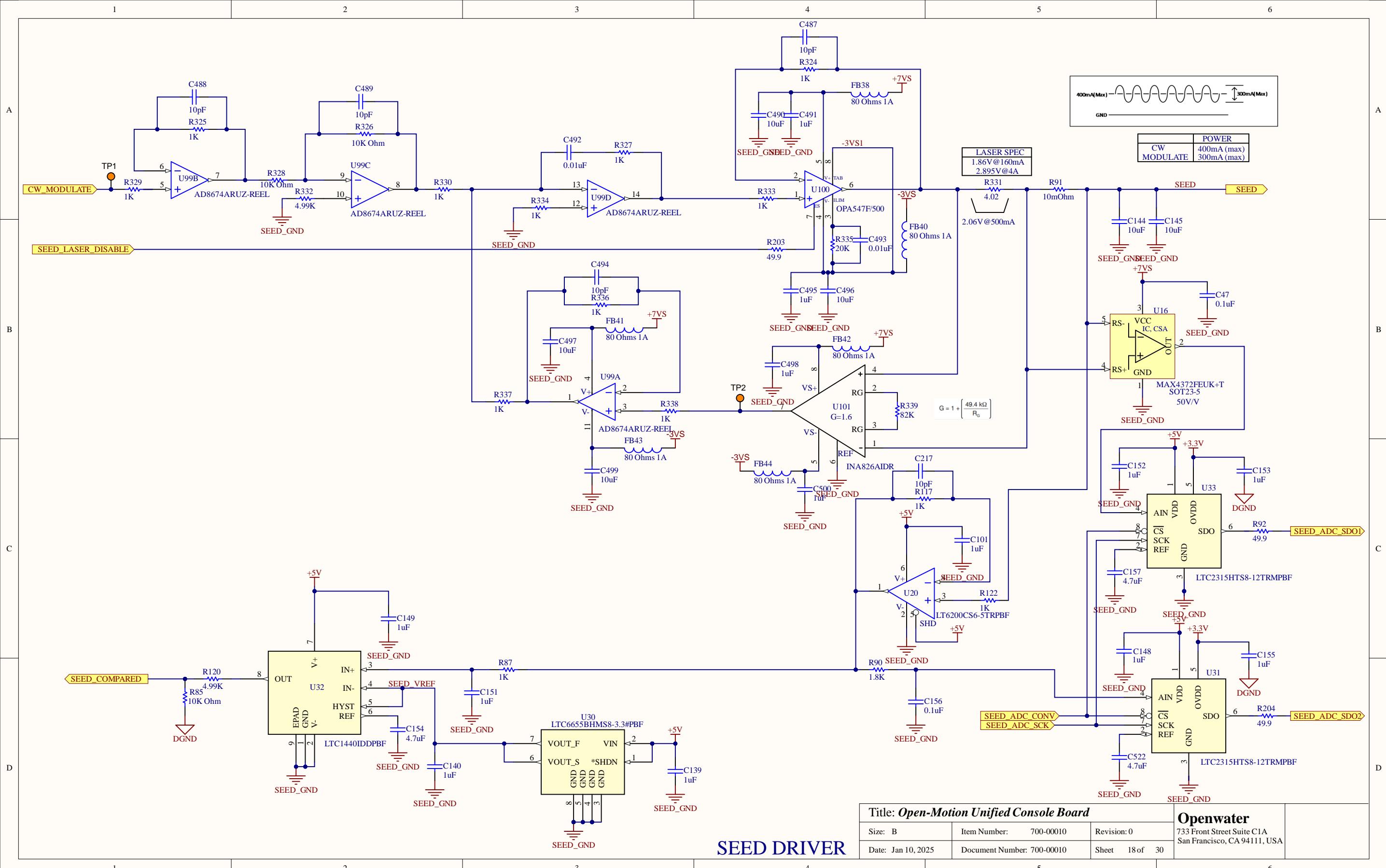
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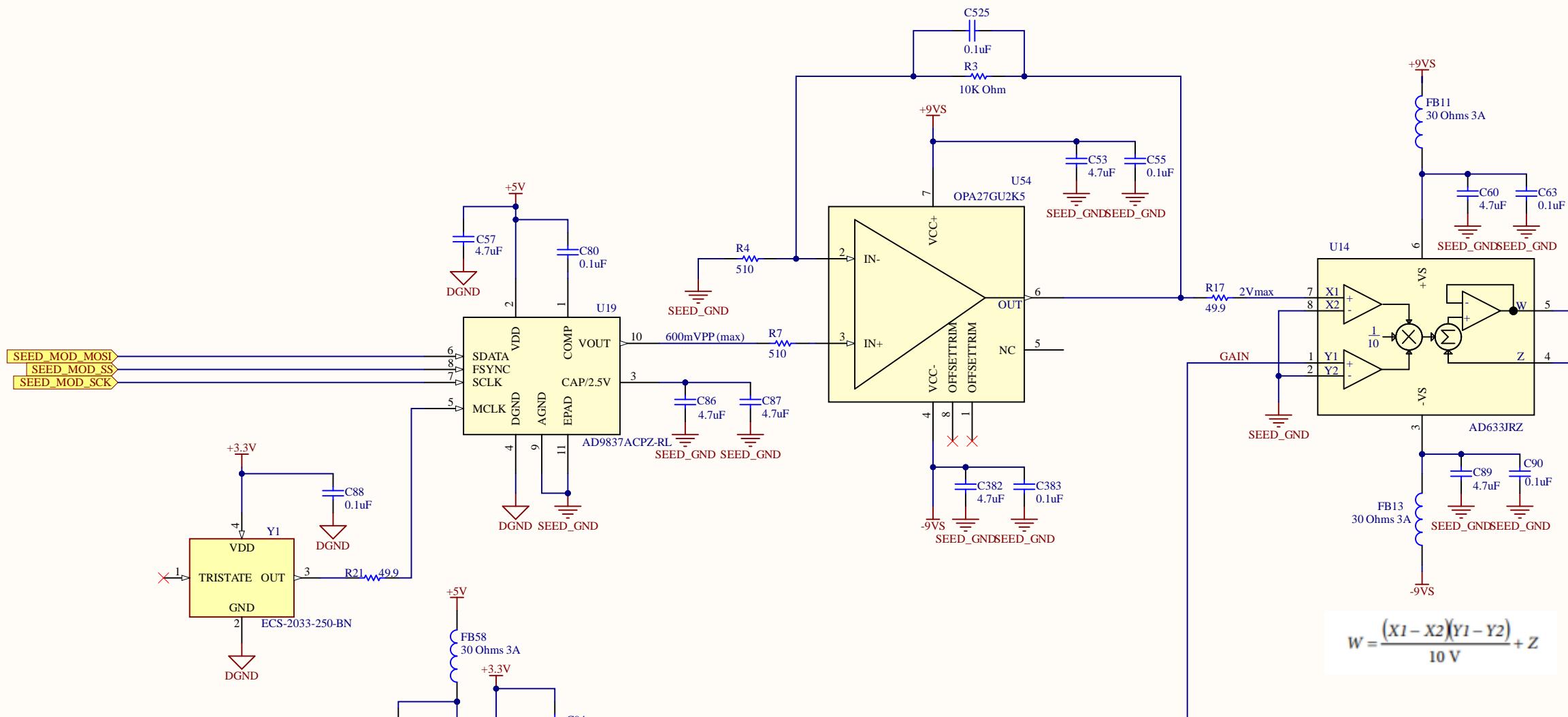
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A

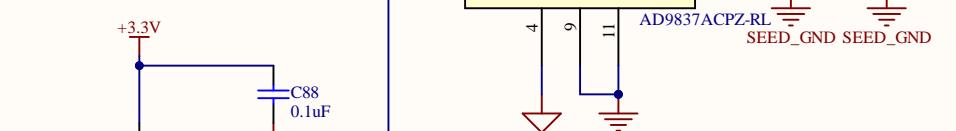


$$W = \frac{(2 \times 4)}{10} + 3 \\ W = 3.8V_{max}$$

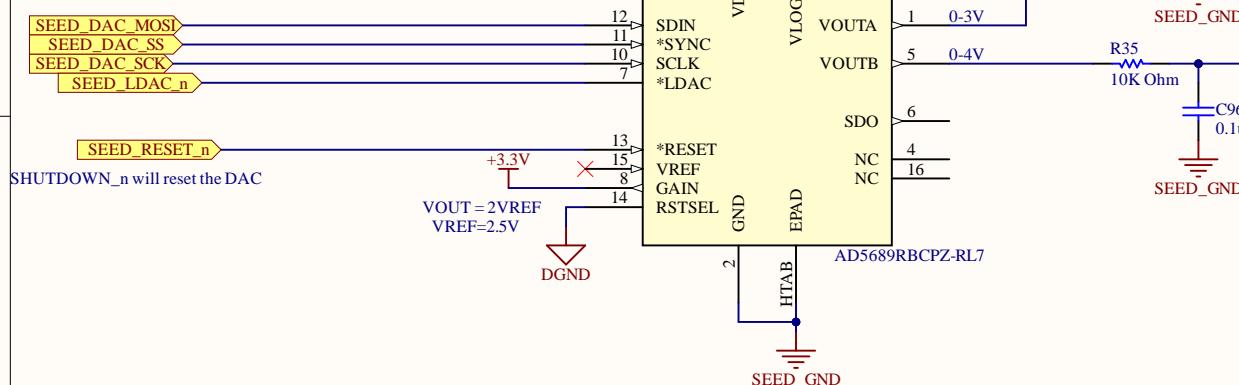
$$W = \frac{(X_1 - X_2)(Y_1 - Y_2)}{10 V} + Z$$

TP3
SEED_GND

B



C



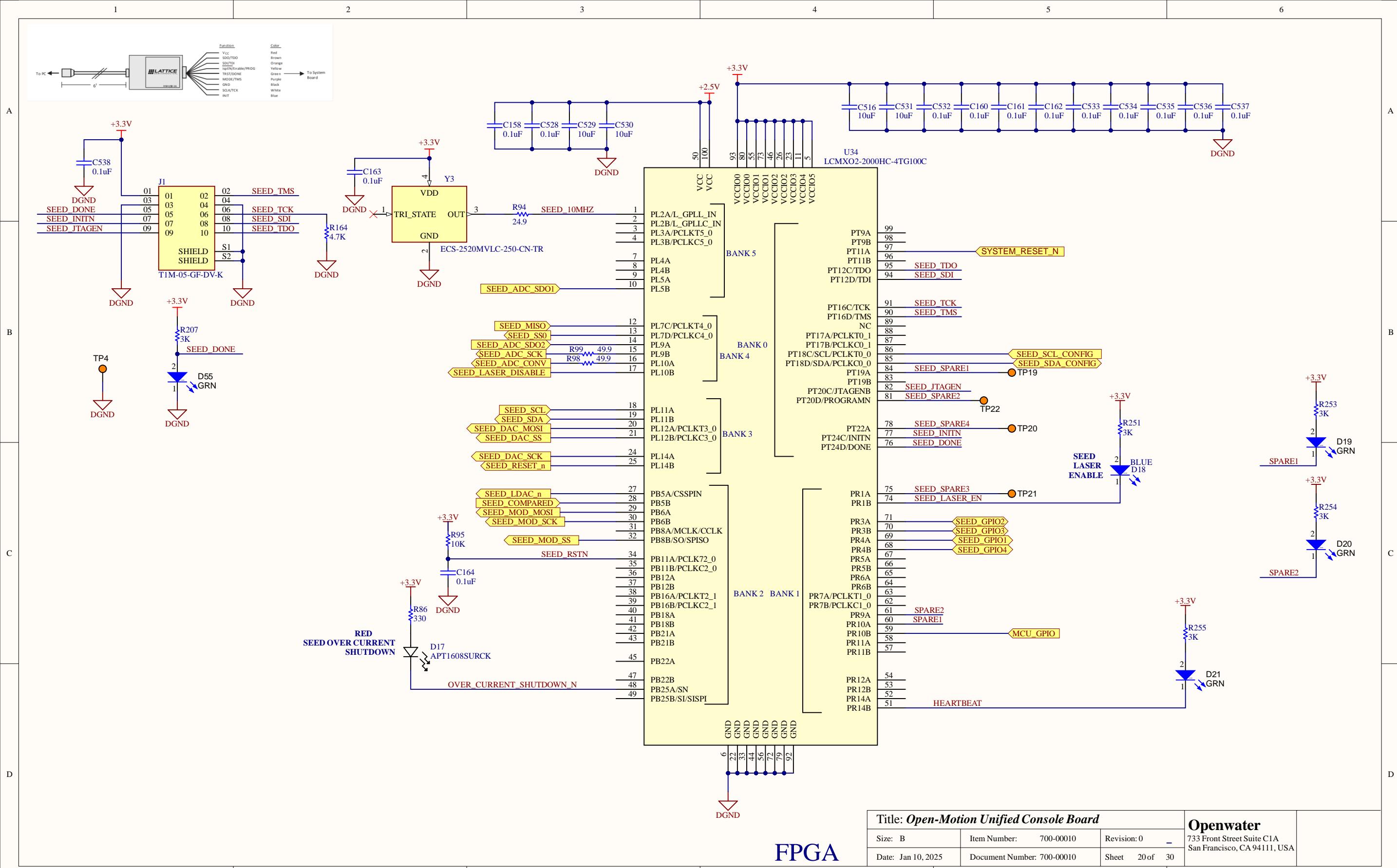
D

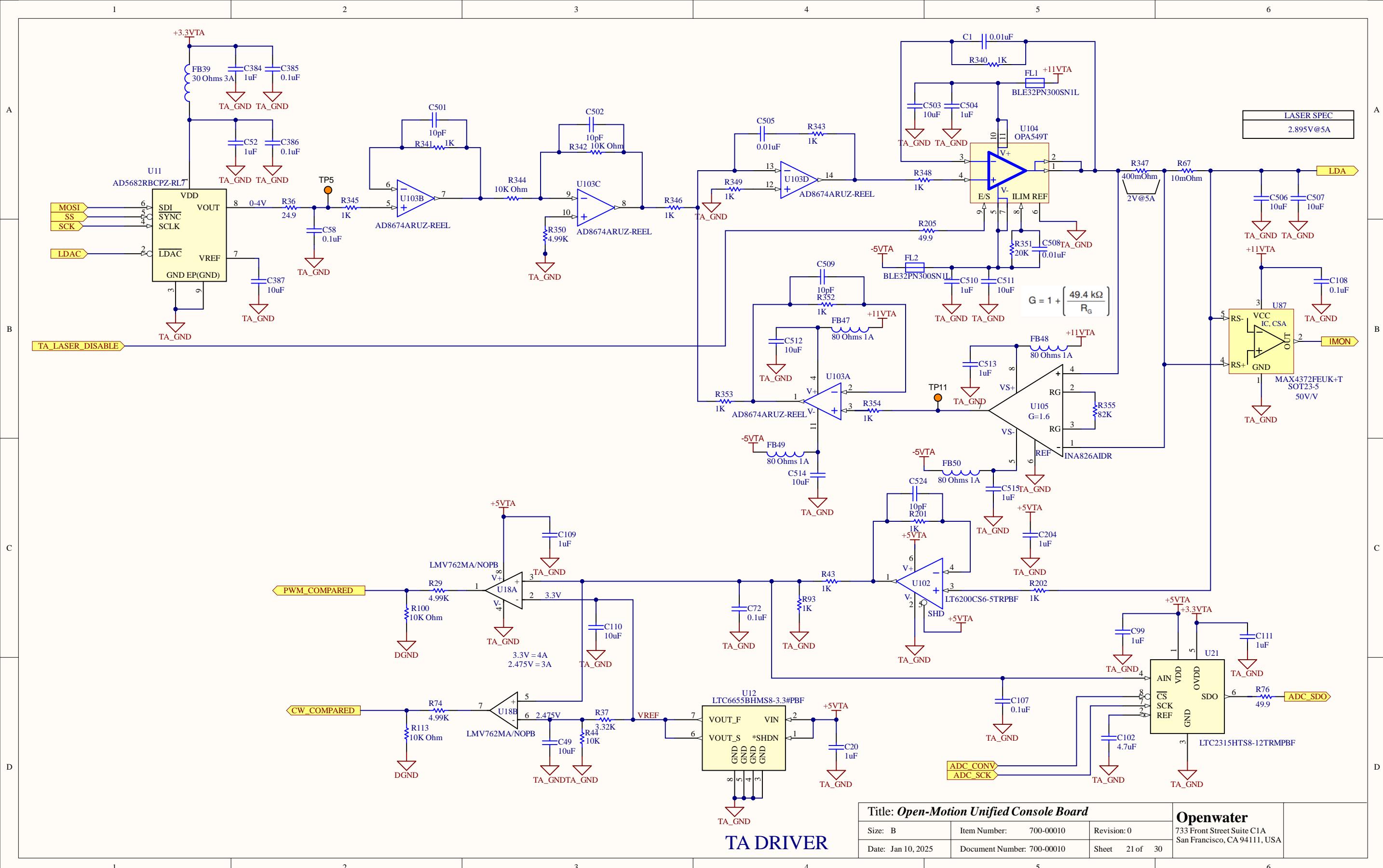
CW & MODULATE

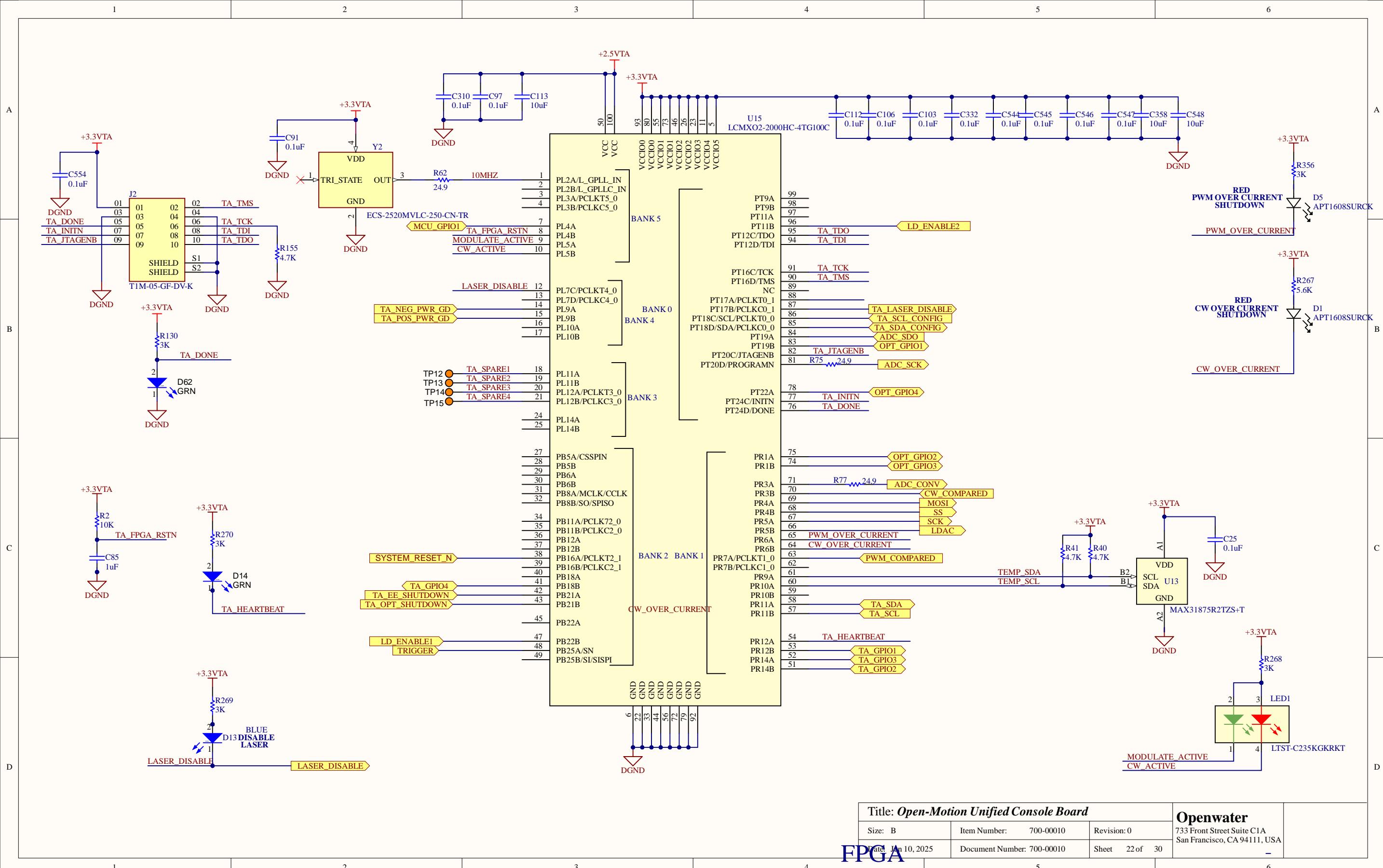
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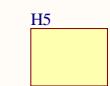
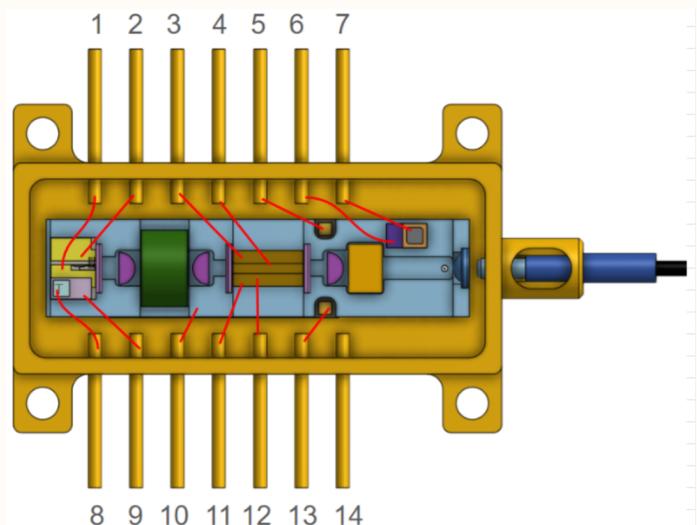
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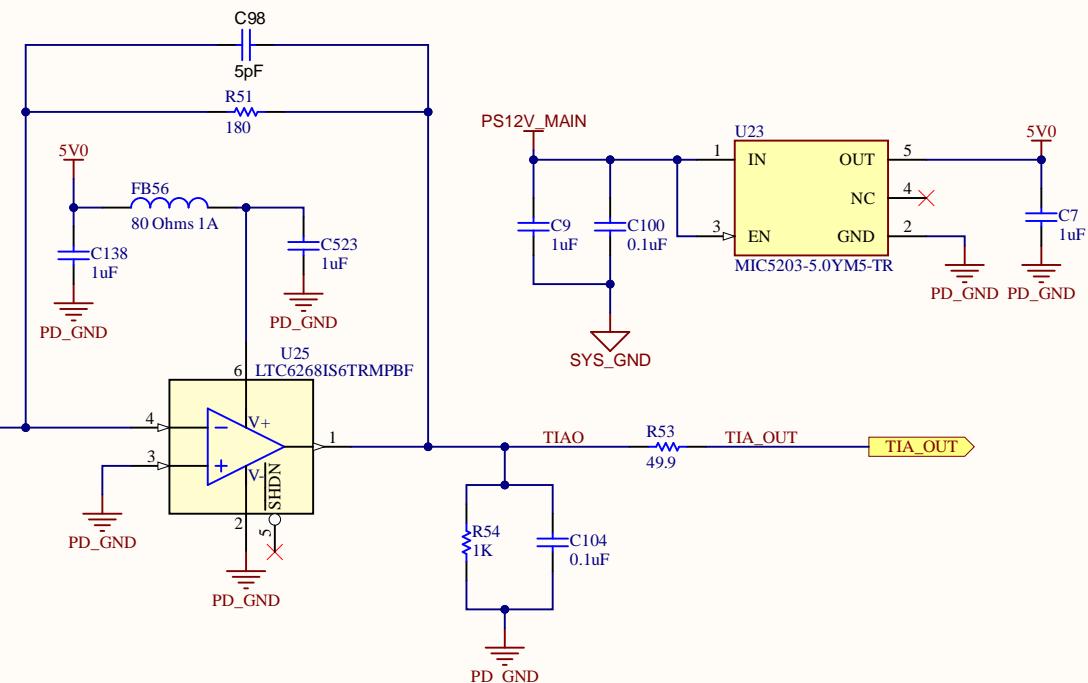
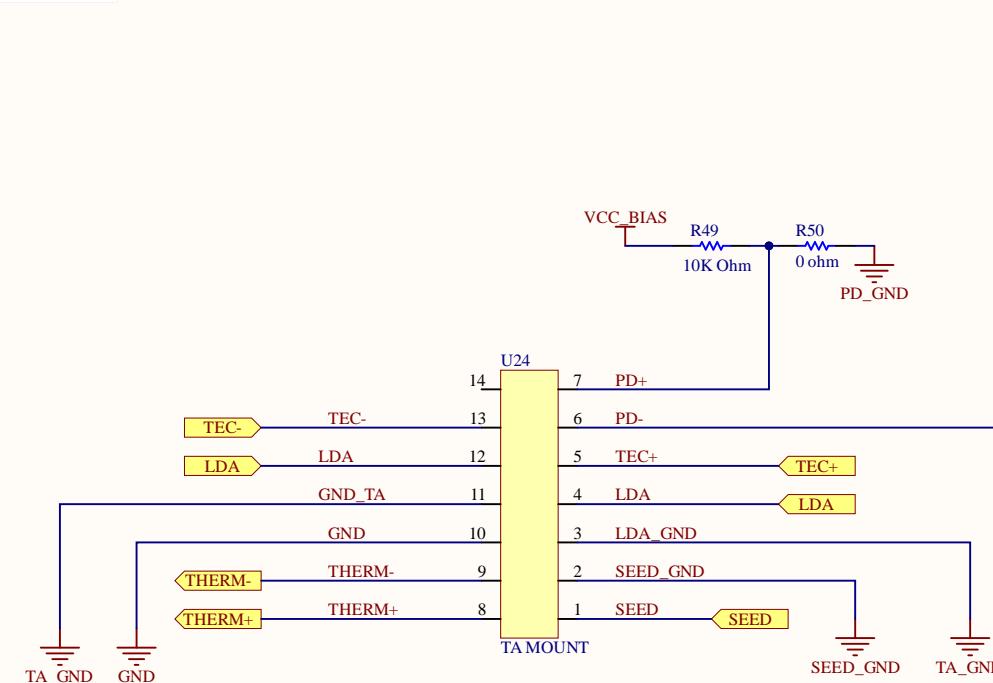




left	1 seed VCC 2 Seed return 3 TA return 4 TA VCC 5 TEC + 6 photo diode - 7 photo diode +
right	8 Thermistor 9 Thermistor - 10 ground bench 11 TA return 12 TA VCC 13 TEC - 14 NC



HEAT SINK, BUTTERFLY PACKAGE - 20241118

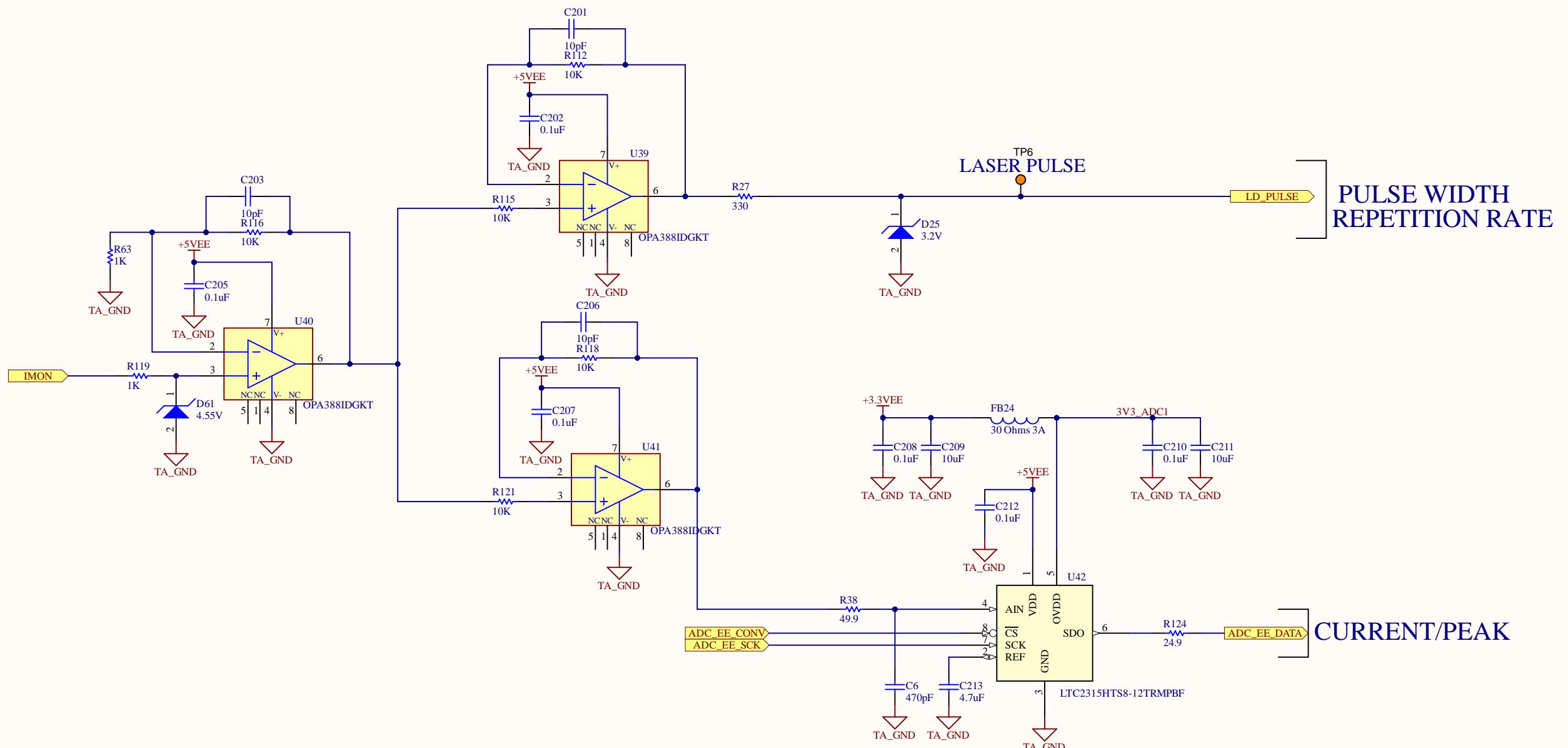


A

B

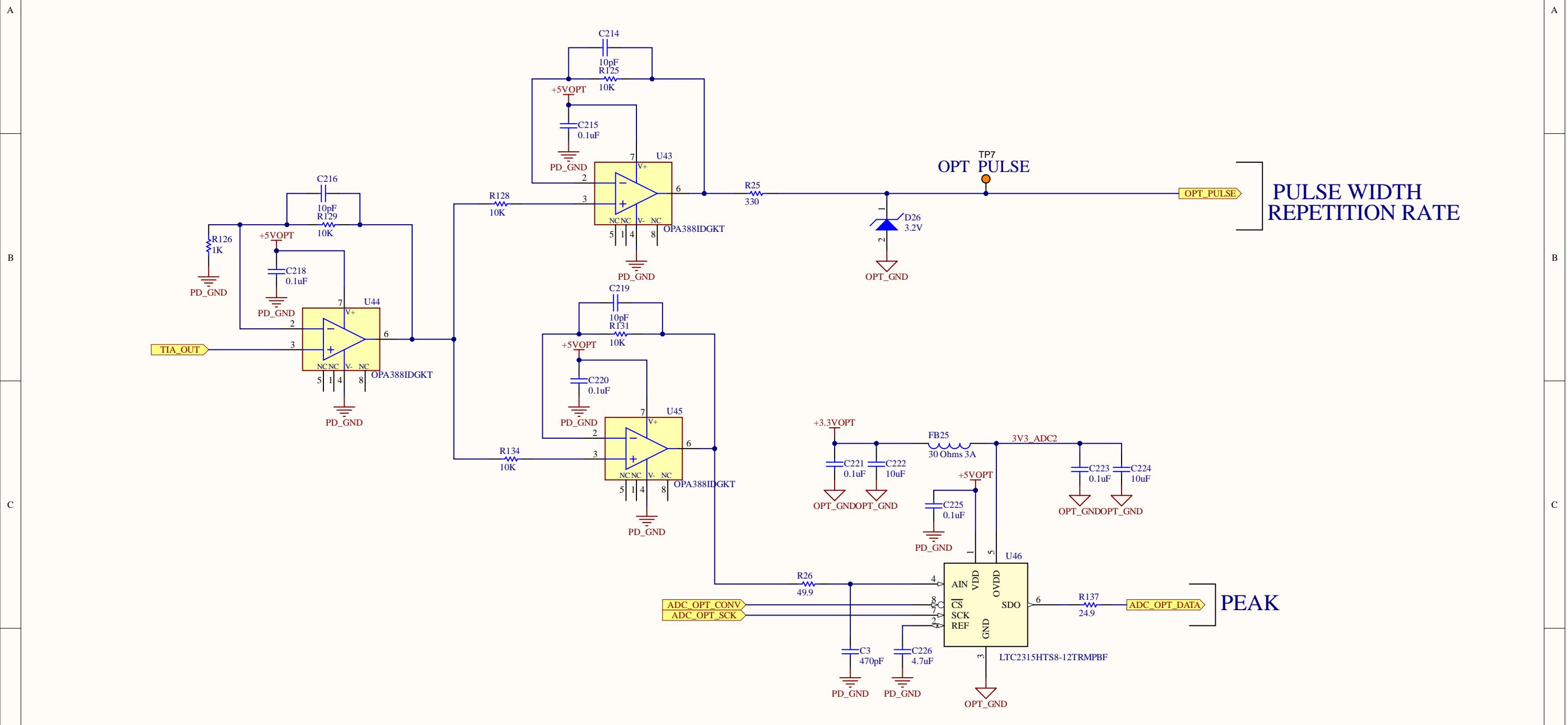
c

D



ELECTRICAL MONITOR

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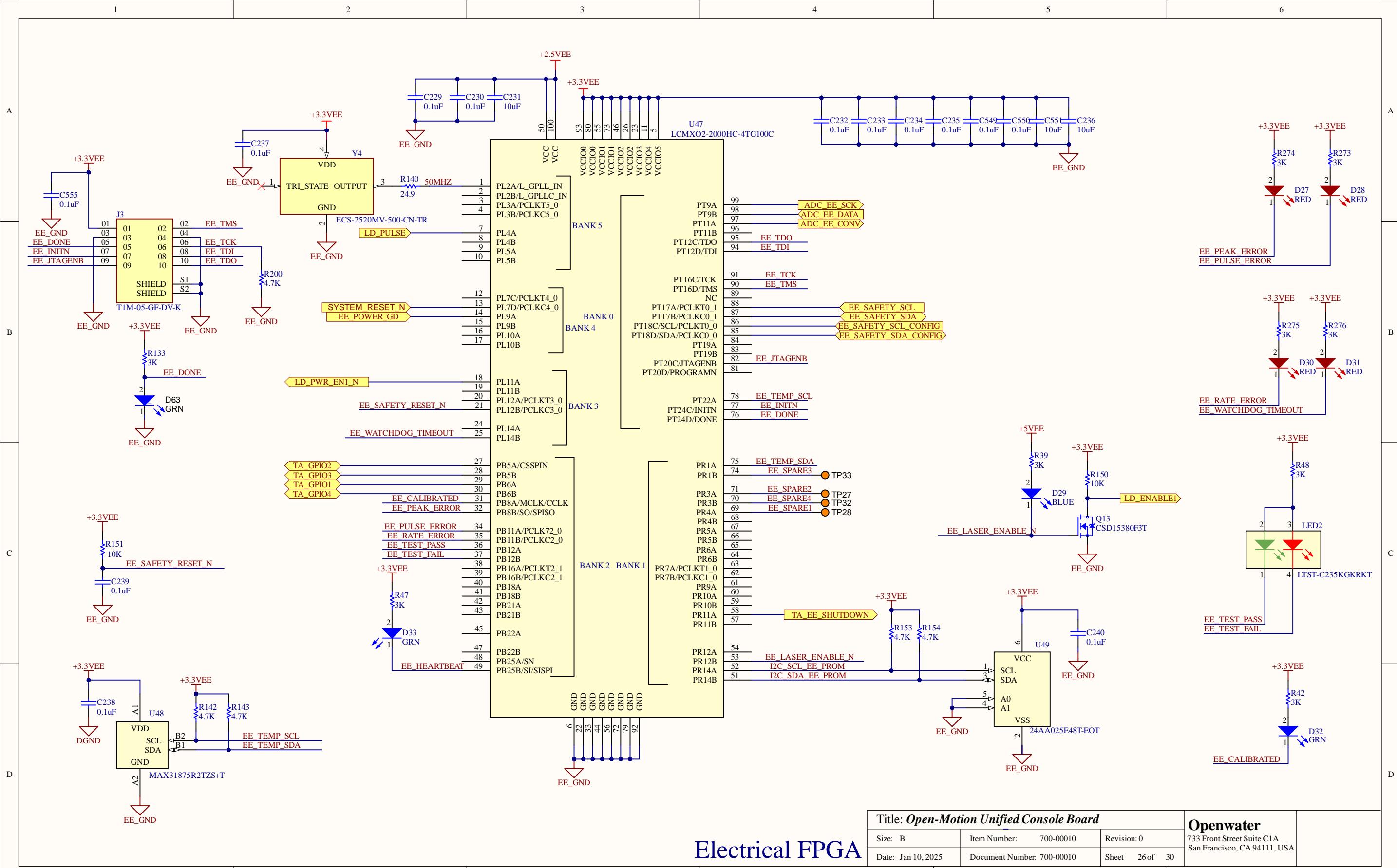


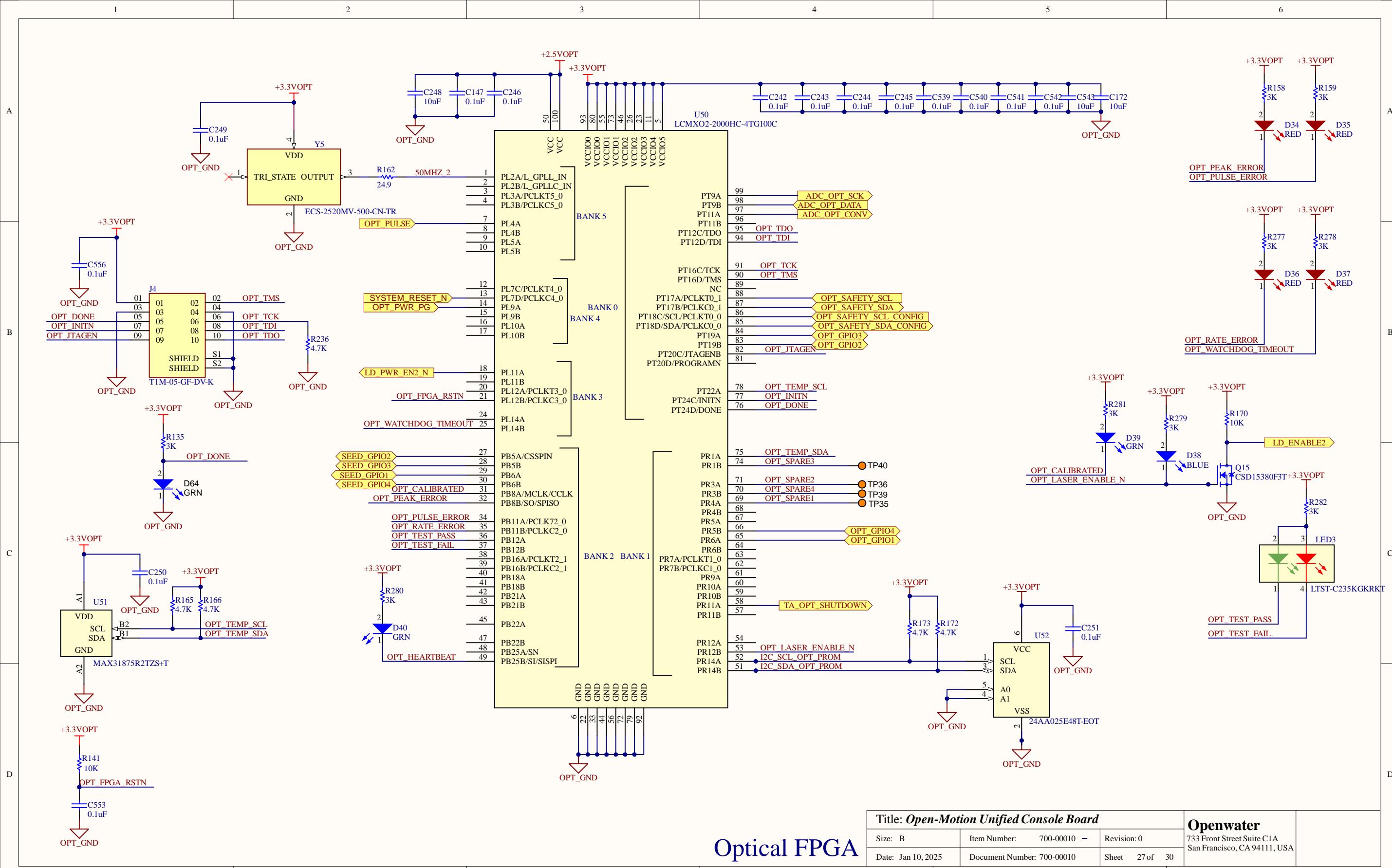
Optical Monitor

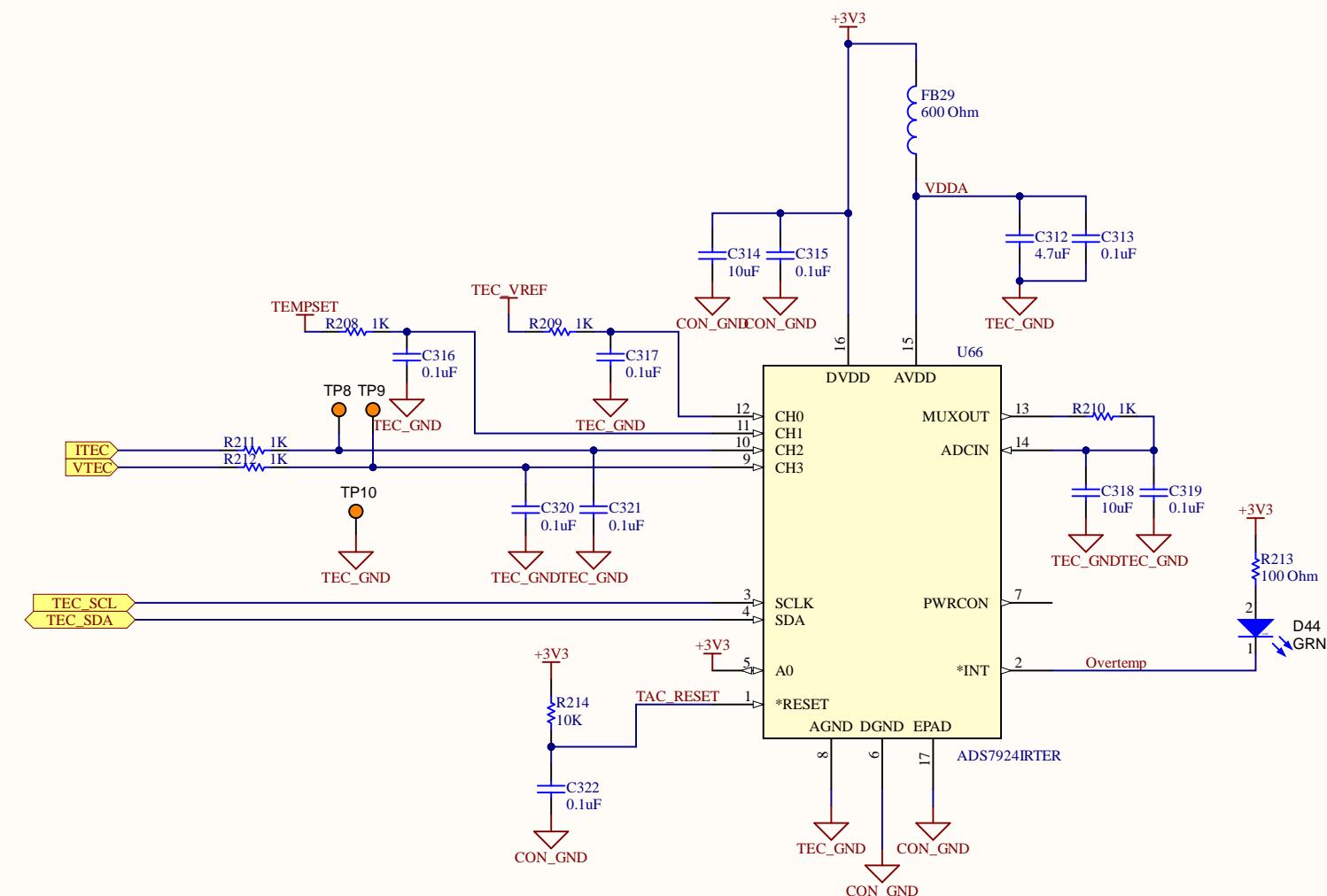
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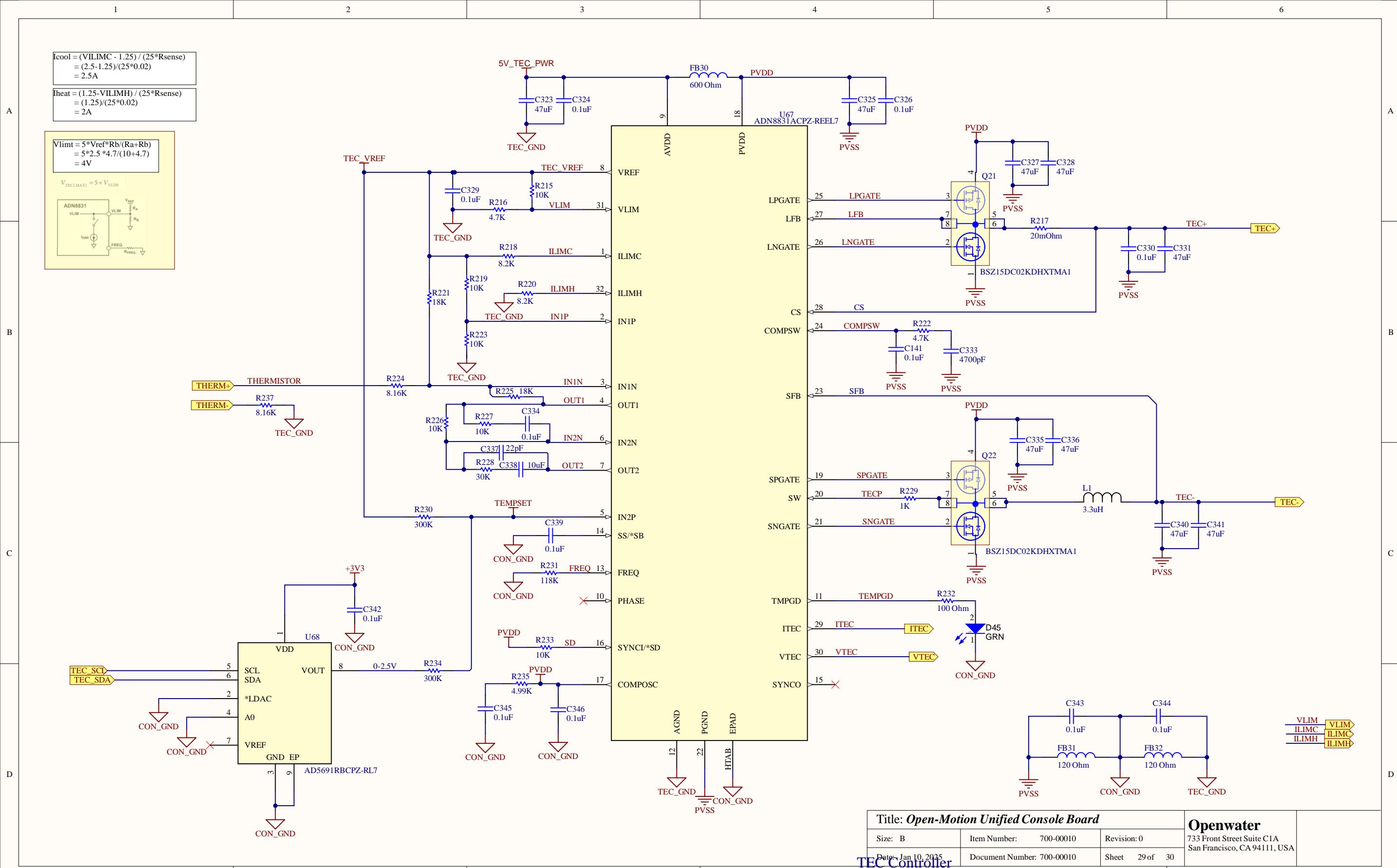
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A

A



B

B

C

C

D

D

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