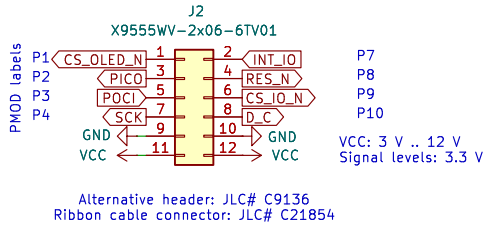
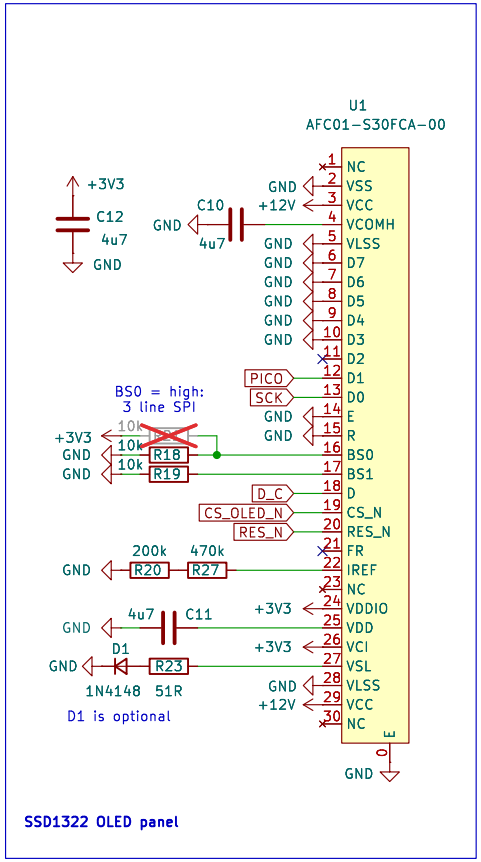


Alternative header: JLC# C9136
Ribbon cable connector: JLC# C21854

PICO = peripheral in controller out,

POCI = peripheral out controller in,

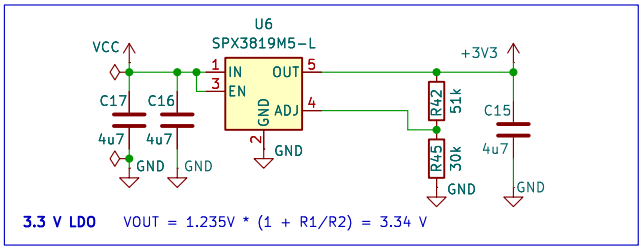
Caveat:
* when using a direct connection to a PMOD host like CMODA7 for testing, the 2 connector columns are swapped
* Use IDC ribbon cable to get a 1:1 connection to a PMOD host without swapped rows.

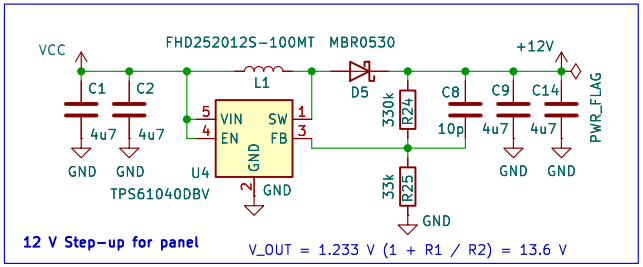


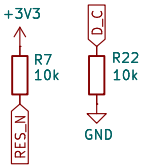
SSD1322 OLED panel

Switches and LEDs

File: switches.kicad_sch







H1 D2.7 H2 D2.7 H3 D2.7 H4 D2.7
H5 D2.7 H6 D2.7 H7 D2.7 H8 D2.7

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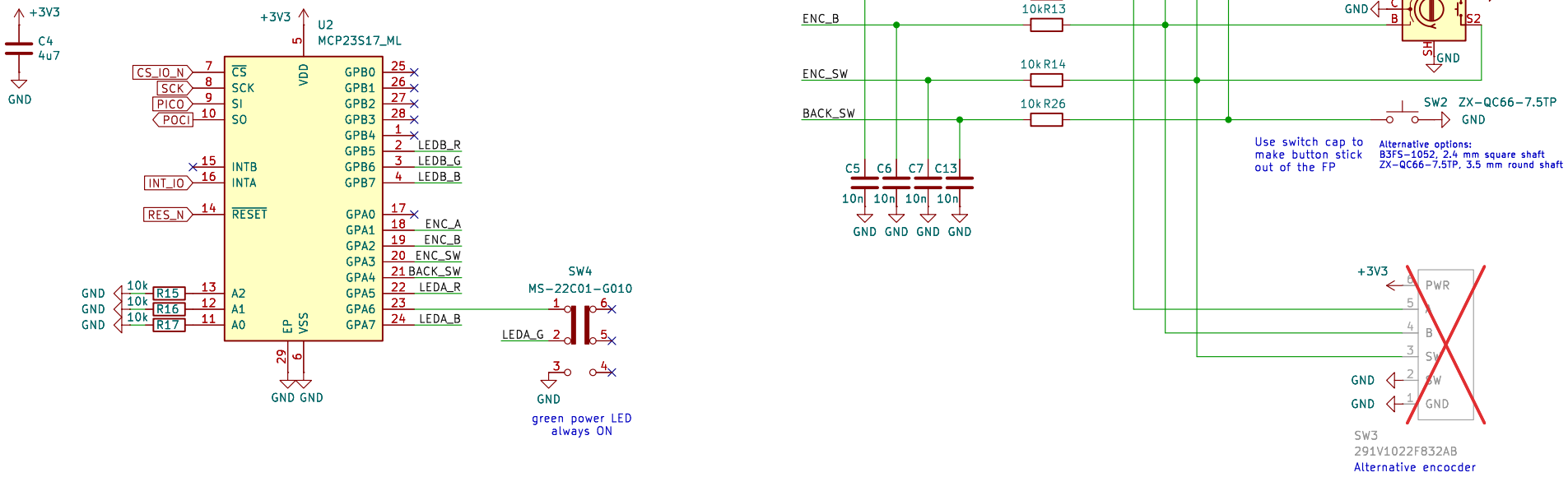
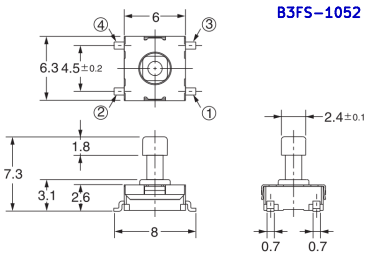
Sheet: /
File: ui_board_1u.kicad_sch

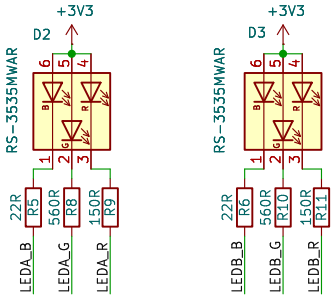
Title: ui_board_1u – User interface board

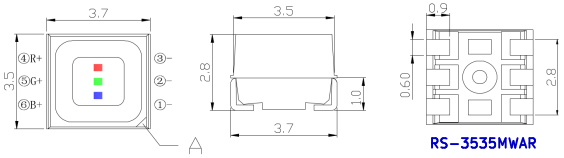
Size: A4	Date: 2025-12-07	**Rev: –**
KiCad E.D.A. 9.0.0-rc3-dirty		Id: 1/2





RS-3535MWAR	R	G	B
Lum @ 20 mA [mcd]	950	2200	500
Lum target [mcd]	400	400	400
I target [mA]	8.0	1.8	13.0
V_FWD [V]	2.0	2.3	3.0
R [Ohm]	162.5	555.6	25.4
R chosen [Ohm]	150	560	22





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Sheet: /Switches and LEDs/
File: switches.kicad_sch

Title: ui_board_1u – User interface board

Size: A4	Date: 2025-12-07	**Rev: –**
KiCad E.D.A. 9.0.0-rc3-dirty		Id: 2/2