

	1	2	3	4	5		
A		<div>Power Input</div> <div>Power_Input.sch</div> <div>POS3P3 Power Supply</div> <div>POS3P3_Power_Supply.sch</div> <div>Microcontroller Programming</div> <div>Microcontroller_Programming.sch</div> <div>WiFi Module</div> <div>Wi_Fi_Module.sch</div> <div>USB UART Isolation</div> <div>USB_UART_Isolation.sch</div> <div>USB UART Bridge</div> <div>USB_UART_Bridge.sch</div> <div>Panel Data Connectors</div> <div>Panel_Data_Connectors.sch</div> <div>LED POS5 Monitoring</div> <div>LED_POS5_Monitoring.sch</div> <div>Microcontroller Power</div> <div>Microcontroller_Power.sch</div> <div>Microcontroller A</div> <div>Microcontroller_A.sch</div> <div>Microcontroller B</div> <div>Microcontroller_B.sch</div>		<div>External SRAM</div> <div>External_SRAM.sch</div> <div>External Flash 1</div> <div>External_Flash_1.sch</div> <div>External Flash 2</div> <div>External_Flash_2.sch</div> <div>External Flash 3</div> <div>External_Flash_3.sch</div> <div>External Flash 4</div> <div>External_Flash_4.sch</div> <div>External Flash 5</div> <div>External_Flash_5.sch</div> <div>External Flash 6</div> <div>External_Flash_6.sch</div> <div>External Flash 7</div> <div>External_Flash_7.sch</div> <div>External Flash 8</div> <div>External_Flash_8.sch</div> <div>Status LEDs 1</div> <div>Status_LEDs_1.sch</div> <div>Panel Data Level Shifters 1</div> <div>Panel_Data_Level_Shifters_1.sch</div> <div>Panel Data Level Shifters 2</div> <div>Panel_Data_Level_Shifters_2.sch</div> <div>Panel Data Level Shifters 3</div> <div>Panel_Data_Level_Shifters_3.sch</div> <div>Test Points</div> <div>Test_Points.sch</div> <div>Pushbuttons</div> <div>Pushbuttons.sch</div> <div>POS5 Power Supply</div> <div>POS5_Power_Supply.sch</div>	<div>Mechanical</div> <div>Mechanical.sch</div> <div>Internal Rail Monitoring</div> <div>Internal_Rail_Monitoring.sch</div> <div>Status LEDs 2</div> <div>Status_LEDs_2.sch</div>		A
B						B	
C						C	
D						D	

To Do List:

* Add voltage rail ADC dividers/filters

* ESD protection on input and output signals

* Add graphical items to certain sheets (ESD warning, heat, etc)

* Add MU Logo to each sheet

* Add Titles to each sheet

* Add relevant design notes/routing notes to sheets

* Add test points sheet

* Re-order sheets

* Wire everything to Micro

* Assign Refdes's

* Draw custom footprints

* Assign footprints

* Assign Digi-Key Partnumbers

* Run ERC, resolve errors

* Add firmware notes sheet

* Add COM port settings notes to USB sheet

* Generate netlist

* Generate BOM

* Layout PCB

Sheet: /

File: LED_Display_Controller.sch

Title:

Size: A

Date:

KiCad E.D.A. kicad (5.0.1)–3

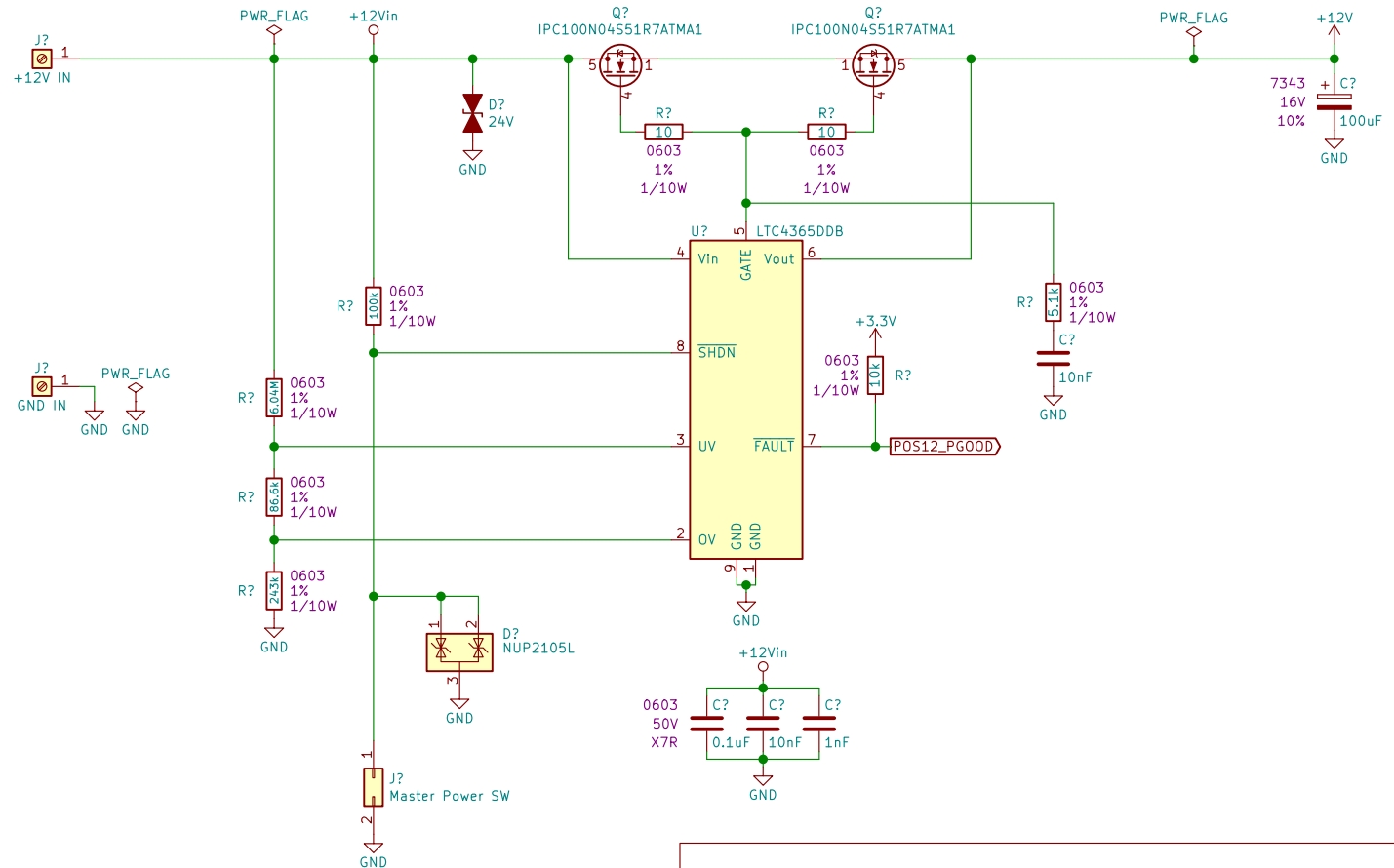
Rev:

Id: 1/31

- To Do List:
- * Add voltage rail ADC dividers/filters
 - * ESD protection on input and output signals
 - * Add graphical items to certain sheets (ESD warning, heat, etc)
 - * Add MU Logo to each sheet
 - * Add Titles to each sheet
 - * Add relevant design notes/routing notes to sheets
 - * Add test points sheet
 - * Re-order sheets
 - * Wire everything to Micro
 - * Assign Refdes's
 - * Draw custom footprints
 - * Assign footprints
 - * Assign DigI-Key Partnumbers
 - * Run ERC, resolve errors
 - * Add firmware notes sheet
 - * Add COM port settings notes to USB sheet
 - * Generate netlist
 - * Generate BOM
 - * Layout PCB

Sheet: /		
File: LED_Display_Controller.sch		
Title:		
Size: A	Date:	Rev:
KiCad E.D.A. kicad (5.0.1)-3		Id: 1/31

Power Input



Sheet: /Power Input/
File: Power_Input.sch

Title:

Size: A

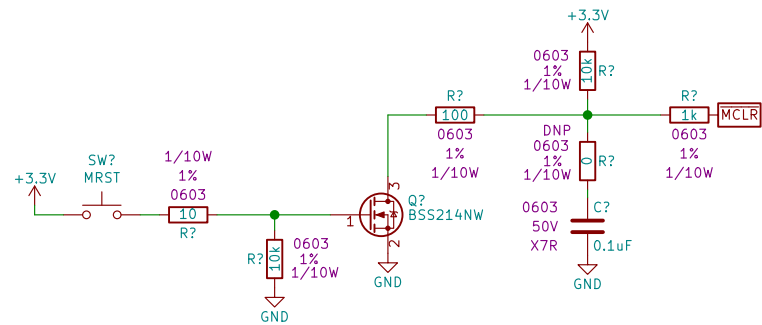
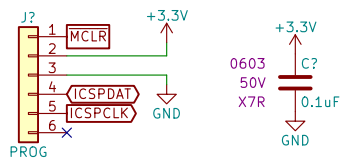
Date:

KiCad E.D.A. kicad (5.0.1)-3

Rev:

Id: 2/31

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Sheet: /Microcontroller Programming/
File: Microcontroller_Programming.sch

Title:

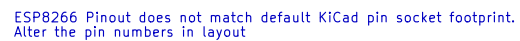
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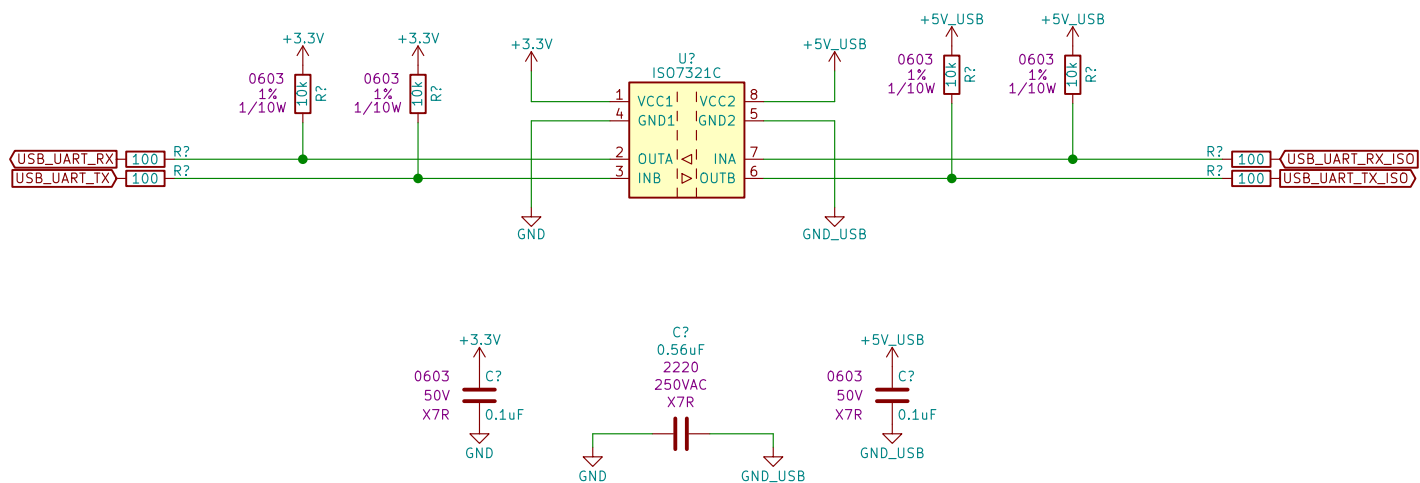
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Rev:

Id: 4/31



Id: 5/31



Sheet: /USB UART Isolation/
File: USB_UART_Isolation.sch

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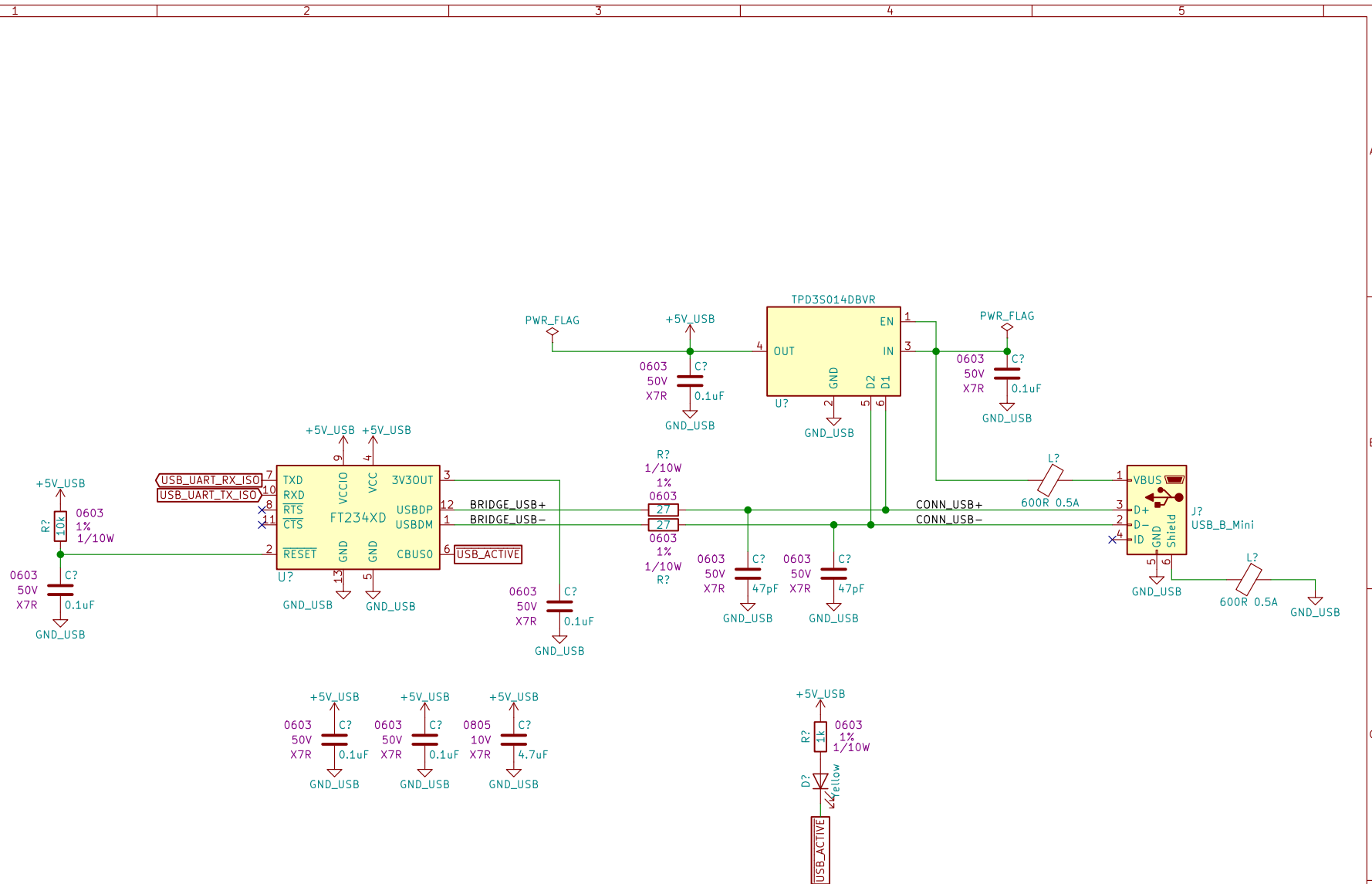
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Date:

KiCad E.D.A. kicad (5.0.1)-3

Rev:

Id: 6/31



Sheet: /USB UART Bridge/
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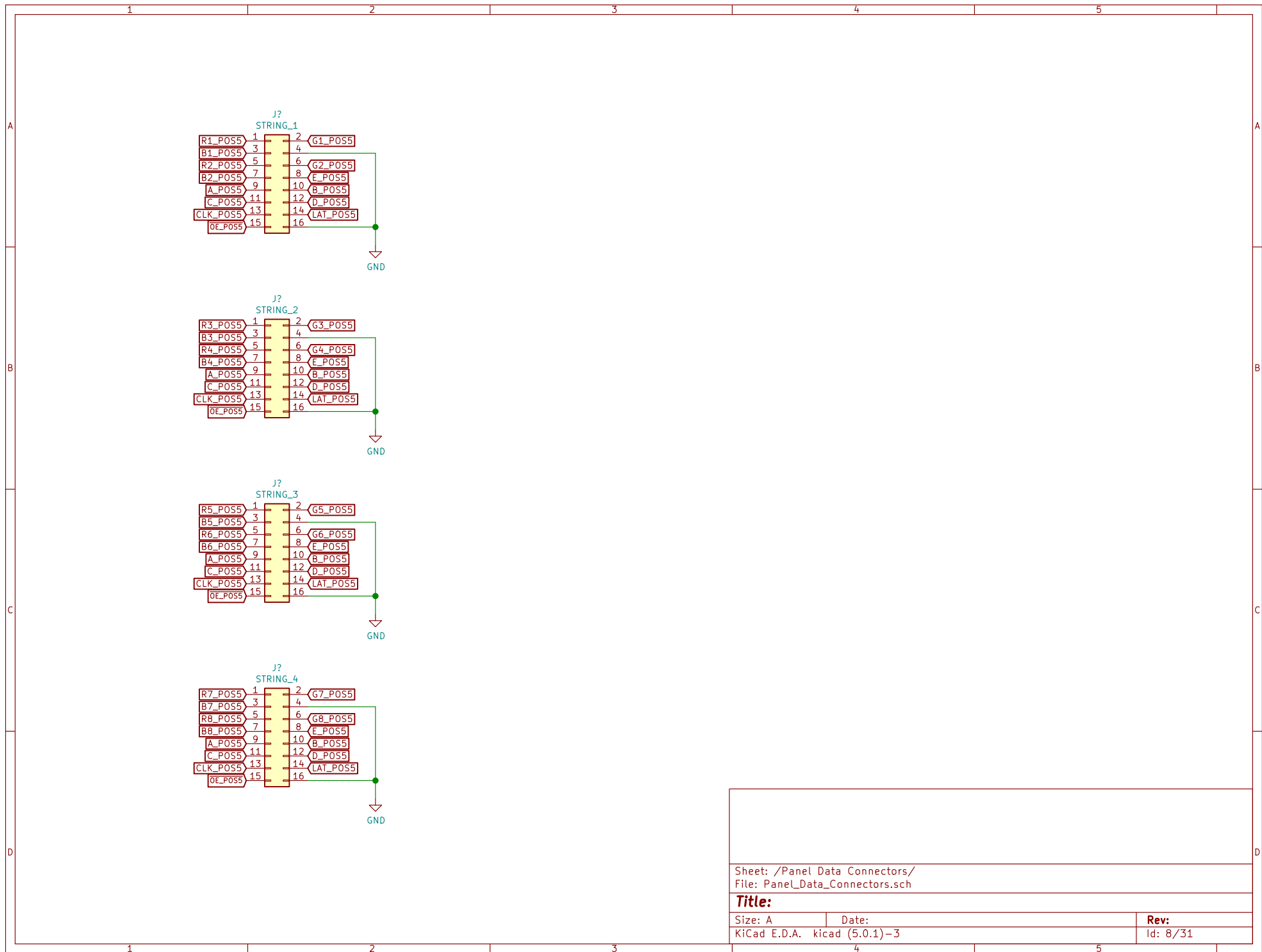
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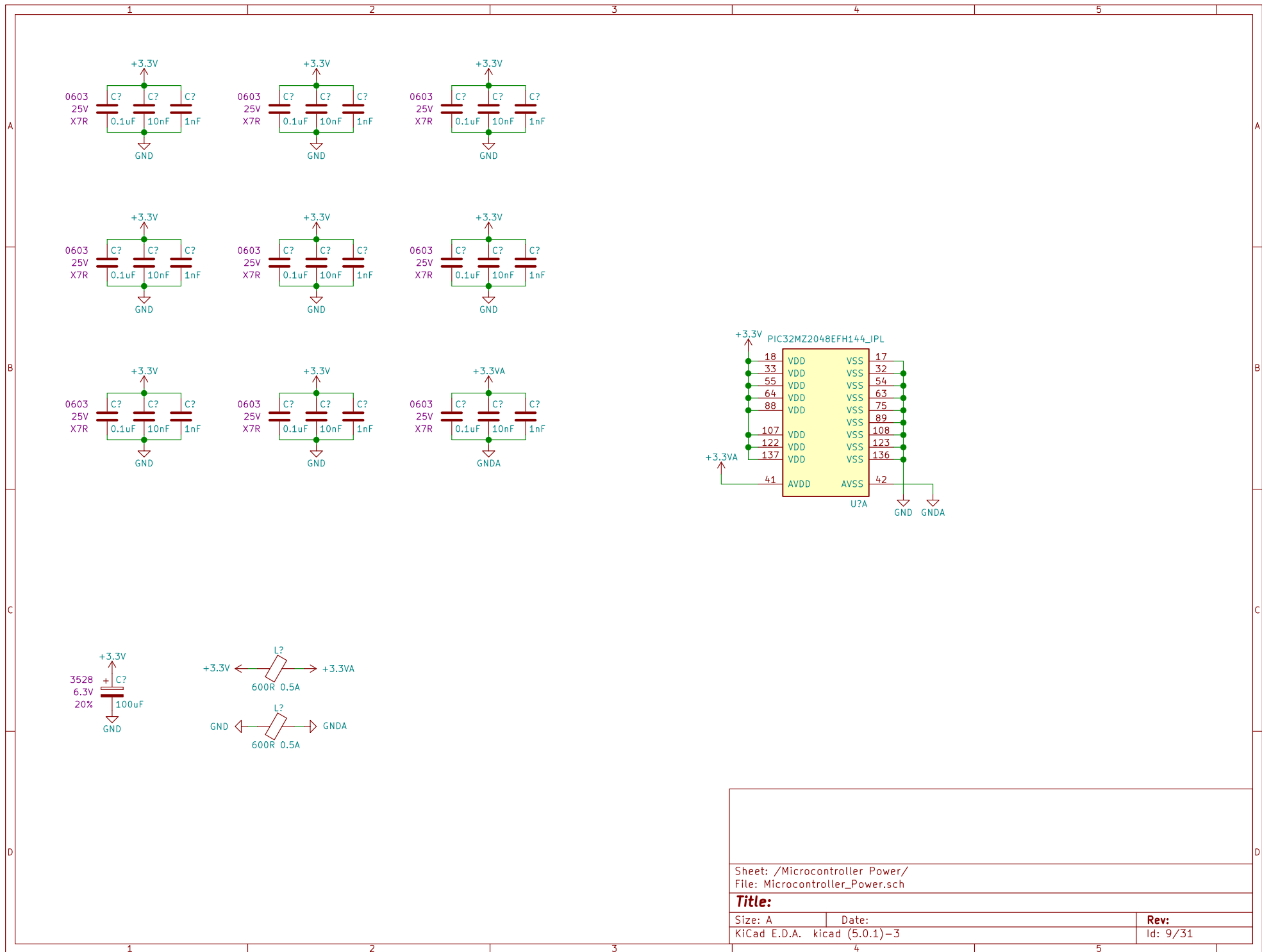
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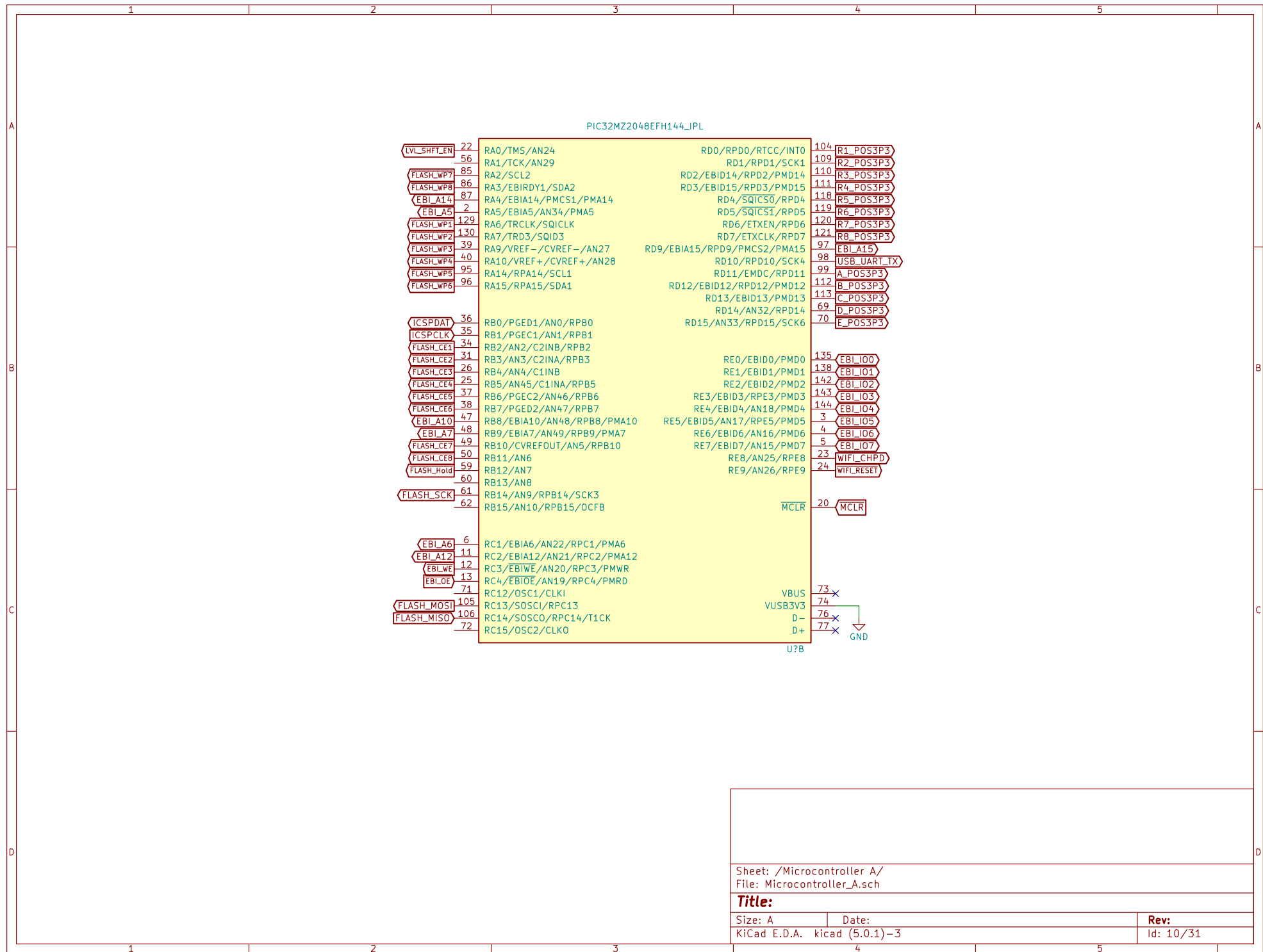
KiCad E.D.A. kicad (5.0.1)-3

Rev:

Id: 7/31







Sheet: /Microcontroller A/
File: Microcontroller_A.sch

Title:

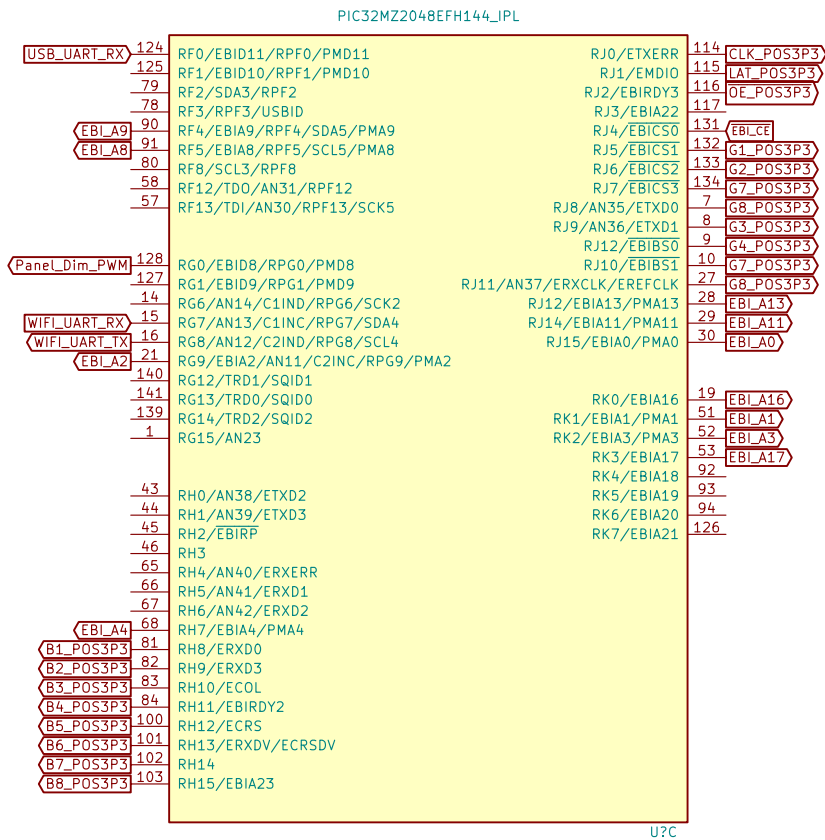
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Date:

KiCad E.D.A. kicad (5.0.1)-3

Rev:

Id: 10/31



Sheet: /Microcontroller B/
File: Microcontroller_B.sch

Title:

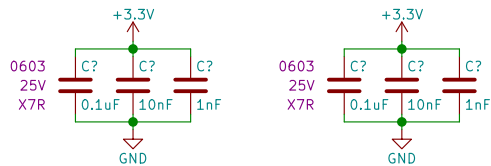
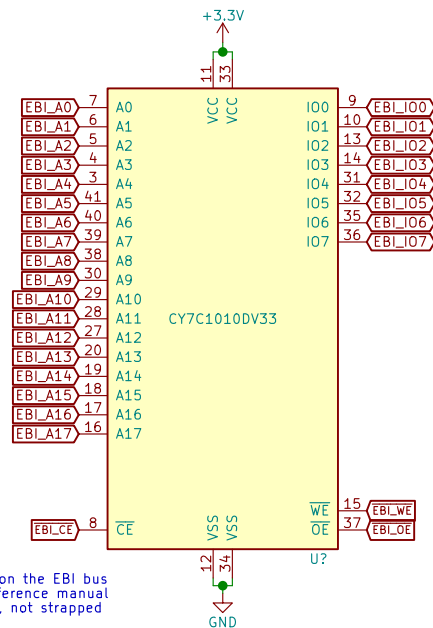
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Date:

KiCad E.D.A. kicad (5.0.1)-3

Rev:

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Sheet: /External SRAM/
File: External_SRAM.sch

Title:

Size: A

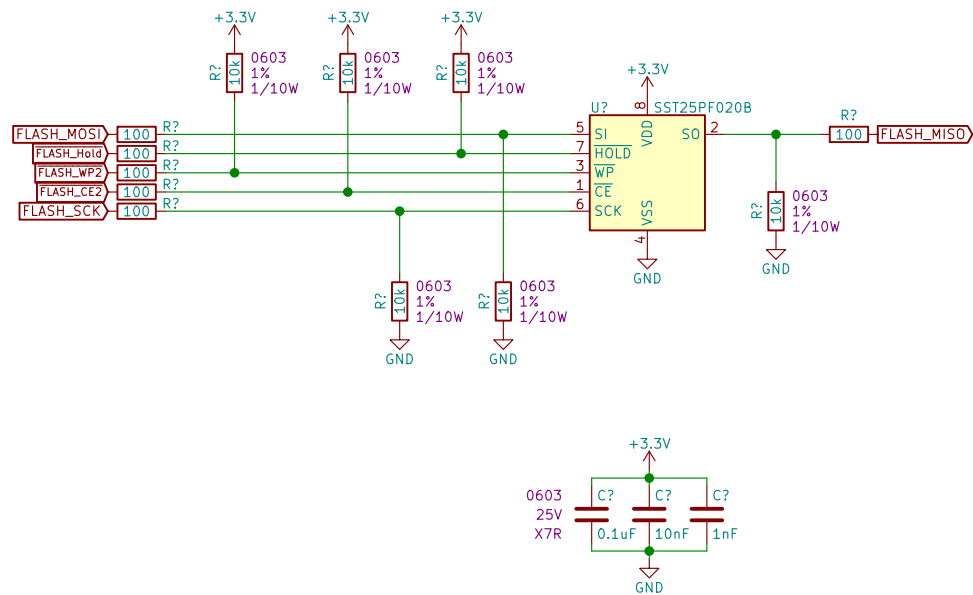
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Rev:

KiCad E.D.A. kicad (5.0.1)-3

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Sheet: /External Flash 2/
File: External_Flash_2.sch

Title:

Size: A

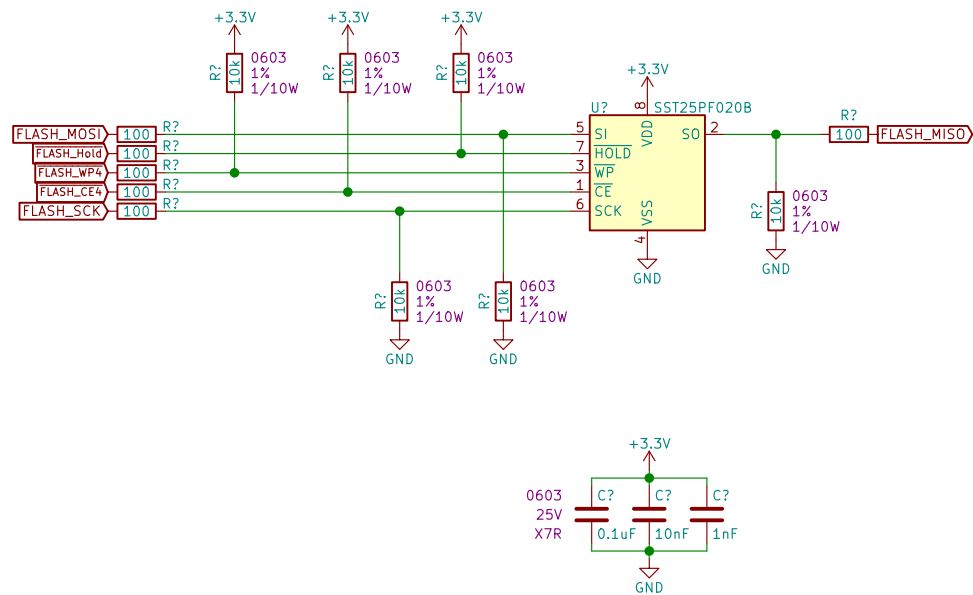
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KiCad E.D.A. kicad (5.0.1)-3

Rev:

Id: 14/31



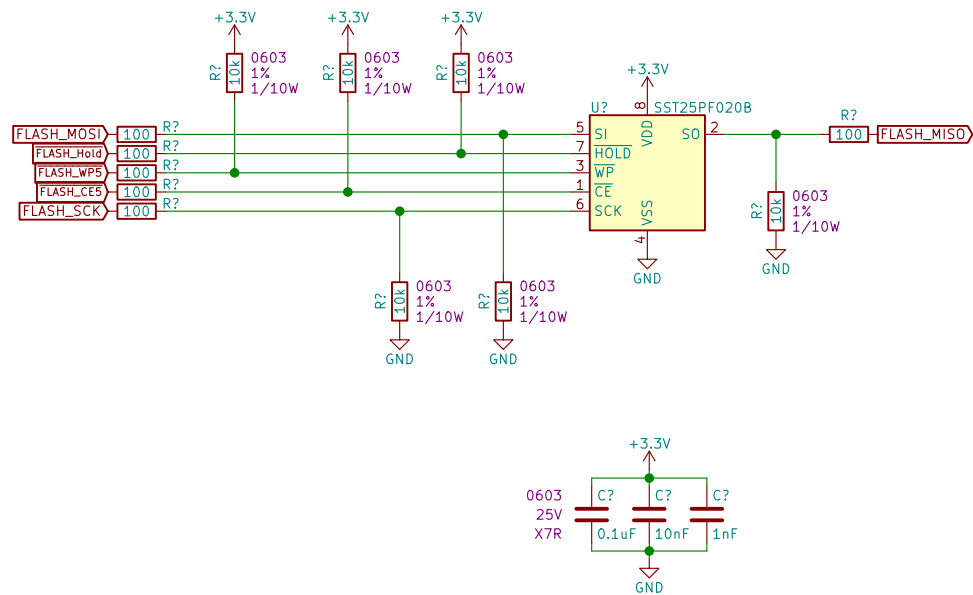


Sheet: /External Flash 4/
File: External_Flash_4.sch

Title:

Size: A Date:
KiCad E.D.A. kicad (5.0.1)-3

Rev:
Id: 16/31



Sheet: /External Flash 5/
File: External_Flash_5.sch

Title:

Size: A

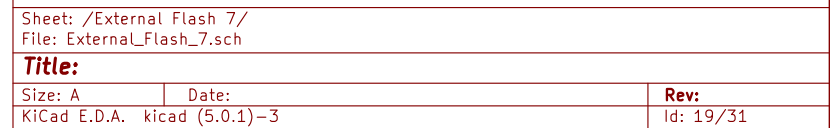
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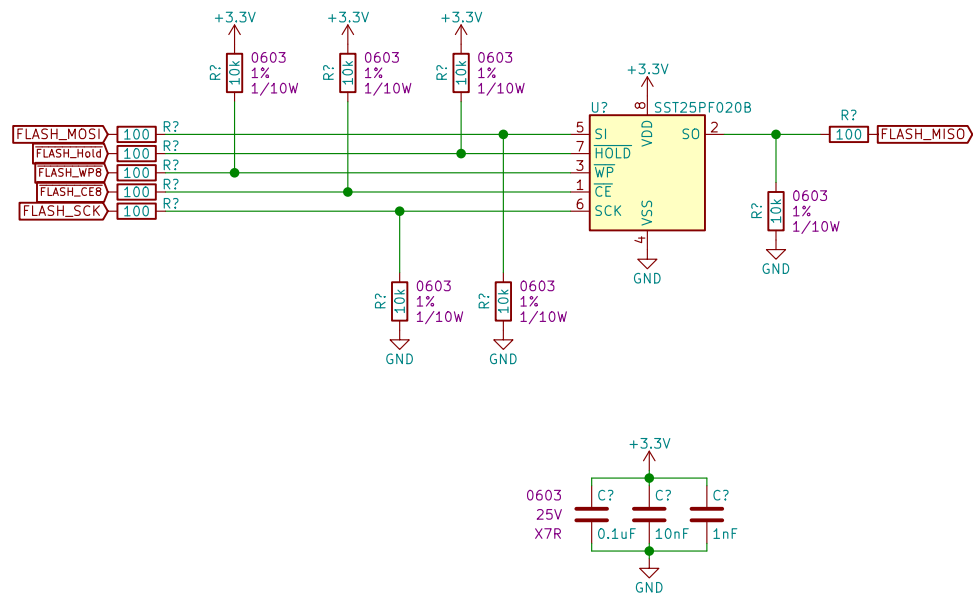
KiCad E.D.A. kicad (5.0.1)-3

Rev:

Id: 17/31







Sheet: /External Flash 8/
File: External_Flash_8.sch

Title:

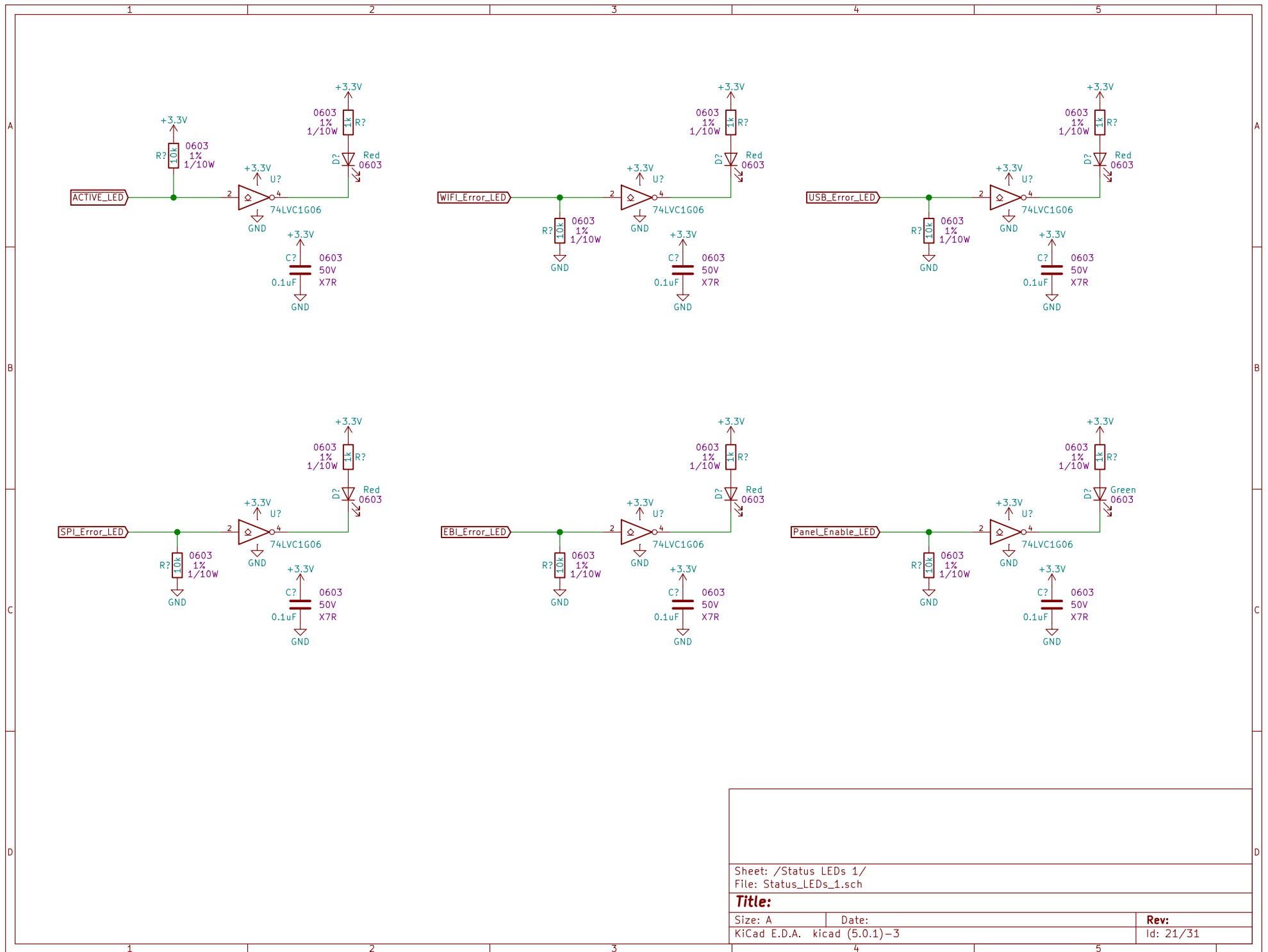
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KiCad E.D.A. kicad (5.0.1)-3

Rev:

Id: 20/31

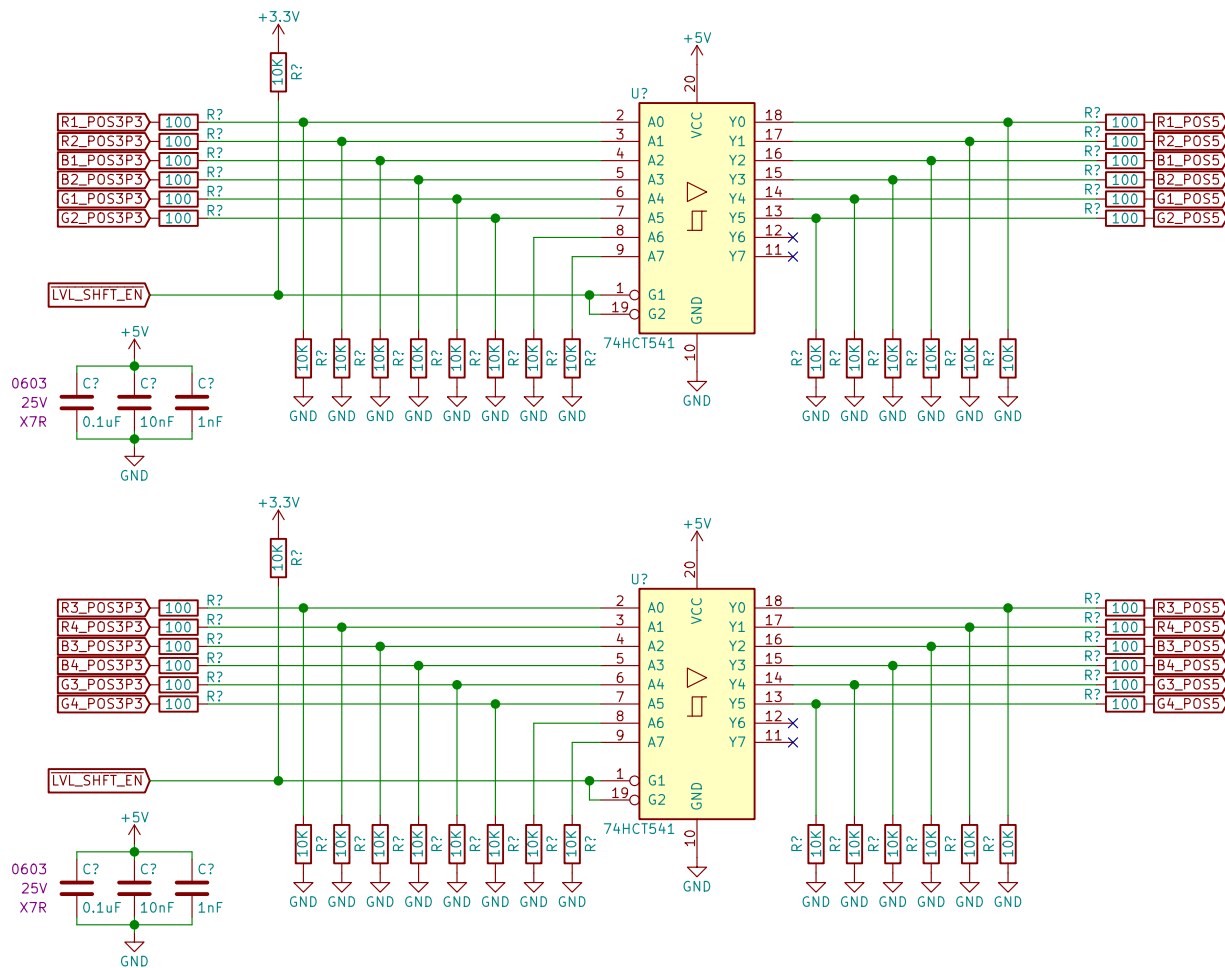


Sheet: /Status LEDs 1/
File: Status_LEDs_1.sch

Title:

Size: A Date:
KiCad E.D.A. kicad (5.0.1)-3

Rev:
Id: 21/31



Sheet: /Panel Data Level Shifters 1/
File: PanelData_LevelShifters_1.sch

Title:

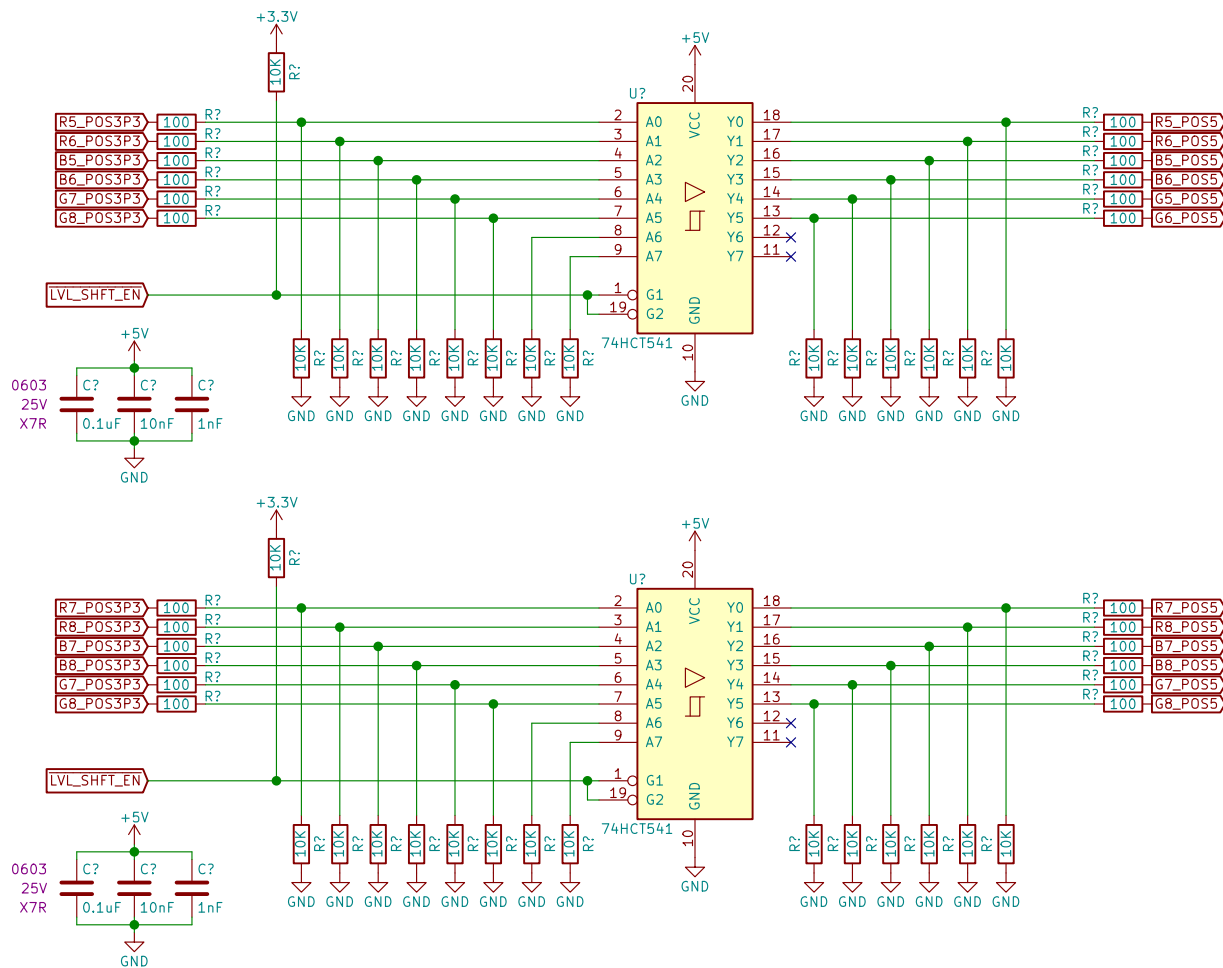
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Date:

KiCad E.D.A. kicad (5.0.1)–3

Rev:

Id: 22/31



Sheet: /Panel Data Level Shifters 2/
File: PanelData_LevelShifters_2.sch

Title:

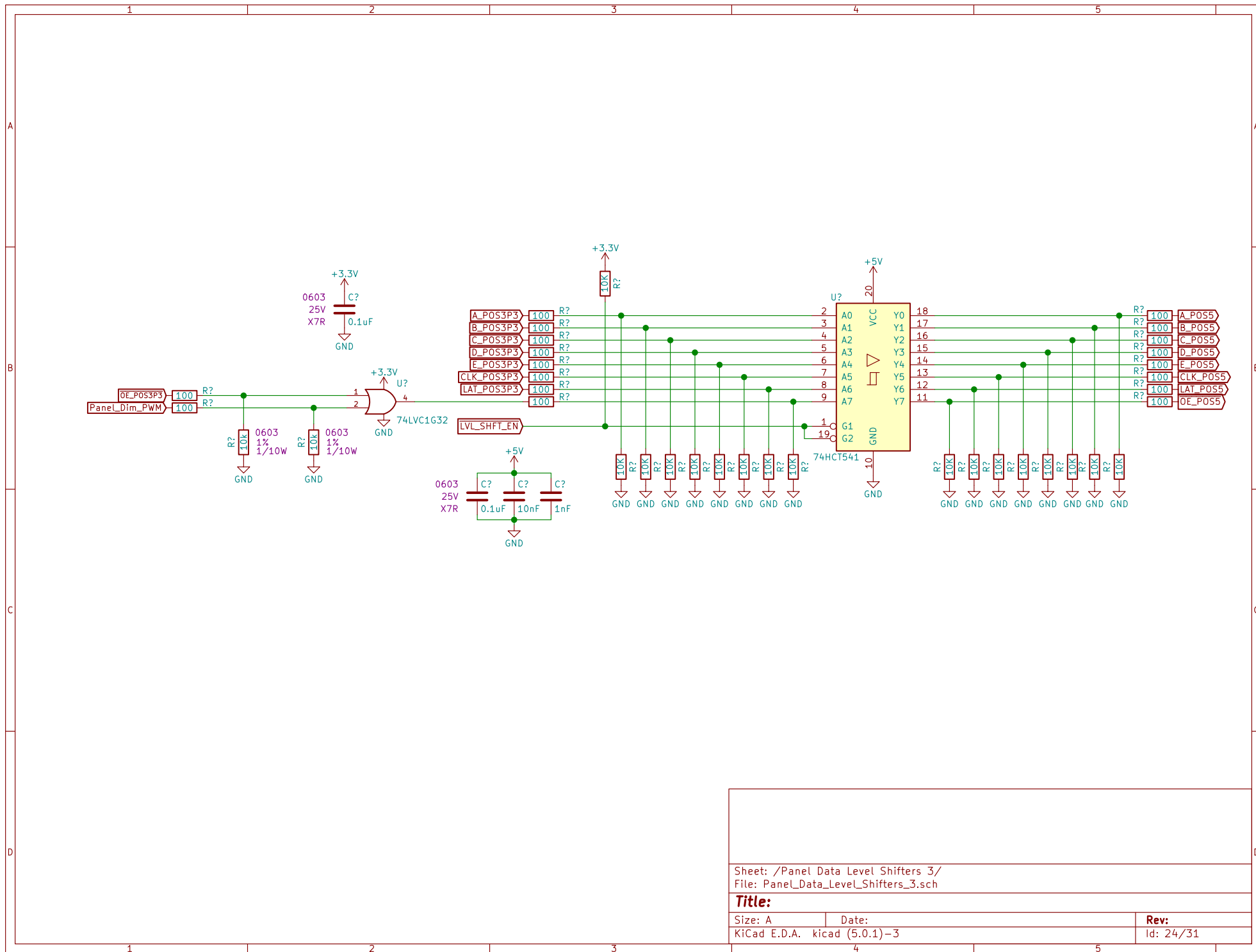
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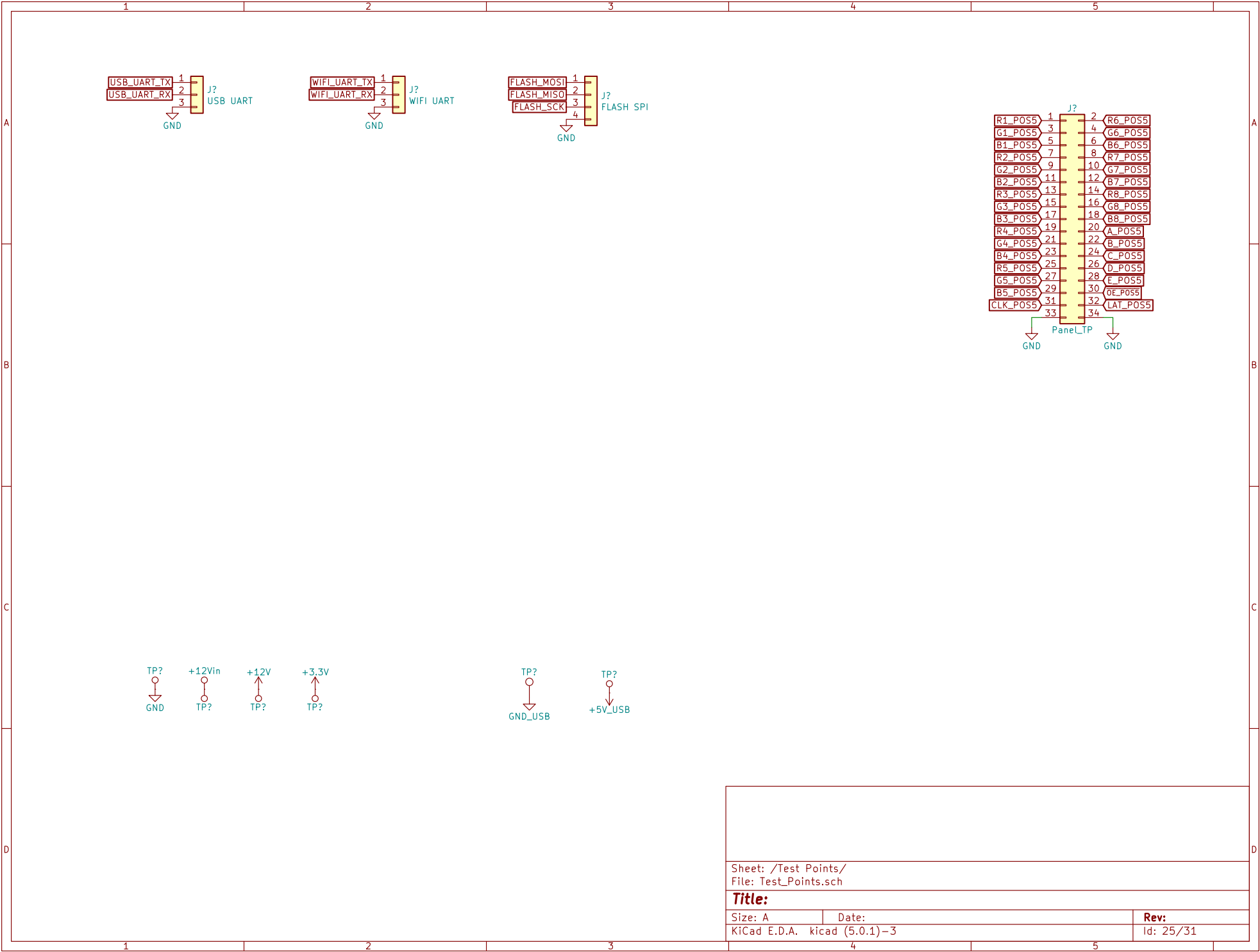
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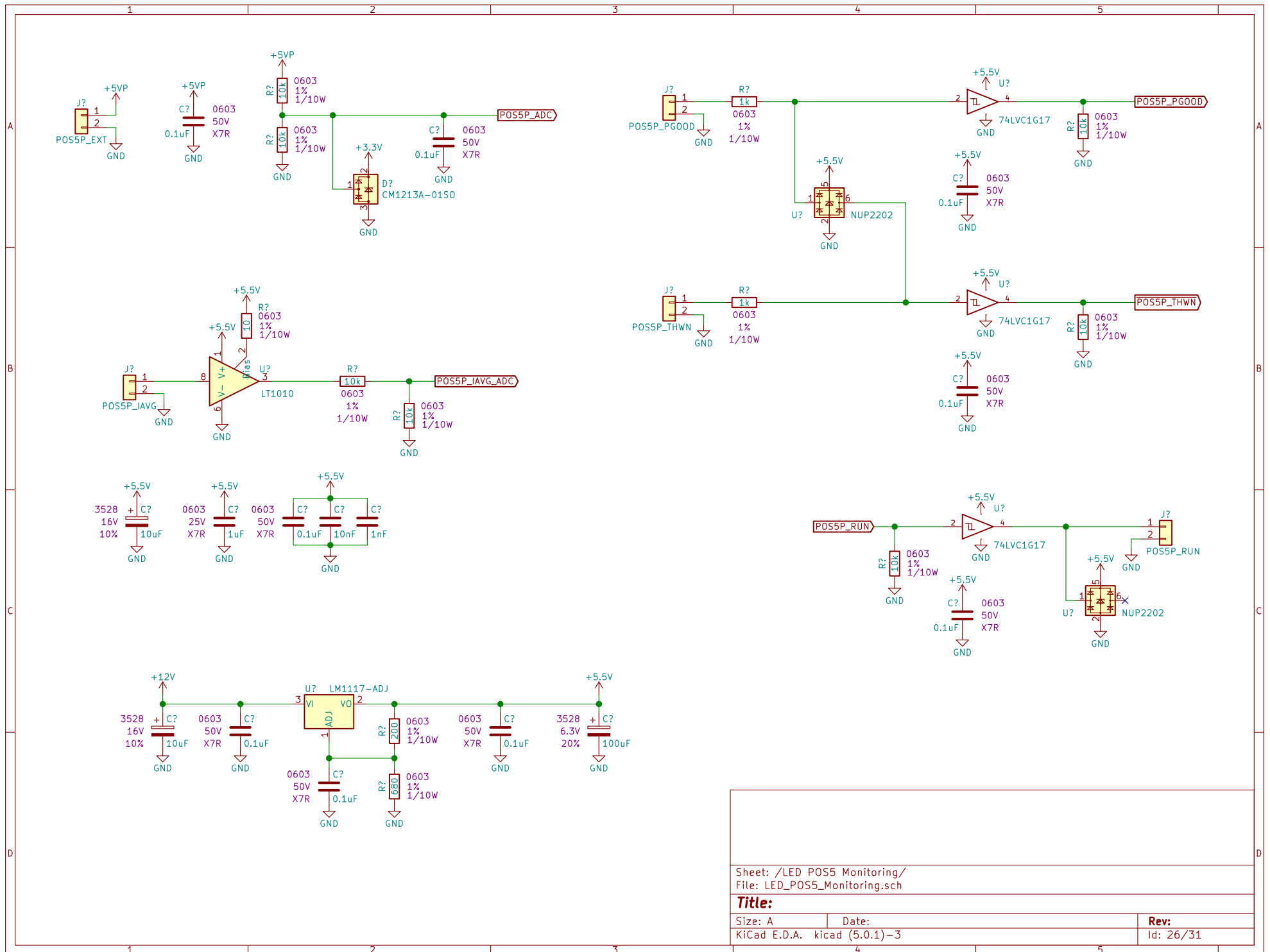
KiCad E.D.A. kicad (5.0.1)-3

Rev:

Id: 23/31







Sheet: /LED POS5 Monitoring/
File: LED_POS5_Monitoring.sch

Title:

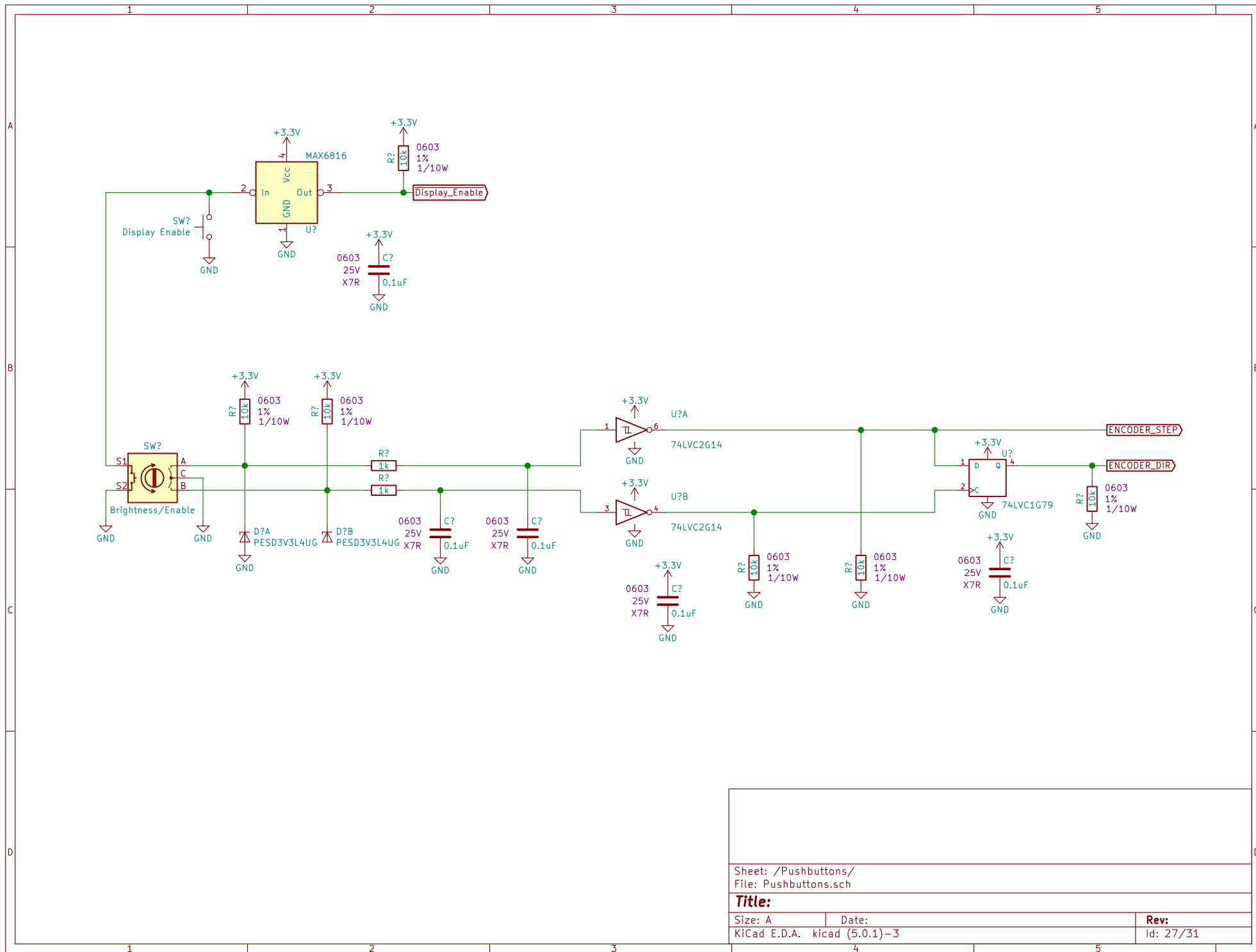
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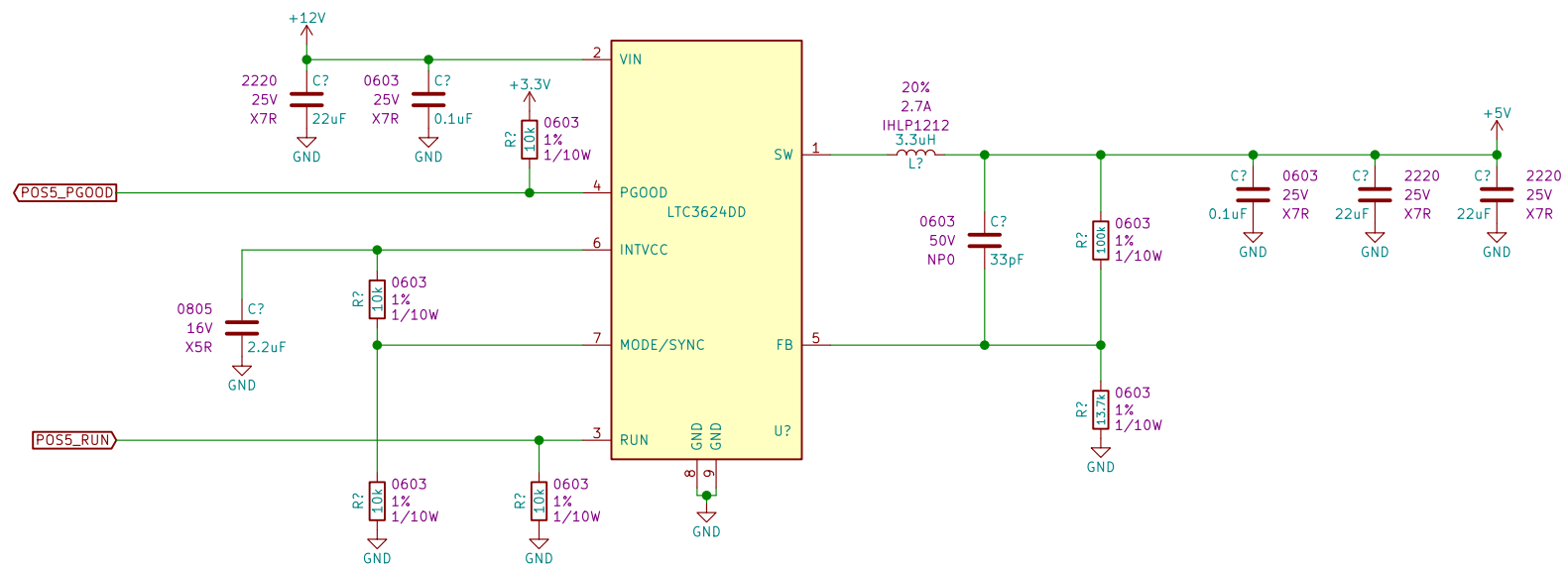
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Rev:

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Sheet: /POS5 Power Supply/ File: POS5_Power_Supply.sch		
Title:		
Size: A	Date:	Rev:
KiCad E.D.A. kicad (5.0.1)-3		Id: 28/31



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A																									A
B																									B
C																									C
D																									D
1					2					3					4					5					

Sheet: /Internal Rail Monitoring/
File: Internal_Rail_Monitoring.sch

Title:

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Rev:Id: 30/31

Sheet: /Internal Rail Monitoring/ File: Internal_Rail_Monitoring.sch																								
Title:																								
Size: A					Date:															Rev:				
KiCad E.D.A. kicad (5.0.1)–3																				Id: 30/31				

