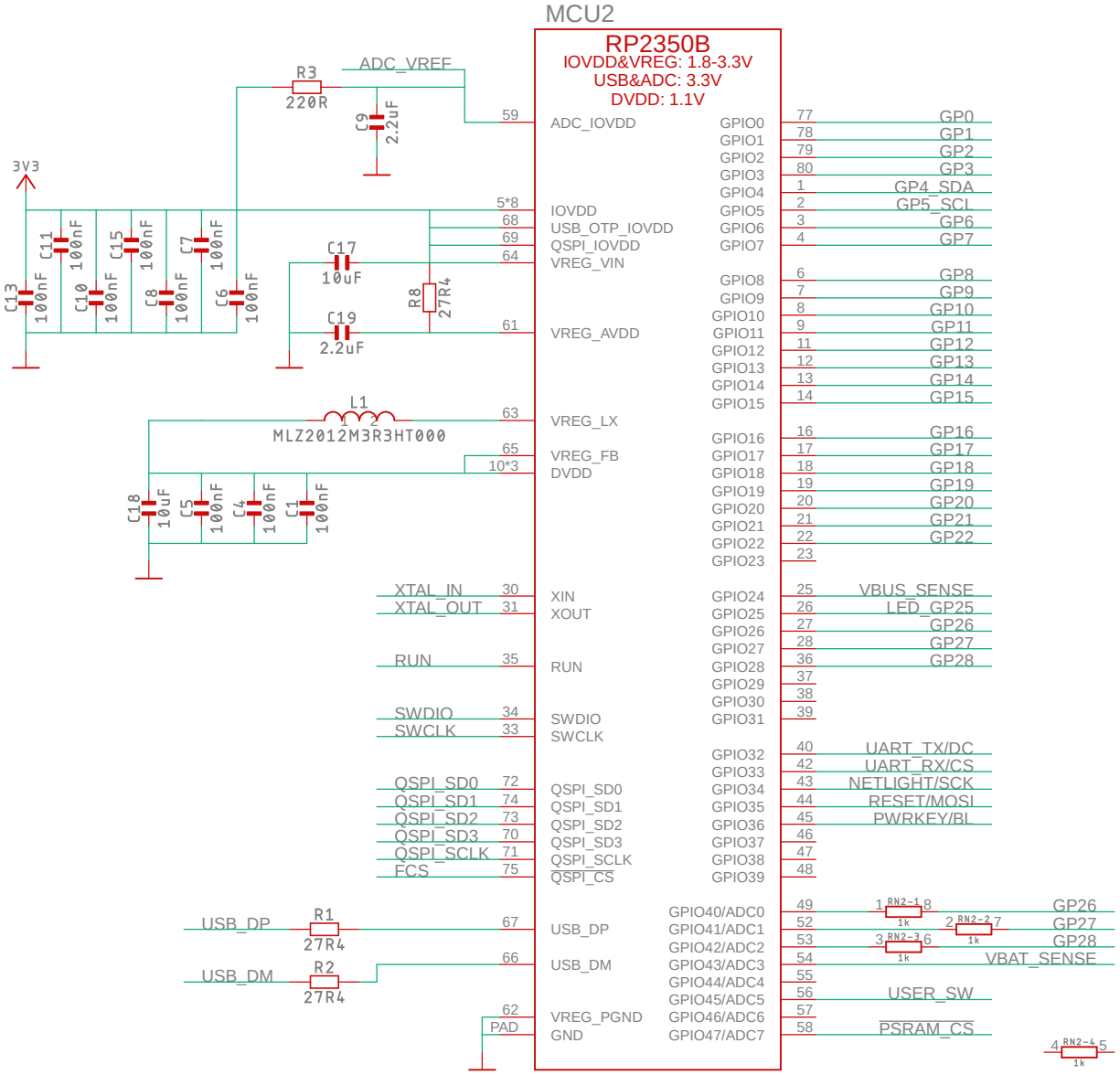
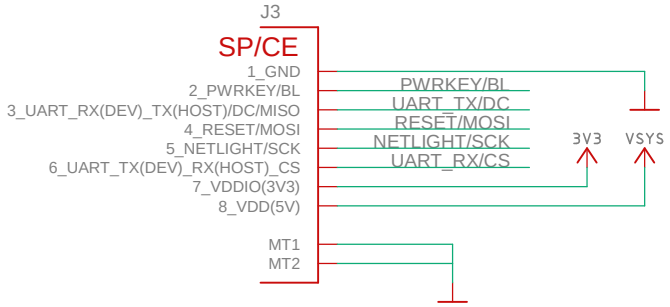
Pimoroni Pico LiPo 2 (PIM775)

RP2350B MCU

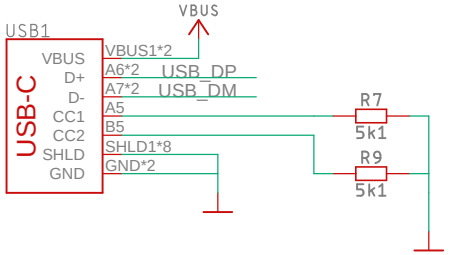


SP/CE Connector

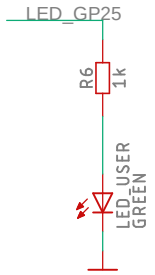


Pimoroni Pico LiPo 2 (PIM775)

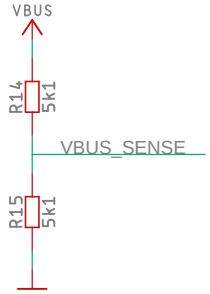
USB-C connector



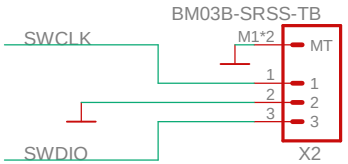
User LED



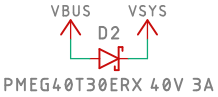
Vbus sense voltage divisor



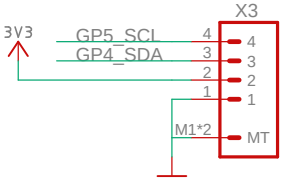
Debug connector



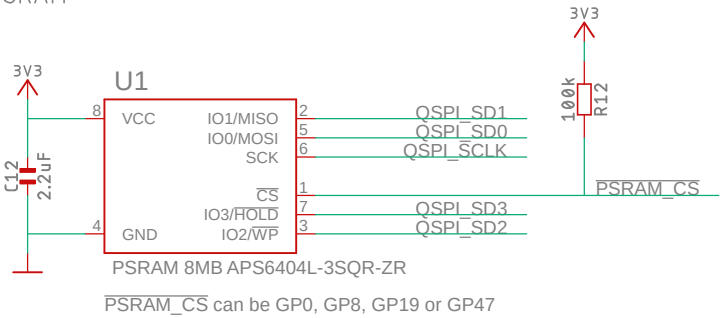
Vbus to Vsys diode connection



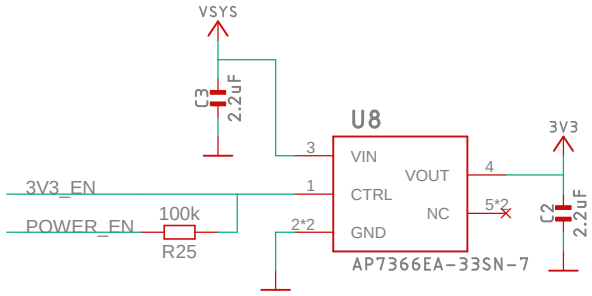
QW/ST connector



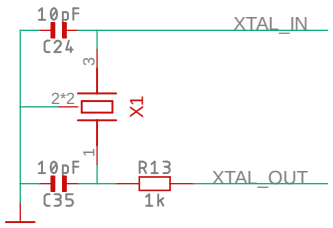
PSRAM



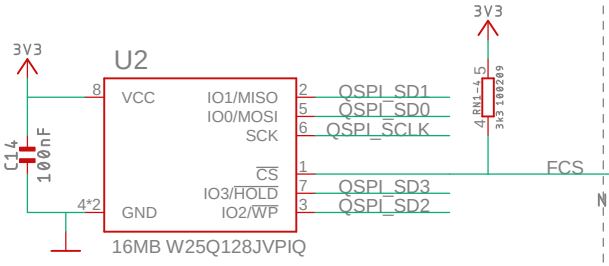
LDO for 3v3 output, low Iq



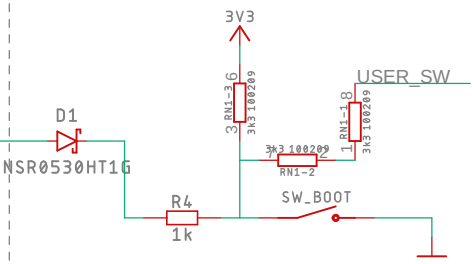
Crystal oscillator



Flash memory



Combined USB boot & user switch



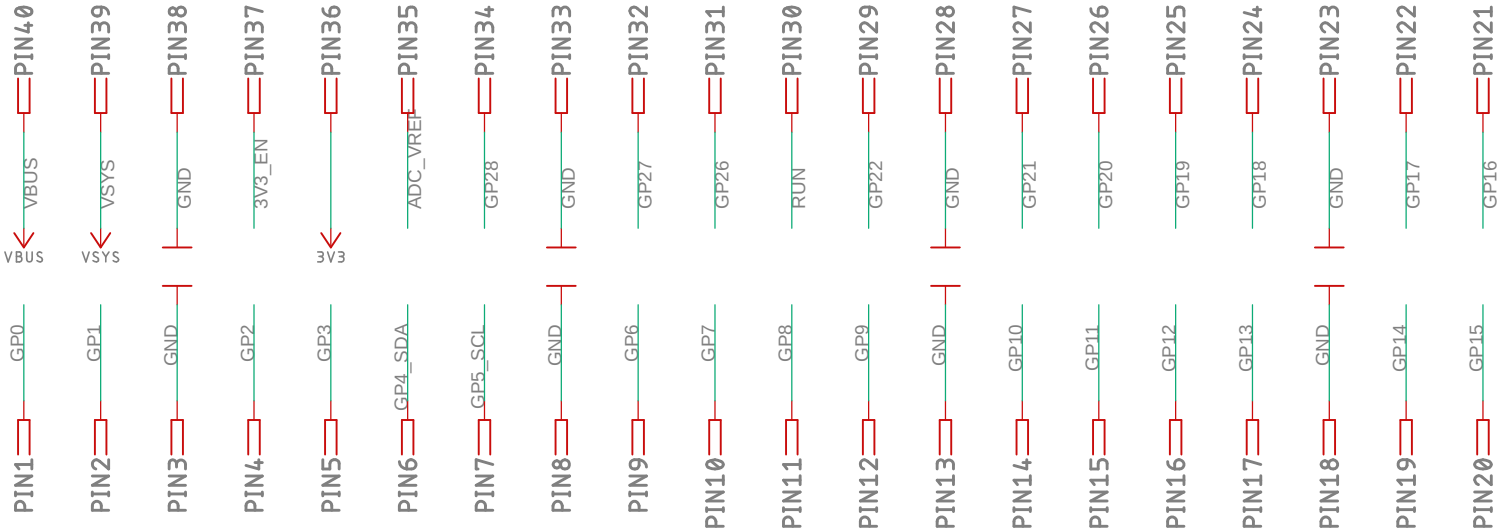
PIMORONI

DATE GENERATED 07/06/2025 21:11

SHEET 2/4

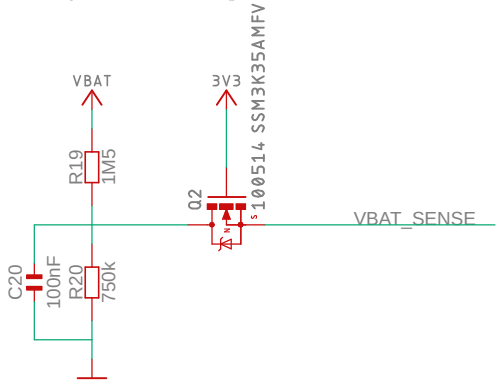
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Output headers



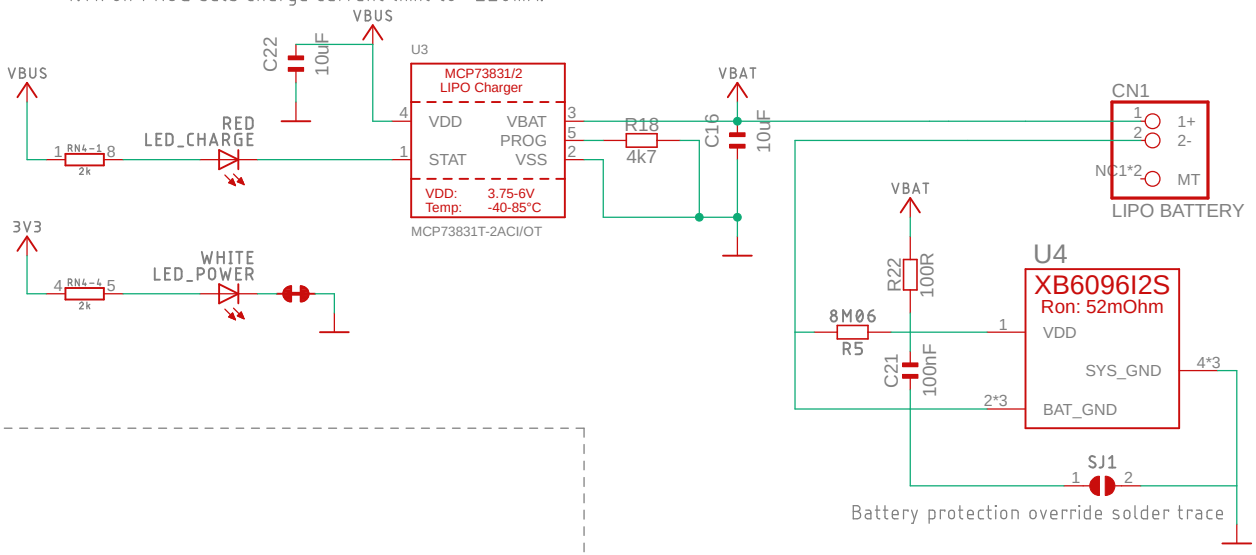
Pimoroni Pico LiPo 2 (PIM775)

Battery sense voltage divisor



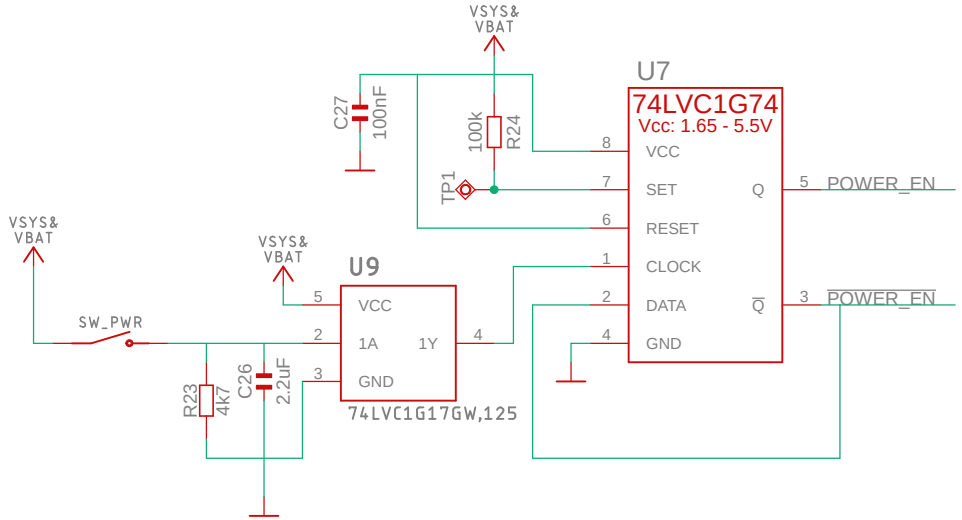
Lipo charger, protection and connector

4.7k on PROG sets charge current limit to ~220mA.

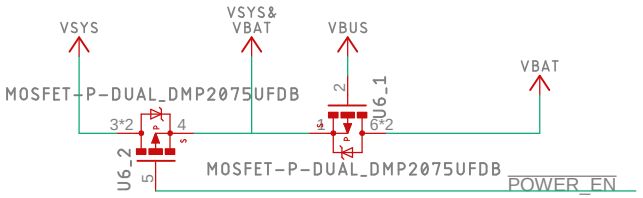


Power switch toggle circuit

R24 and the PCB capacitor slow down the SET rising slope enough compared to RESET that the chip reliably defaults to on at powerup



Vbat charge protection and power switch FET switches



Typical discharge power path resistance:
XB6096I2S: 52mOhm
DMP2075UFDB: 64mOhm

->

52 + 2*64 = 180mOhm
Voltage drop at 1A = 180mV