

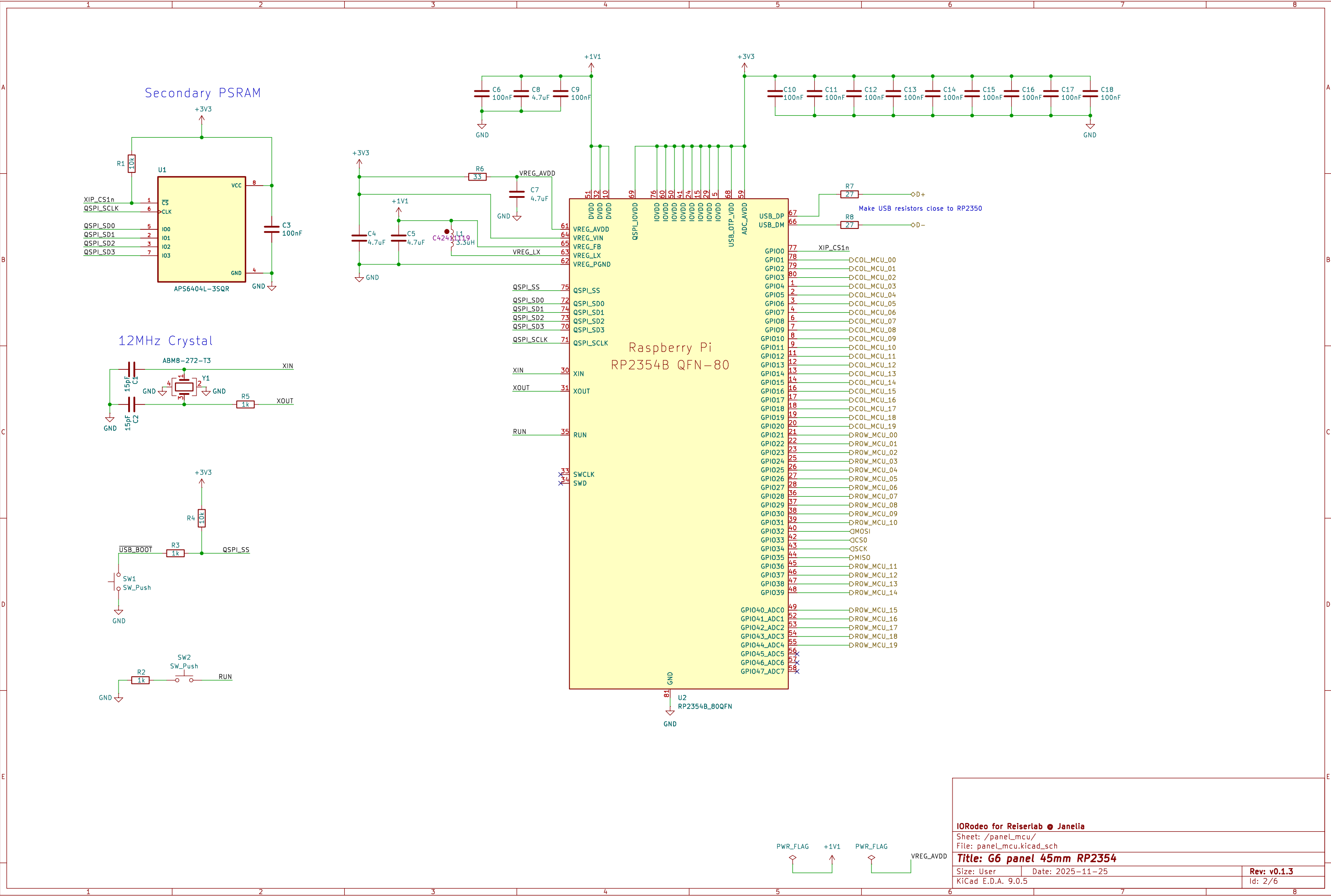
IORodeo for Reiserlab © Janelia

Sheet: /
File: panel_rp2354_20x20.kicad_sch

Title: G6 panel 45mm RP2354

Size: USLetter Date: 2025-11-25
KiCad E.D.A. 9.0.5

Rev: v0.1.3
Id: 1/6



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Sheet: /panel_mcu/
File: panel_mcu.kicad_sch

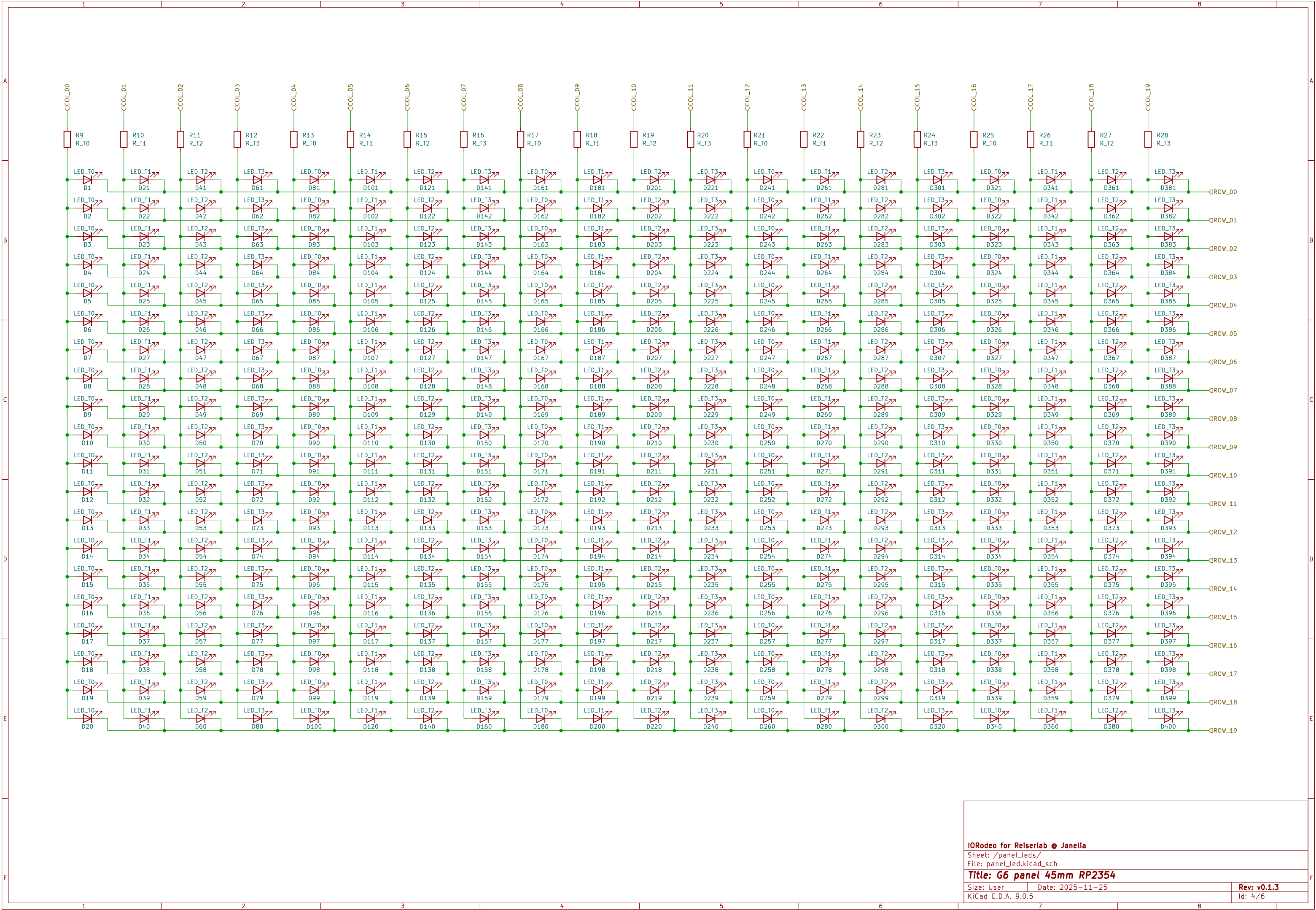
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Size: User Date: 2025-11-25

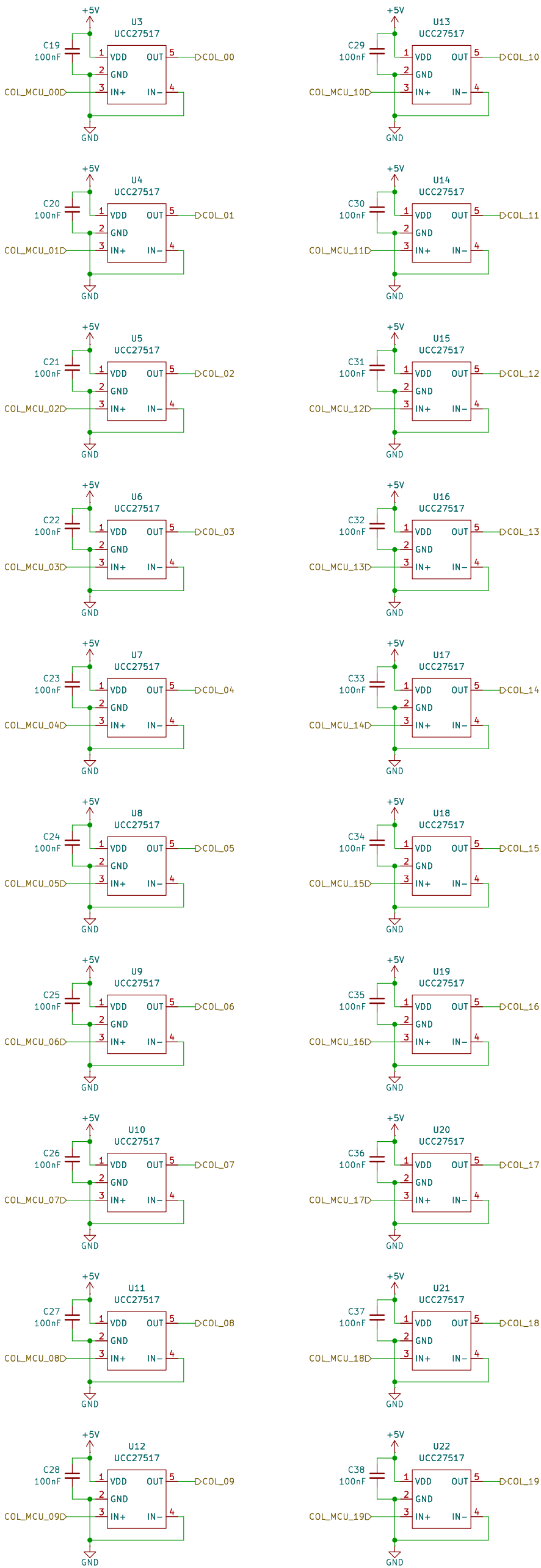
KiCad E.D.A. 9.0.5

Rev: v0.1.3

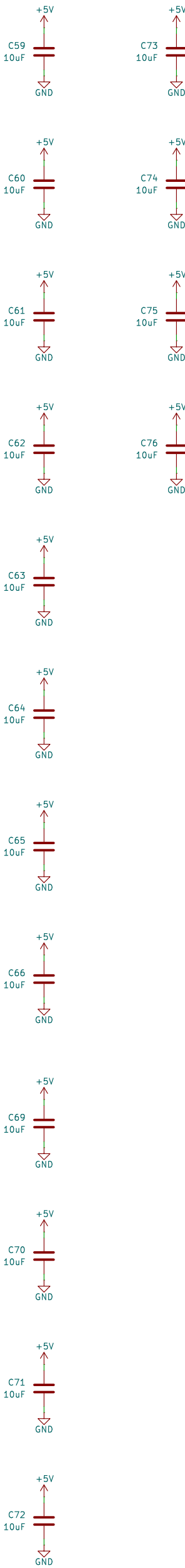
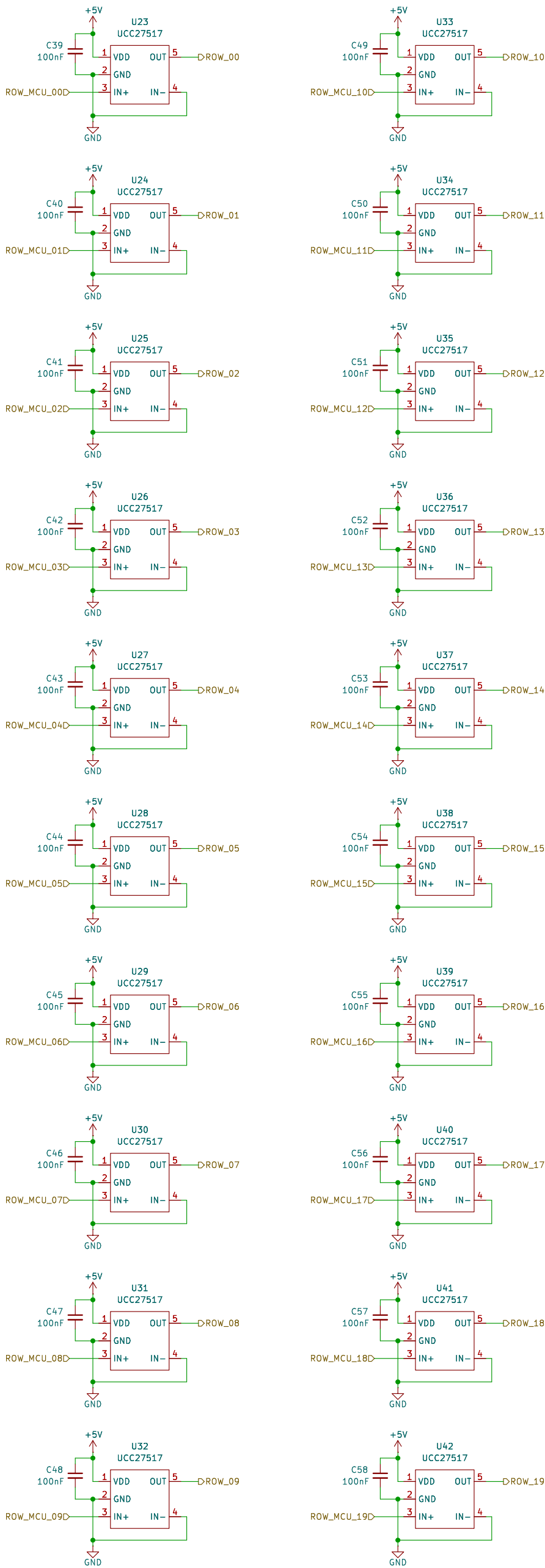
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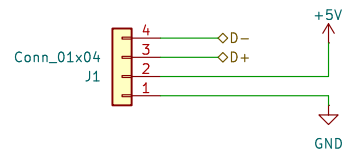
Column Drivers



Row Drivers



USB Connection JST-SH QWIIC/STEMMA-QT style connector

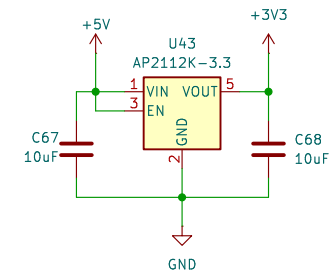


For connecting cable

USB to Grove
<https://shop.m5stack.com/products/connector-grove-to-usb-c>

Grove to JST-SH
<https://www.sparkfun.com/products/15109>

3.3V Regulator



3.3V Regulator
Manufacturer PN: AP2112K-3.3TRG1
LCSC PN: C51118
Digikey PN: AP2112K-3.3TRG1DICT-ND



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Sheet: /panel_usb_power/
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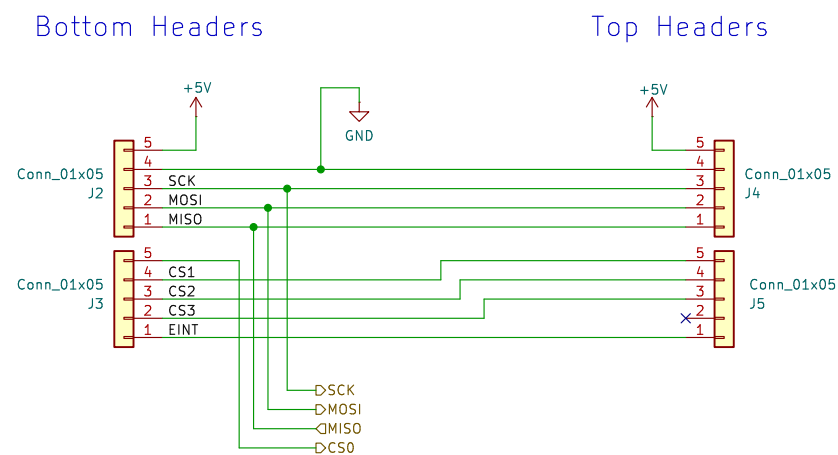
Title: G6 panel 45mm RP2354

Size: A4 Date: 2025-11-25

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Rev: v0.1.3

Id: 7/6



1x5 Pin Header

JLCPCB/LCSC
PN C7296801

Digikey PN: 952-M20-8890545RCT-ND
Manufacturer PN: M20-8890545R

Digikey PN: 952-3266-ND
Manufacturer PN: M20-8900505

LCSC for v0.1.3: C46061678
Manufacturer PN: HX PZ2.54-1x5P WT

1x5 Female Header

Digikey PN: SMH-105-02-T-S
Manufacturer PN: SMH-105-02-T-S

LCSC for v0.1.3: C5142238
Manufacturer PN: X6511FRS-05-C85D30

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Sheet: /panel_header/
File: panel_header.kicad_sch

Title: G6 panel 45mm RP2354

Size: A4	Date: 2025-11-25
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Size: A4	
KiCad E.D.A. 9.0.5	

Rev: v0.1.3

Id: 8/6