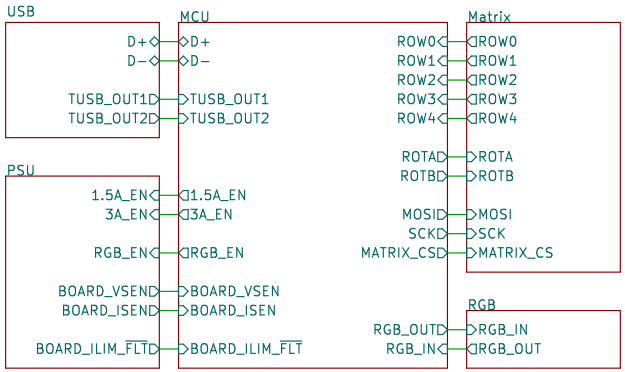
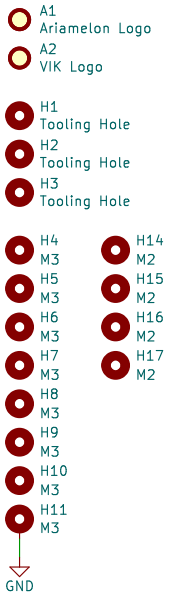


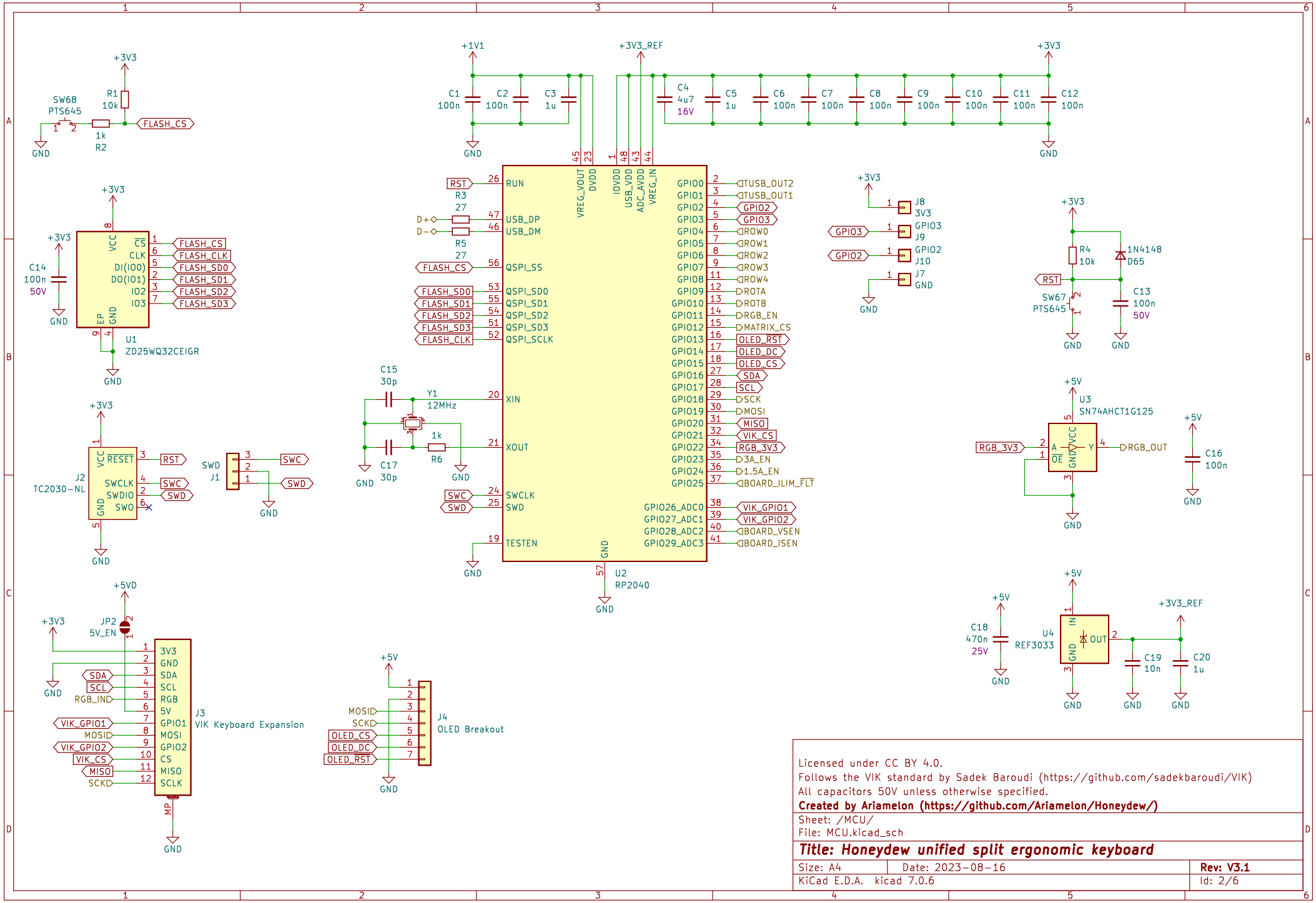


Created by Ariamelon (https://github.com/Ariamelon/Honeydew/)

Sheet: /
File: Honeydew.kicad_sch

Title: Honeydew unified split ergonomic keyboard

Size: A4	Date: 2023-08-16	**Rev: V3.1**
KiCad E.D.A. kicad 7.0.6		Id: 1/6

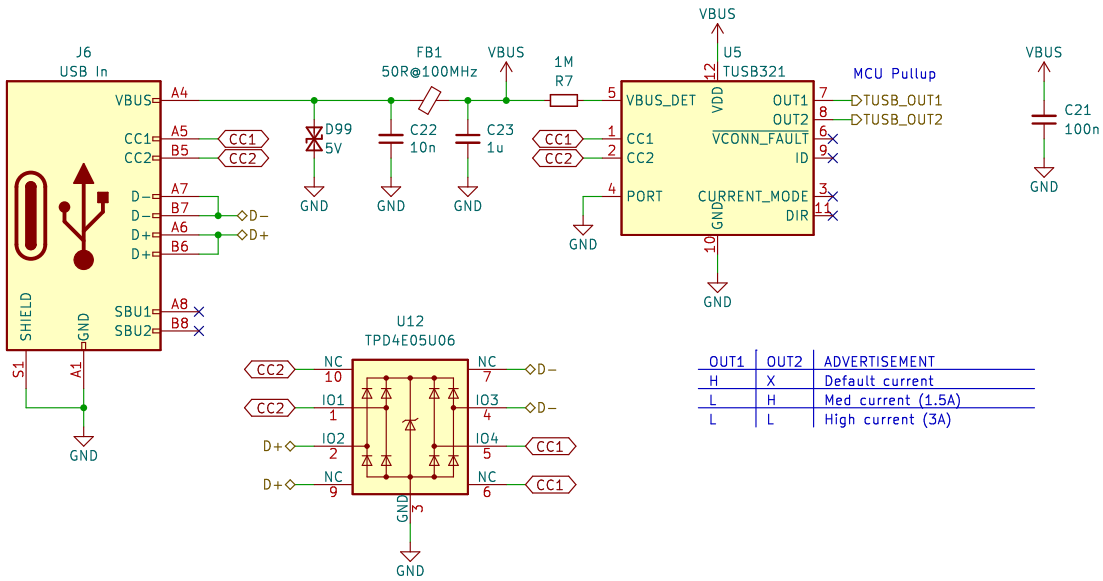


Follows the VIK standard by Sadek Baroudi (https://github.com/sadekbaroudi/VIK)
All capacitors 50V unless otherwise specified.
Created by Ariamelon (https://github.com/Ariamelon/Honeydew/)

Sheet: /MCU/
File: MCU.kicad_sch

Title: Honeydew unified split ergonomic keyboard

Size: A4	Date: 2023-08-16	**Rev: V3.1**
KiCad E.D.A. kicad 7.0.6		Id: 2/6



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

Follows the VIK standard by Sadek Baroudi (https://github.com/sadekbaroudi/VIK)
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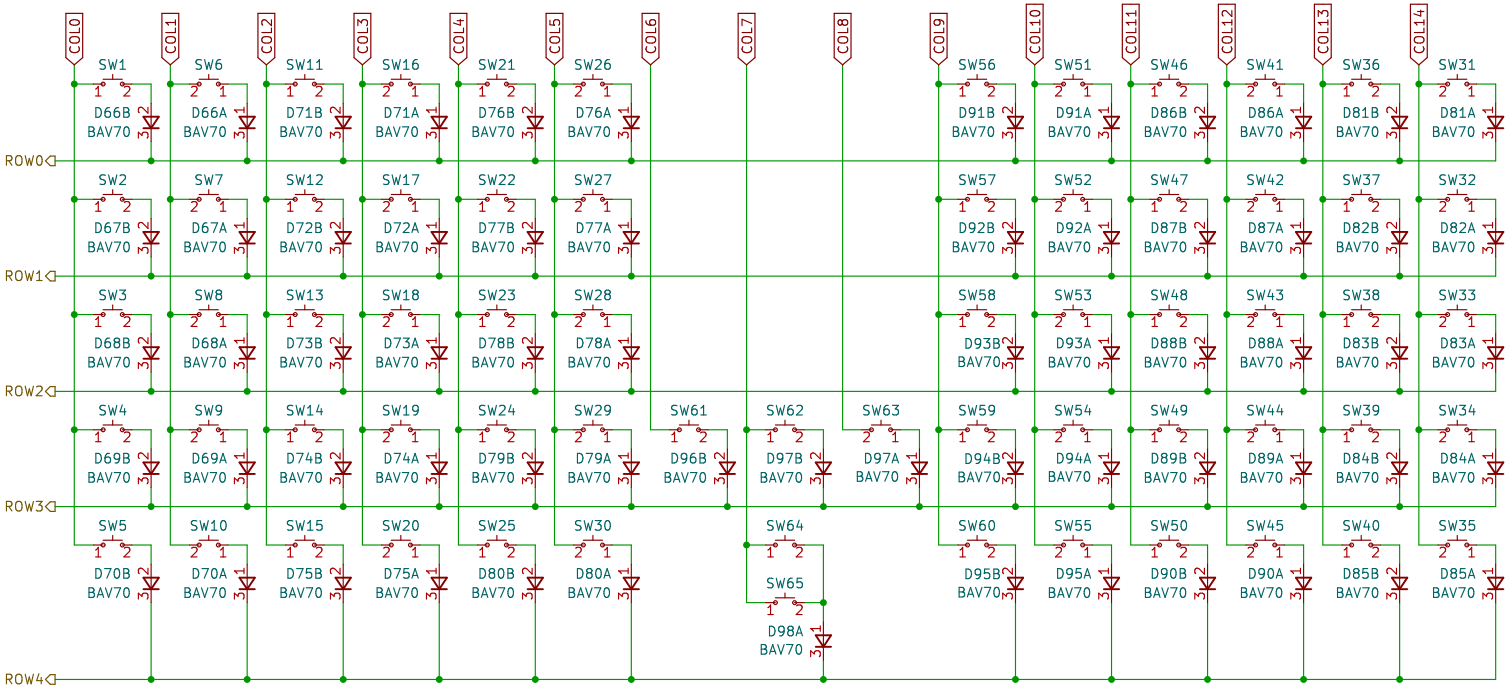
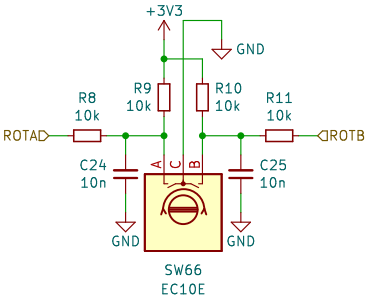
Created by Ariamelon (https://github.com/Ariamelon/Honeydew/)

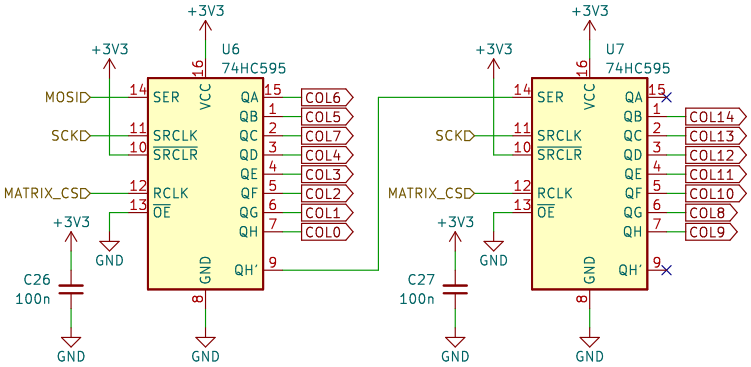
Sheet: /USB/
File: USB.kicad_sch

Title: Honeydew unified split ergonomic keyboard

Size: A4	Date: 2023-08-16	**Rev: V3.1**
KiCad E.D.A. kicad 7.0.6		Id: 3/6





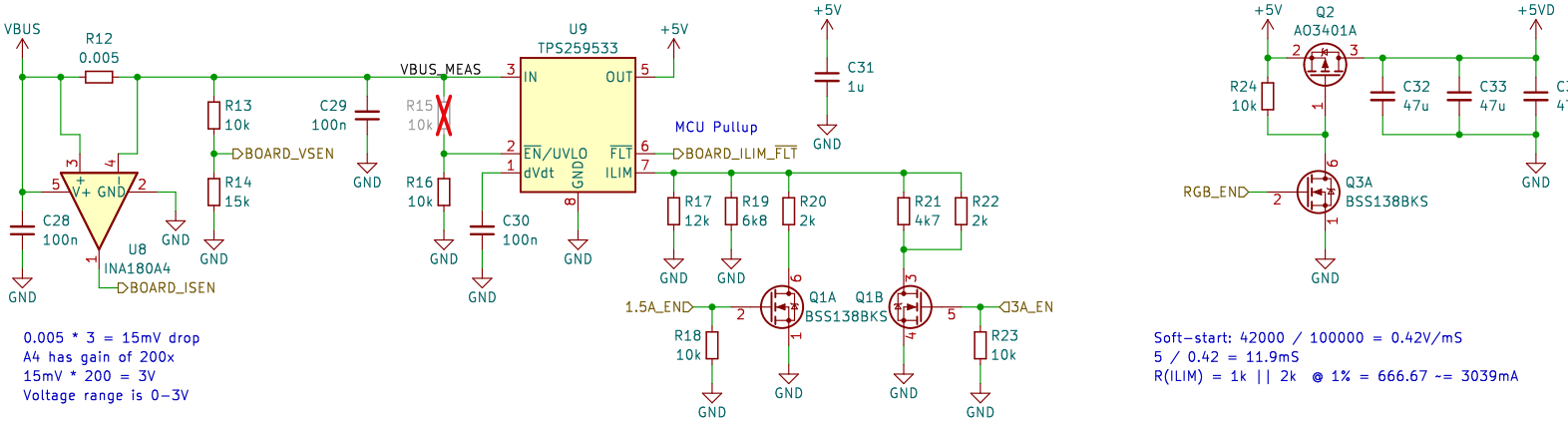


Follows the VIK standard by Sadek Baroudi (https://github.com/sadekbaroudi/VIK)
All capacitors 50V unless otherwise specified.
Created by Ariamelon (https://github.com/Ariamelon/Honeydew/)

Sheet: /Matrix/
File: Matrix.kicad_sch

Title: Honeydew unified split ergonomic keyboard

Size: A4	Date: 2023-08-16	**Rev: V3.1**
KiCad E.D.A. kicad 7.0.6		Id: 4/6



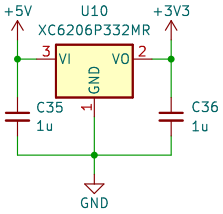
0.005 * 3 = 15mV drop
A4 has gain of 200x
15mV * 200 = 3V
Voltage range is 0–3V

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



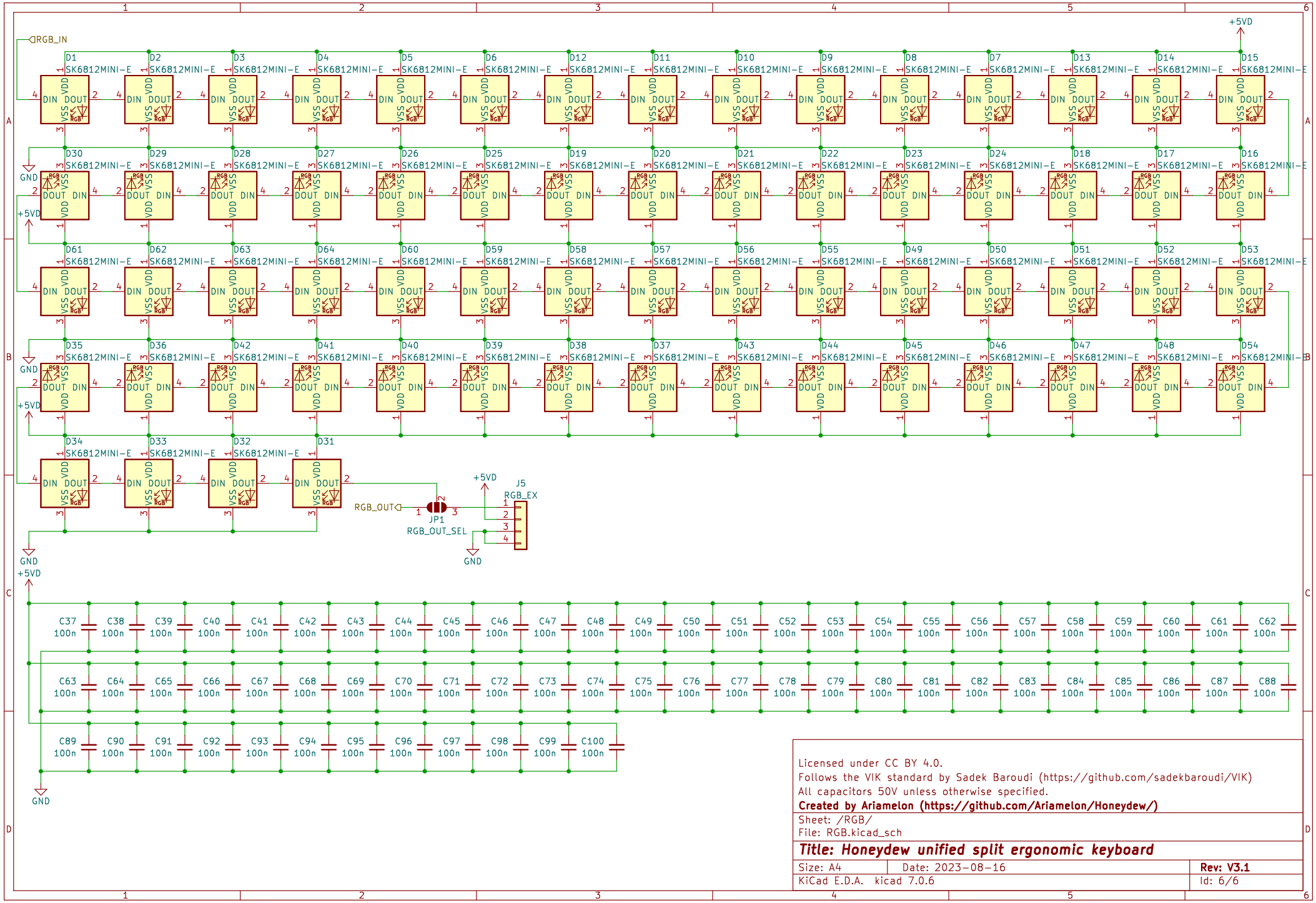
Soft-start: 42000 / 100000 = 0.42V/mS
5 / 0.42 = 11.9mS
R(ILIM) = 1k || 2k @ 1% = 666.67 ~= 3039mA

Follows the VIK standard by Sadek Baroudi (https://github.com/sadekbaroudi/VIK)
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: 2023-08-16	**Rev: V3.1**
KiCad E.D.A. kicad 7.0.6		Id: 5/6



Follows the VIK standard by Sadek Baroudi (https://github.com/sadekbaroudi/VIK)
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: 2023-08-16	**Rev: V3.1**
KiCad E.D.A. kicad 7.0.6		Id: 6/6