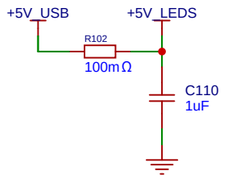
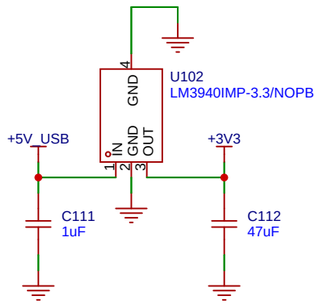
Clock (Page 1/2)

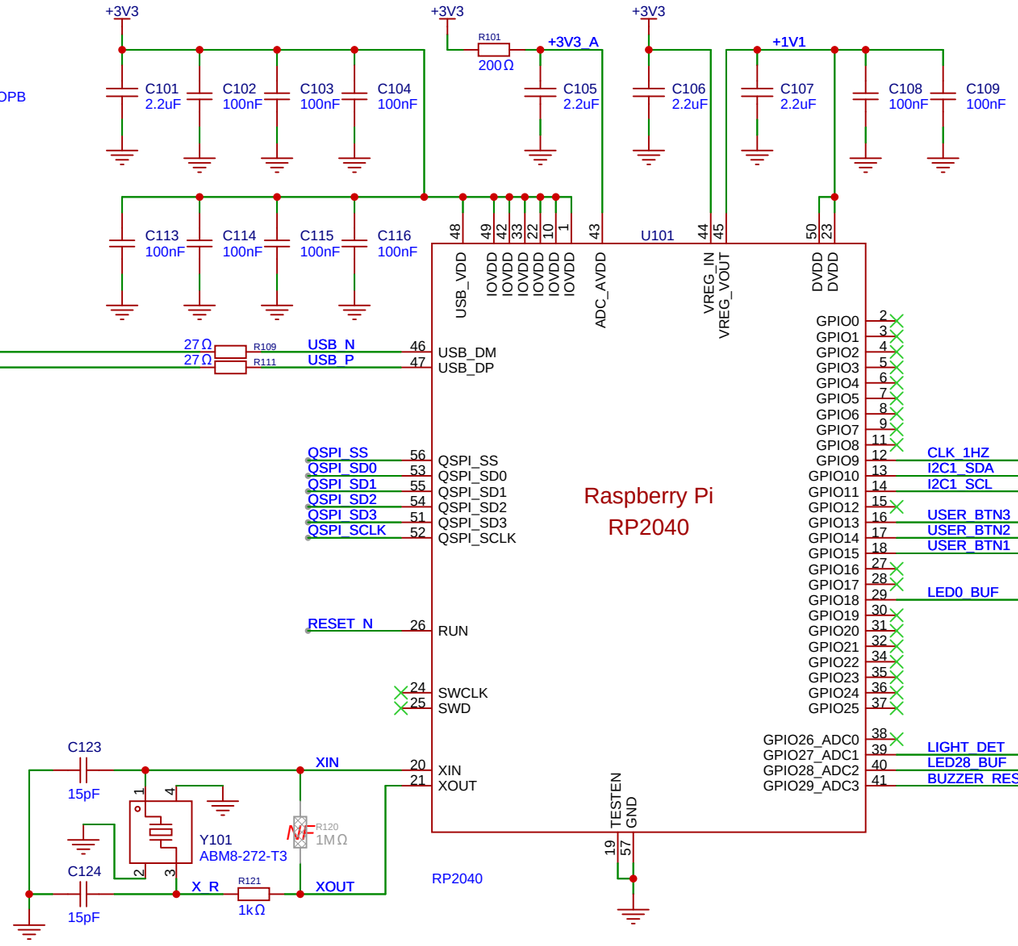
Power for LEDs



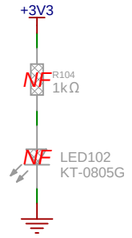
5V to 3V3



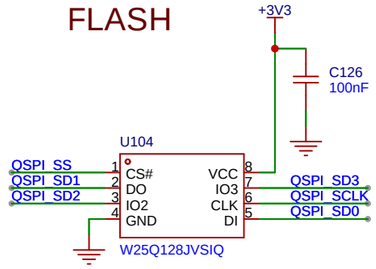
MCU



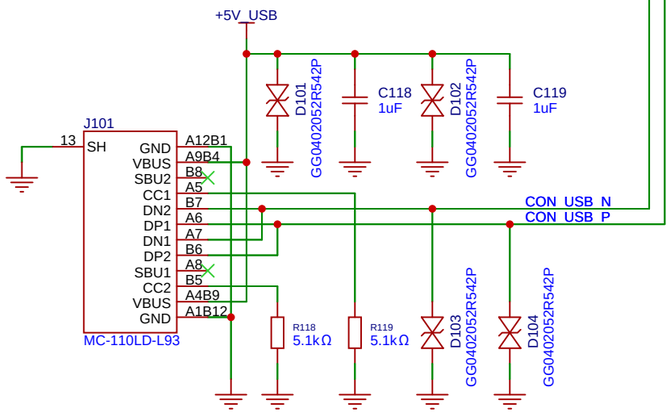
Power LED



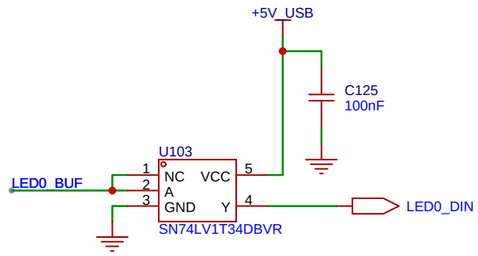
FLASH

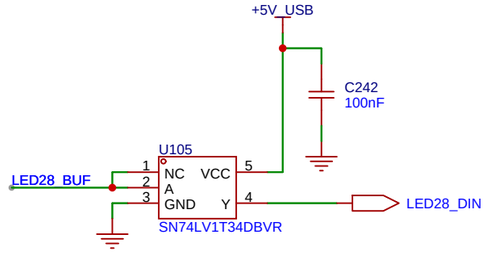


USB Connector

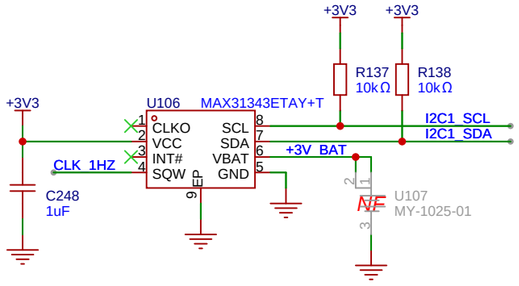


Level Translators

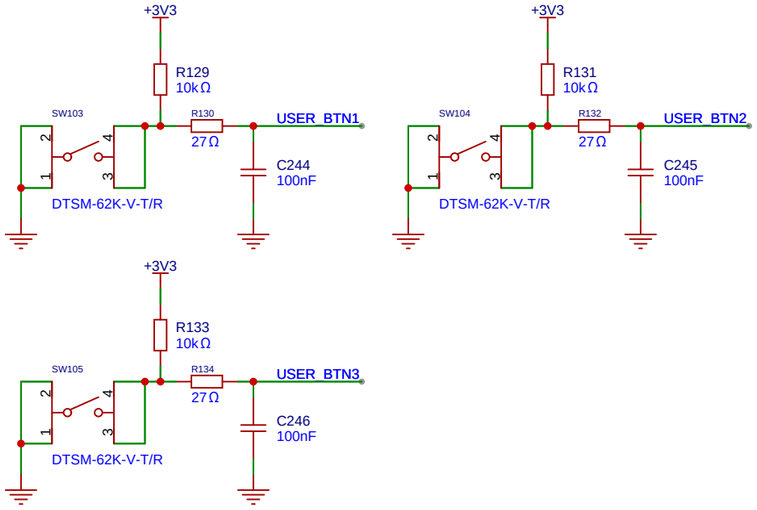




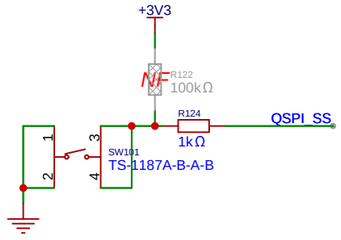
RTC Clock



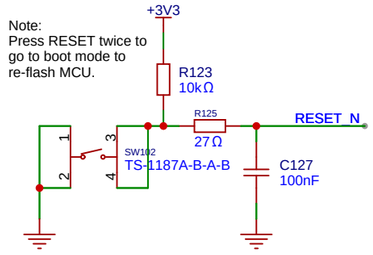
User Buttons



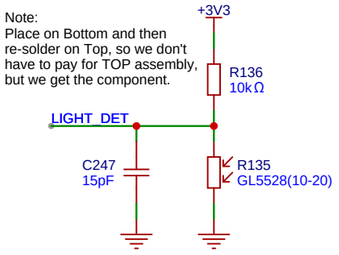
BOOT Select Button



Reset Button



Light Sensor

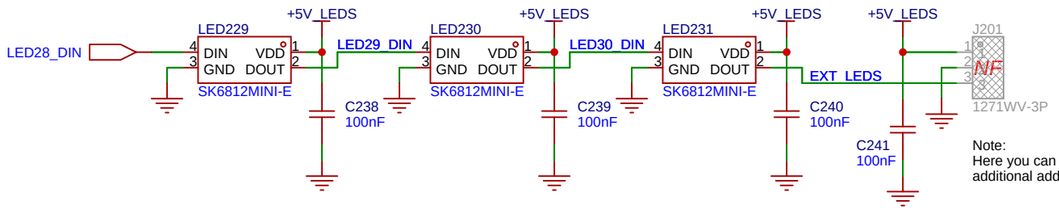


Schematic	Clock	Update Date	2025-06-18
		Create Date	2025-06-09
Page	MCU	Part Number	
Drawn	Robert Feranec	Clock	
Reviewed			
		VER	V1I1
		SIZE	A3
		PAGE	1 OF 2
EasyEDA		(C) FEDEVEL 2025	

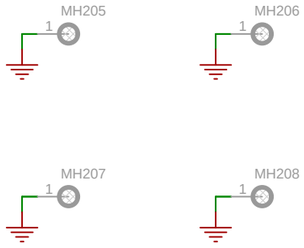
Clock (Page 2/2)

SEGMENT LEDs

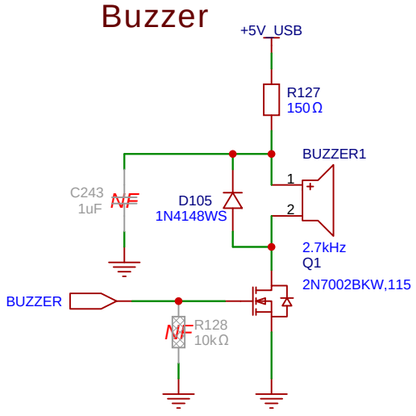
DOTs + EXTERNAL LEDs



Mounting holes



Buzzer



IMPORTANT LINKS AND NOTES
Links to design and build this clock:
- Schematic and PCB: https://oshwlab.com/robertferanec/custom-keyboard
- Github with all the files (SW + Board + Box): https://github.com/FEDEVEL/clock

To build this clock:
- Make the PCB and fit the components:
https://github.com/FEDEVEL/clock/tree/main/Hardware/Manufacturing/PCB%20and%20Assembly
- 3D print front panel and stand:
https://github.com/FEDEVEL/clock/tree/main/Hardware/Manufacturing/Simple%20Box%20and%20Stand

You will need to buy also:
- Dimmable Adhesive Film Diffuser
https://www.amazon.de/dp/B0DCW4CR3M/ref=pe_27091401_487027711_TE_SCE_dp_i1
- M3x6 self tapping screws
- CR1025 Lithium Button Cell Battery, 3 V, 30 mAh
- Right angle USB-C cable

Schematic	Clock	Update Date	2025-06-20
		Create Date	2025-06-09
Page	OTHER	Part Number	
Drawn	Robert Feranec	Clock	
Reviewed			
		VER	SIZE / PAGE 2 OF 2
EasyEDA		V1I1	A3 / (C) FEDEVEL 2025