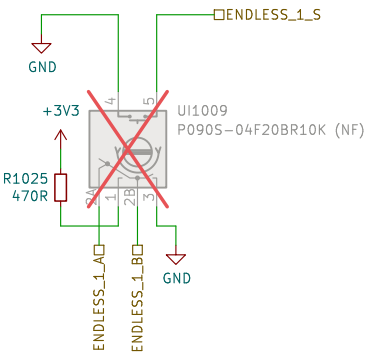
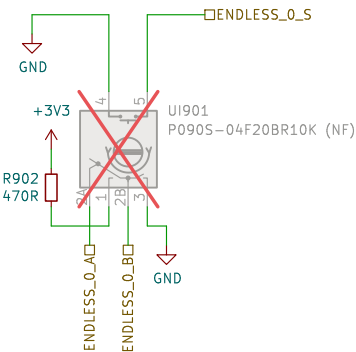


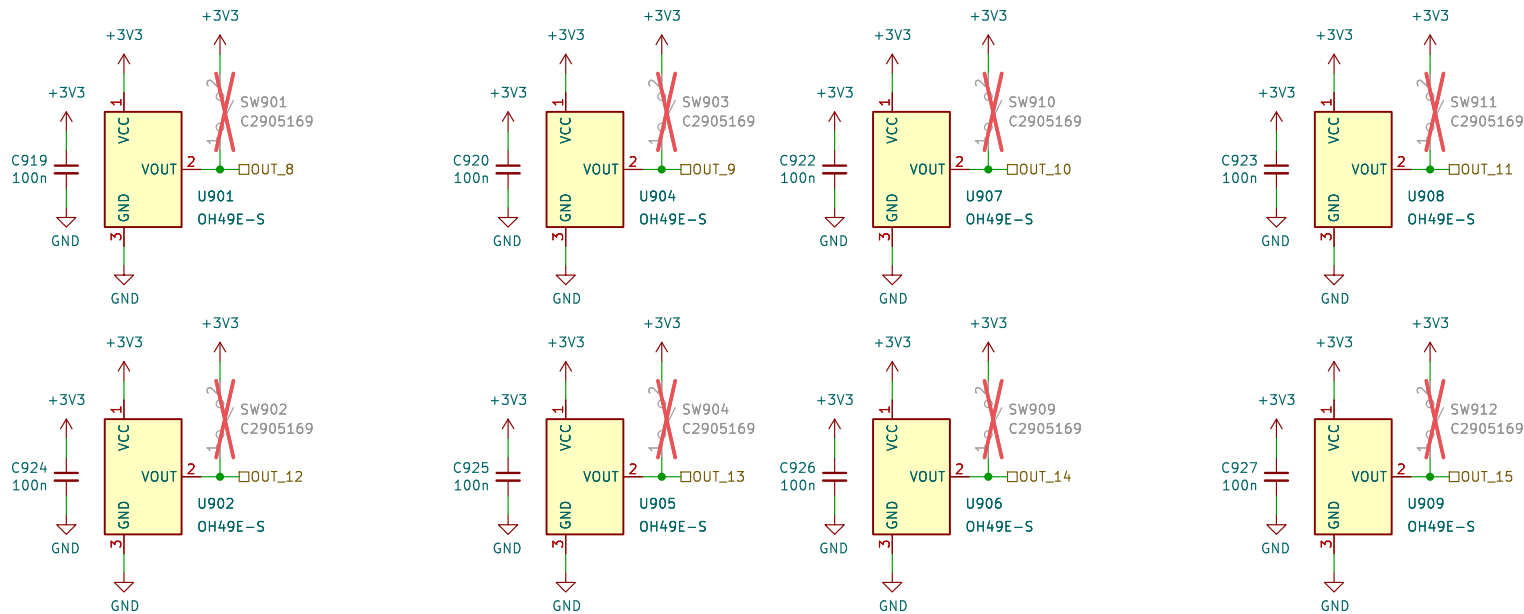
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Sheet: /UI_POT_BTN/ File: UI_POT_BTN.kicad_sch		
Title:		
Size: A4	Date:	Rev:
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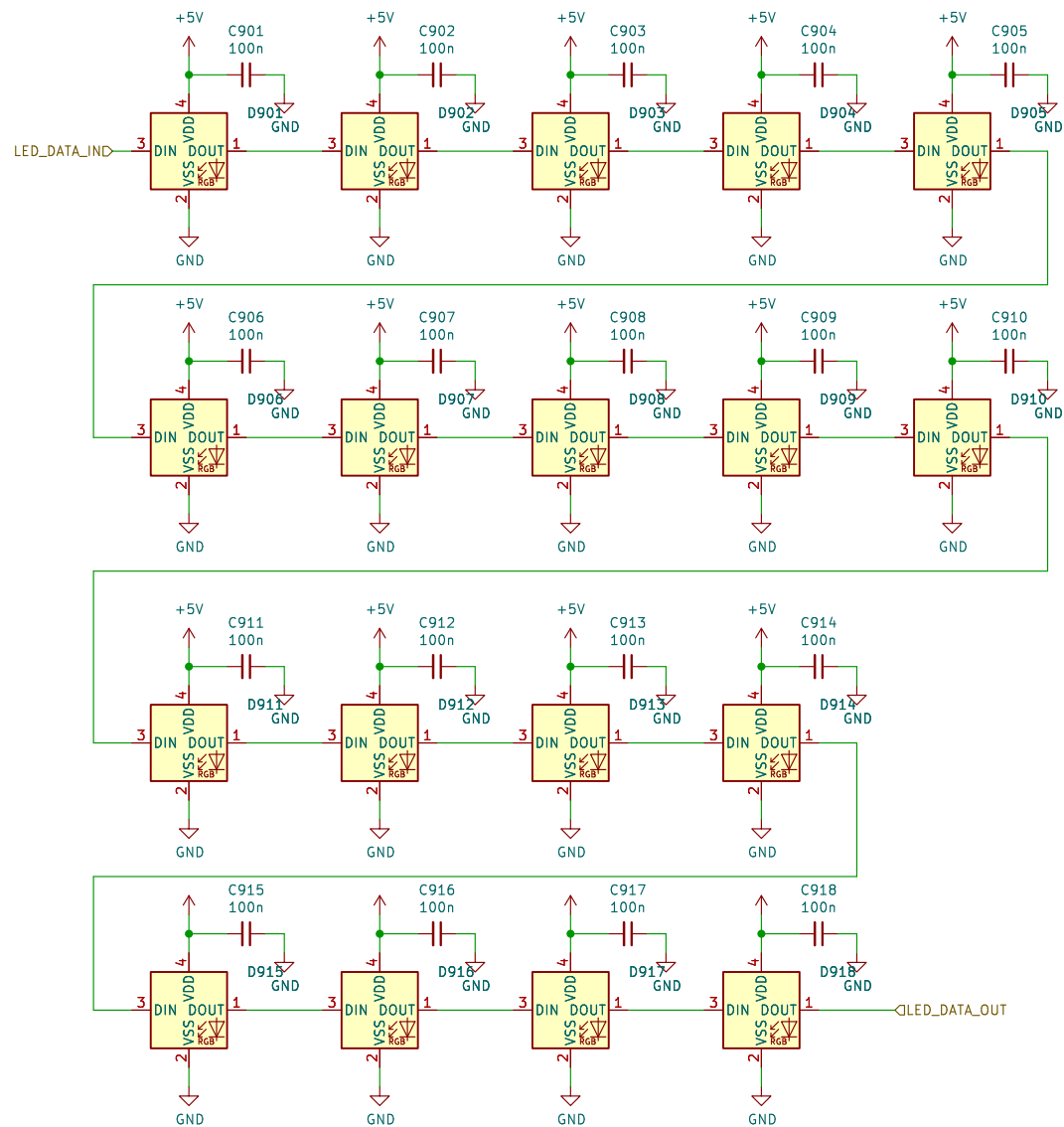
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Simulation:
<http://tinyurl.com/y229mty4>



Sheet: /UI_BUTTON/ File: UI_BUTTON.kicad_sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. 8.0.8	Id: 3/22	

900



Sheet: /UI_LED/
File: UI_LED.kicad_sch

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Size: A4

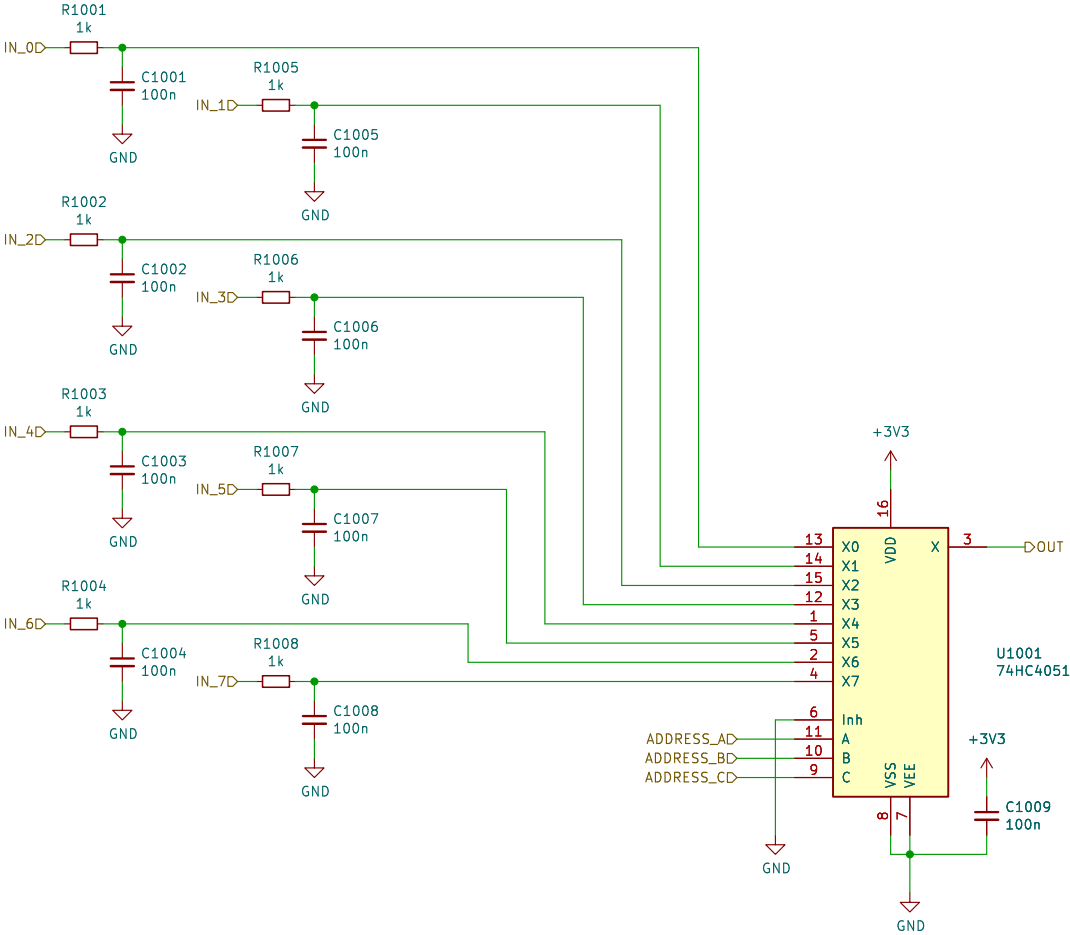
Date:

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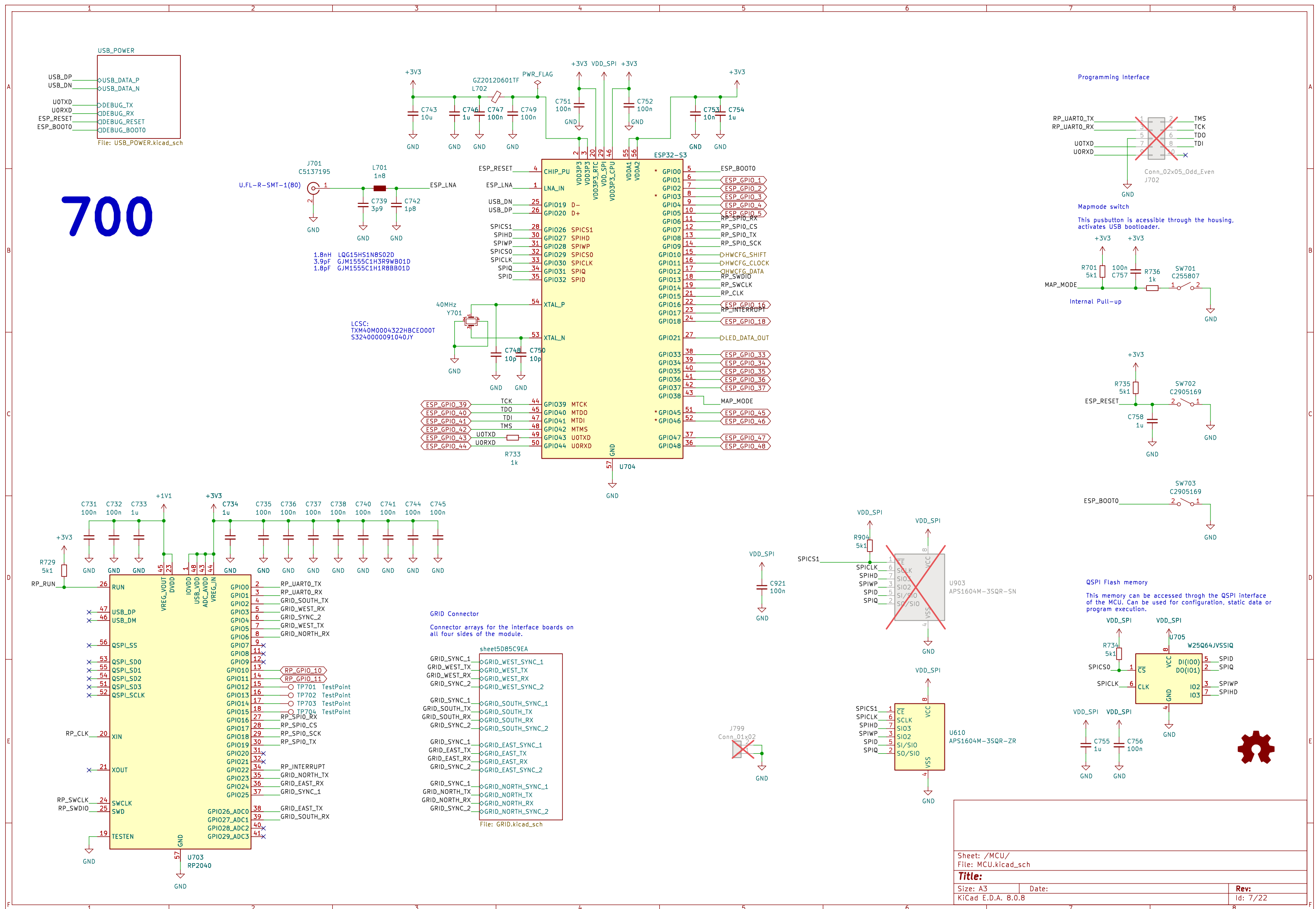
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Sheet: /Sheet5D7C8BFD/		
File: UI_MUX.kicad_sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. 8.0.8	Id: 5/22	

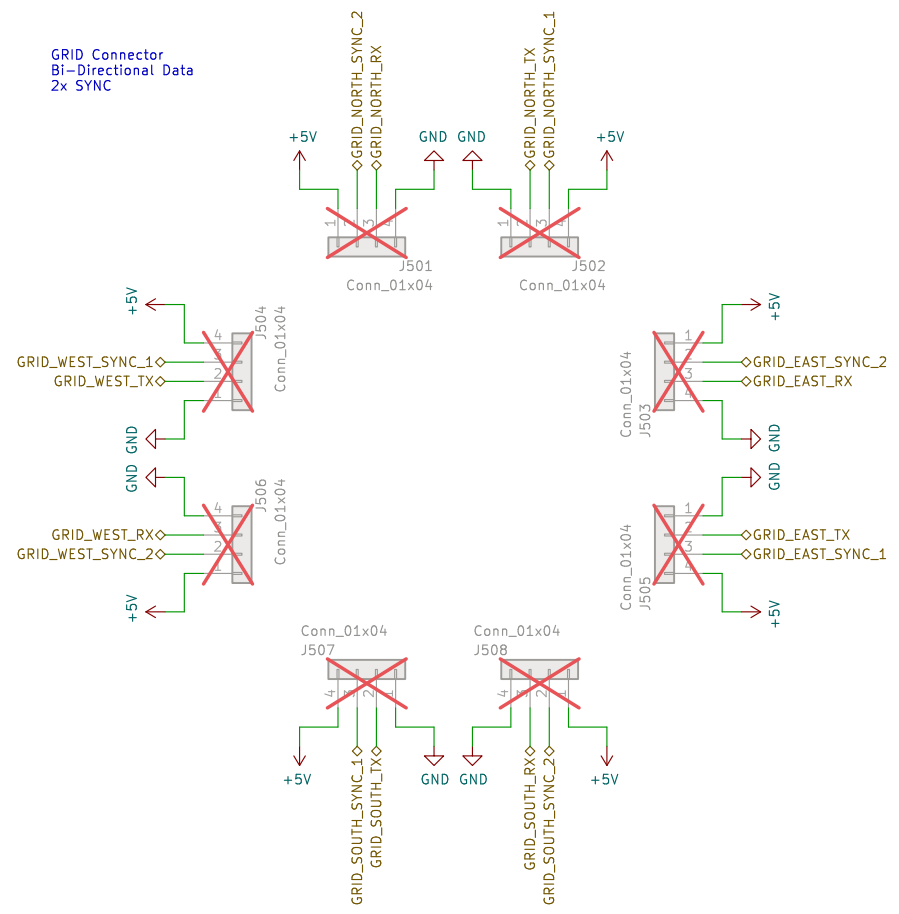
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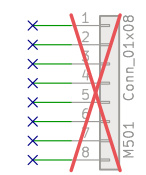


500

GRID Connector
Bi-Directional Data
2x SYNC



Board Mounting Pattern

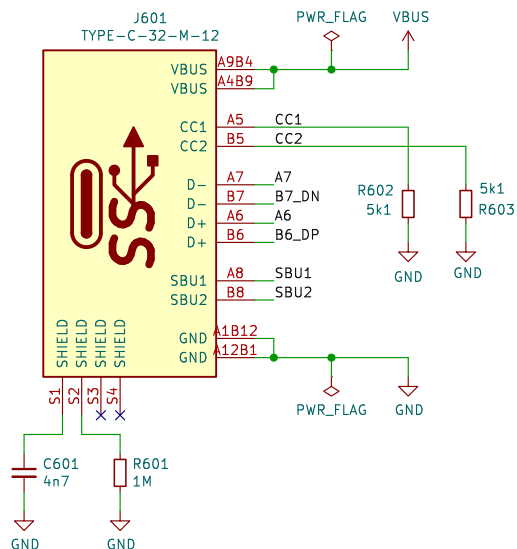


Sheet: /MCU/sheet5D85C9EA/ File: GRID.kicad_sch		
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Size: A4	Date:	Rev:
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600

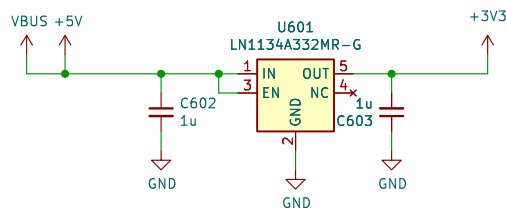
USB Port

USB C upstream facing port configured for 5V 3A power consumption.



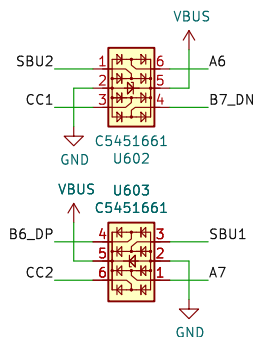
3V3 LDO

LDO regulator for generating the +3V3 power rail for the microcontroller and UI.

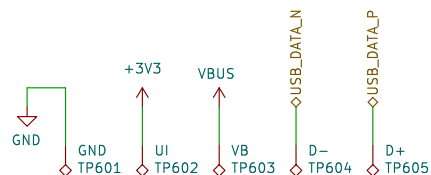


ESD Prot.

ESP protection for all 8 signals externally accessible via the USB C connector.

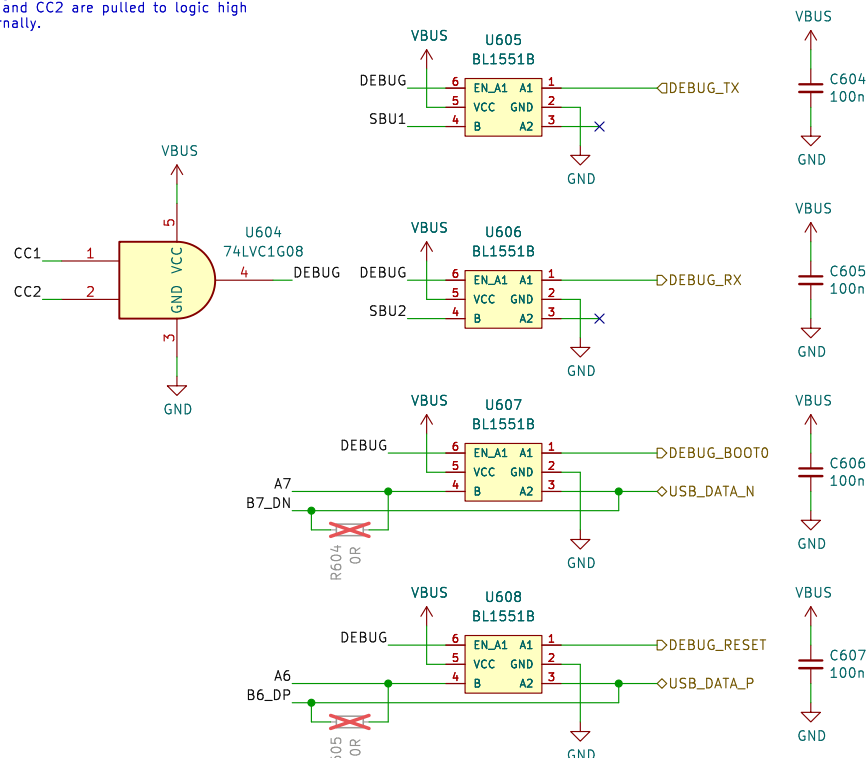


Testpoints



Debug-Mode Multiplexing

Debug.mode is activated when both CC1 and CC2 are pulled to logic high externally.



Sheet: /MCU/USB_POWER/
File: USB_POWER.kicad_sch

Title:

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Grid firmware can identify the hardware and the board revision through a 3 wire serial interface using one or more shift register as read only memory. The content of the memory is defined by pulling the inputs high or low through pcb traces or solderable configuration jumpers.

D0: MODEL (LSB)
D1: MODEL
D2: MODEL
D3: MODEL (MSB)
D4: REVISION (LSB)
D5: REVISION
D6: REVISION
D7: REVISION (MSB)

Po16	0000
Bo16	0001
PBF4	0010
EN16	0011
...	

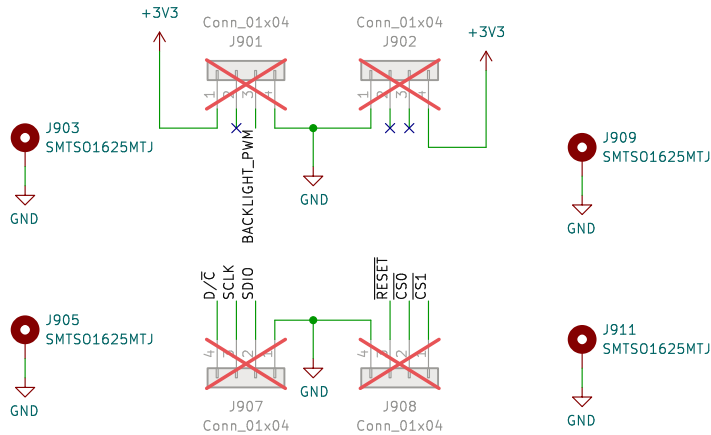
```
RevA 0000
RevB 0001
RevC 0010
RevD 0011
...
```

Sheet: /HWCFG/ File: HWCFG.kicad_sch			D
Title:			
Size: A4	Date:	Rev:	
KiCad E.D.A. 8.0.8		Id: 10/22	

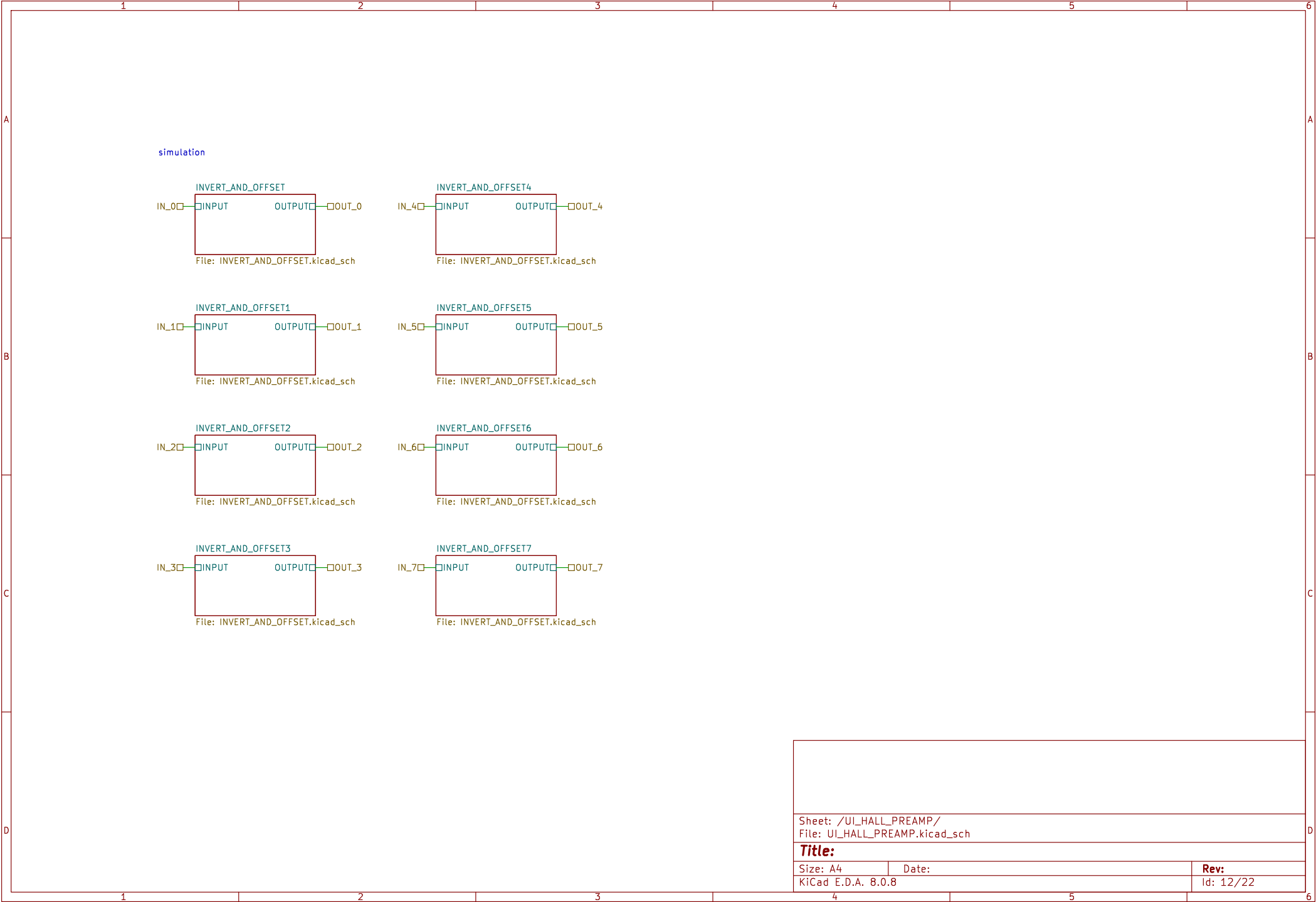
1000

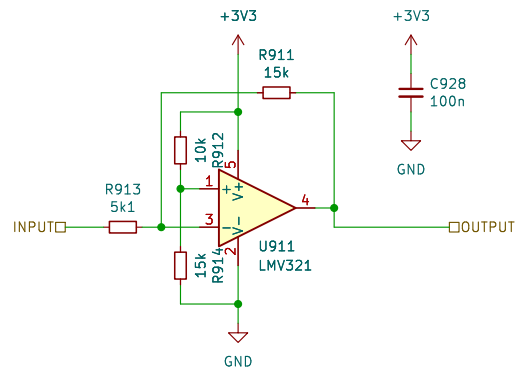
BACKLIGHT□ BACKLIGHT_PWM

CS1□ CS1
CS0□ CS0
D/□ D/□
SCLK□ SCLK
SDIO□ SDIO
RESET□ RESET



Sheet: /UI_DISPLAY/ File: UI_DISPLAY.kicad_sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. 8.0.8	Id: 11/22	





Sheet: /UI_HALL_PREAMP/INVERT_AND_OFFSET/
File: INVERT_AND_OFFSET.kicad_sch

Title:

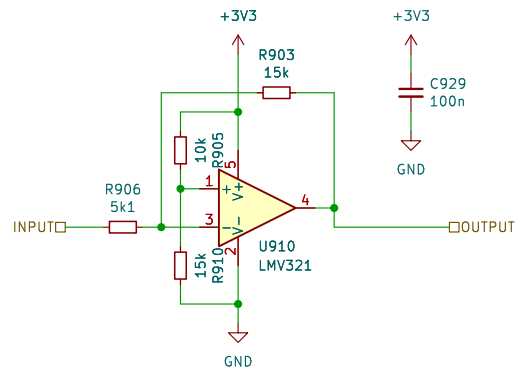
Size: A4

Date:

Rev:

KiCad E.D.A. 8.0.8

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Sheet: /UI_HALL_PREAMP/INVERT_AND_OFFSET1/
File: INVERT_AND_OFFSET.kicad_sch

Title:

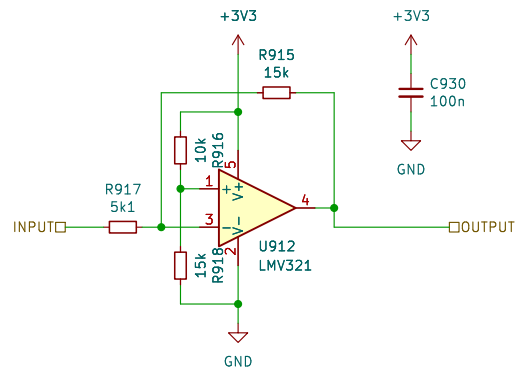
Size: A4

Date:

Rev:

KiCad E.D.A. 8.0.8

Id: 14/22



Sheet: /UI_HALL_PREAMP/INVERT_AND_OFFSET2/
File: INVERT_AND_OFFSET.kicad_sch

Title:

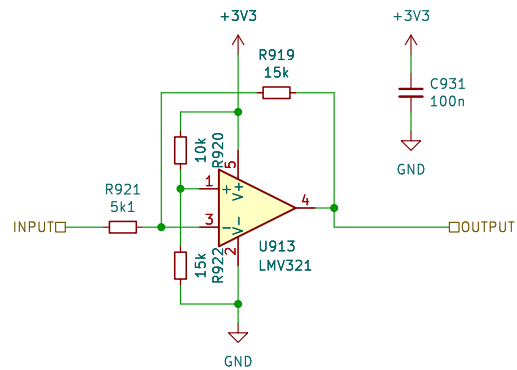
Size: A4

Date:

Rev:

KiCad E.D.A. 8.0.8

Id: 15/22



Sheet: /UI_HALL_PREAMP/INVERT_AND_OFFSET3/
File: INVERT_AND_OFFSET.kicad_sch

Title:

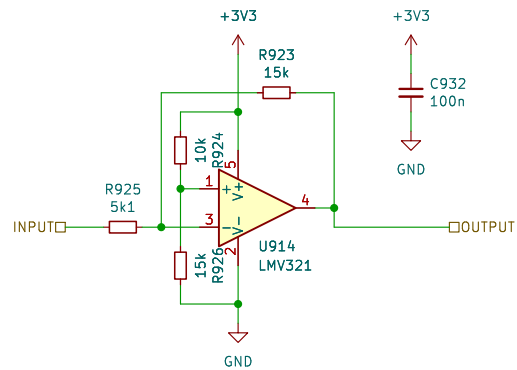
Size: A4

Date:

Rev:

KiCad E.D.A. 8.0.8

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Sheet: /UI_HALL_PREAMP/INVERT_AND_OFFSET4/
File: INVERT_AND_OFFSET.kicad_sch

Title:

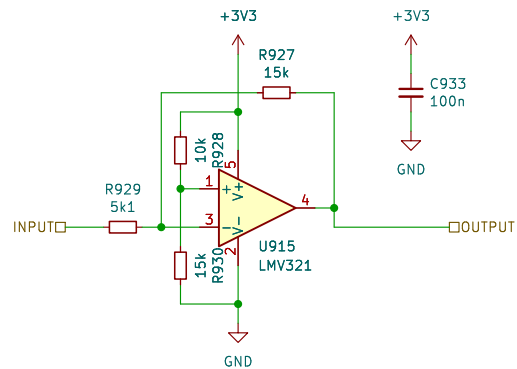
Size: A4

Date:

Rev:

KiCad E.D.A. 8.0.8

Id: 17/22



Sheet: /UI_HALL_PREAMP/INVERT_AND_OFFSET5/
File: INVERT_AND_OFFSET.kicad_sch

Title:

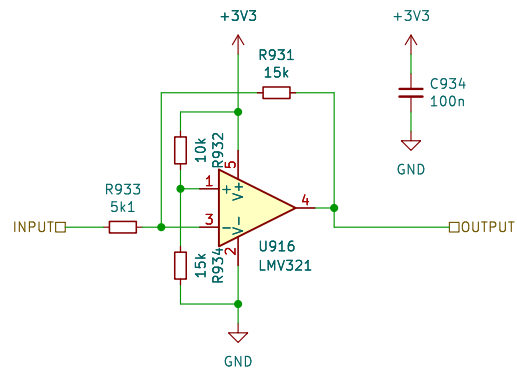
Size: A4

Date:

Rev:

KiCad E.D.A. 8.0.8

Id: 18/22



Sheet: /UI_HALL_PREAMP/INVERT_AND_OFFSET6/
File: INVERT_AND_OFFSET.kicad_sch

Title:

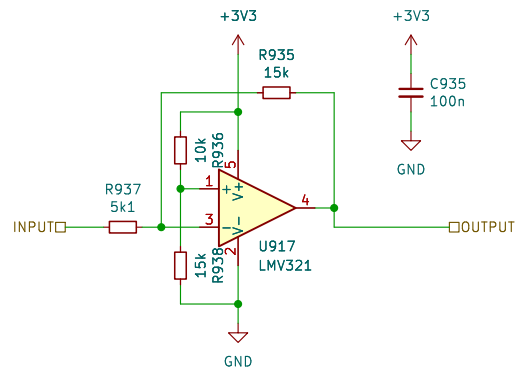
Size: A4

Date:

Rev:

KiCad E.D.A. 8.0.8

Id: 19/22



Sheet: /UI_HALL_PREAMP/INVERT_AND_OFFSET7/
File: INVERT_AND_OFFSET.kicad_sch

Title:

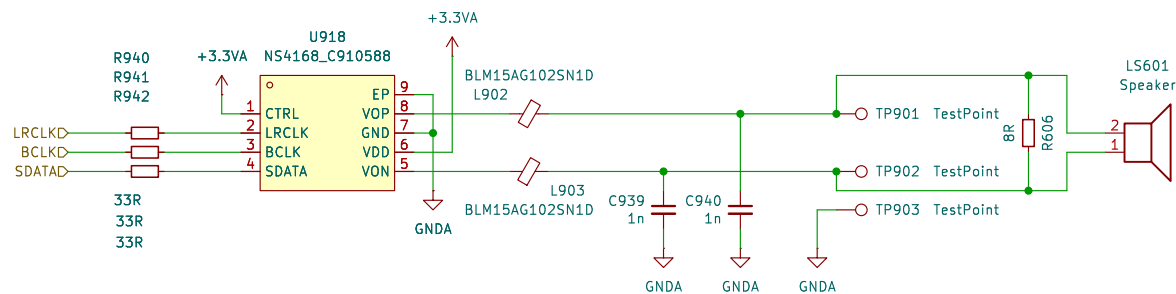
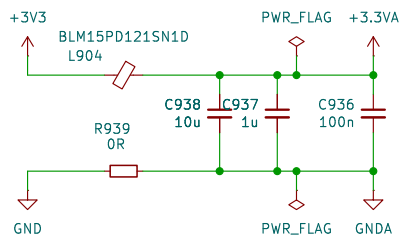
Size: A4

Date:

Rev:

KiCad E.D.A. 8.0.8

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Sheet: /AUDIO/
File: AUDIO.kicad_sch

Title:

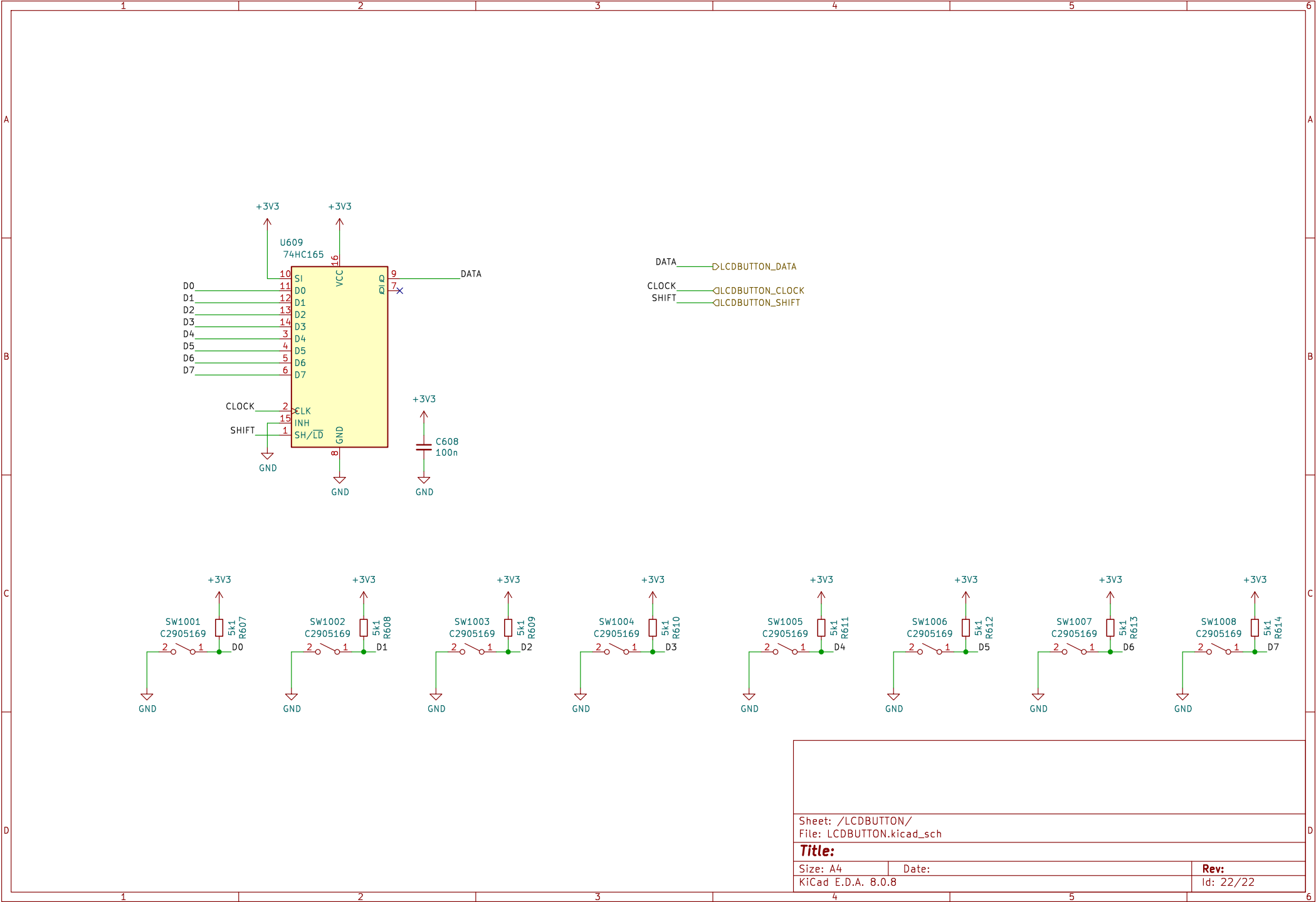
Size: A4

Date:

KiCad E.D.A. 8.0.8

Rev:

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Sheet: /LCDBUTTON/ File: LCDBUTTON.kicad_sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. 8.0.8	Id: 22/22	