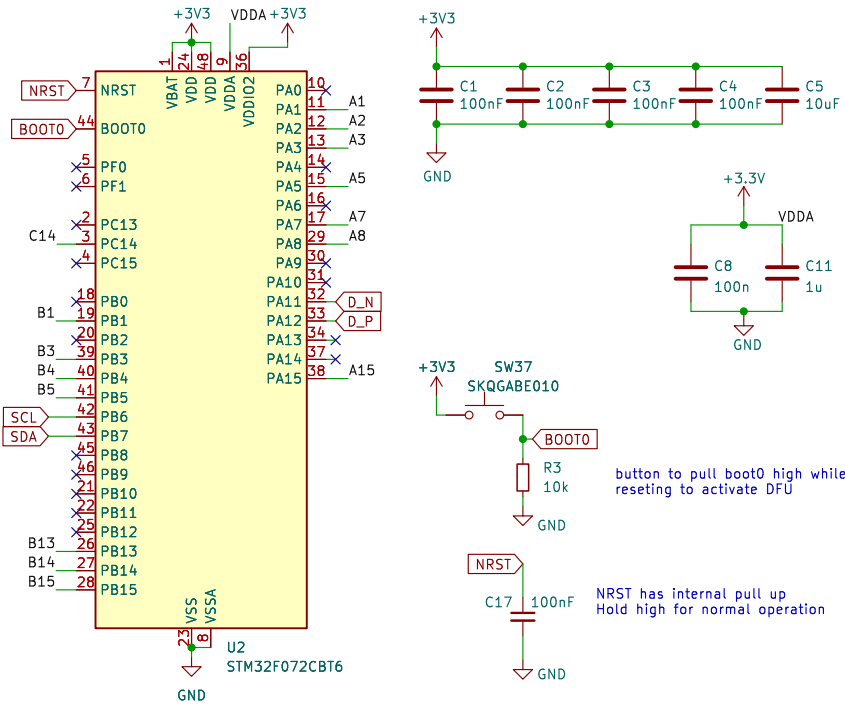
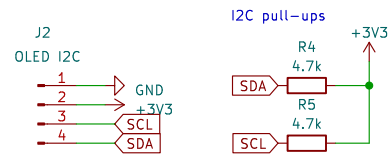


MCU



OLED display

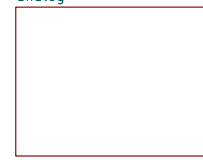


key matrix



File: key_matrix.kicad_sch

analog



File: analog.kicad_sch

rgb



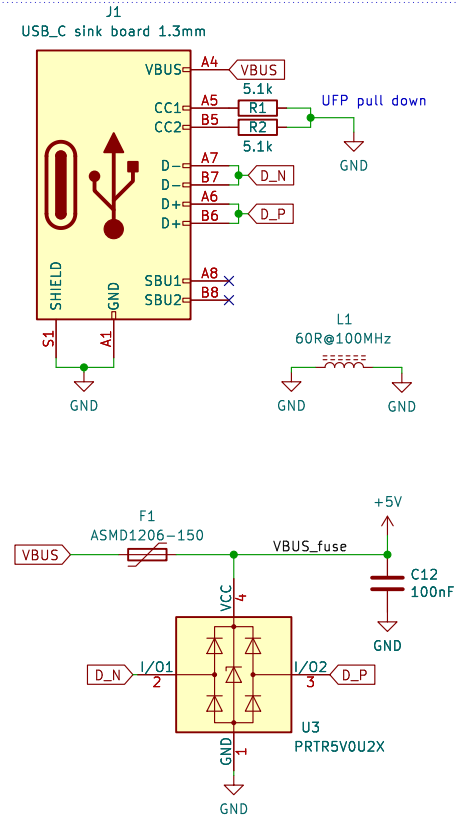
File: rgb.kicad_sch

mounting_holes



File: mounting_holes.kicad_sch

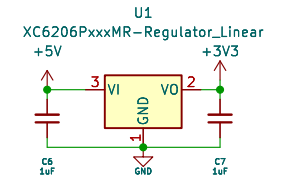
USB-C and ESD



usb signal impedance ref:
4 layer PCB, stack up: JLC04161H-7628
coplanar differential pair
signal spacing: 0.2mm/0.15mm
signal to ground spacing: 0.2mm/0.15mm
signal trace width: 0.2644mm/0.2096mm

<https://jlcpcb.com/pcb-impedance-calculator/>

3.3V LDO



COL0	MUX_CH0
COL1	MUX_CH1
COL2	MUX_CH2
COL3	MUX_CH3
COL4	MUX_CH4
COL5	MUX_CH10
COL6	MUX_CH12
COL7	MUX_CH14
COL8	MUX_CH15
COL9	MUX_CH13

ROW0	A3
ROW1	A5
ROW2	A7
ROW3	B1

AMUX_SEL_0	B15
AMUX_SEL_1	B14
AMUX_SEL_2	B13

APLEX_EN0	A8
APLEX_EN1	C14

ADC	A2
APLEX_OUT	A1

RGB	A15
KNOB_SW	B3
EncA	B4
EncB	B5

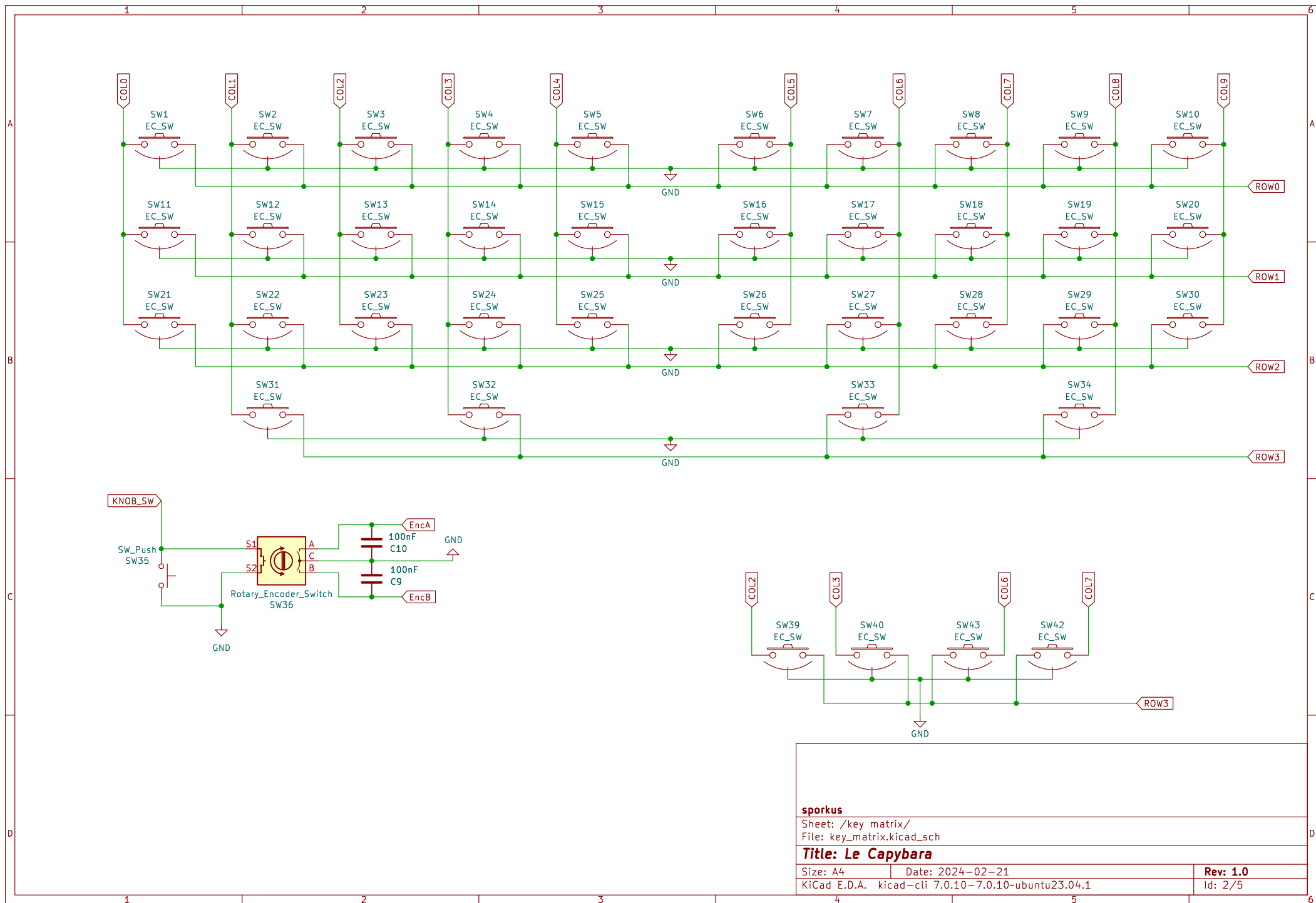
Mounting holes clean up
sporkus

Sheet: /
File: le_capybara.kicad_sch

Title: Le Capybara

Size: A4 Date: 2024-02-21
KiCad E.D.A. kicad-cli 7.0.10-7.0.10-ubuntu23.04.1

Rev: 1.0
Id: 1/5



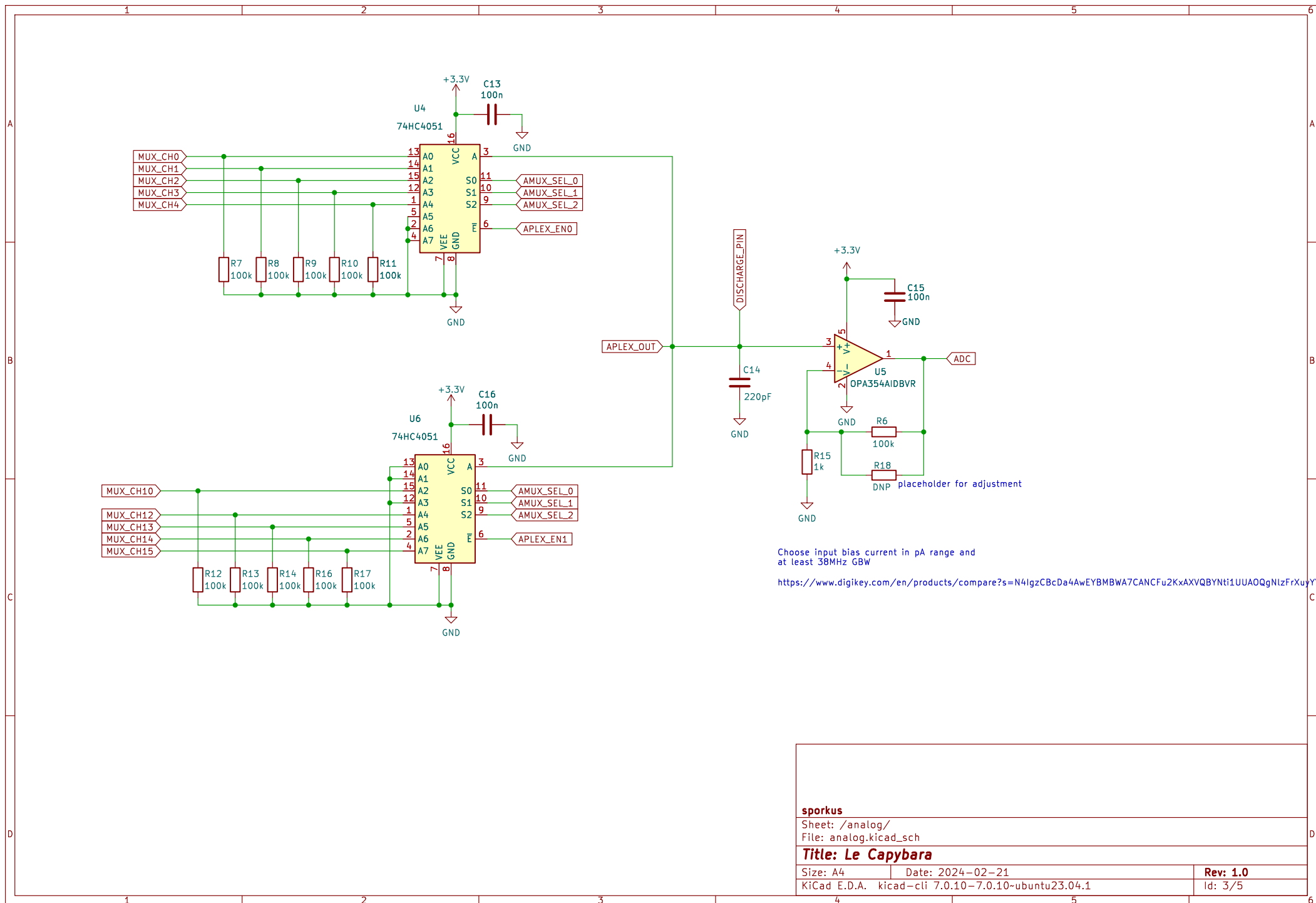
sporkus

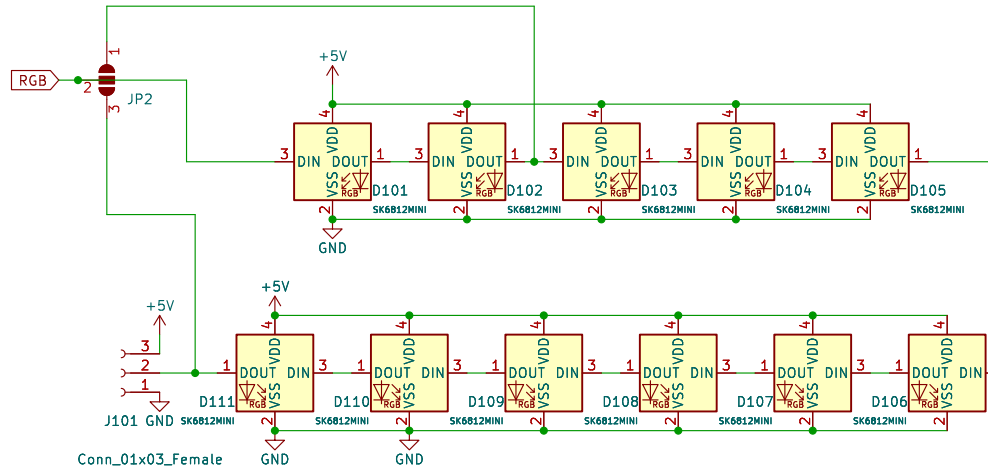
Sheet: /key matrix/
File: key_matrix.kicad_sch

Title: Le Capybara

Size: A4 Date: 2024-02-21
KiCad E.D.A. kicad-cli 7.0.10-7.0.10-ubuntu23.04.1

Rev: 1.0
Id: 2/5





sporkus

Sheet: /rgb/
File: rgb.kicad_sch

Title: Le Capybara

Size: A4	Date: 2024-02-21
KiCad E.D.A. kicad-cli 7.0.10-7.0.10-ubuntu23.04.1	

Rev: 1.0
Id: 4/5

