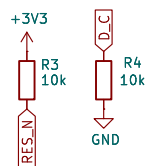
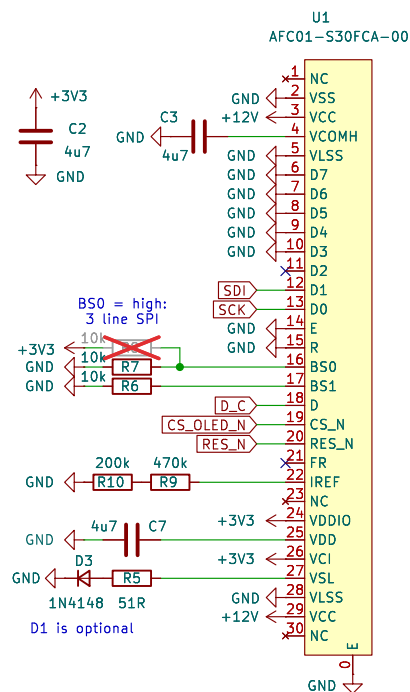


Use IDC ribbon-cable to get a 1:1 connection to a PMOD2A host

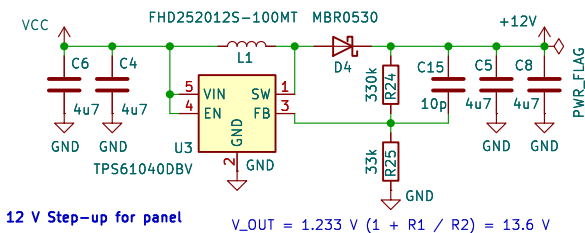
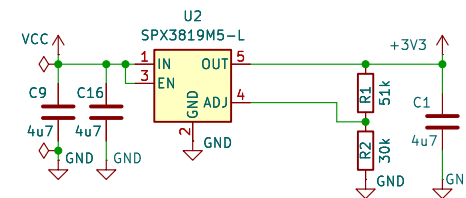
When plugging the display directly into a PMOD port, be aware the columns (even and odd pin numbers) will be swapped compared to the PMOD standard

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



Switches and LEDs

File: switches.kicad_sch



Betz Engineering

Sheet: /

File: ui_board_1u.kicad_sch

Title: ui_board_1u - User interface board

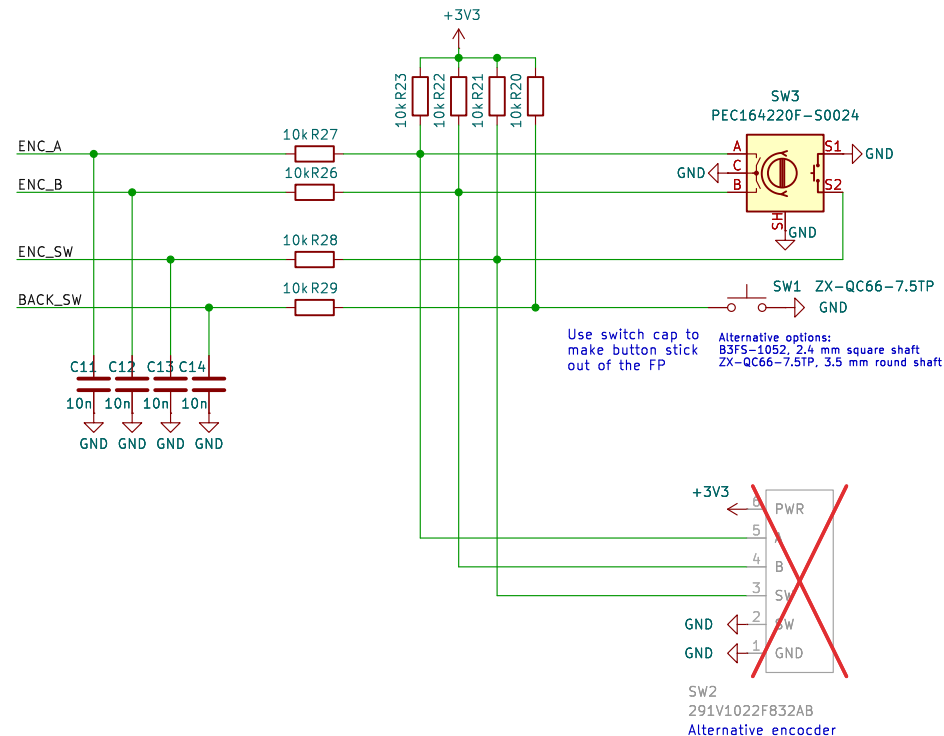
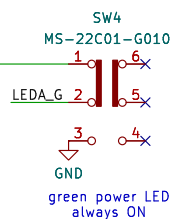
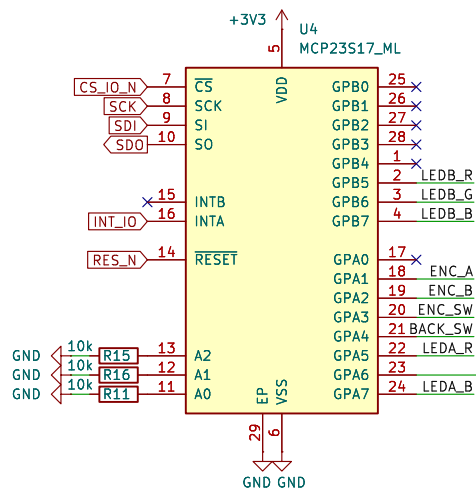
Size: A4 Date: 2025-12-07

KiCad E.D.A. 9.0.0-rc3-dirty

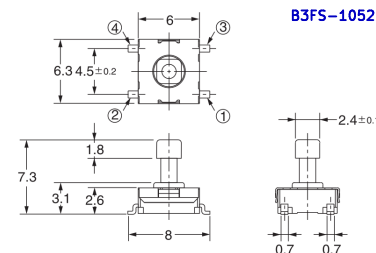
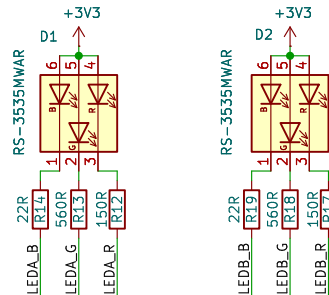
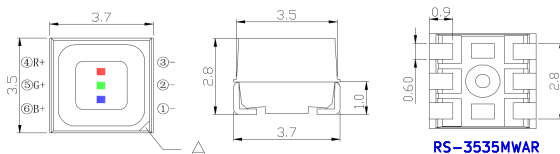
H16 D2.7	H17 D2.7	H21 D2.7	H22 D2.7
H1 D2.7	H12 D2.7	H32 D2.7	H40 D2.7

Rev: -

Id: 1/2



RS-3535MMWAR	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



Betz Engineering

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

Title: ui_board_1u - User interface board

Size: A4 Date: 2025-12-07

KiCad E.D.A. 9.0.0-rc3-dirty

Rev: -

Id: 2/2