

<https://github.com/xtremespb/frank>

**Mikhail Matveev**

Sheet: /RP2040/

File: rp2040.kicad\_sch

**Title: Protea**

Size: A4

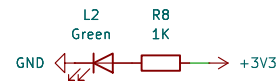
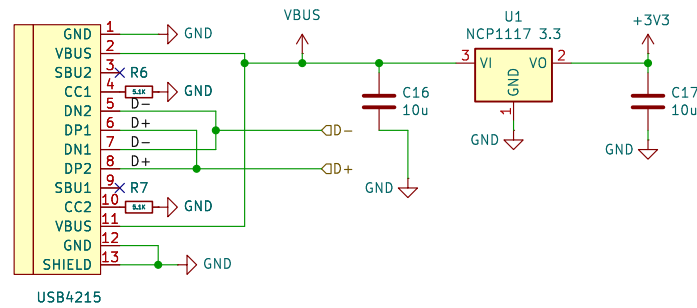
Date: 2025-03-03

KiCad E.D.A. 9.0.0

**Rev: 2.02**

Id: 2/9

The power source is USB-C connector.  
The NCP1117 transforms +5V to +3V3.



The LED indicates +3V power availability.  
Usually it's green, but you decide ;-)

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**Mikhail Matveev**

Sheet: /Power/

File: power.kicad\_sch

**Title: Protea**

Size: A4

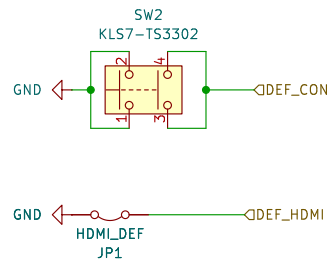
Date: 2025-03-03

**Rev: 2.02**

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Id: 3/9





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**Mikhail Matveev**

Sheet: /Defaults/

File: button.kicad\_sch

**Title: Protea**

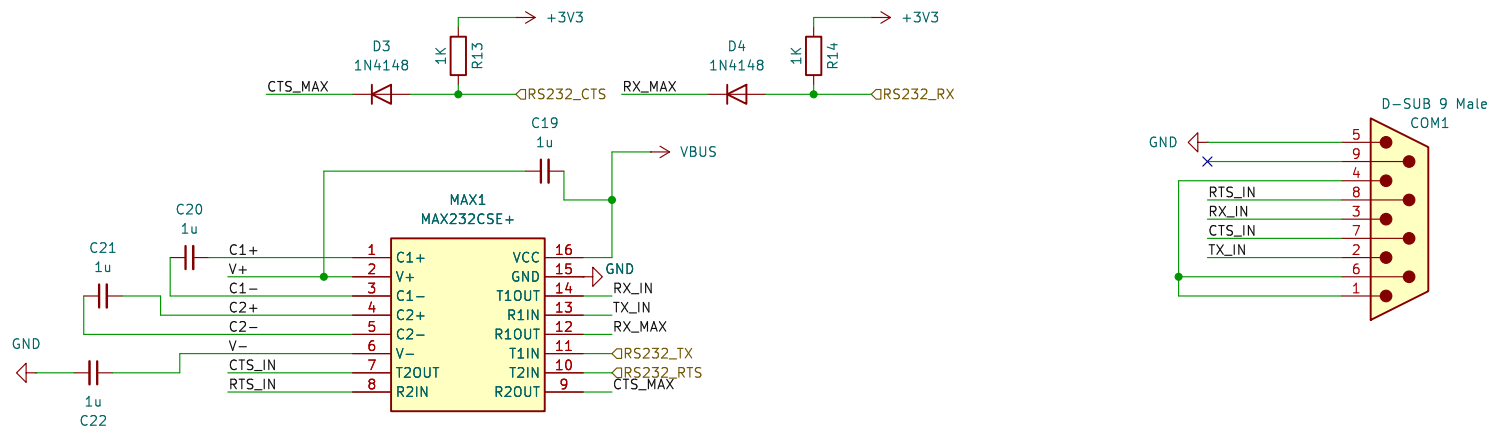
Size: A4

Date: 2025-03-03

**Rev: 2.02**

KiCad E.D.A. 9.0.0

Id: 5/9



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**Mikhail Matveev**

Sheet: /RS232/

File: rs232.kicad\_sch

**Title: Protea**

Size: A4

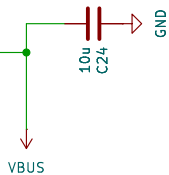
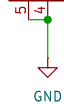
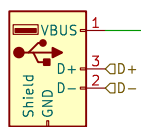
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**Rev: 2.02**

Id: 7/9

USB2  
676430910



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**Mikhail Matveev**

Sheet: /USB A/

File: usba.kicad\_sch

**Title: Protea**

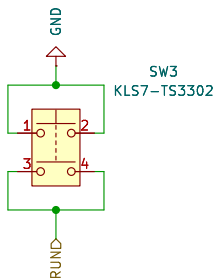
Size: A4

Date: 2025-03-03

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KiCad E.D.A. 9.0.0

Id: 9/9



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**Mikhail Matveev**

Sheet: /Reset/

File: reset.kicad\_sch

**Title: Protea**

Size: A4

Date: 2025-03-03

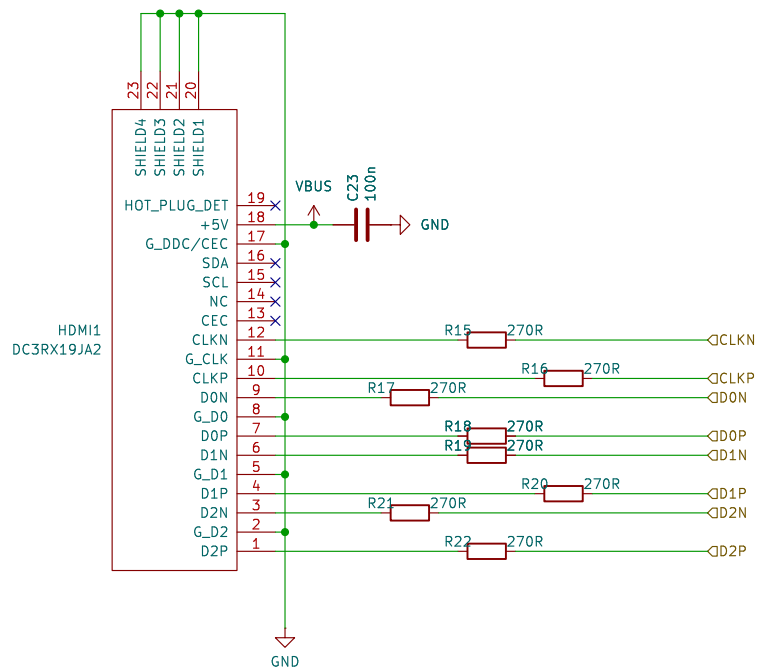
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Id: 9/9



HDMI video output requires the resistors to be close to the HDMI socket in order to work properly.



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**Mikhail Matveev**

Sheet: /HDMI/

File: hdmi.kicad\_sch

**Title: Protea**

Size: A4

Date: 2025-03-03

**Rev: 2.02**

KiCad E.D.A. 9.0.0

Id: 10/9