

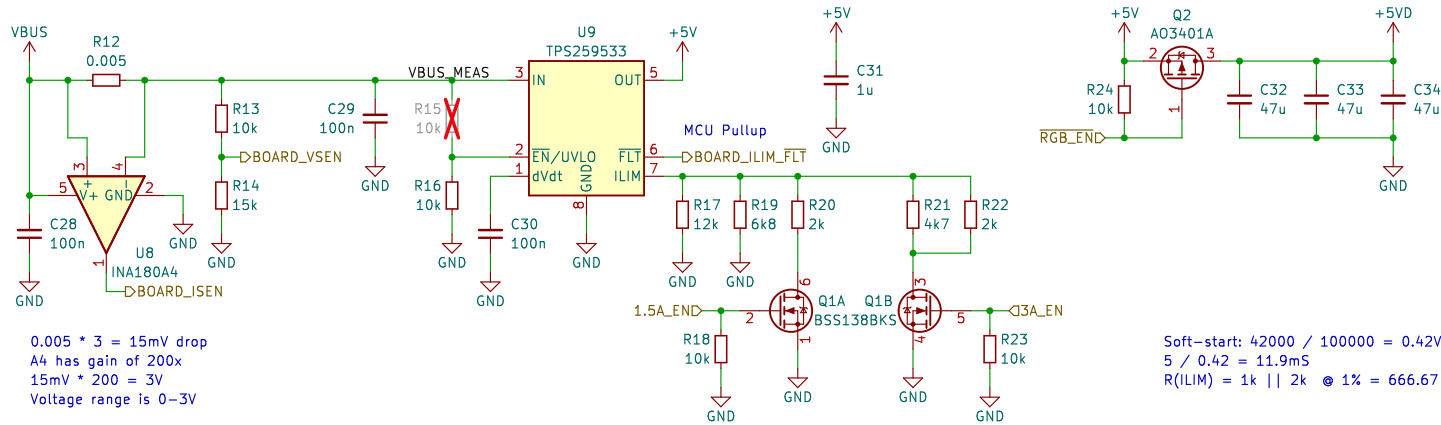
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All capacitors 50V unless otherwise specified.  
**Created by Ariamelon** (<https://github.com/Ariamelon/Honeydew/>)

Sheet: /USB/  
File: USB.kicad\_sch

**Title: Honeydew unified split ergonomic keyboard**

Size: A4	Date: 2023-08-06	Rev: V3.0
KiCad E.D.A. kicad 7.0.6		Id: 3/6





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

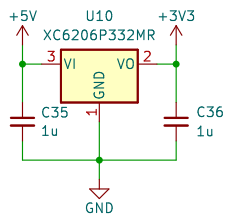
VBUS max is 5.5V  
 5.5 \* 15 / (10 + 15) = 3.3V  
 Voltage range is 0-3.3V

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



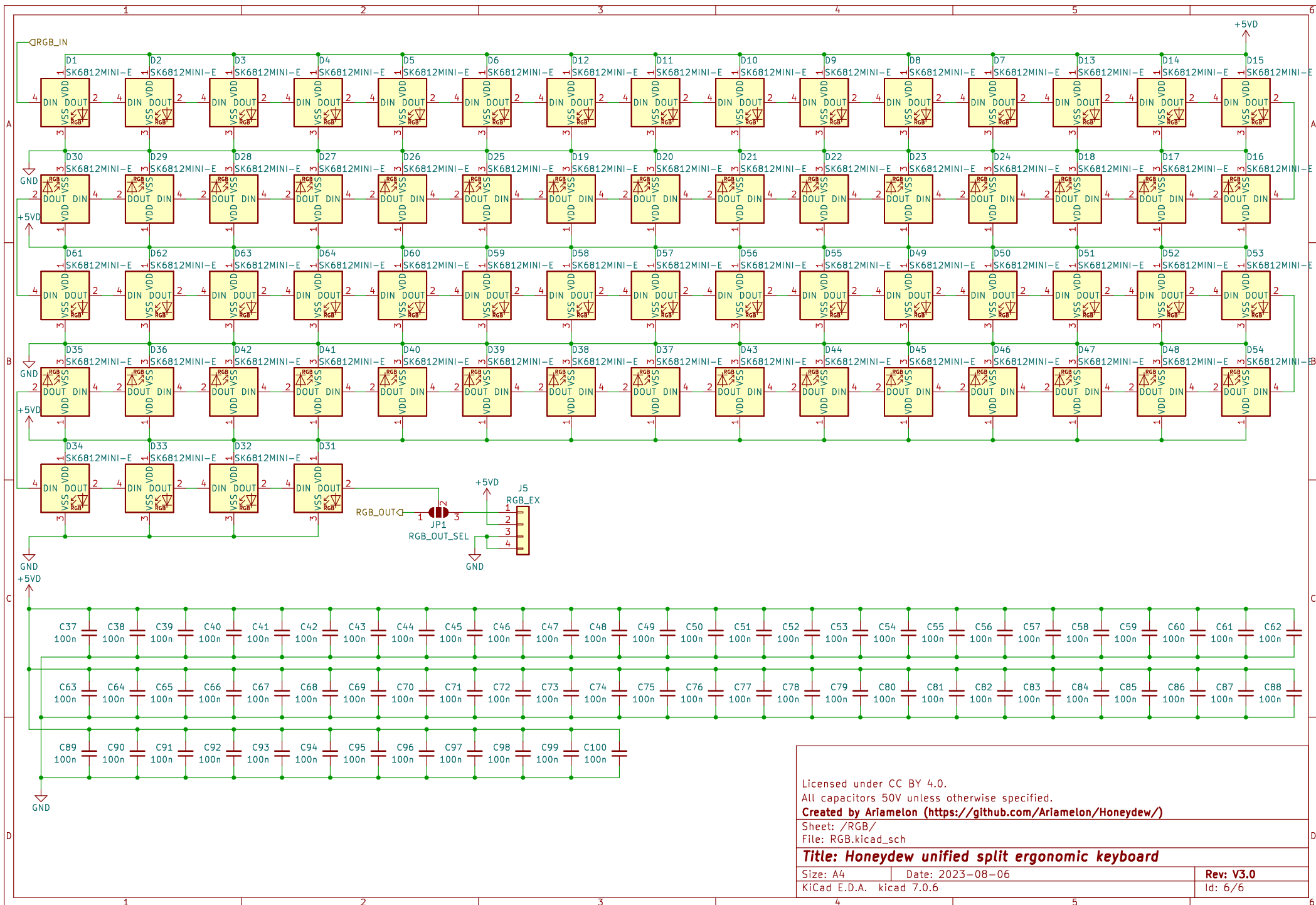
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Sheet: /PSU/  
 File: PSU.kicad\_sch

**Title: Honeydew unified split ergonomic keyboard**

Size: A4 Date: 2023-08-06  
 KiCad E.D.A. kicad 7.0.6

Rev: V3.0  
 Id: 5/6



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 Created by Ariamelon (<https://github.com/Ariamelon/Honeydew/>)  
 Sheet: /RGB/  
 File: RGB.kicad\_sch  
**Title: Honeydew unified split ergonomic keyboard**  
 Size: A4 Date: 2023-08-06 Rev: V3.0  
 KiCad E.D.A. kicad 7.0.6 Id: 6/6