

A

A

B

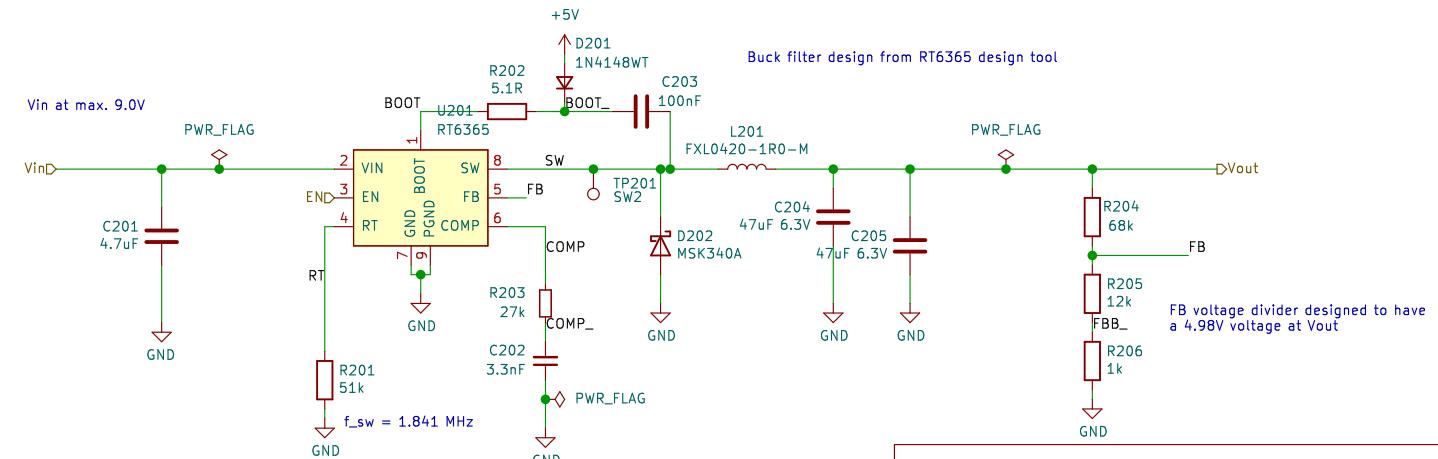
B

C

C

D

D



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Hat Labs Ltd

Sheet:

File: buck\_stage\_2.kicad\_sch

**Title: Sailor Hat for Raspberry Pi**

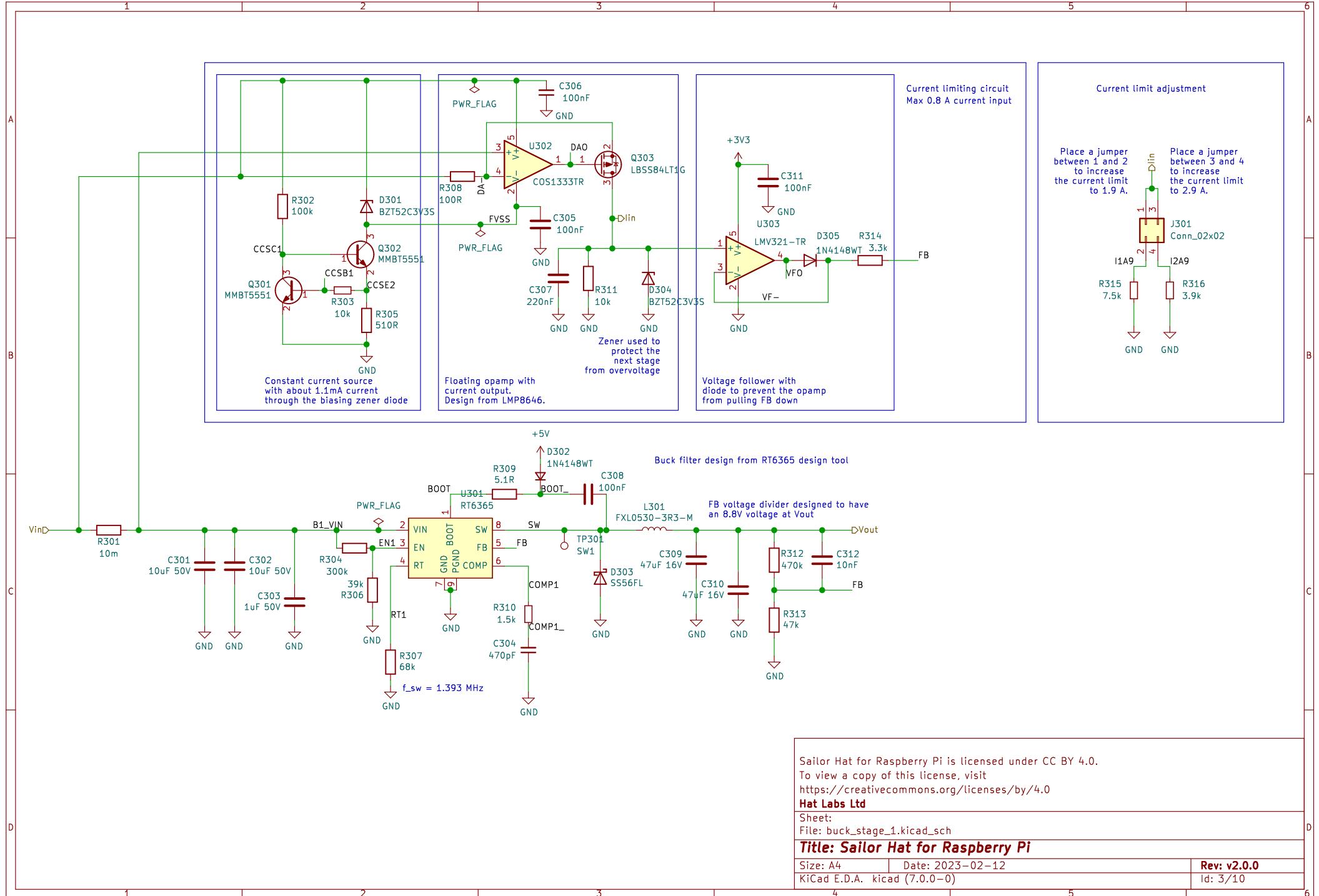
Size: A4 Date: 2023-02-12

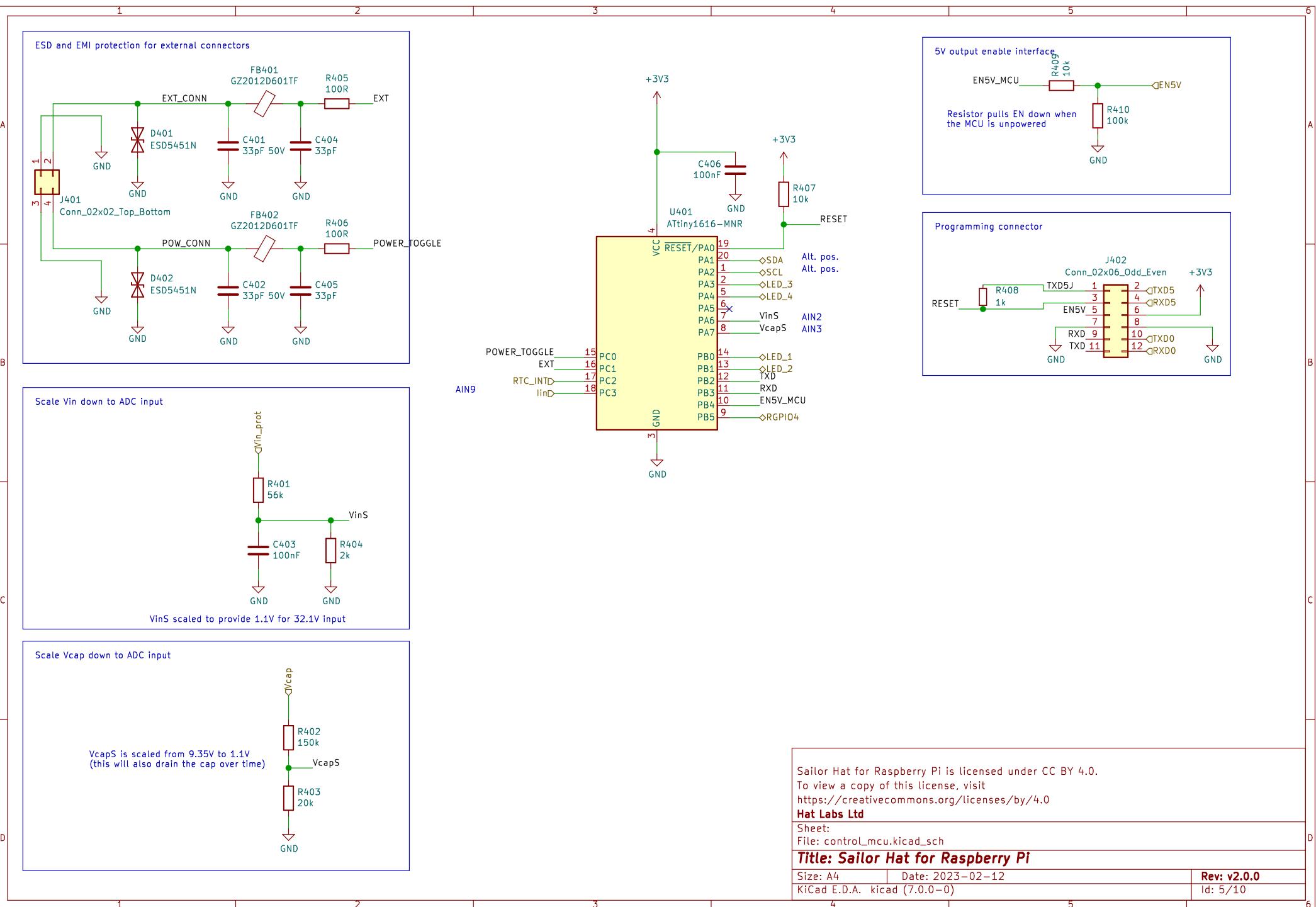
KiCad E.D.A. kicad (7.0.0-0)

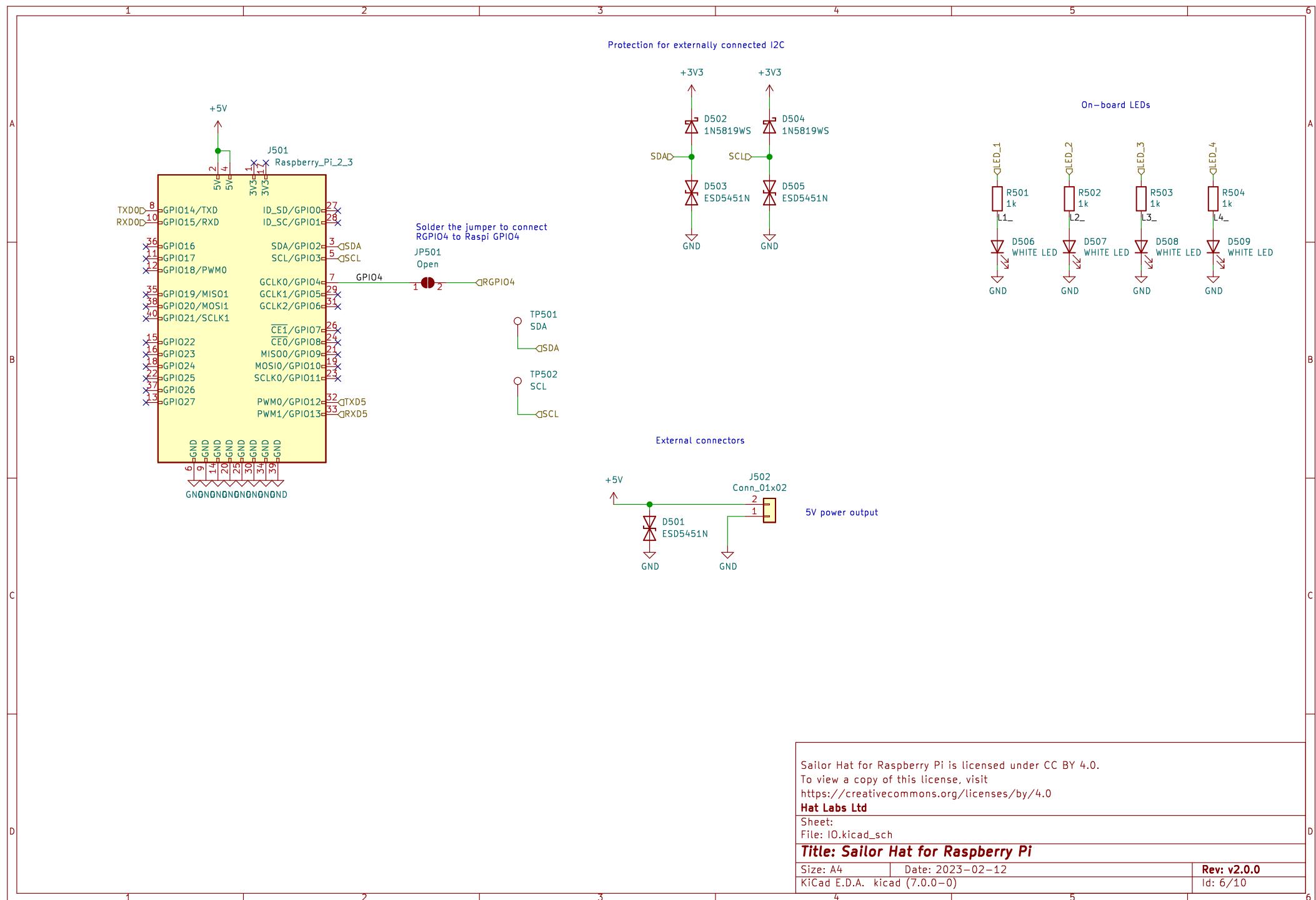
Rev: v2.0.0

Id: 2/10

1 2 3 4 5 6







A

Raspberry Pi  
mounting holes



B

B

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Sheet:  
File: pcb.kicad\_sch

**Title: Sailor Hat for Raspberry Pi**

Size: A4 | Date: 2023-02-12  
KiCad E.D.A. kicad (7.0.0-0)

Rev: v2.0.0  
Id: 7/10

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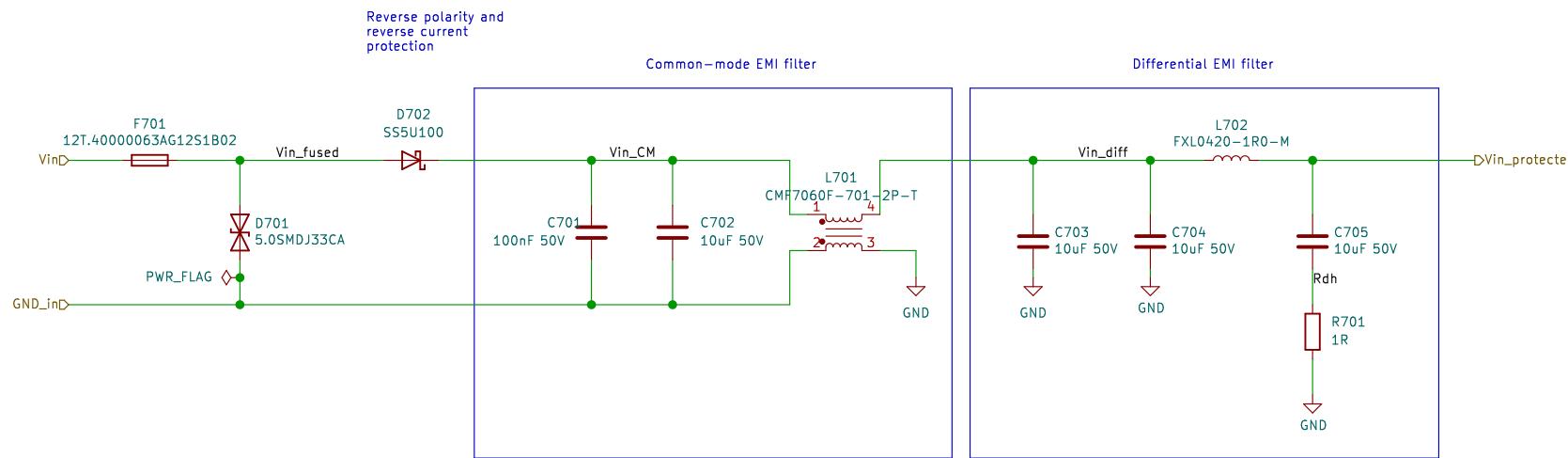
5

6

EMI pre-filter design taken from PMP15013 & 62AN101E.

A

A



B

B

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D

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Sheet:  
 File: protection.kicad\_sch

**Title: Sailor Hat for Raspberry Pi**

Size: A4 | Date: 2023-02-12  
 KiCad E.D.A. kicad (7.0.0-0)

**Rev: v2.0.0**  
 Id: 8/10

1

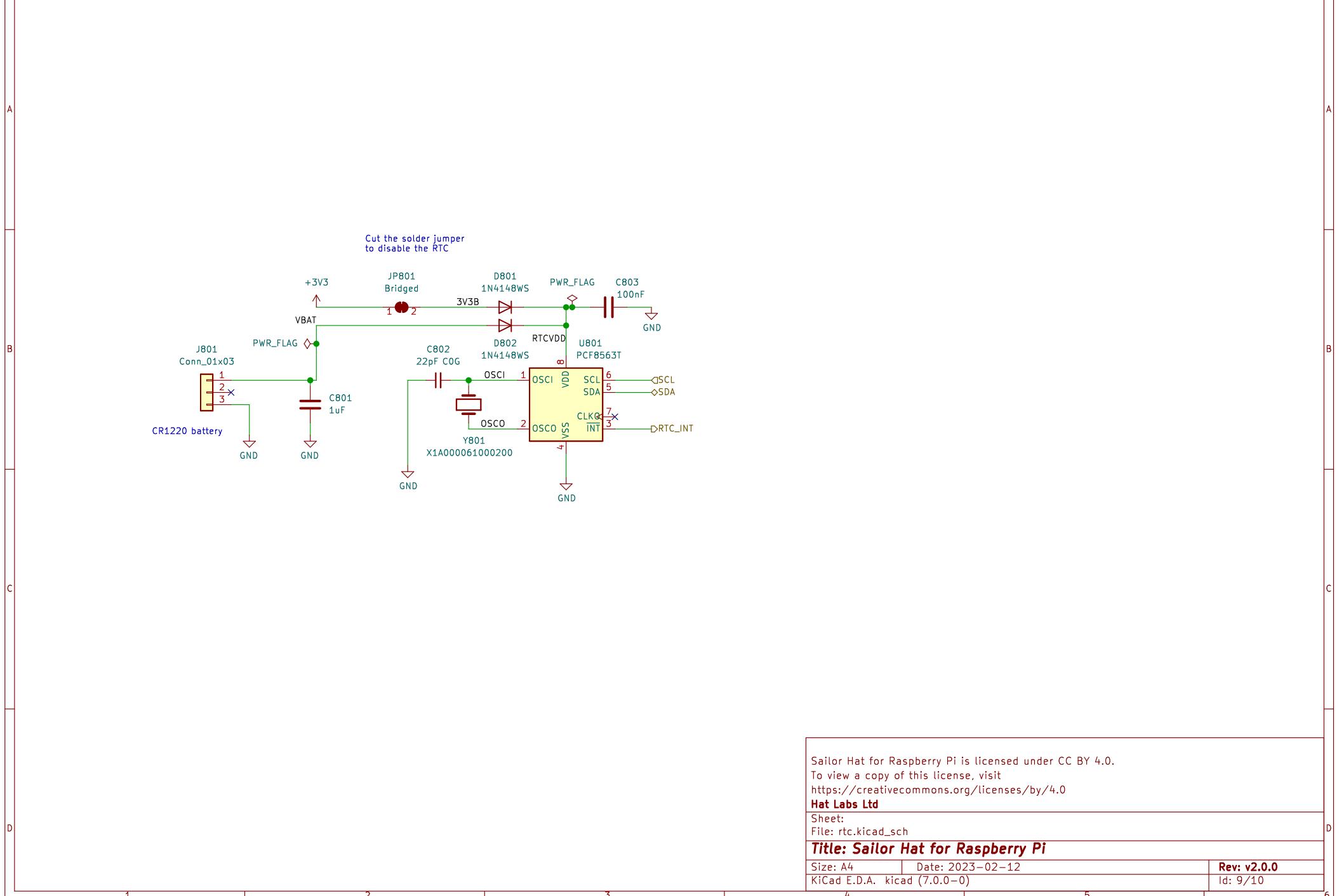
2

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Sheet:  
File: rtc.kicad\_sch

**Title: Sailor Hat for Raspberry Pi**

Size: A4 | Date: 2023-02-12  
KiCad E.D.A. kicad (7.0.0-0)

**Rev: v2.0.0**  
Id: 9/10

A

A

B

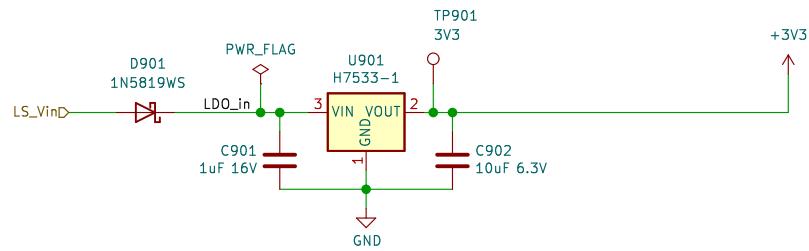
B

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Sheet:  
 File: ldo.kicad\_sch

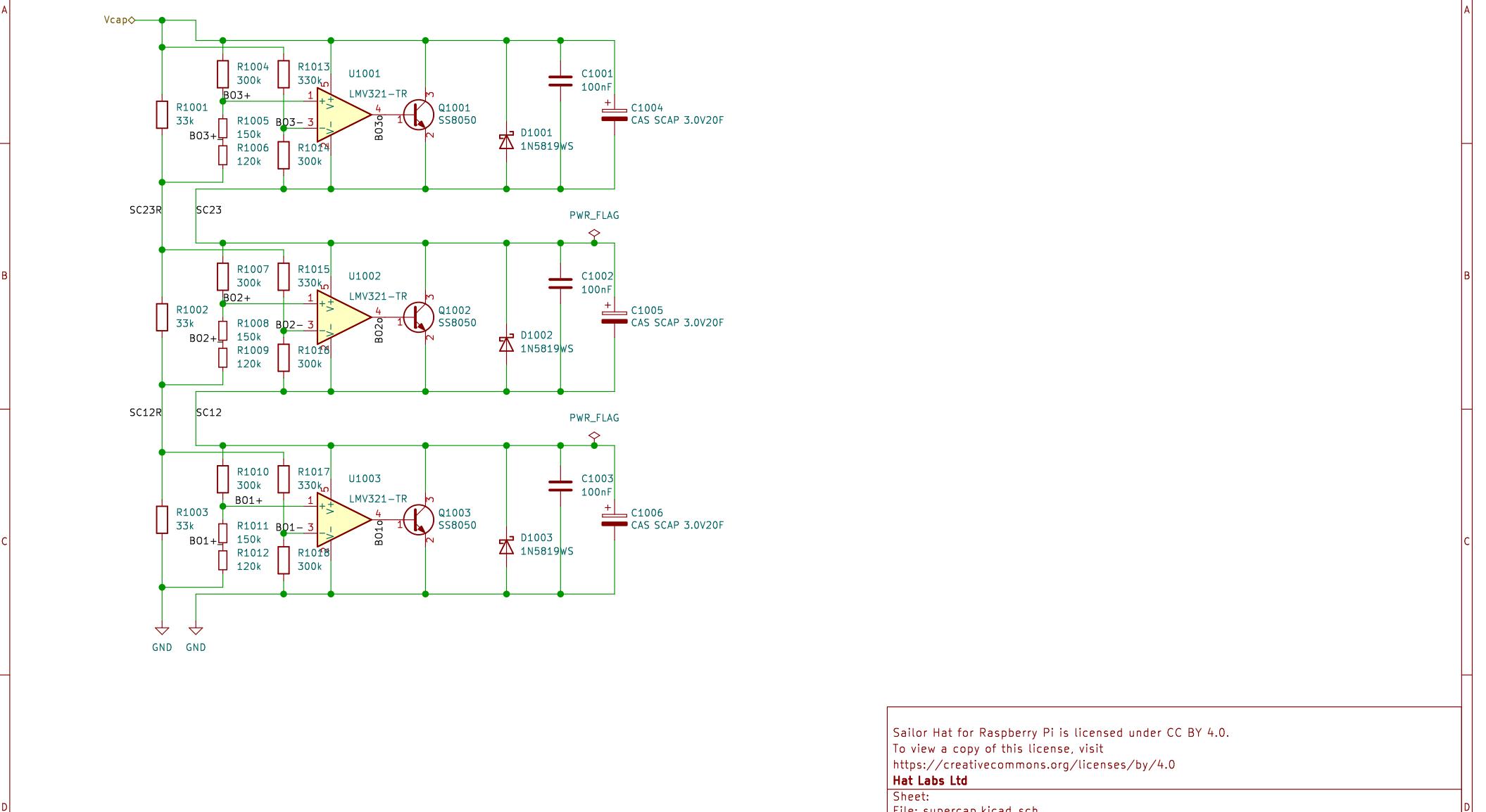
**Title: Sailor Hat for Raspberry Pi**

Size: A4 Date: 2023-02-12  
 KiCad E.D.A. kicad (7.0.0-0)

Rev: v2.0.0  
 Id: 9/10

1 2 3 4 5 6

Balancing circuit modeled after  
<https://www.eevblog.com/forum/renewable-energy/supercapacitor-balancer/>



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Sheet:  
File: supercap.kicad\_sch

**Title: Sailor Hat for Raspberry Pi**

Size: A4 Date: 2023-02-12  
KiCad E.D.A. kicad (7.0.0-0)

Rev: v2.0.0  
Id: 10/10

1 2 3 4 5 6