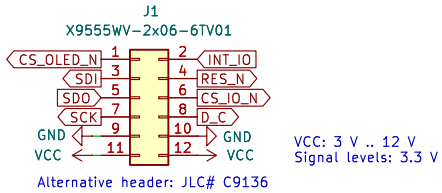
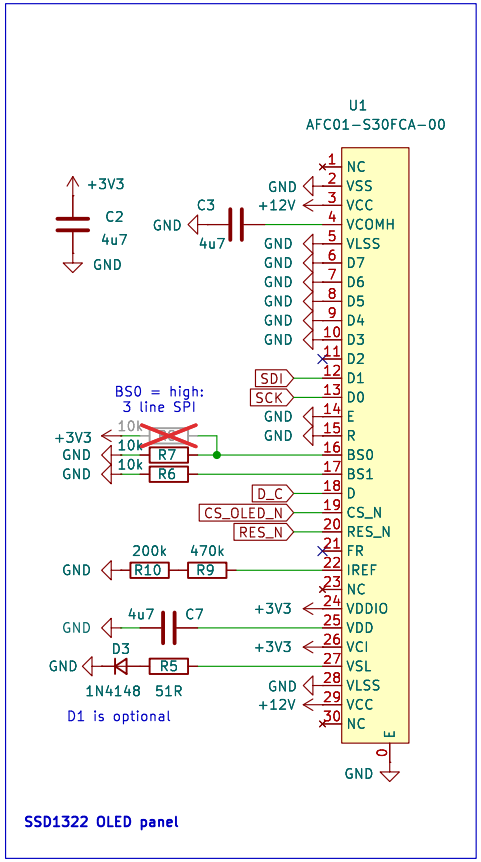


Use IDC ribbon-cable to get a
1:1 connection to a PMOD2A host

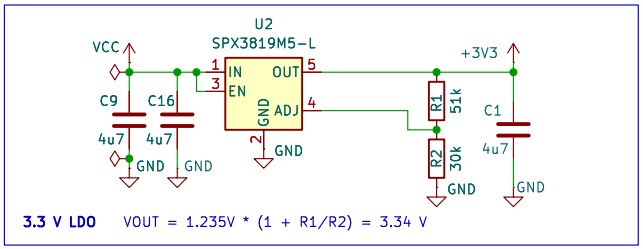
When plugging the display directly
into a PMOD port, be aware the the
columns (even and odd pin numbers)
will be swapped compared to the PMOD
standard

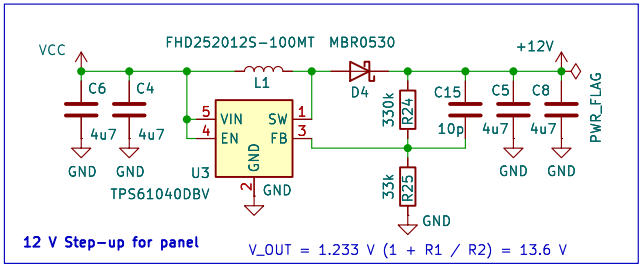
For a matching cable, search for:
FC-FD DC4 IDC 2.54mm pitch Male
to Female connector

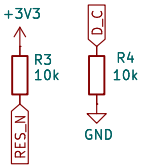


Switches and LEDs

File: switches.kicad_sch







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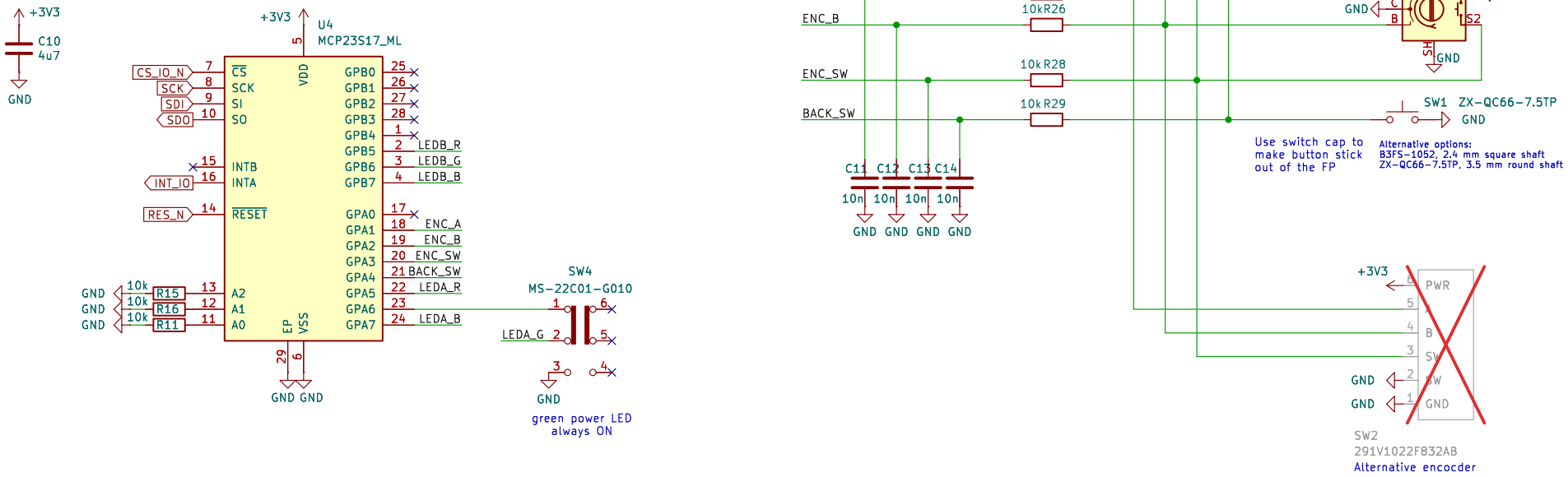
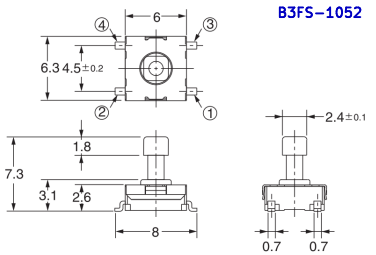
Sheet: /
File: ui_board_1u.kicad_sch

Title: ui_board_1u – User interface board

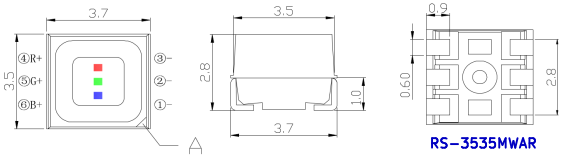
Size: A4	Date: 2025-12-17	**Rev: –**
KiCad E.D.A. 9.0.6		Id: 1/2

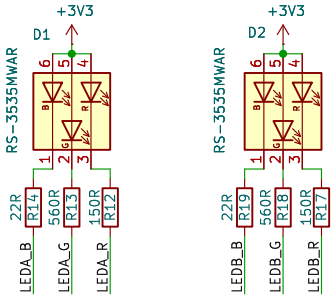
H16 D2.7 H17 D2.7 H21 D2.7 H22 D2.7
H1 D2.7 H12 D2.7 H32 D2.7 H40 D2.7





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: 2025-12-17	**Rev: –**
KiCad E.D.A. 9.0.6		Id: 2/2