

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

**Mikhail Matveev**

Sheet: /RP1/

File: rp2040.kicad\_sch

**Title: MiniFRANK RM1U**

Size: A4

Date: 2025-03-04

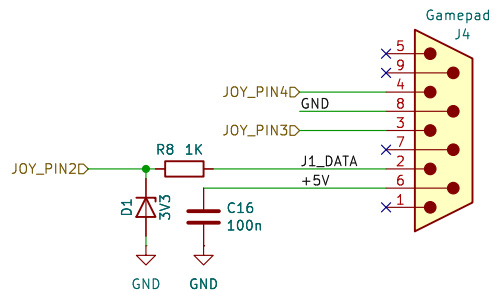
KiCad E.D.A. 9.0.0

**Rev: 1.01**

Id: 2/14



Id: 3/14



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**Mikhail Matveev**

Sheet: /Gamepad 2/

File: gamepad.kicad\_sch

**Title: MiniFRANK RM1U**

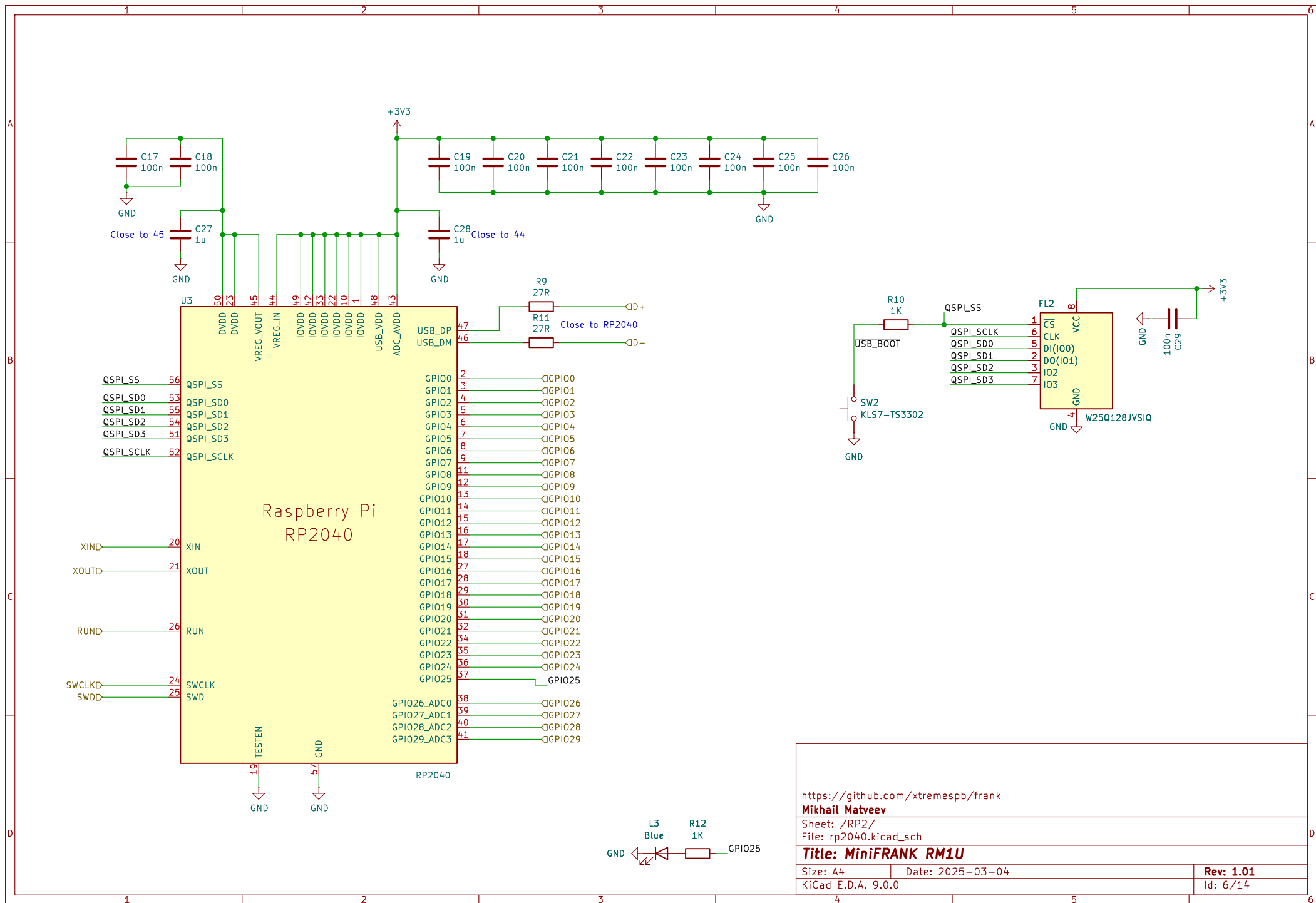
Size: A4

Date: 2025-03-04

**Rev: 1.01**

KiCad E.D.A. 9.0.0

Id: 4/14



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**Mikhail Matveev**

Sheet: /RP2/

File: rp2040.kicad\_sch

**Title: MiniFRANK RM1U**

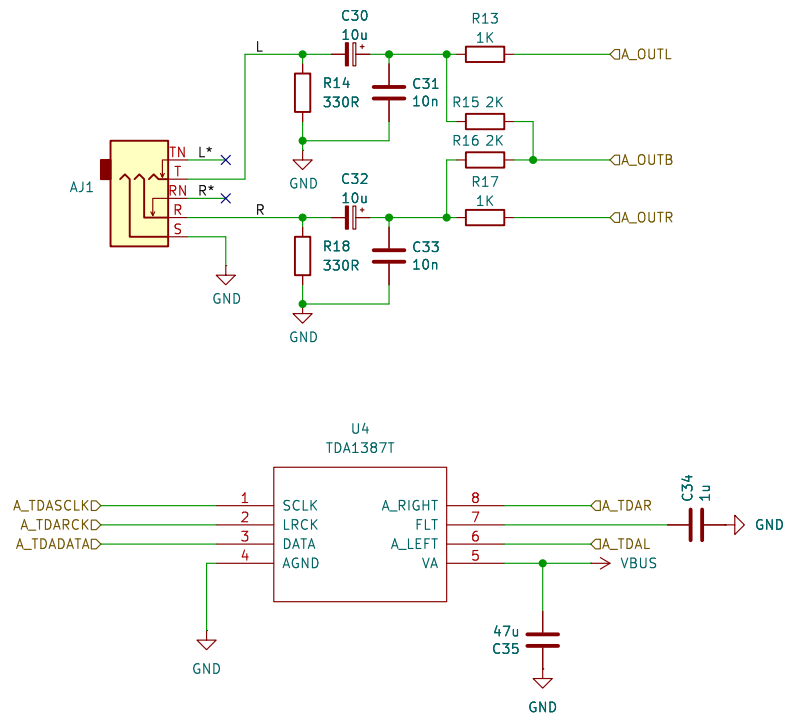
Size: A4

Date: 2025-03-04

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**Rev: 1.01**

Id: 6/14



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**Mikhail Matveev**

Sheet: /Audio Out/

File: audio\_out\_m1.kicad\_sch

**Title: MiniFRANK RM1U**

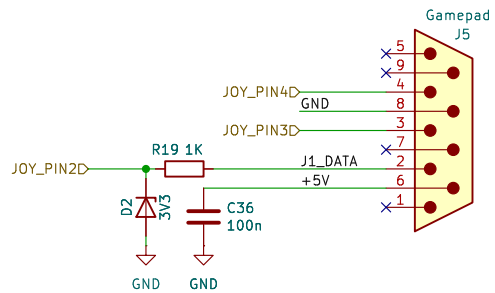
Size: A4

Date: 2025-03-04

**Rev: 1.01**

KiCad E.D.A. 9.0.0

Id: 7/14



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**Mikhail Matveev**

Sheet: /Gamepad 1/

File: gamepad.kicad\_sch

**Title: MiniFRANK RM1U**

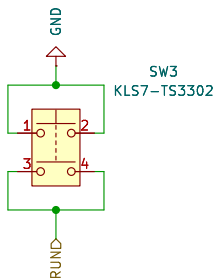
Size: A4

Date: 2025-03-04

**Rev: 1.01**

KiCad E.D.A. 9.0.0

Id: 8/14



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**Mikhail Matveev**

Sheet: /Reset/

File: reset.kicad\_sch

**Title: MiniFRANK RM1U**

Size: A4

Date: 2025-03-04

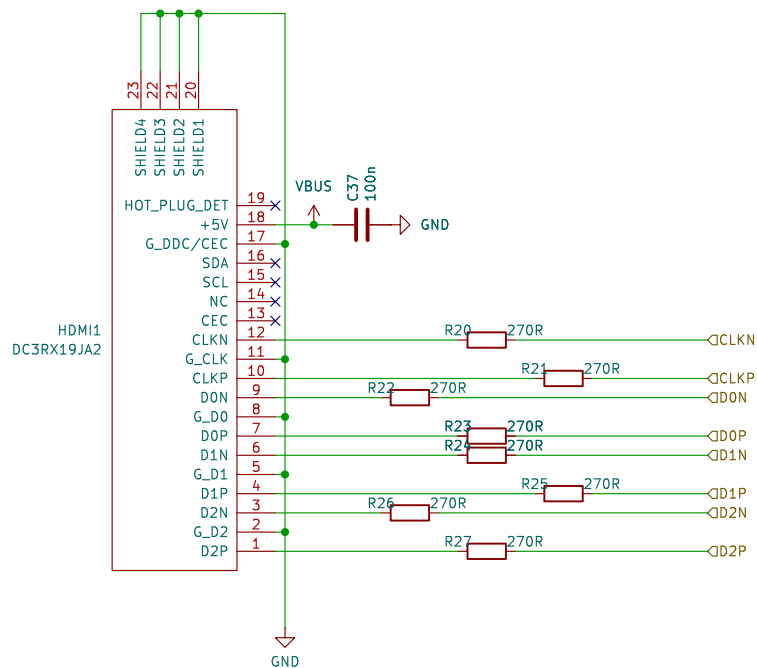
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Id: 9/14



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: MiniFRANK RM1U**

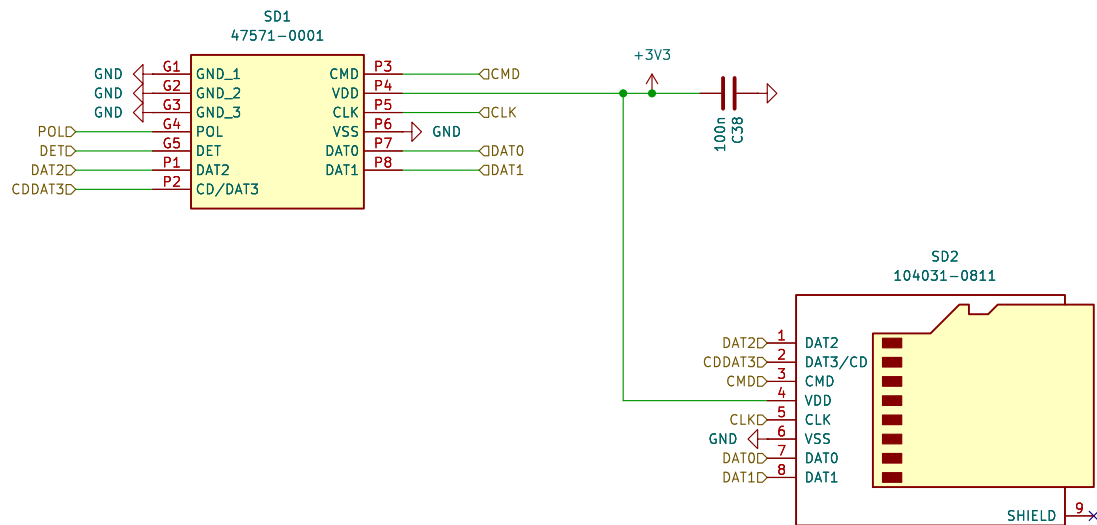
Size: A4

Date: 2025-03-04

**Rev: 1.01**

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Id: 10/14



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**Mikhail Matveev**

Sheet: /Micro SD/

File: sd.kicad\_sch

**Title: MiniFRANK RM1U**

Size: A4

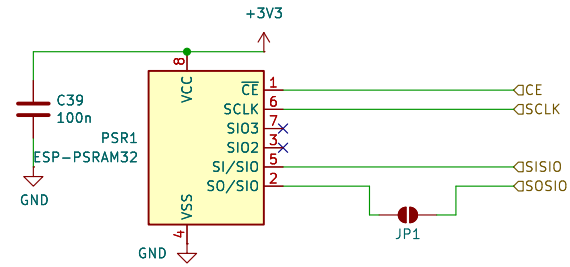
Date: 2025-03-04

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Id: 10/14

As PSRAM is optional, you need to solder JP1  
if you are going to use it.



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**Mikhail Matveev**

Sheet: /PSRAM/

File: psram.kicad\_sch

**Title: MiniFRANK RM1U**

Size: A4

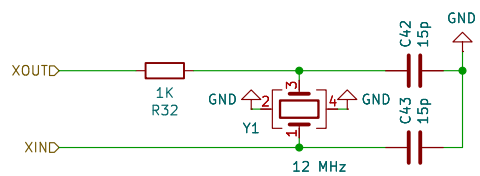
Date: 2025-03-04

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Id: 11/14

Id: 12/14



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**Mikhail Matveev**

Sheet: /Crystal 12 MHz/

File: crystal\_12mhz.kicad\_sch

**Title: MiniFRANK RM1U**

Size: A4

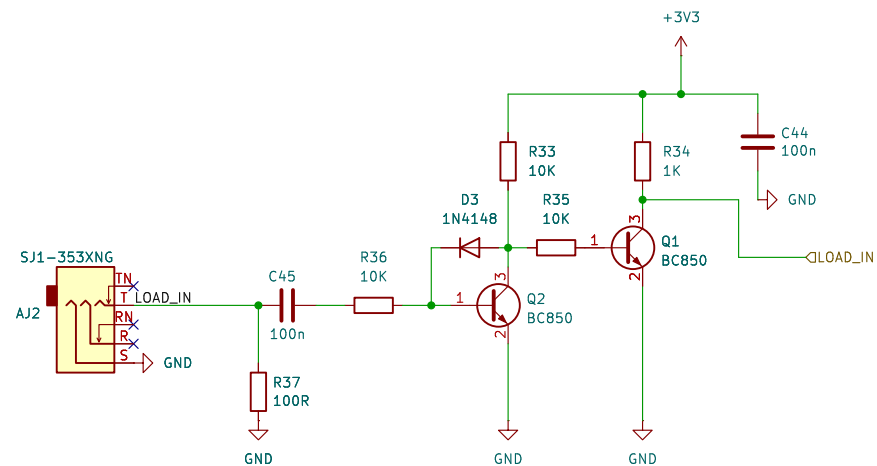
Date: 2025-03-04

**Rev: 1.01**

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Id: 14/14

This schematics is used to load data from external audio source, e.g. tape.



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**Mikhail Matveev**

Sheet: /Tape/

File: tape.kicad\_sch

**Title: MiniFRANK RM1U**

Size: A4

Date: 2025-03-04

**Rev: 1.01**

KiCad E.D.A. 9.0.0

Id: 14/14