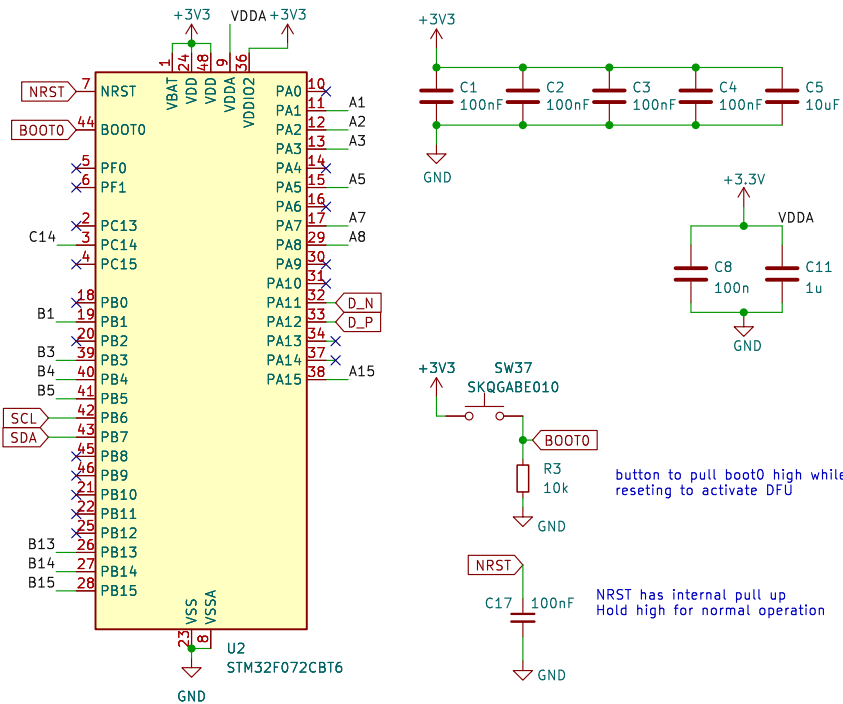
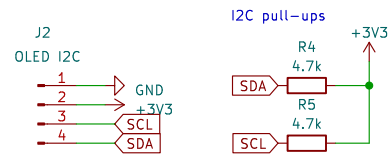


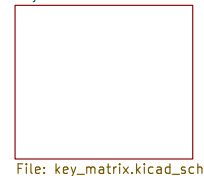
MCU



OLED display

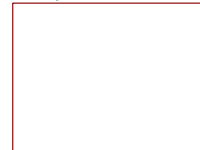


key matrix



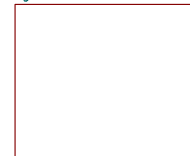
File: key_matrix.kicad_sch

analog



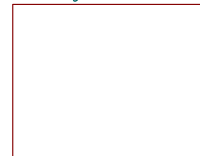
File: analog.kicad_sch

rgb



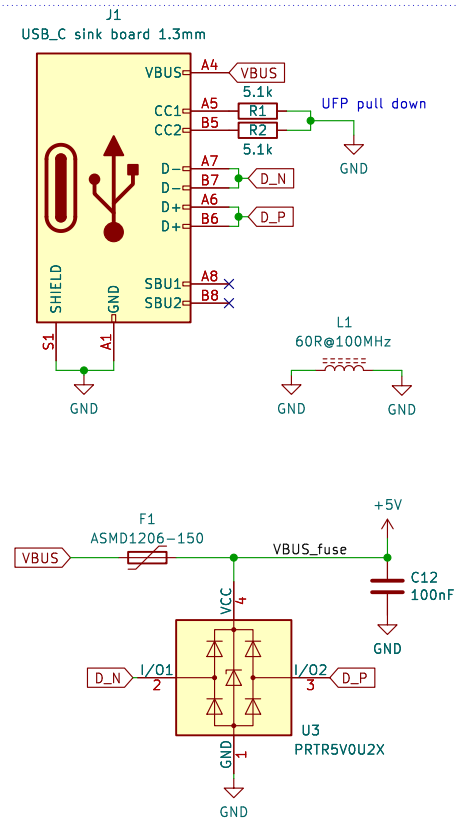
File: rgb.kicad_sch

mounting_holes



File: mounting_holes.kicad_sch

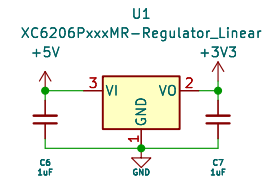
USB-C and ESD



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 |

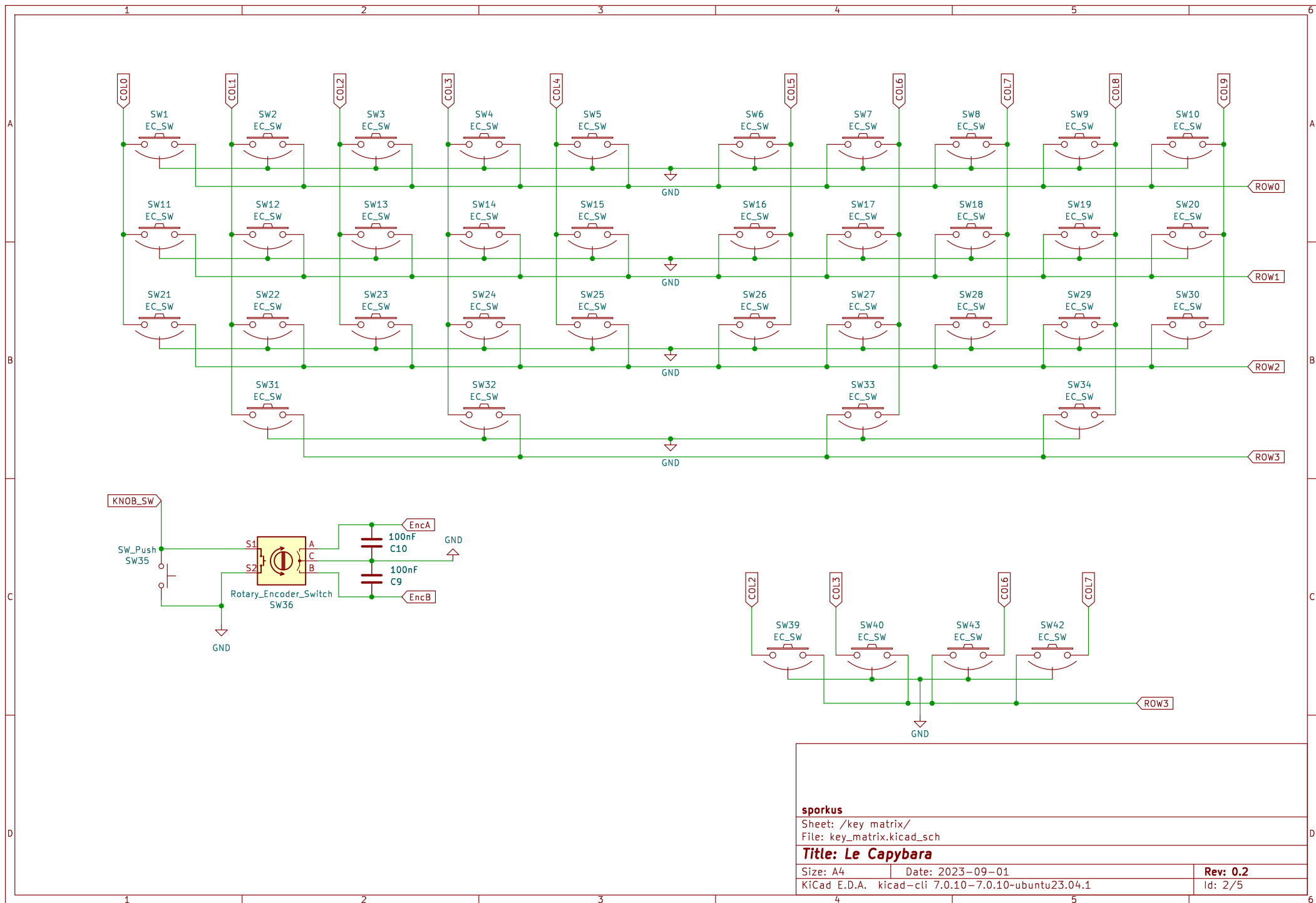
Fixes analog, RGB schematic
sporkus

Sheet: /
File: le_capybara.kicad_sch

Title: Le Capybara

Size: A4 Date: 2023-09-01
KiCad E.D.A. kicad-cli 7.0.10-7.0.10-ubuntu23.04.1

Rev: 0.2
Id: 1/5



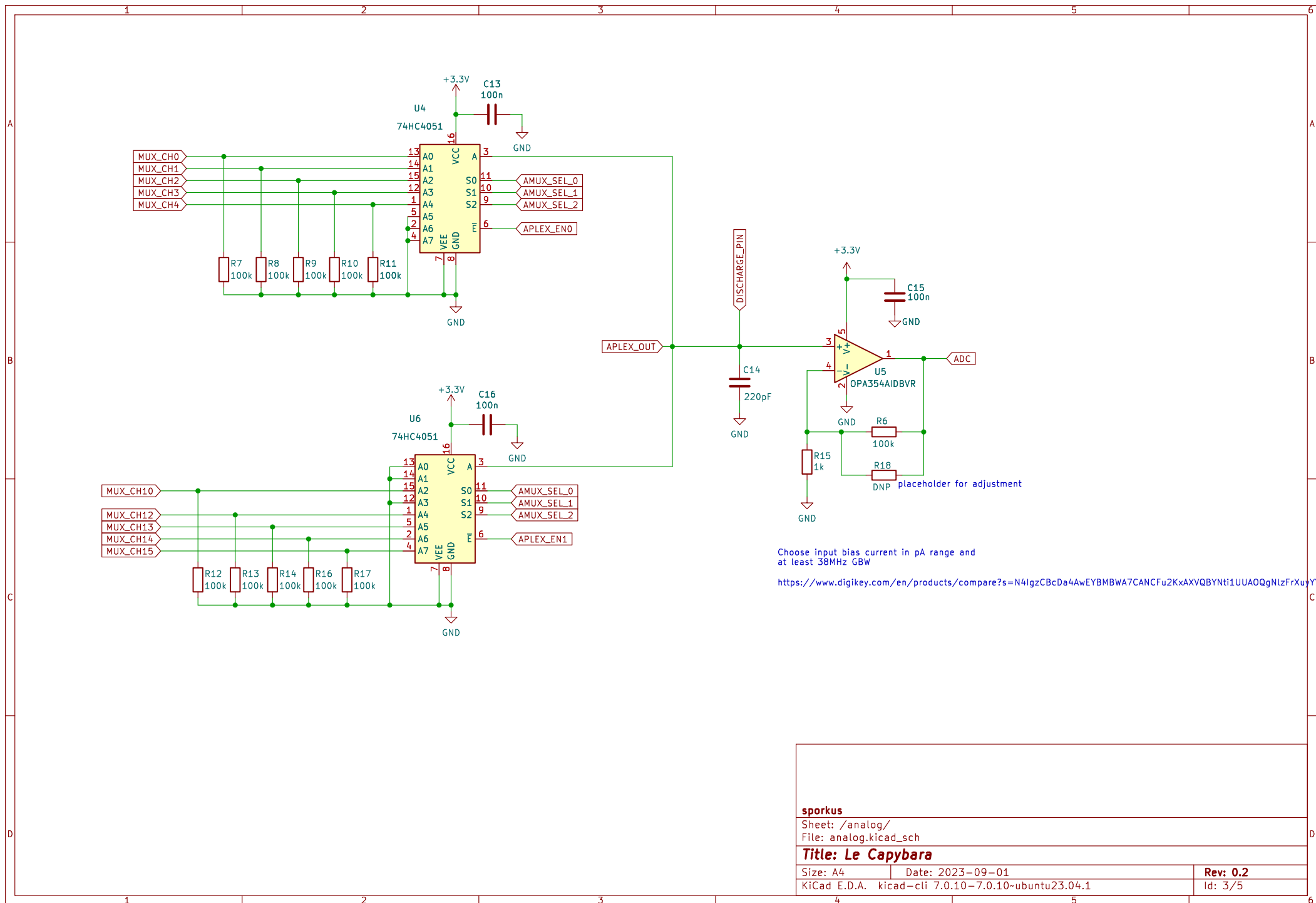
sporkus

Sheet: /key matrix/
File: key_matrix.kicad_sch

Title: Le Capybara

Size: A4 Date: 2023-09-01
KiCad E.D.A. kicad-cli 7.0.10-7.0.10-ubuntu23.04.1

Rev: 0.2
Id: 2/5



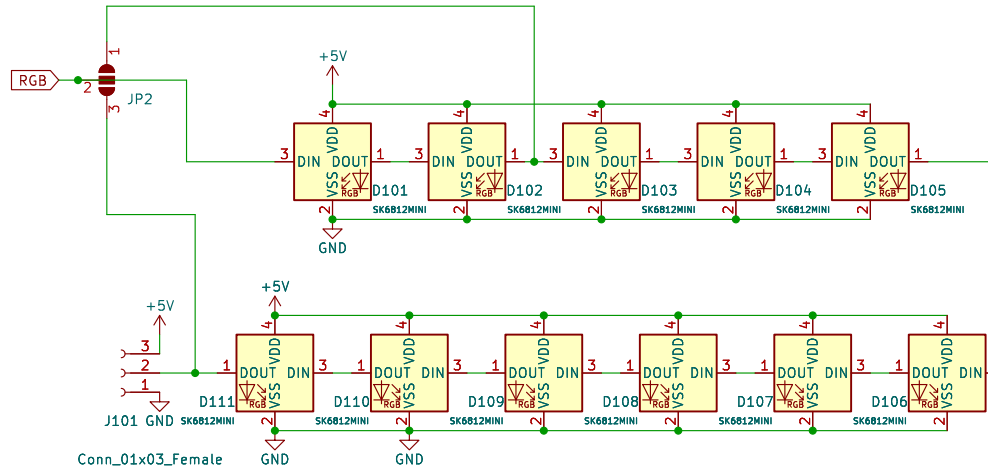
sporkus

Sheet: /analog/
File: analog.kicad_sch

Title: Le Capybara

Size: A4 Date: 2023-09-01
KiCad E.D.A. kicad-cli 7.0.10-ubuntu23.04.1

Rev: 0.2
Id: 3/5



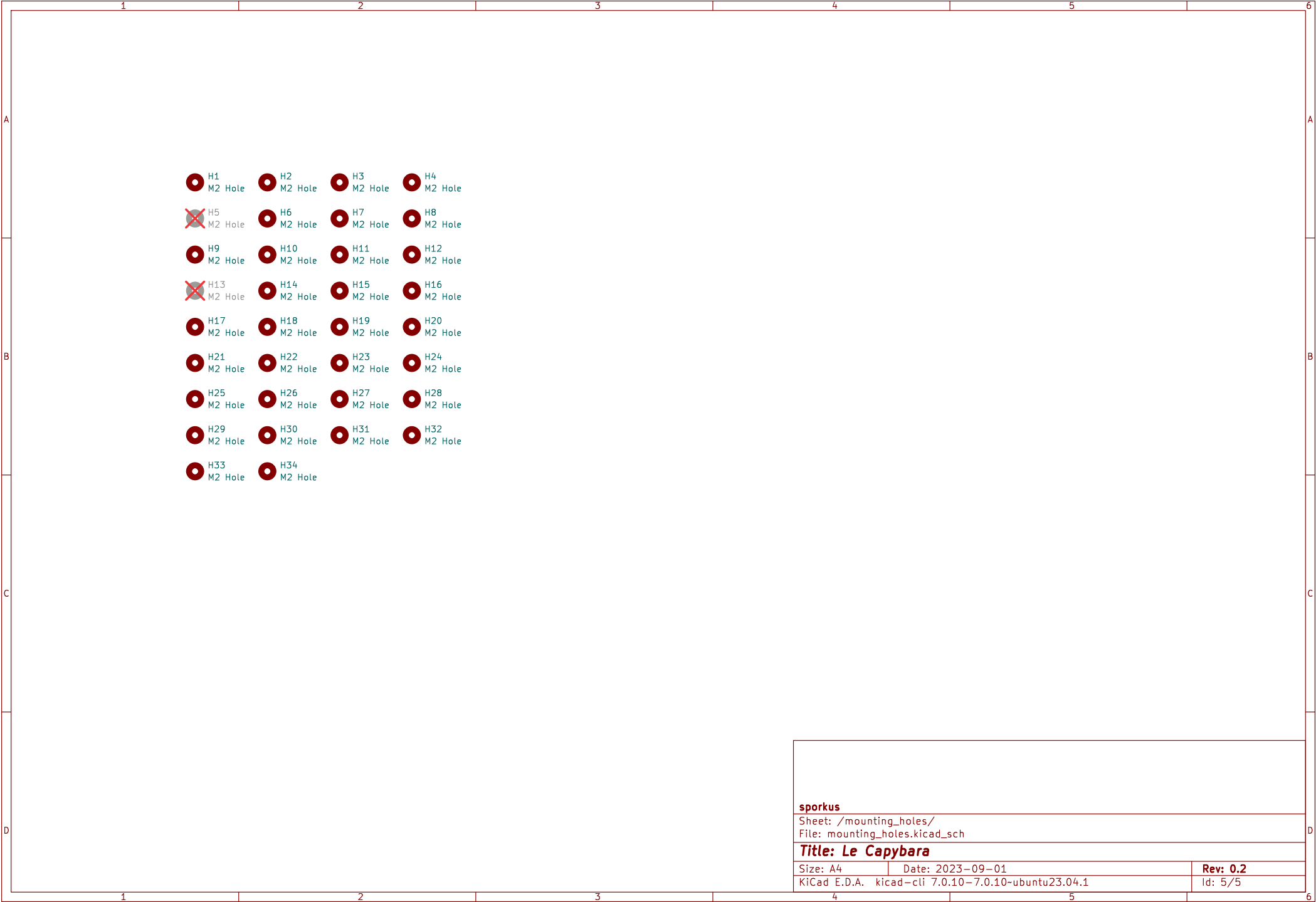
sporkus

Sheet: /rgb/
File: rgb.kicad_sch

Title: Le Capybara

Size: A4 Date: 2023-09-01
KiCad E.D.A. kicad-cli 7.0.10-7.0.10-ubuntu23.04.1

Rev: 0.2
Id: 4/5



sporkus

Sheet: /mounting_holes/
File: mounting_holes.kicad_sch

Title: Le Capybara

| | | |
|--|------------------|----------|
| Size: A4 | Date: 2023-09-01 | Rev: 0.2 |
| KiCad E.D.A. kicad-cli 7.0.10-7.0.10-ubuntu23.04.1 | | Id: 5/5 |