

DIVA ENG

Sheet: /  
File: diva-card.kicad\_sch

Title: Pico Card

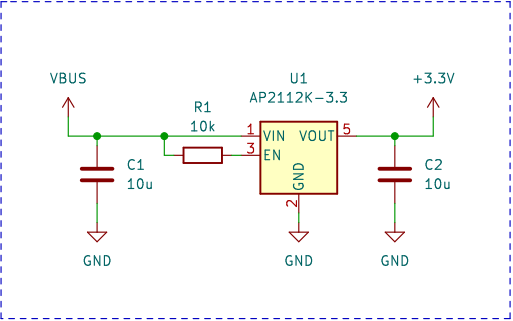
Size: A4 Date: 2022-05-28

KiCad E.D.A. kicad (6.0.5)

Rev: v1.0

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Power and filtering



DIVA ENG

Sheet: /power\_supply/  
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**Title: Pico Card**

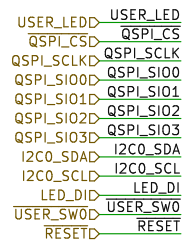
Size: A4 Date: 2022-05-28

KiCad E.D.A. kicad (6.0.5)

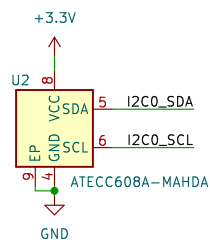
**Rev: v1.0**

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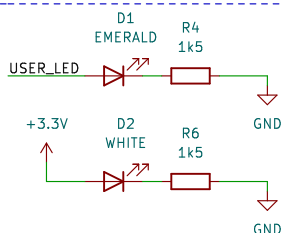
## Interface



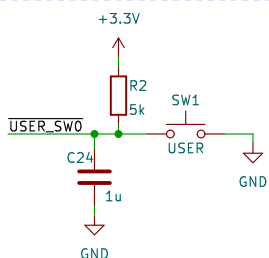
## Crypto Authentication Unit



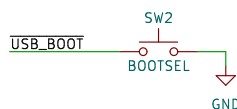
## LEDs



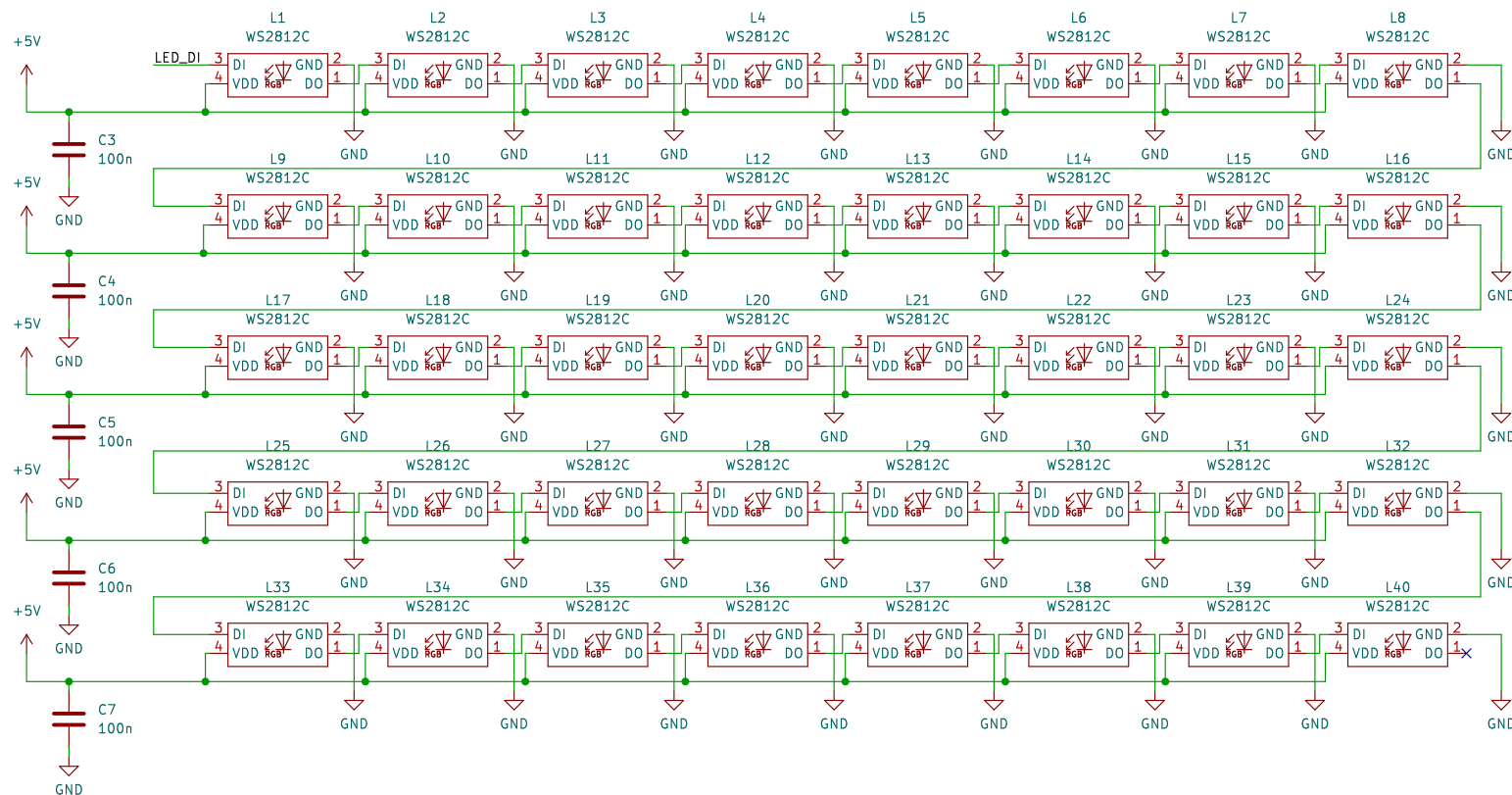
## User Switch



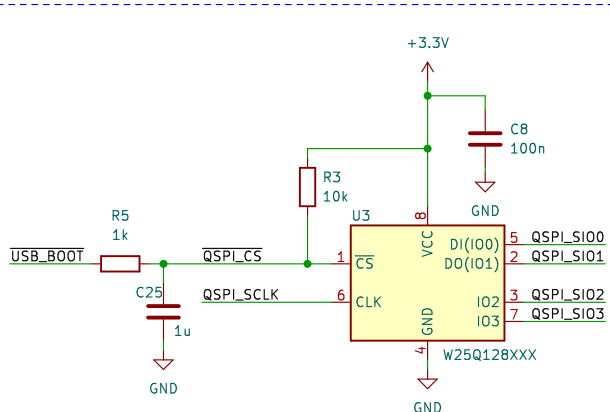
## USB Boot Switch



## LED Matrix



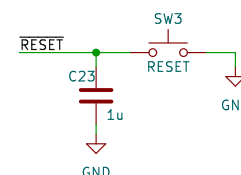
## Flash Storage



## Fiducial and Mounting Hole



## Reset Switch



## DIVA ENG

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

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## Interface (IN)

SWCLK → QSWCLK  
SWDIO → QSWDIO

QSPI\_CS → QSPI\_CS  
QSPI\_SCLK → QSPI\_SCLK  
QSPI\_SIO0 → QSPI\_SIO0  
QSPI\_SIO1 → QSPI\_SIO1  
QSPI\_SIO2 → QSPI\_SIO2  
QSPI\_SIO3 → QSPI\_SIO3  
RESET → QRESET

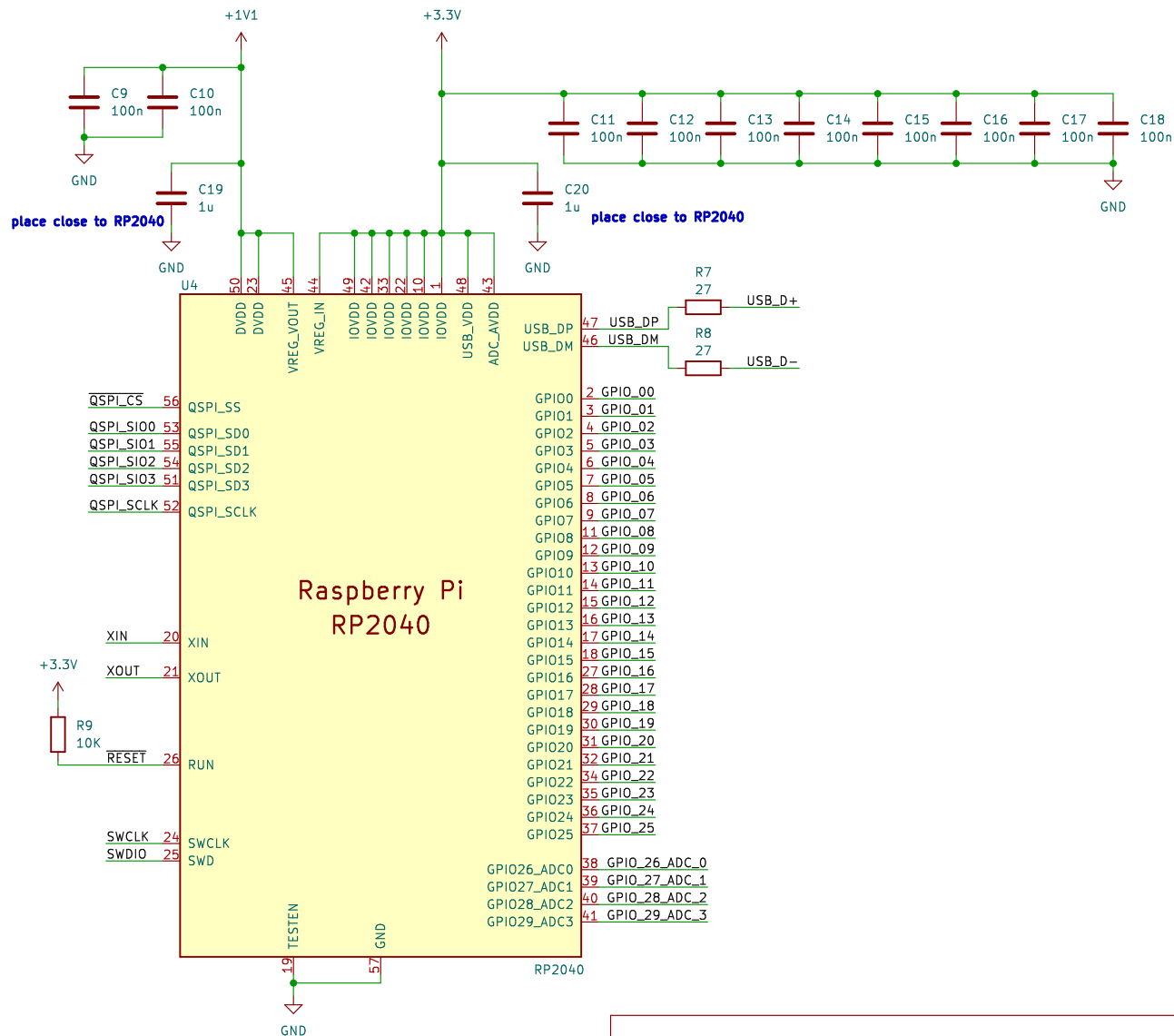
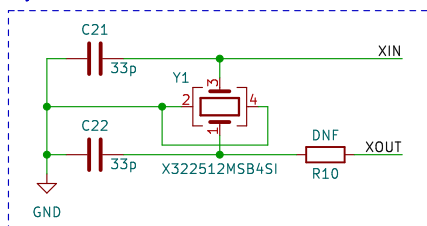
## Interface (OUT)

USB\_D+ → USB\_D+  
USB\_D- → USB\_D-

GPIO\_00 → GPIO\_00  
GPIO\_01 → GPIO\_01  
GPIO\_02 → GPIO\_02  
GPIO\_03 → GPIO\_03  
GPIO\_04 → GPIO\_04  
GPIO\_05 → GPIO\_05  
GPIO\_06 → GPIO\_06  
GPIO\_07 → GPIO\_07  
GPIO\_08 → GPIO\_08  
GPIO\_09 → GPIO\_09  
GPIO\_10 → GPIO\_10  
GPIO\_11 → GPIO\_11  
GPIO\_12 → GPIO\_12  
GPIO\_13 → GPIO\_13  
GPIO\_14 → GPIO\_14  
GPIO\_15 → GPIO\_15  
GPIO\_16 → GPIO\_16  
GPIO\_17 → GPIO\_17  
GPIO\_18 → GPIO\_18  
GPIO\_19 → GPIO\_19  
GPIO\_20 → GPIO\_20  
GPIO\_21 → GPIO\_21  
GPIO\_22 → GPIO\_22  
GPIO\_23 → GPIO\_23  
GPIO\_24 → GPIO\_24  
GPIO\_25 → GPIO\_25

GPIO\_26\_ADC\_0 → GPIO\_26\_ADC\_0  
GPIO\_26\_ADC\_1 → GPIO\_26\_ADC\_1  
GPIO\_26\_ADC\_2 → GPIO\_26\_ADC\_2  
GPIO\_26\_ADC\_3 → GPIO\_26\_ADC\_3

## Crystal



Raspberry Pi  
RP2040

## DIVA ENG

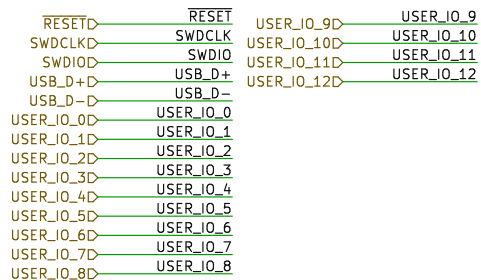
Sheet: /microcontroller/  
File: microcontroller.kicad\_sch

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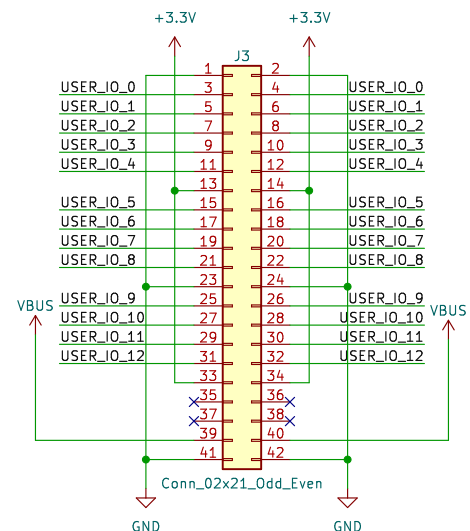
Size: A4 Date: 2022-05-28  
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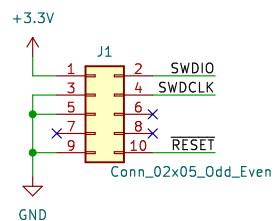
## Interface



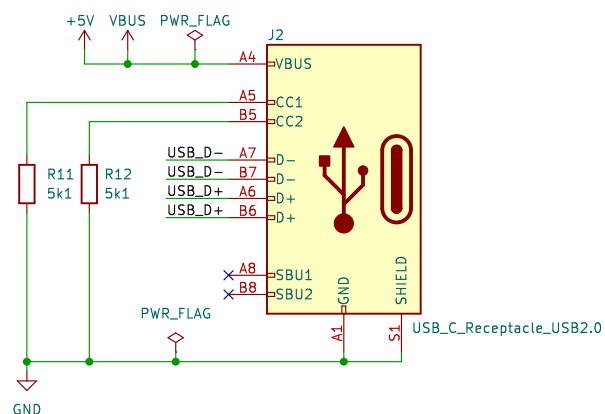
### Edge Connector



## SWD



## USB-C



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