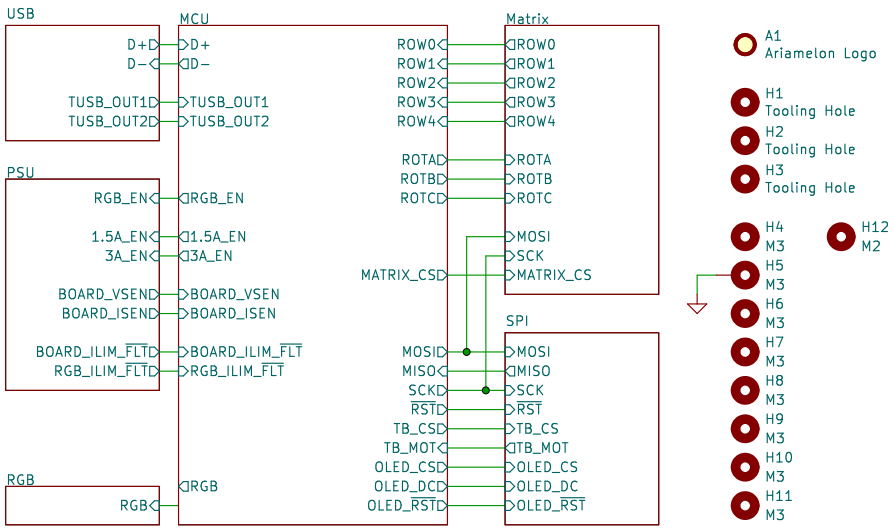



A1
Ariamelon Logo

H1
Tooling Hole

H2
Tooling Hole

H3
Tooling Hole

H4
M3

H5
M3

H6
M3

H7
M3

H8
M3

H9
M3

H10
M3

H11
M3

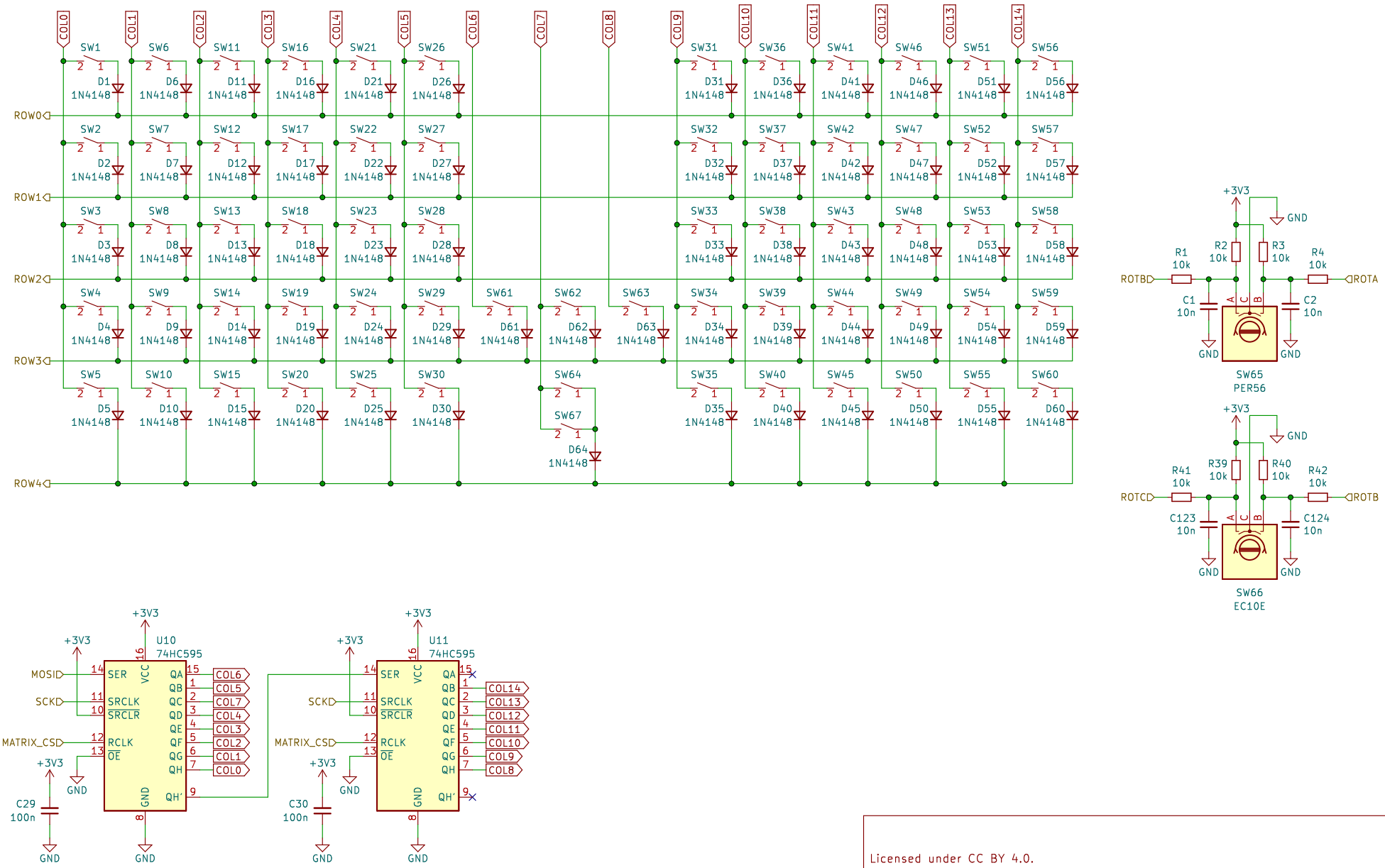
H12
M2


All capacitors 50V unless otherwise specified.
**Created by Ariamelon (https://github.com/Ariamelon/Honeydew/)**

Sheet: /
File: Honeydew.kicad_sch

***Title: Honeydew unified split ergonomic keyboard***

| Size: A4 | Date: 2023-06-27 | **Rev: V2.1** |
|---|---|---|
| KiCad E.D.A. kicad 7.0.5 | | Id: 1/7 |



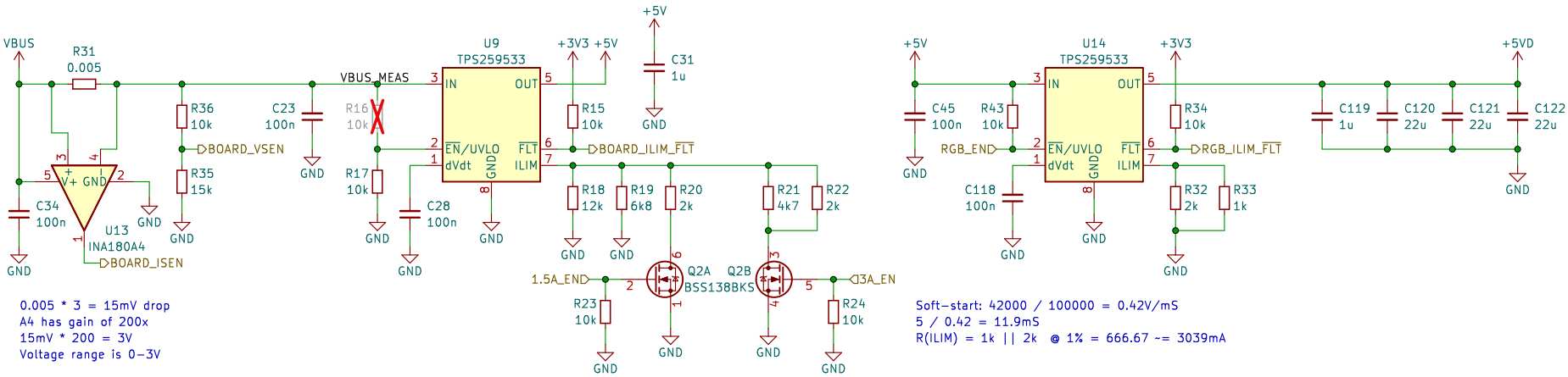


All capacitors 50V unless otherwise specified.
**Created by Ariamelon (https://github.com/Ariamelon/Honeydew/)**

Sheet: /Matrix/
File: Matrix.kicad_sch

***Title: Honeydew unified split ergonomic keyboard***

| | | |
|---|---|---|
| Size: A4 | Date: 2023-06-27 | **Rev: V2.1** |
| KiCad E.D.A. kicad 7.0.5 | | Id: 2/7 |




0.005 * 3 = 15mV drop
A4 has gain of 200x
15mV * 200 = 3V
Voltage range is 0–3V

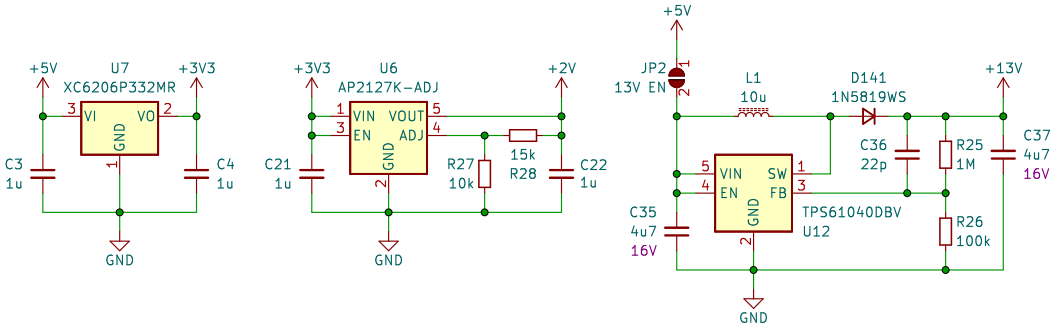
VBUS max is 5.5V
5.5 * 15 / (10 + 15) = 3.3V
Voltage range is 0–3.3V

| OUT1 | OUT2 | ADVERTISEMENT |
|---|---|---|
| H | X | Default current |
| L | H | Med current (1.5A) |
| L | L | High current (3A) |

Soft-start: 42000 / 100000 = 0.42V/mS
5 / 0.42 = 11.9mS

Default power (500mA): R(ILIM) = 12k || 6k8 = 4k34 @ 1% ~= 501mA
Med power (1500mA): R(ILIM) = 12k || 6k8 || 2k @ 1% = 1k37 ~= 1501mA
High power (3000mA): R(ILIM) = 12k || 6k8 || 2k || 4k7 || 2k @ 1% = 693 ~= 2926mA

Soft-start: 42000 / 100000 = 0.42V/mS
5 / 0.42 = 11.9mS
R(ILIM) = 1k || 2k @ 1% = 666.67 ~= 3039mA



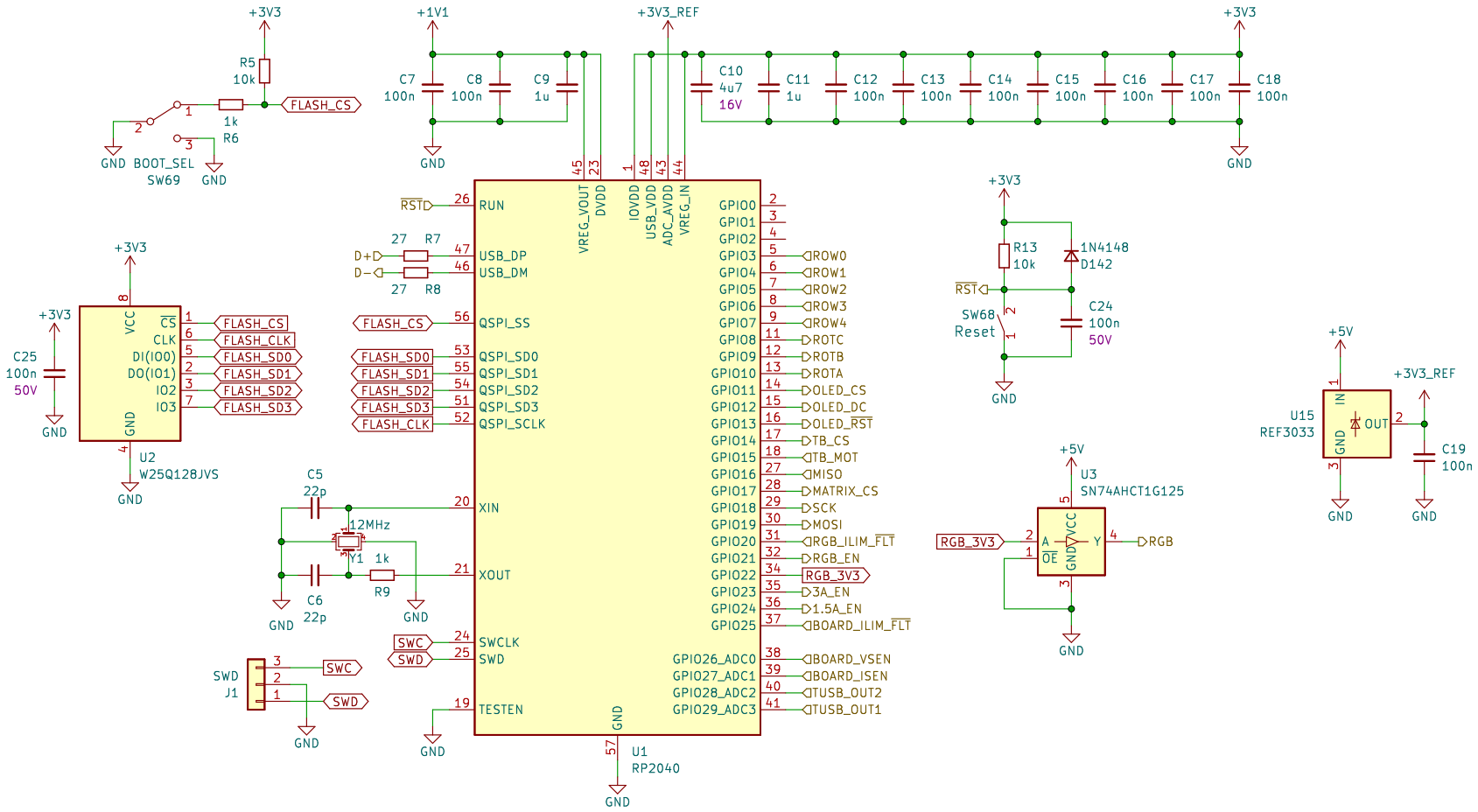


All capacitors 50V unless otherwise specified.
**Created by Ariamelon (https://github.com/Ariamelon/Honeydew/)**

Sheet: /PSU/
File: PSU.kicad_sch

***Title: Honeydew unified split ergonomic keyboard***

| Size: A4 | Date: 2023-06-27 | **Rev: V2.1** |
|---|---|---|
| KiCad E.D.A. kicad 7.0.5 | | Id: 3/7 |



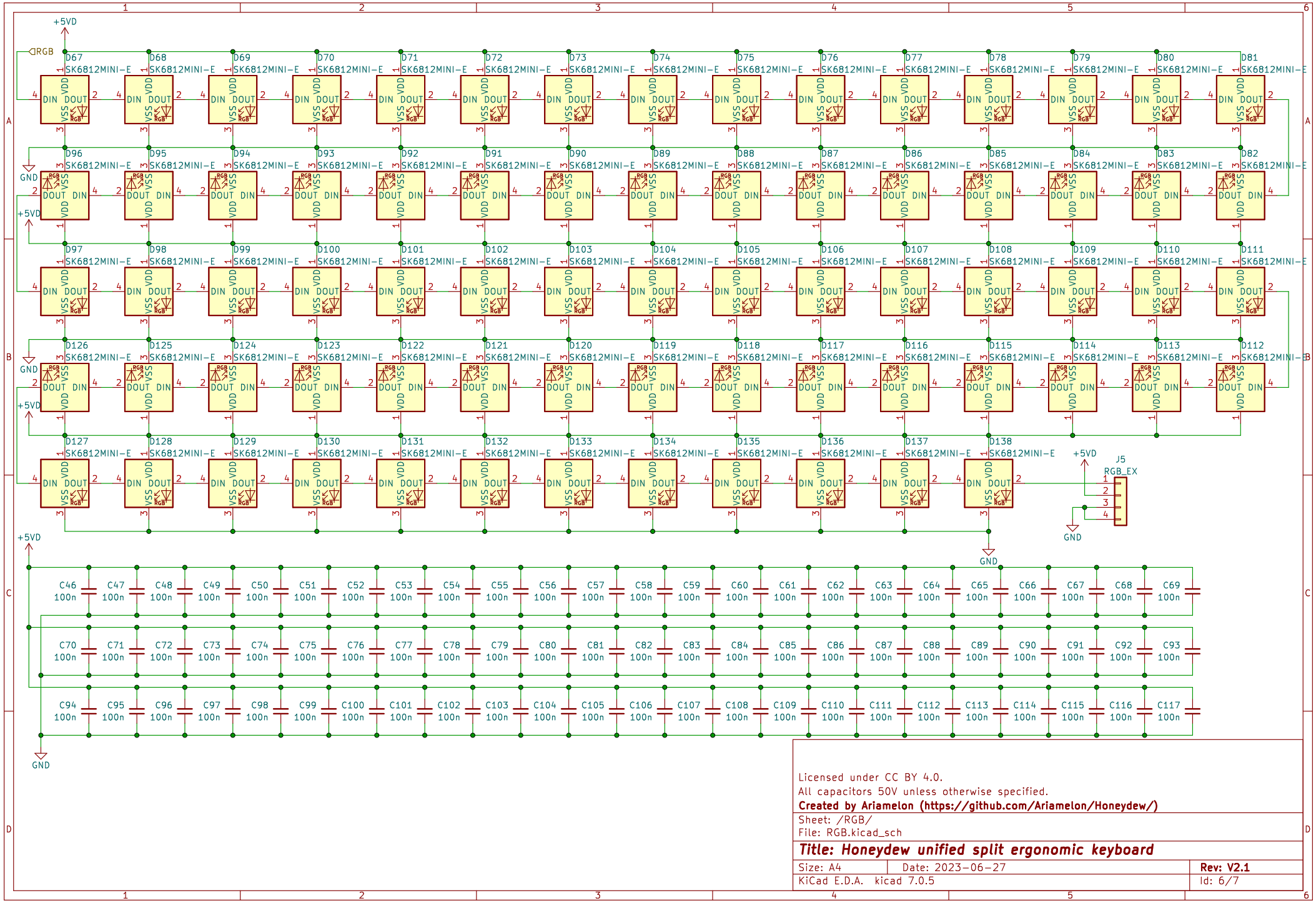


All capacitors 50V unless otherwise specified.
**Created by Ariamelon (https://github.com/Ariamelon/Honeydew/)**

Sheet: /MCU/
File: MCU.kicad_sch

***Title: Honeydew unified split ergonomic keyboard***

| Size: A4 | Date: 2023-06-27 | **Rev: V2.1** |
|---|---|---|
| KiCad E.D.A. kicad 7.0.5 | | Id: 4/7 |



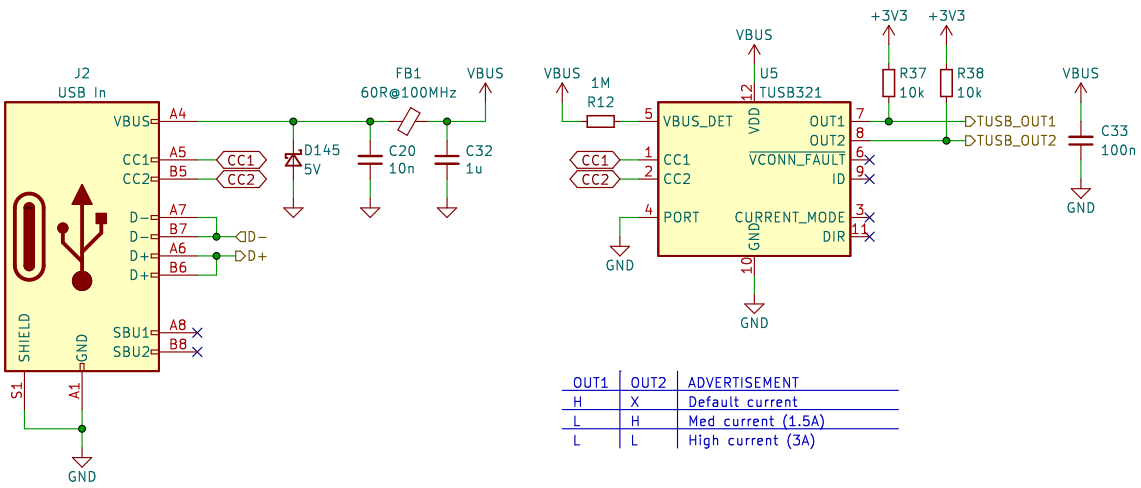


All capacitors 50V unless otherwise specified.
**Created by Ariamelon (https://github.com/Ariamelon/Honeydew/)**

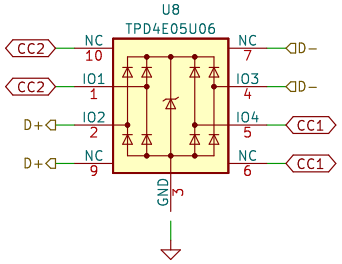
Sheet: /RGB/
File: RGB.kicad_sch

***Title: Honeydew unified split ergonomic keyboard***

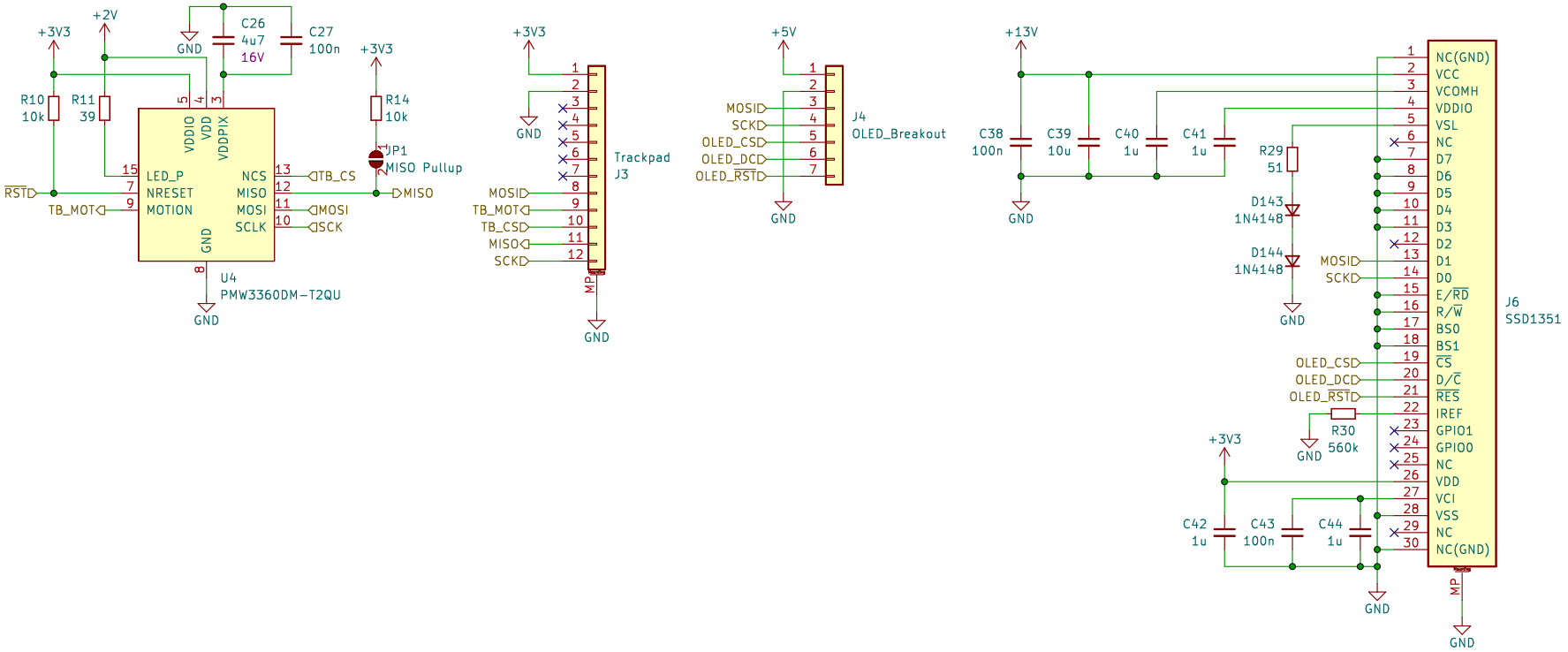
| | | |
|---|---|---|
| Size: A4 | Date: 2023-06-27 | **Rev: V2.1** |
| KiCad E.D.A. kicad 7.0.5 | | Id: 6/7 |




| OUT1 | OUT2 | ADVERTISEMENT |
|---|---|---|
| H | X | Default current |
| L | H | Med current (1.5A) |
| L | L | High current (3A) |




| | | |
|---|---|---|
| Sheet: /USB/ | | |
| File: USB.kicad_sch | | |
| **Title:** | | |
| Size: A4 | Date: 2023-06-27 | **Rev: V2.1** |
| KiCad E.D.A. kicad 7.0.5 | | Id: 7/7 |





**Created by Ariamelon (https://github.com/Ariamelon/Honeydew/)**

Sheet: /SPI/
File: SPI.kicad_sch

***Title: Honeydew unified split ergonomic keyboard***

| Size: A4 | Date: 2023-06-27 | **Rev: V2.1** |
|---|---|---|
| KiCad E.D.A. kicad 7.0.5 | | Id: 9/7 |