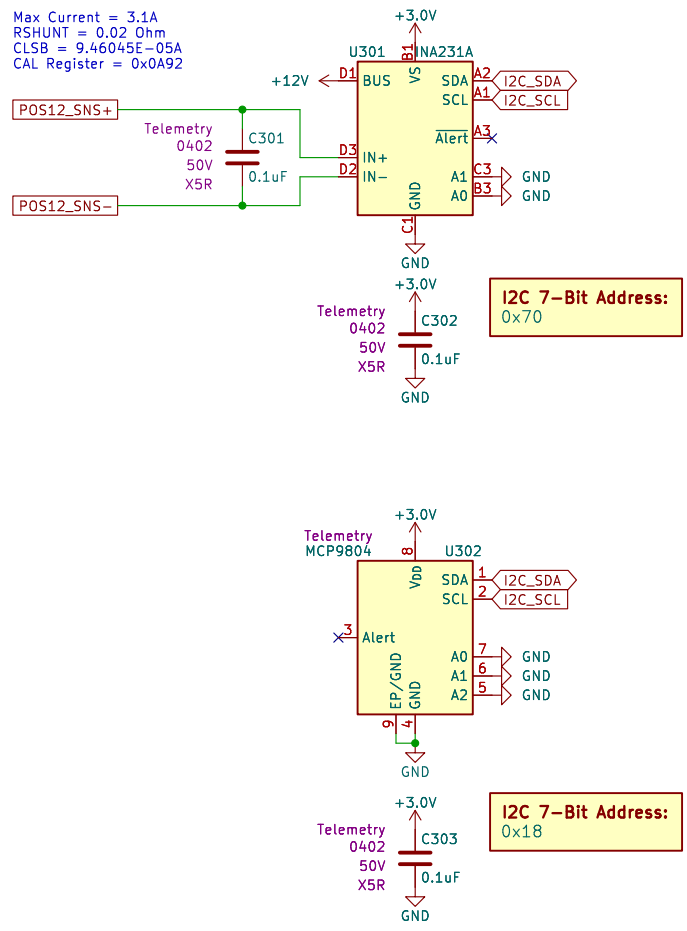


	1	2	3	4	5
	<h1>Thermal Camera</h1> <p>https://github.com/drewsum/Thermal_Camera</p>				
A	01. Table of Contents				
	02. POS12 Input	POS12_Input <div></div>	14. Battery Management	Battery Management <div></div>	26. Upstream USB Port
	03. POS12 Telemetry	POS12 Telemetry <div></div>	15. PIC32MZ DA Programming	PIC32MZ DA Programming <div></div>	27. PGOOD LEDs
	04. POS3P0 Power Supply	POS3P0 Power Supply <div></div>	16. PIC32MZ DA Clocking	PIC32MZ DA Clocking <div></div>	28. Status LEDs
	05. POS3P0 Telemetry	POS3P0 Telemetry <div></div>	17. PIC32MZ DA Power	PIC32MZ DA Power <div></div>	29. Capacitive Touch
B	06. POS1P8 Power Supply	POS1P8 Power Supply <div></div>	18. PIC32MZ DA 1	PIC32MZ DA 1 <div></div>	30. Mechanical
	07. POS1P8 Telemetry	POS1P8 Telemetry <div></div>	19. PIC32MZ DA 2	PIC32MZ DA 2 <div></div>	
	08. POS2P8 Power Supply	POS2P8 Power Supply <div></div>	20. External Storage	External Storage <div></div>	
	09. POS2P8 Telemetry	POS2P8 Telemetry <div></div>	21. Graphic LCD	Graphic LCD <div></div>	
	10. POS1P2 Power Supply	POS1P2 Power Supply <div></div>	22. USB UART	USB UART <div></div>	
C	11. POS1P2 Telemetry	POS1P2 Telemetry <div></div>	23. Elapsed Time Counter	Elapsed Time Counter <div></div>	
	12. LCD Backlight Power Supply	LCD Backlight Power Supply <div></div>	24. FLIR Lepton Sensor	FLIR Lepton Sensor <div></div>	
	13. LCD Backlight Telemetry	LCD Backlight Telemetry <div></div>	25. USB Hub	USB Hub <div></div>	
D	<div></div> <div><div>Drew Maatman and Michael Laffin</div><div>Sheet: / File: Thermal_Camera.kicad_sch</div><div>Title: Thermal Camera</div><div><div>Size: A</div><div>Date: 2024-05-24</div><div>Rev: PRELIM</div></div><div>KiCad E.D.A. 8.0.4</div><div>Id: 1/30</div></div>				
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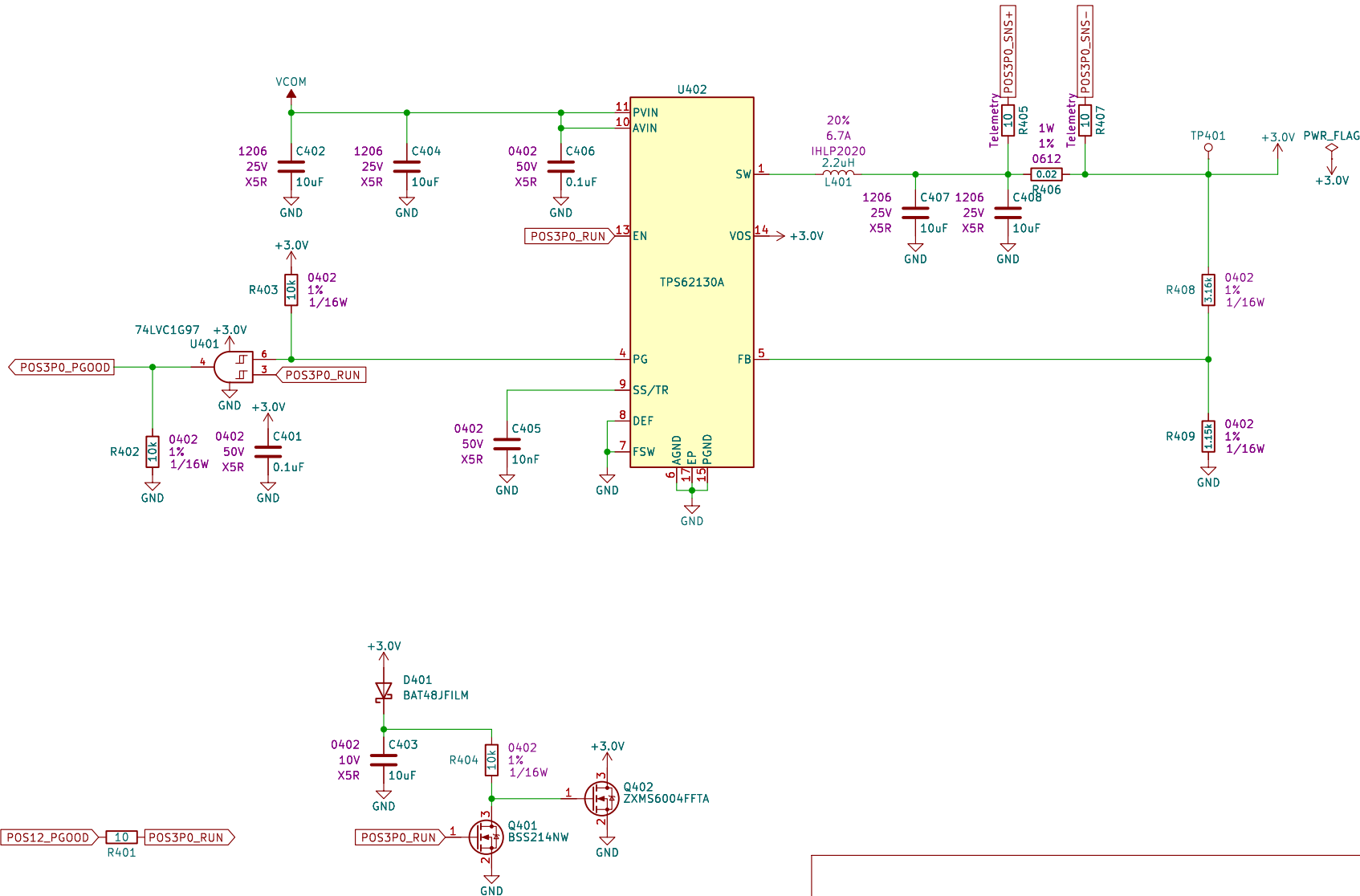
Drew Maatman and Michael Laffin

Sheet: /POS12 Telemetry/
File: POS12_Telemetry.kicad_sch

Title: Thermal Camera

Size: A Date: 2024-05-24
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Sheet: /POS3P0 Power Supply/

File: POS3P0_Power_Supply.kicad_sch

Title: Thermal Camera

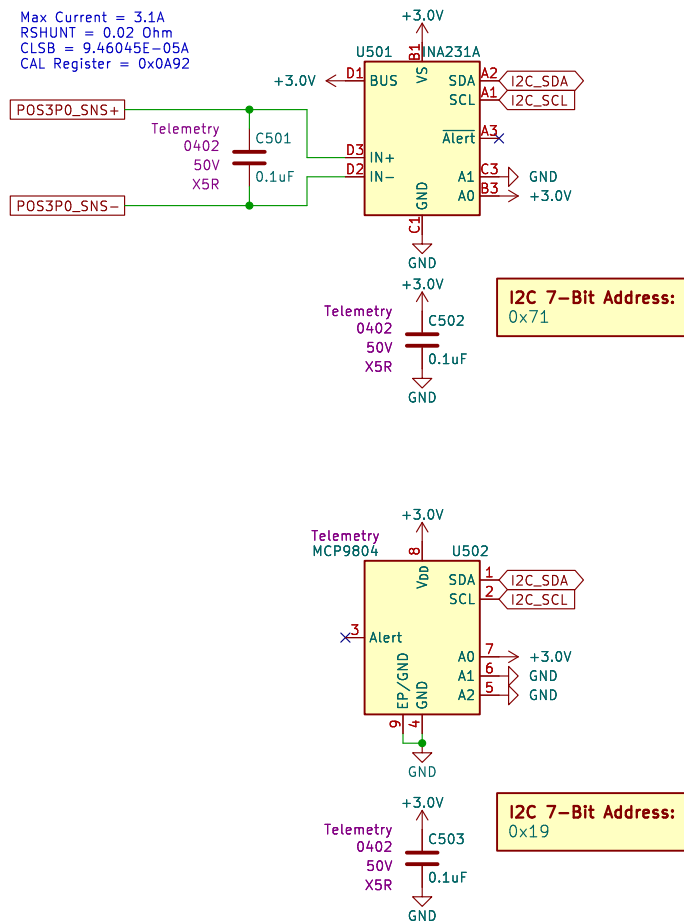
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Date: 2024-05-24

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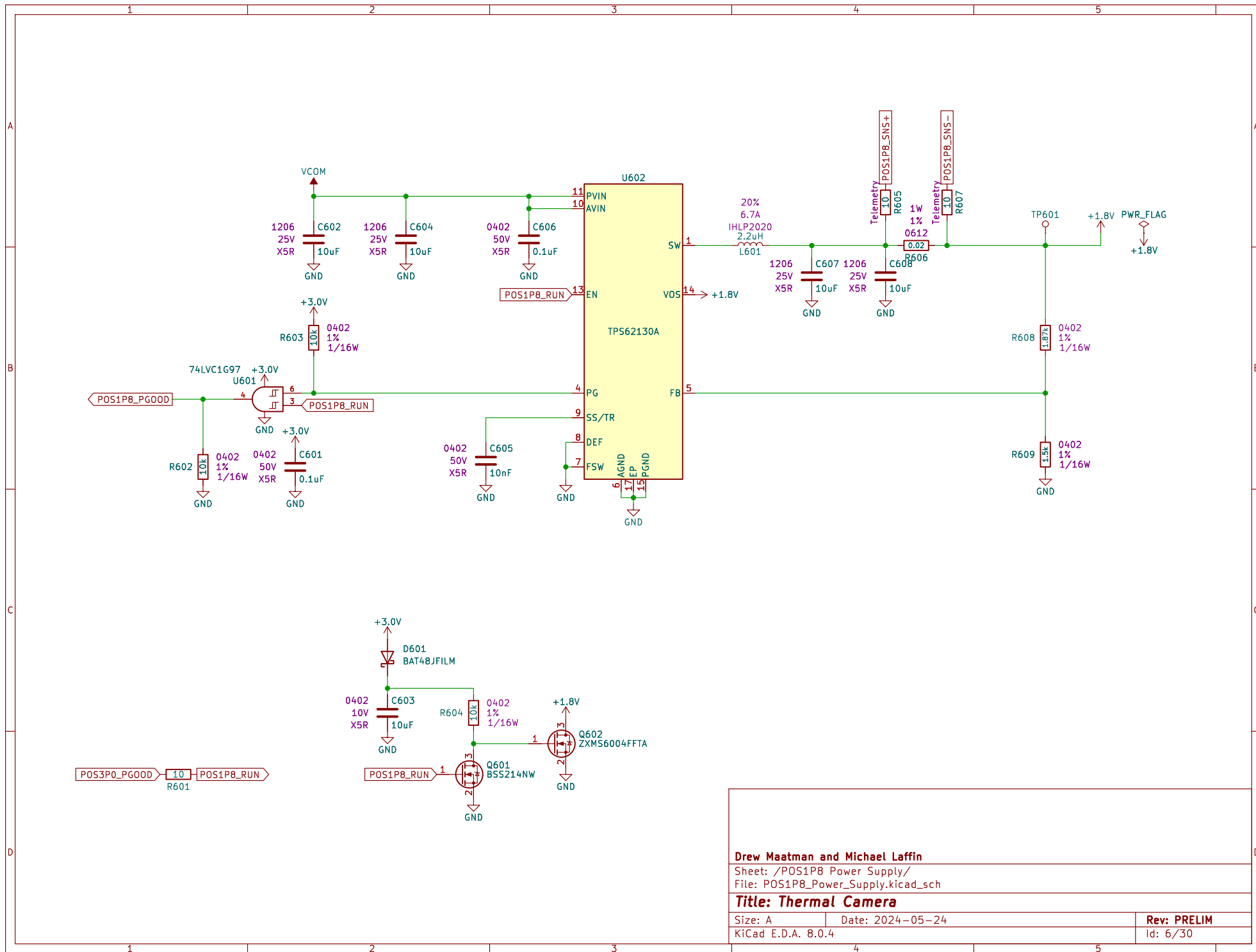
Drew Maatman and Michael Laffin

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Title: Thermal Camera

Size: A Date: 2024-05-24
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Sheet: /POS1P8 Power Supply/

File: POS1P8_Power_Supply.kicad_sch

Title: Thermal Camera

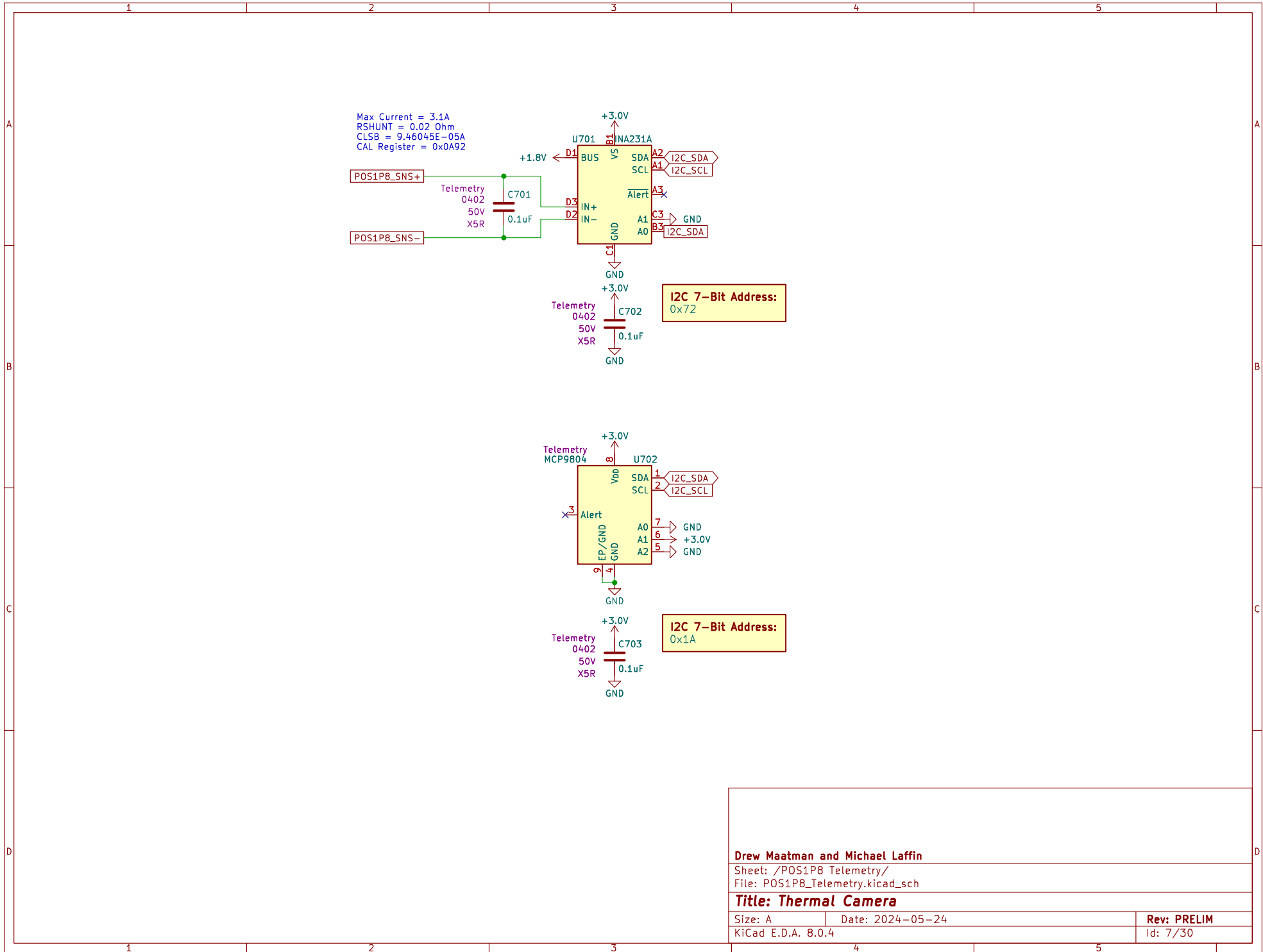
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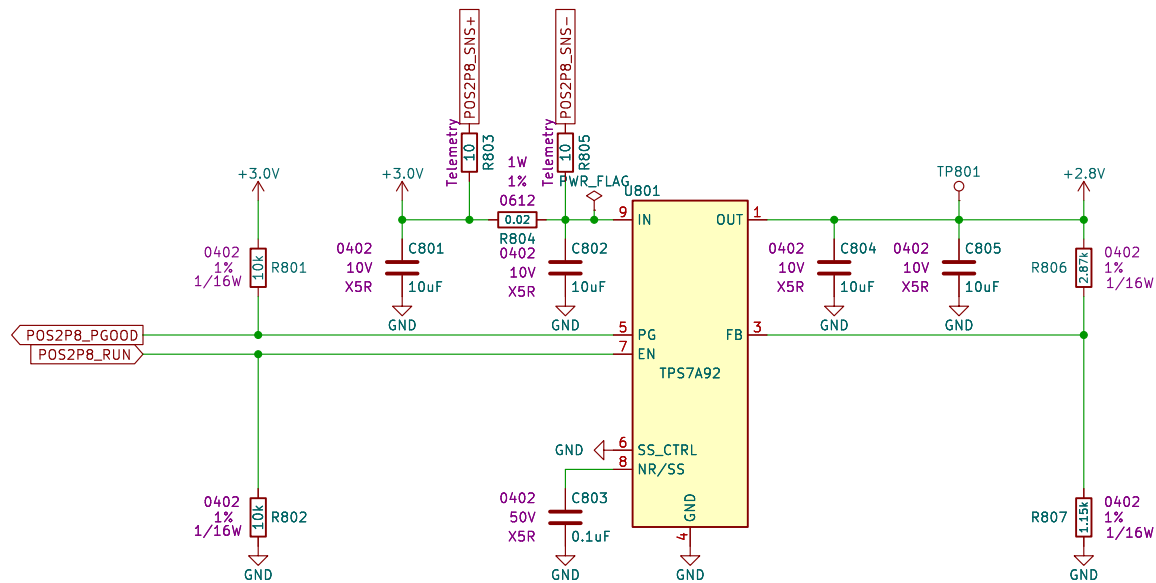
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Sheet: /POS2P8 Power Supply/

File: POS2P8_Power_Supply.kicad_sch

Title: Thermal Camera

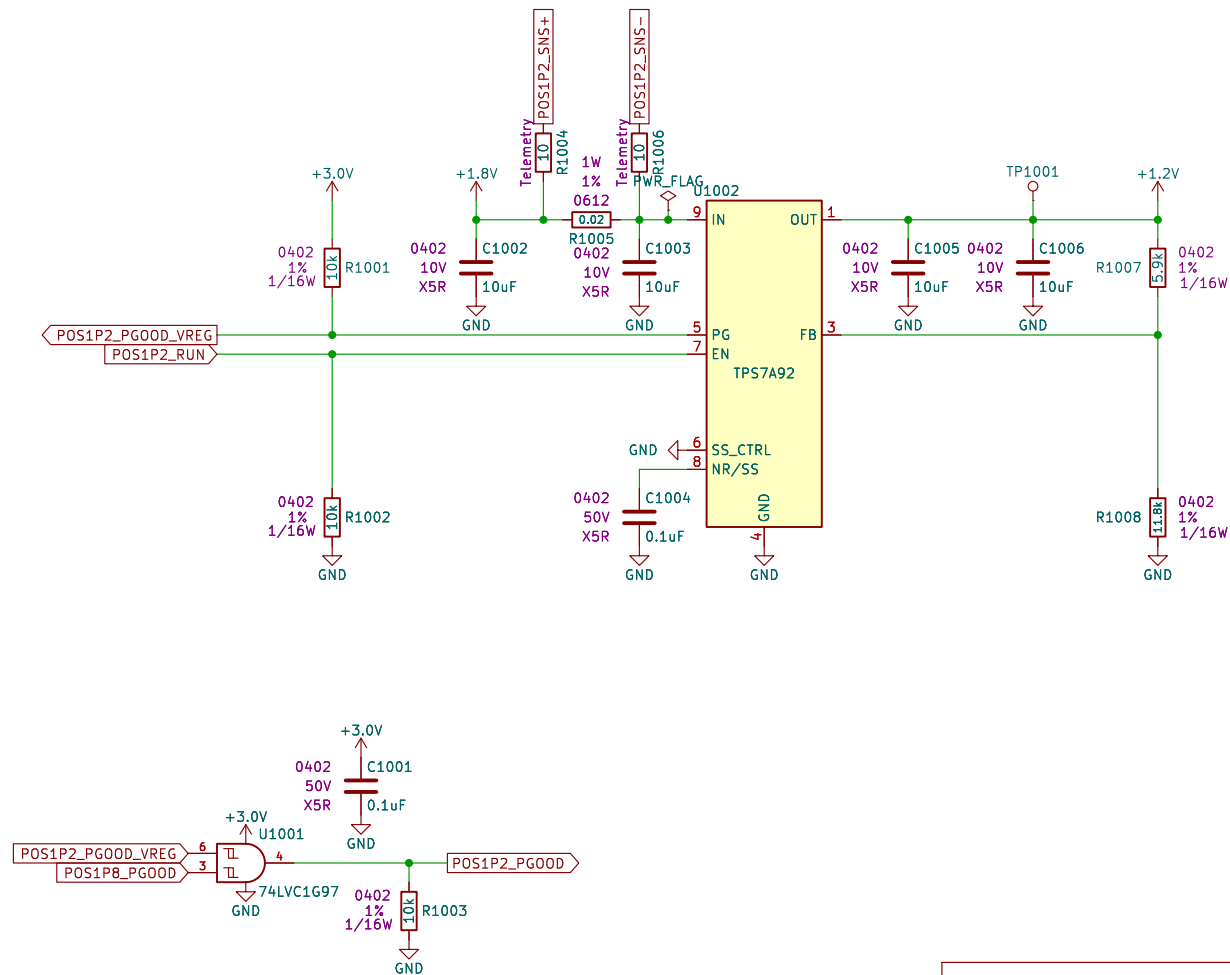
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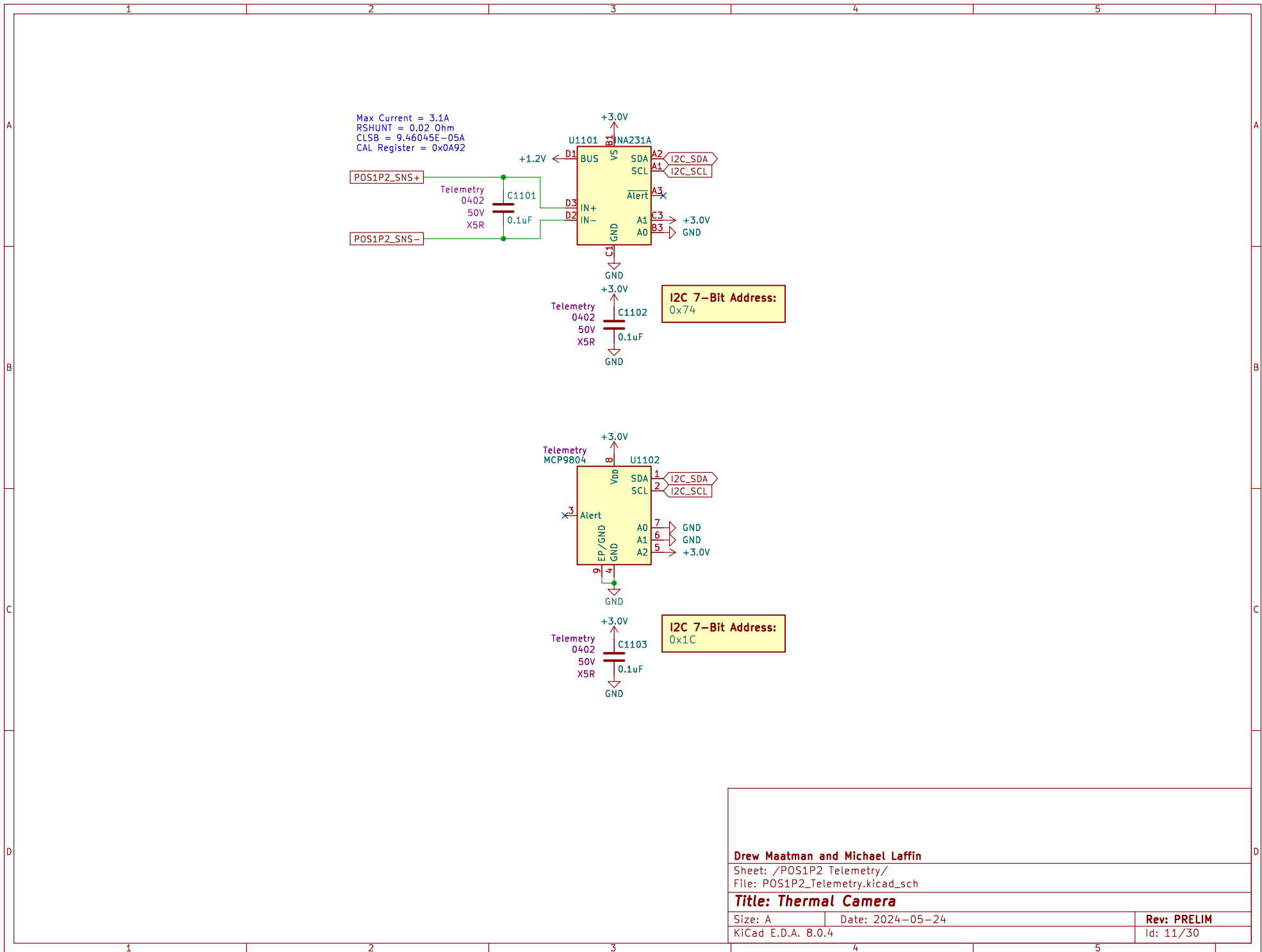
Drew Maatman and Michael Laffin

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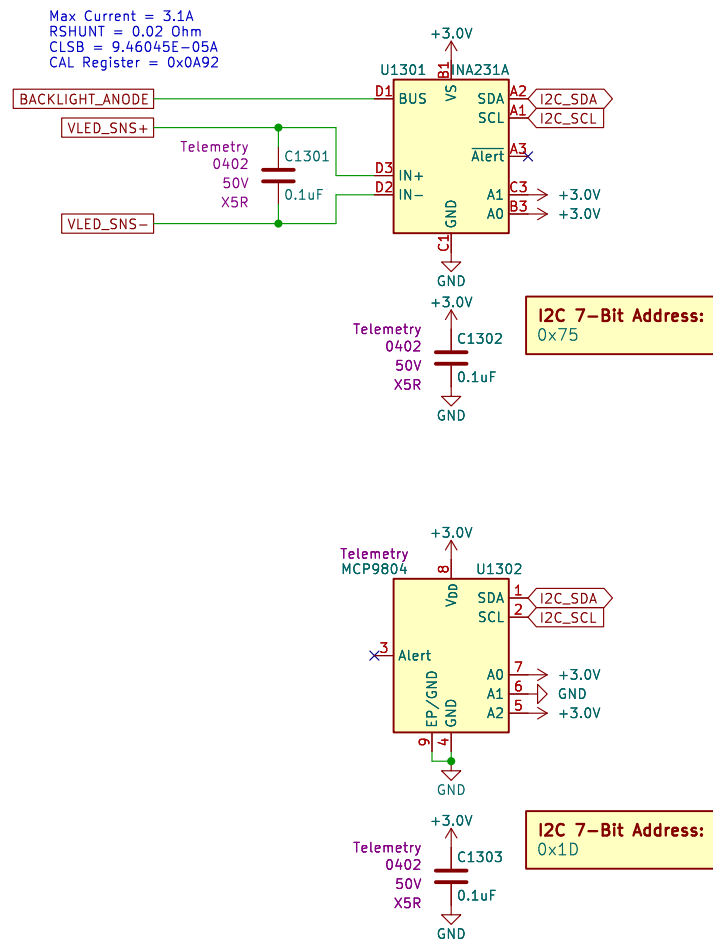
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Size: A Date: 2024-05-24
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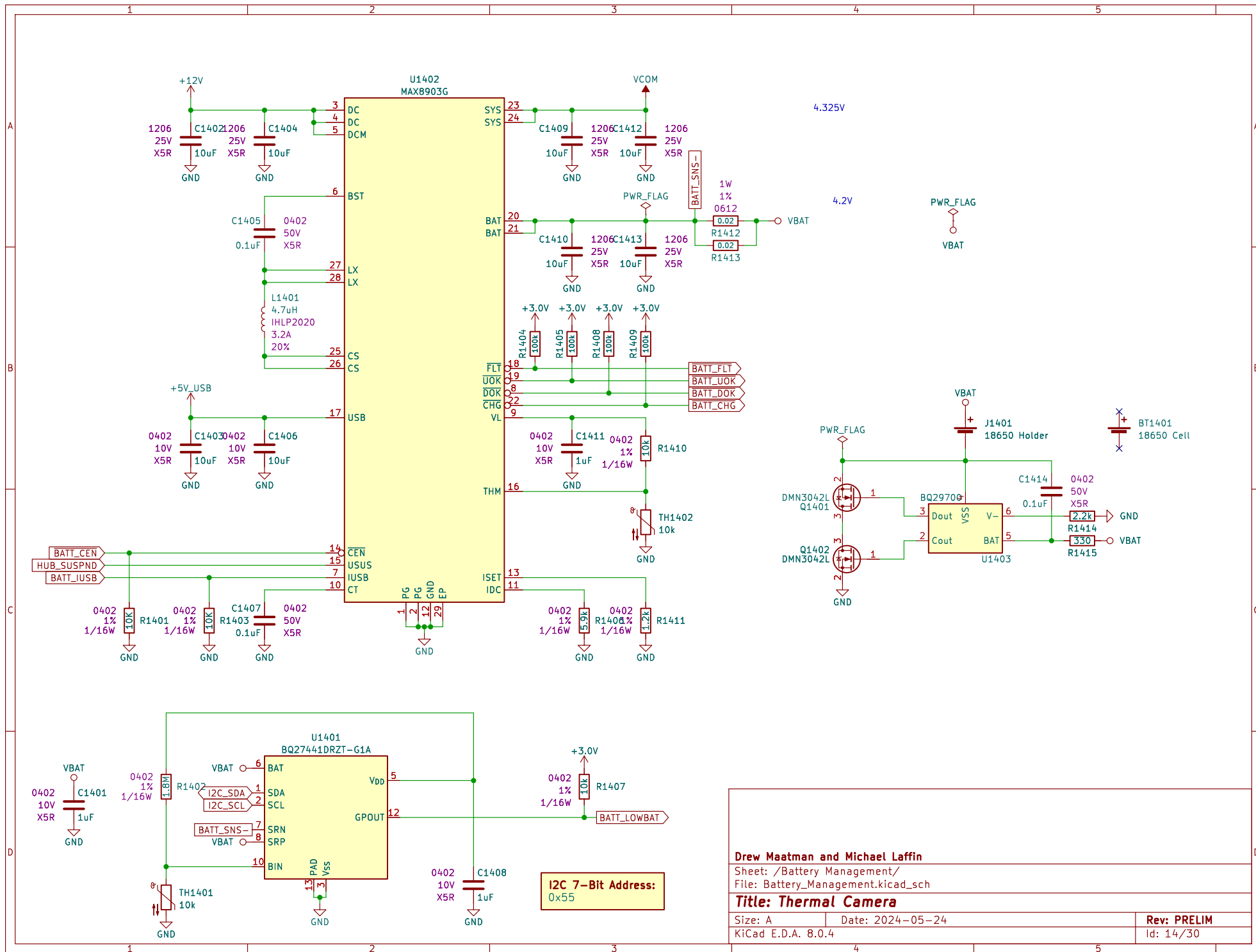
Drew Maatman and Michael Laffin

Sheet: /LCD Backlight Telemetry/
 File: LCD_Backlight_Telemetry.kicad_sch

Title: Thermal Camera

Size: A Date: 2024-05-24
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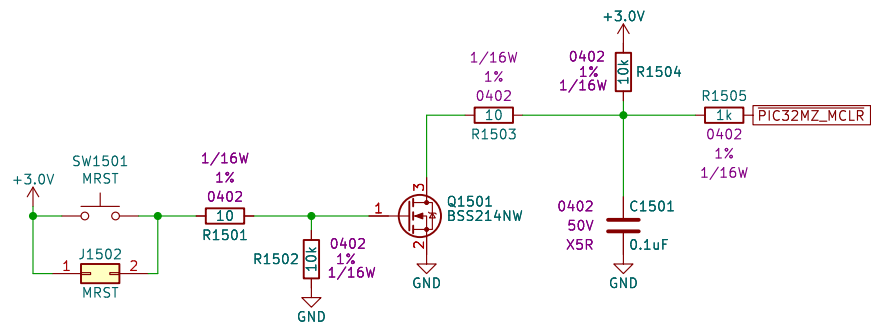
Drew Maatman and Michael Laffin

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File: Battery_Management.kicad_sch

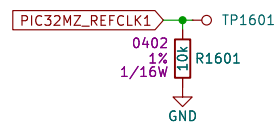
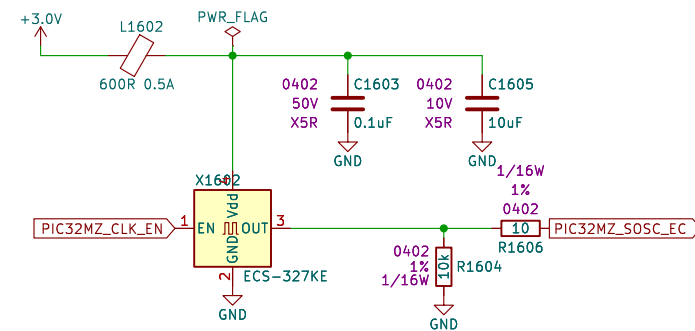
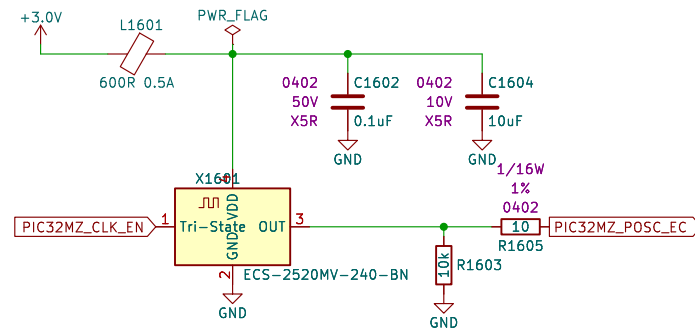
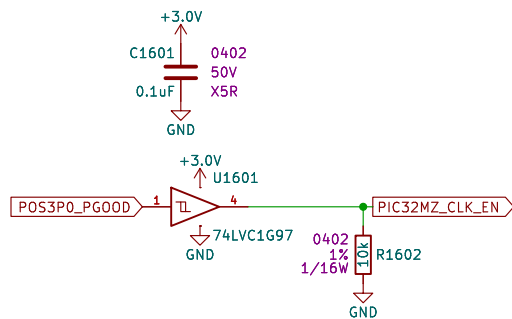
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Size: A Date: 2024-05-24
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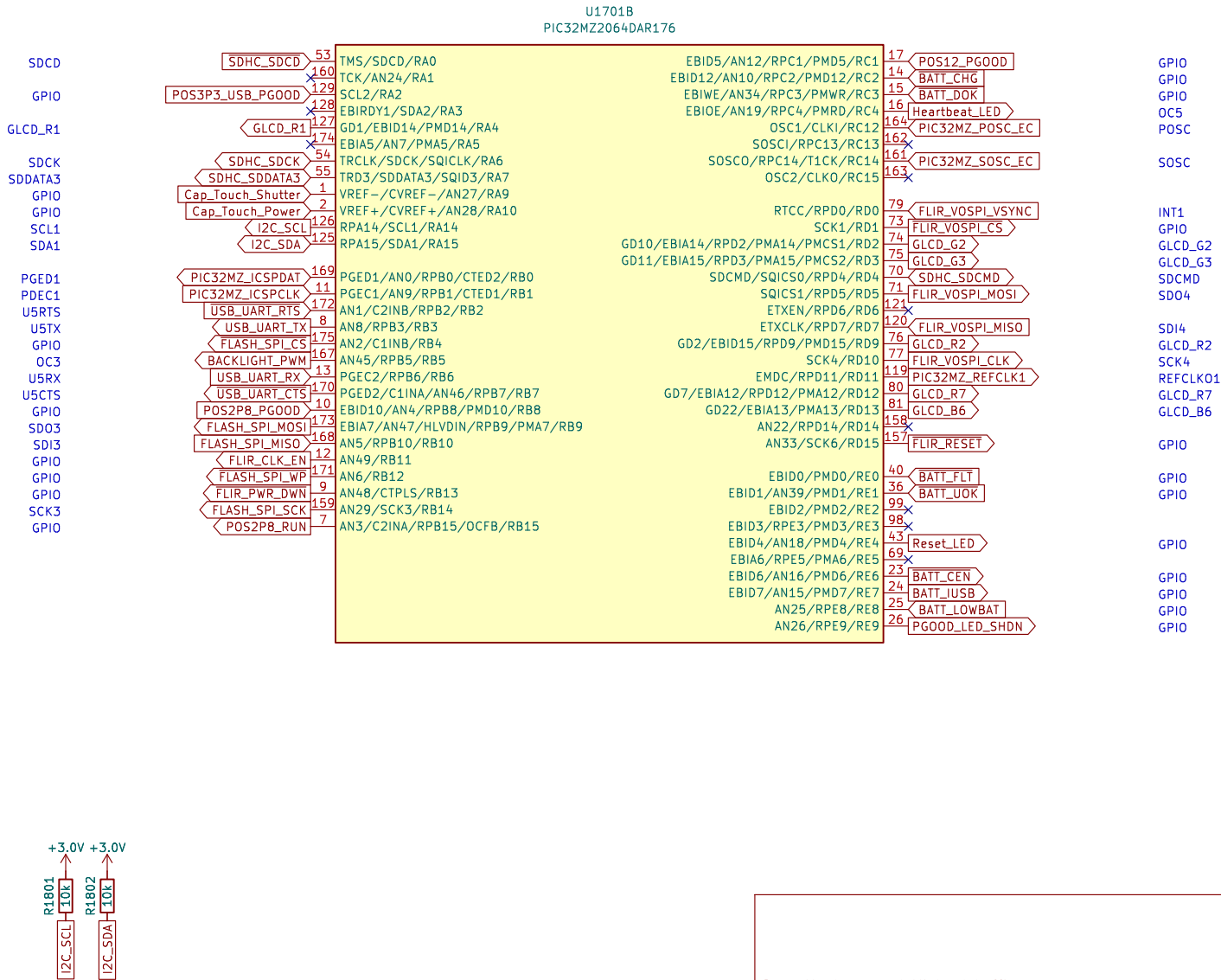
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File: PIC32MZ_DA_Clocking.kicad_sch

Title: Thermal Camera

Size: A Date: 2024-05-24
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See TABLE 36-1:RGB COLOR MAPPING for Graphic LCD Pin Mapping



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Sheet: /PIC32MZ DA 1/

File: PIC32MZ_DA_1.kicad_sch

Title: Thermal Camera

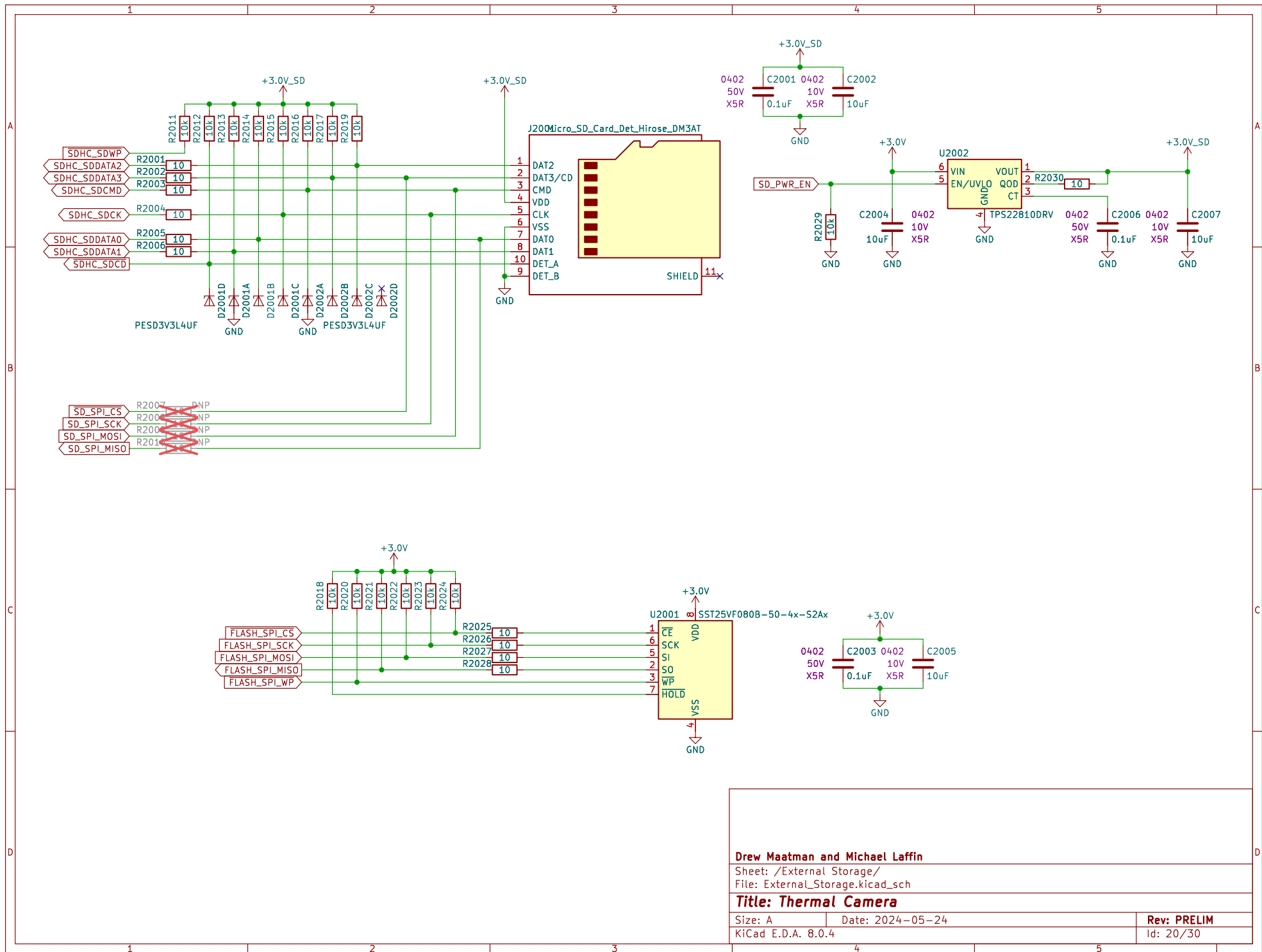
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Date: 2024-05-24

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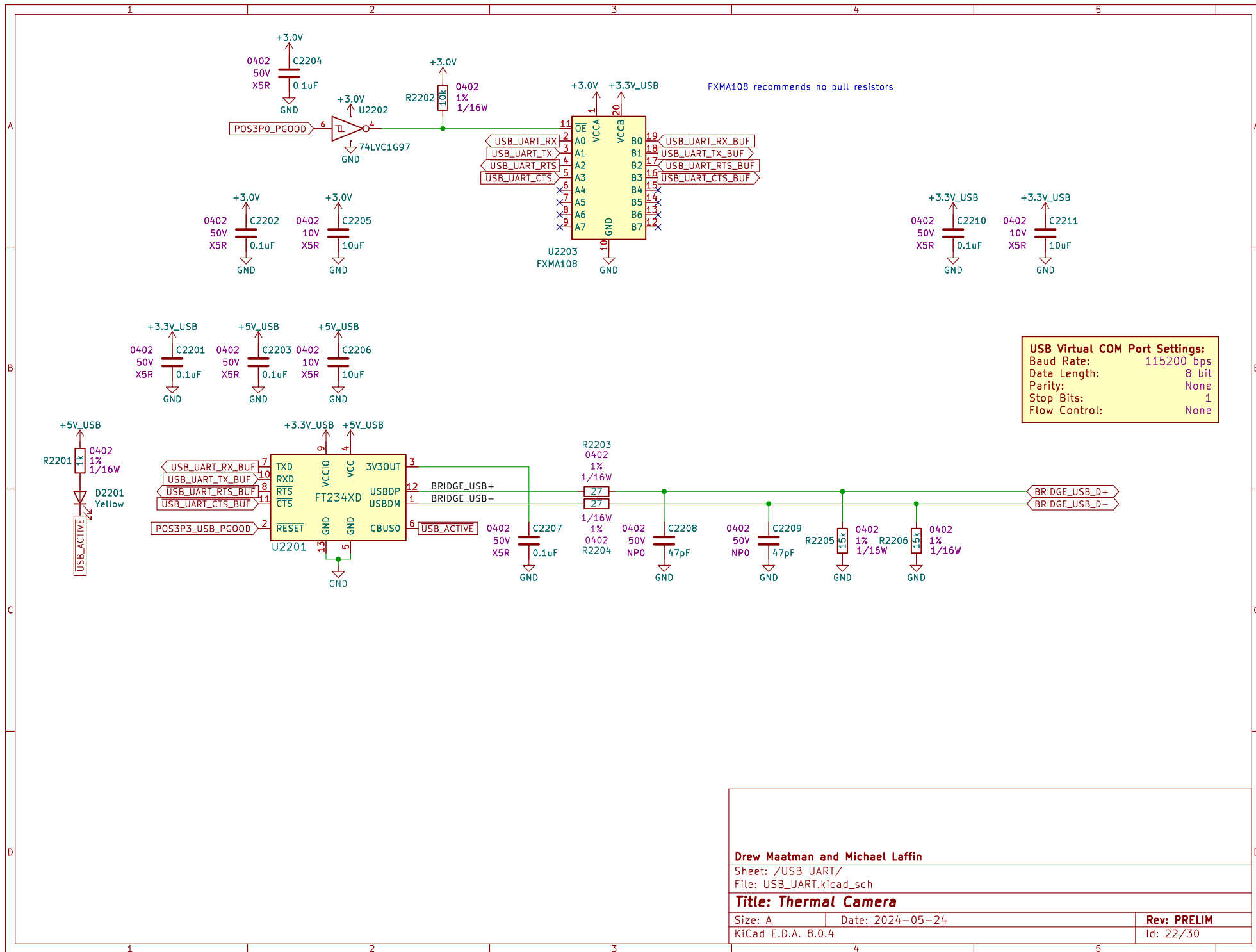
Drew Maatman and Michael Laffin

Sheet: /External Storage/
File: External_Storage.kicad_sch

Title: Thermal Camera

Size: A Date: 2024-05-24
KiCad E.D.A. 8.0.4

Rev: PRELIM
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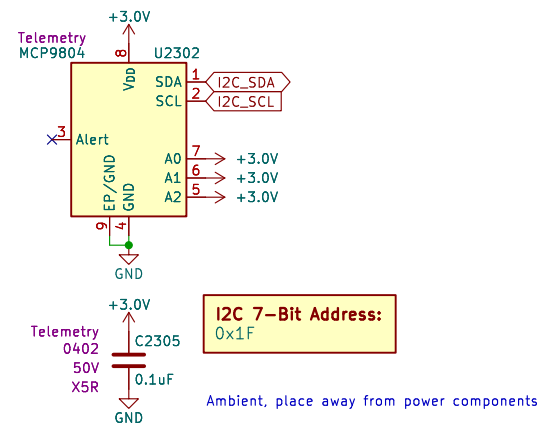
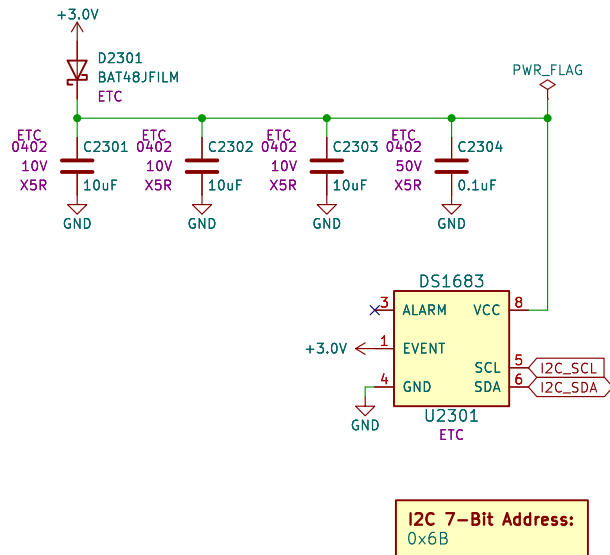
Drew Maatman and Michael Laffin

Sheet: /USB UART/
File: USB_UART.kicad_sch

Title: Thermal Camera

Size: A Date: 2024-05-24
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Sheet: /Elapsed Time Counter/
File: Elapsed_Time_Counter.kicad_sch

Title: Thermal Camera

Size: A Date: 2024-05-24
KiCad E.D.A. 8.0.4

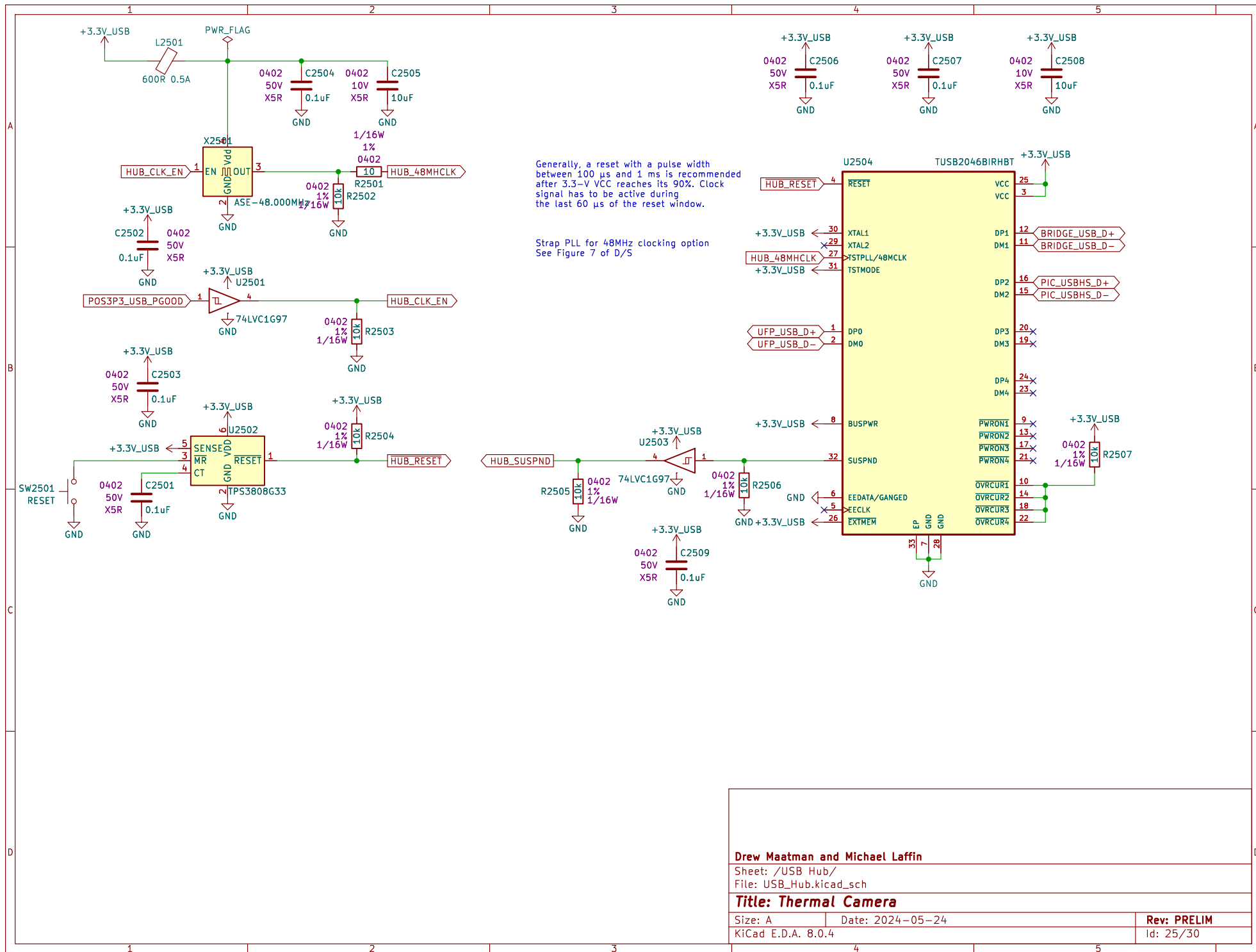
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VDDC: 1.20V (1.14V min, 1.26V max), 50mVpp max ripple, 110mA max draw
VDD: 2.80V (2.72V min, 2.88V max), 30mVpp max ripple, 16mA max draw
VDDIO: 2.8V min, 3.1V max, 50mVpp max ripple, 310mA max draw



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Sheet: /USB Hub/
File: USB_Hub.kicad_sch

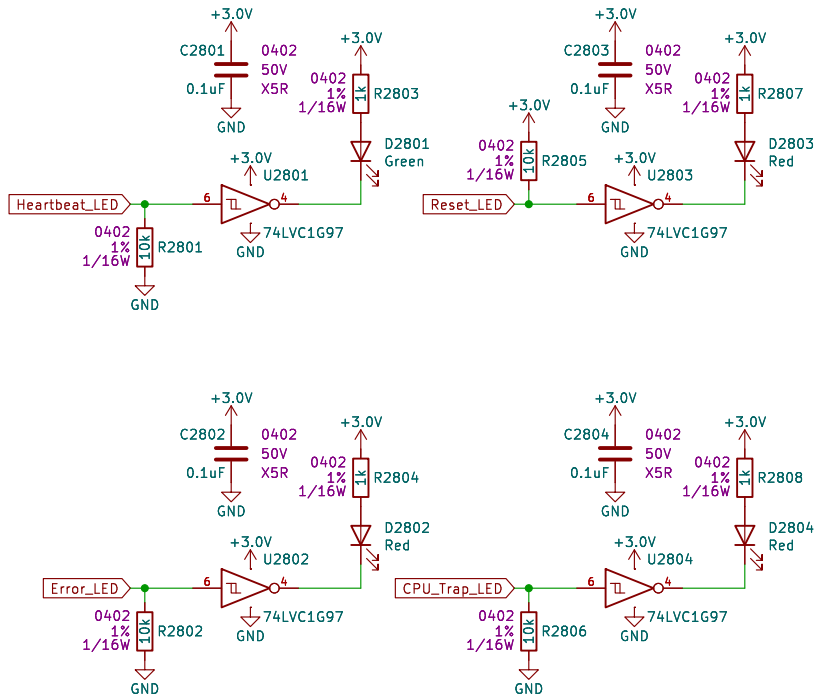
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Size: A Date: 2024-05-24
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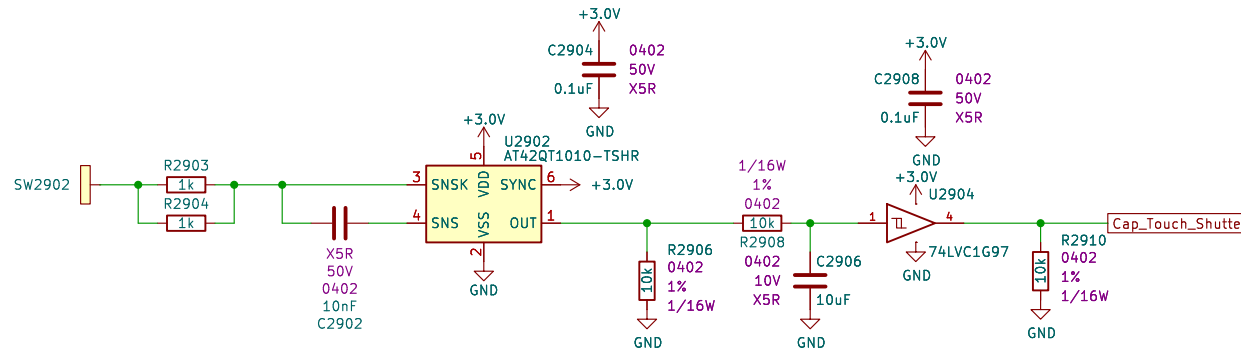
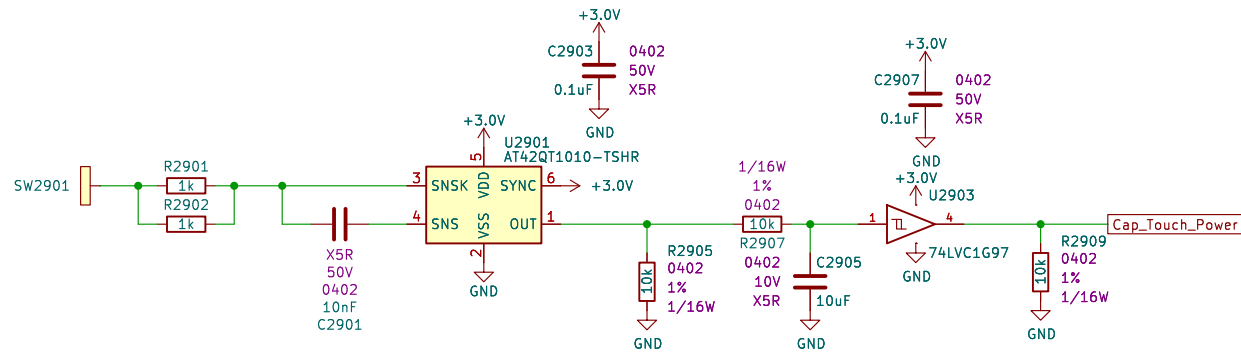
Drew Maatman and Michael Laffin

Sheet: /Status LEDs/
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Size: A Date: 2024-05-24
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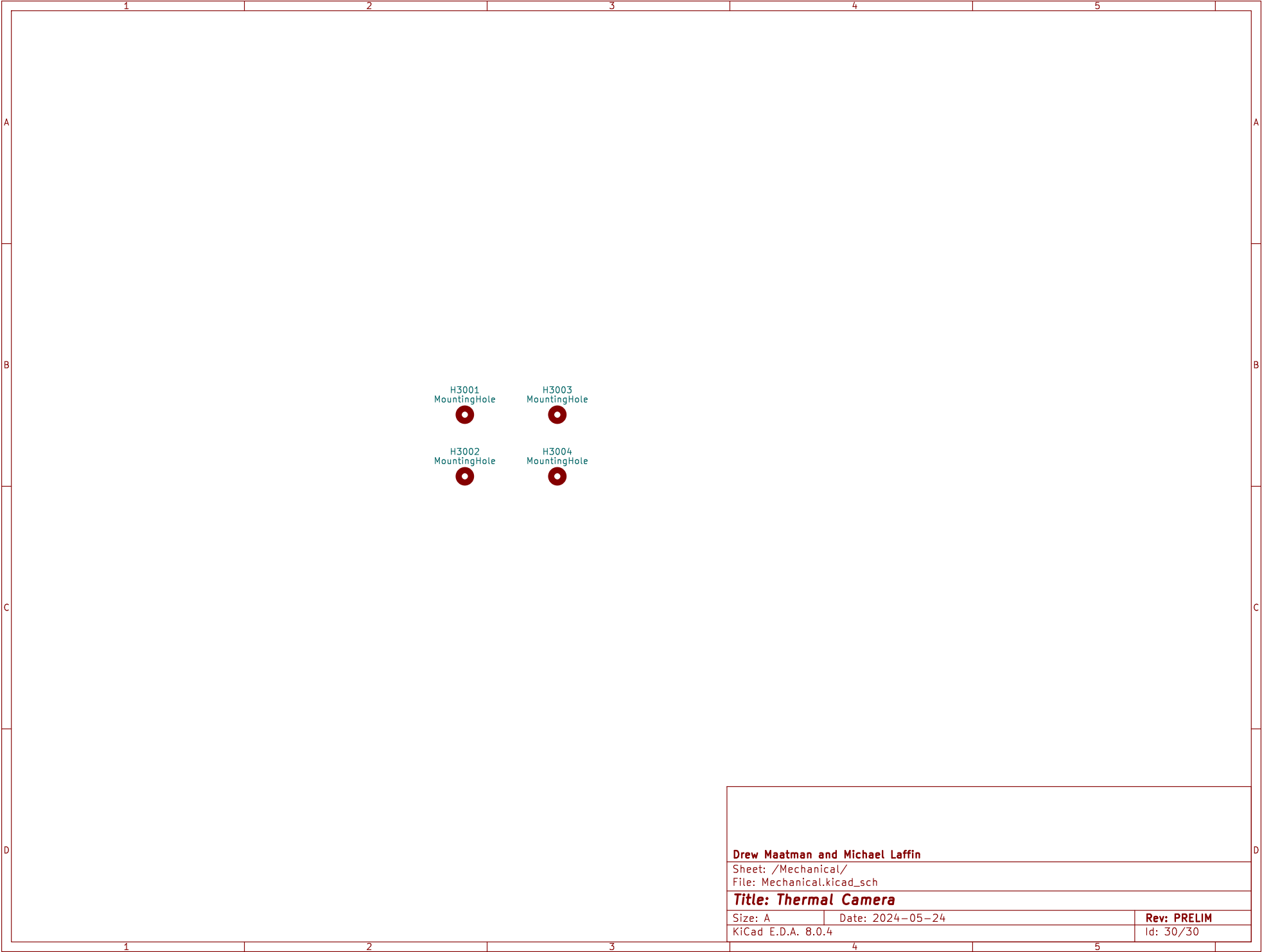
Drew Maatman and Michael Laffin

Sheet: /Capacitive Touch/
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Size: A Date: 2024-05-24
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Sheet: /Mechanical/
File: Mechanical.kicad_sch

Title: Thermal Camera

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