

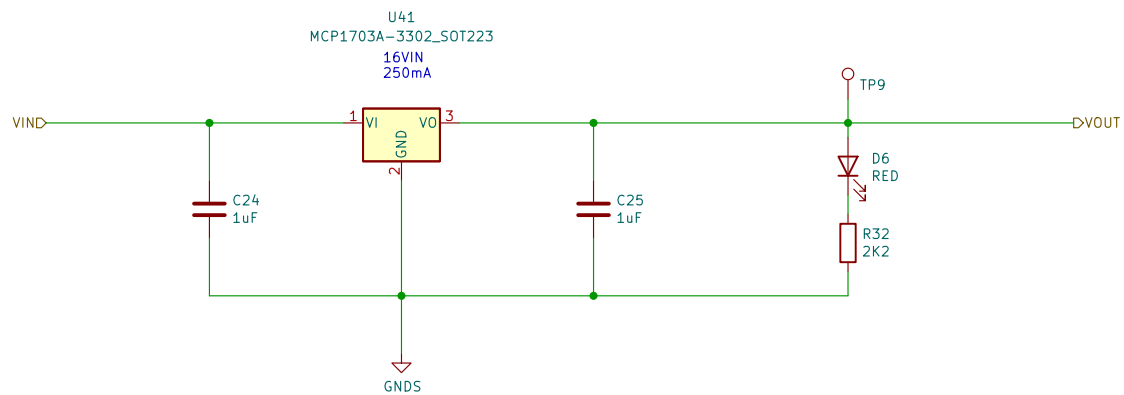
Created by C Sutton

Sheet: /MCU/10PinARMSWD/
File: 10PinARMSWD.kicad_sch

Title: Debug Connector

Size: A4 Date: 2021-06-05
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1

Rev: B
Id: 2/46



Created by C Sutton

Sheet: /PSU/2_42Inch_OLED_LDO/

File: 2_42Inch_OLED_LDO.kicad_sch

Title: PSU - LDO 3.3V @ 250mA

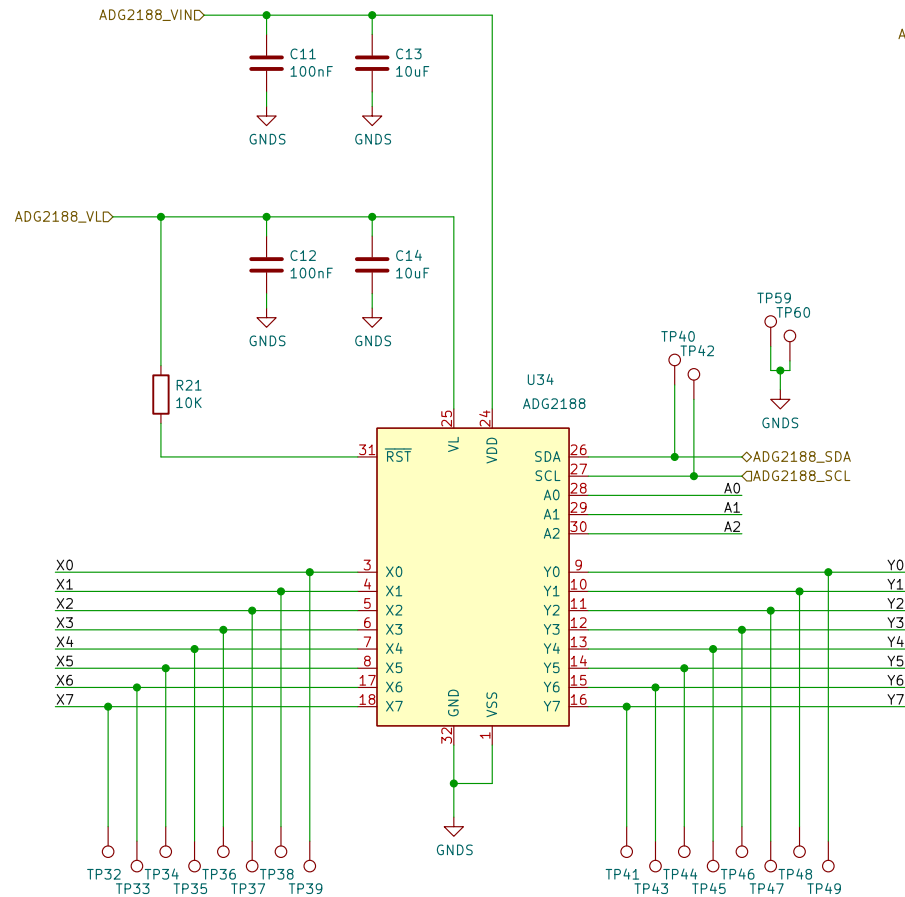
Size: A4

Date: 2021-06-05

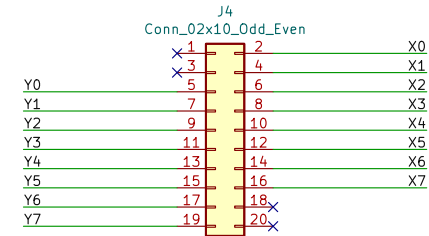
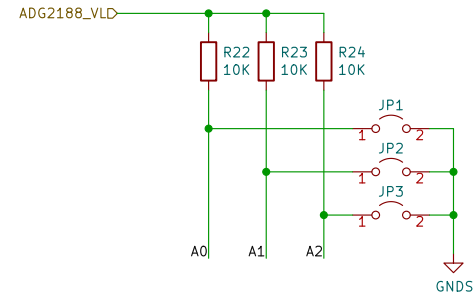
Rev: B

KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1

Id: 3/46



The ADG2188 has a 7-bit slave address. The four MSBs are hard coded to 1110, and the three LSBs are determined by the state of Pin A0, Pin A1, and Pin A2.



Created by C Sutton

Sheet: /CrossPoint Output Switching/
File: SequencerOutputs.kicad_sch

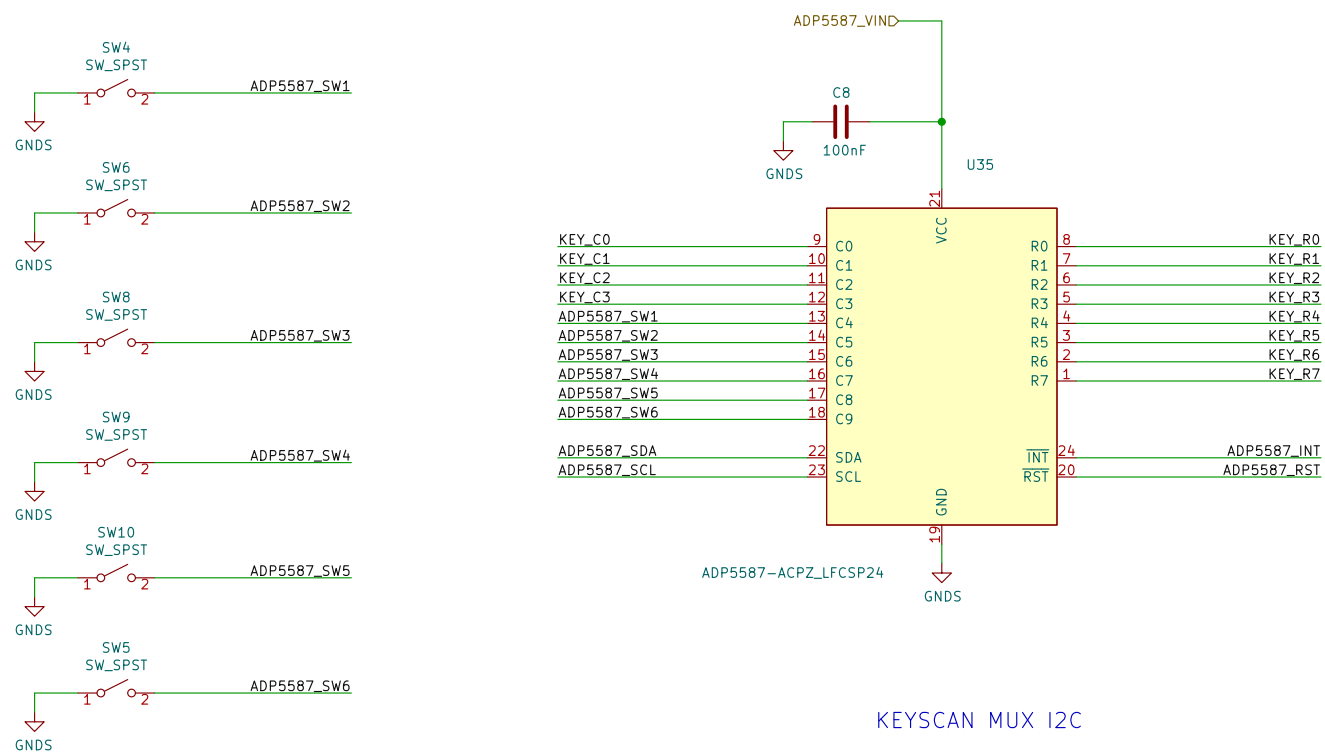
Title: Crosspoint Keyboard Switching

Size: A4 Date: 2021-06-05
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1

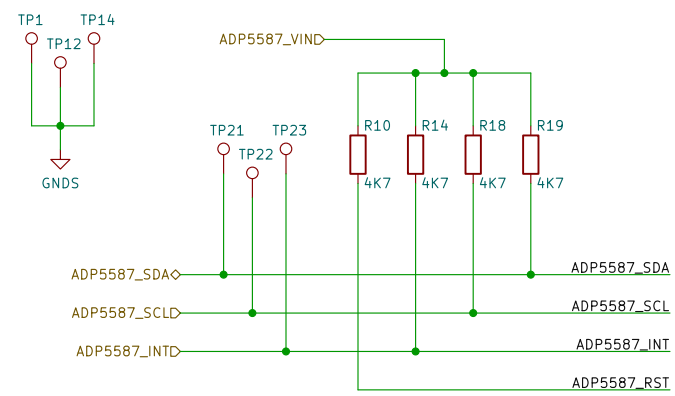
Rev: B
Id: 4/46

Rev: B
Id: 5/46

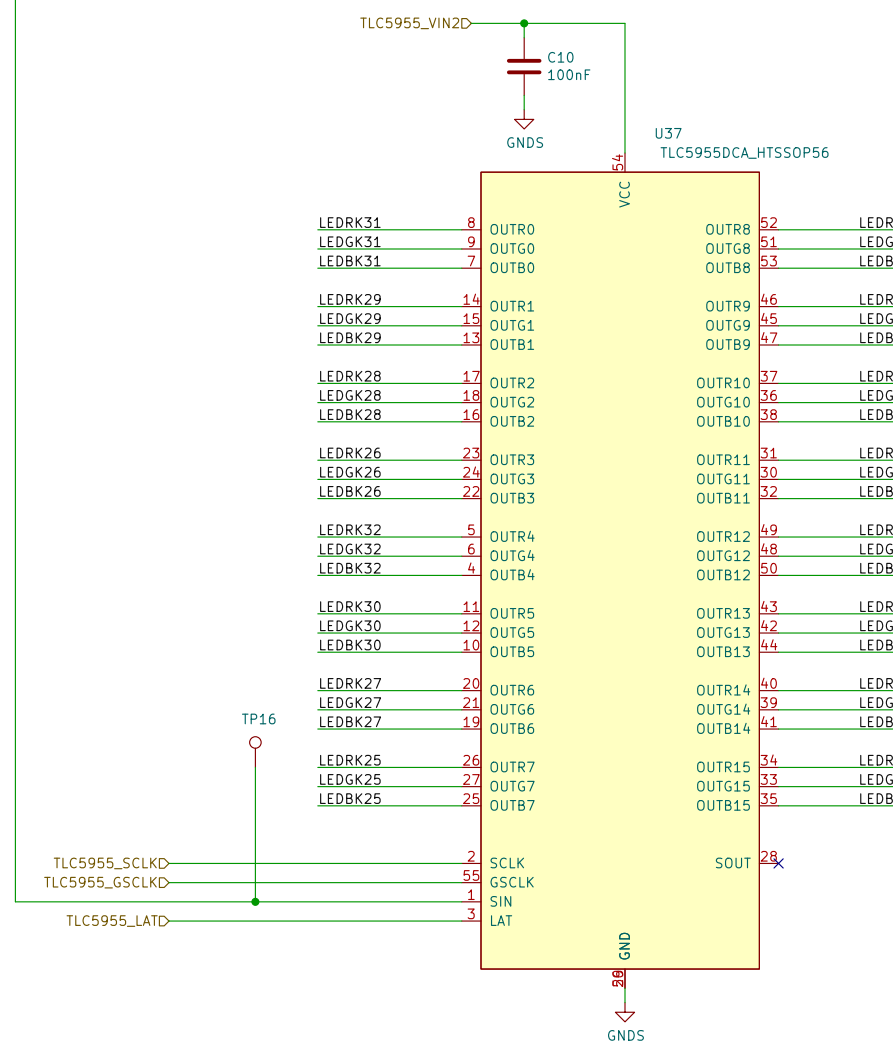
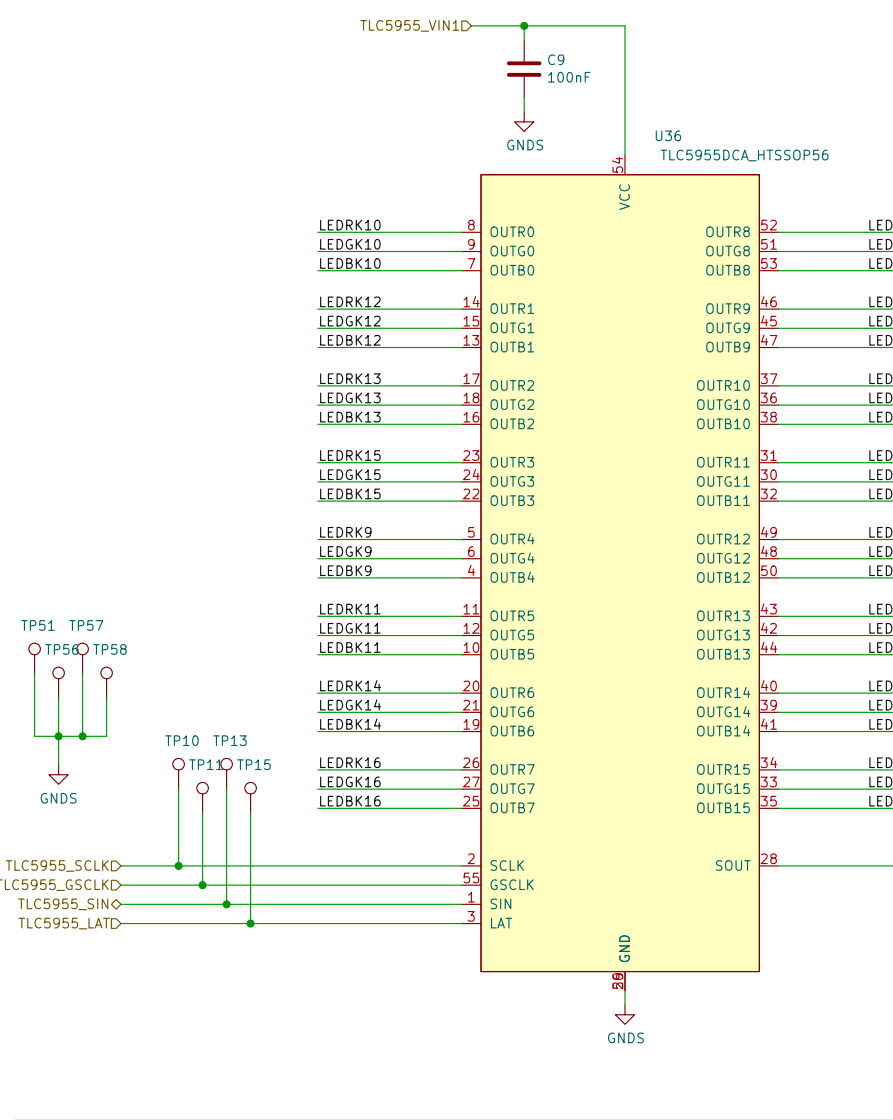
KEYSCAN MUX IC



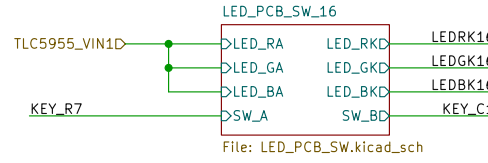
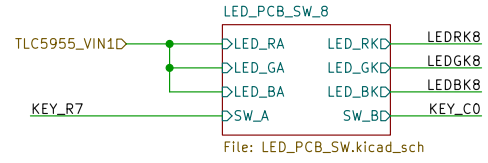
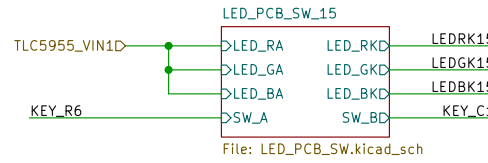
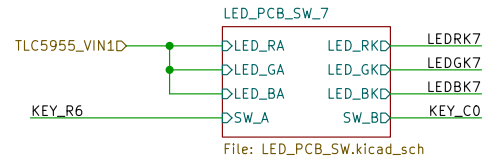
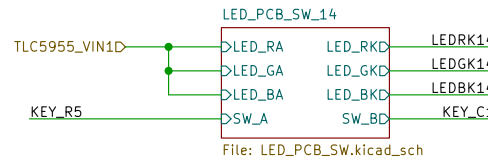
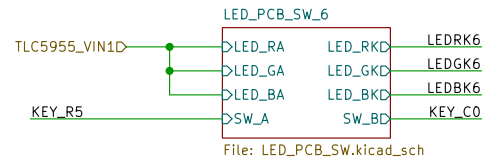
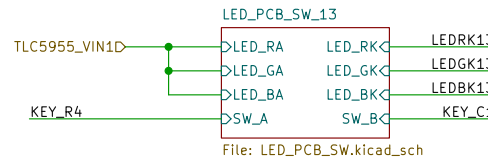
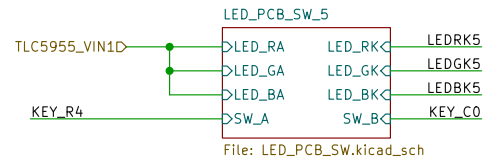
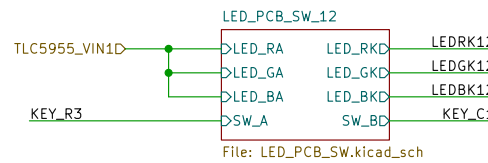
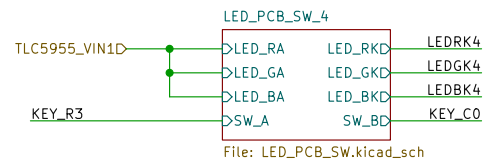
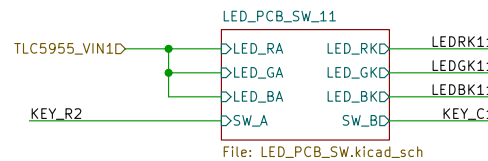
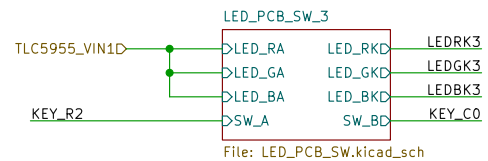
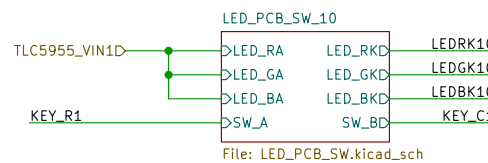
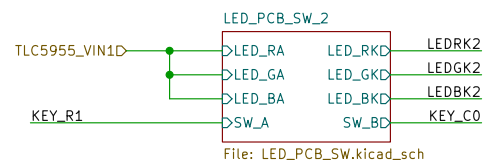
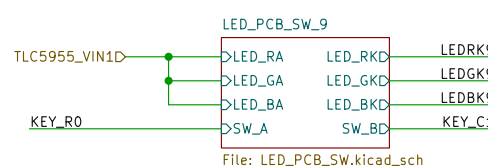
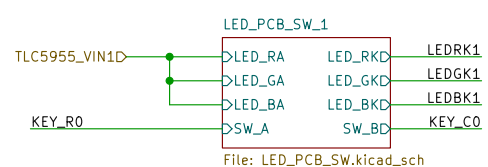
KEYSCAN MUX I2C



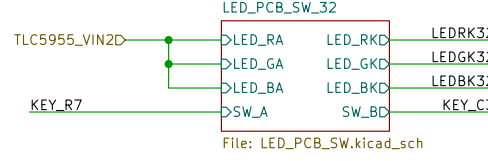
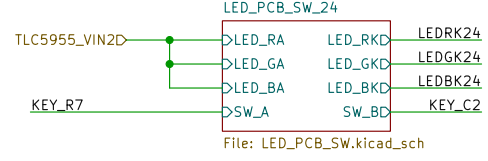
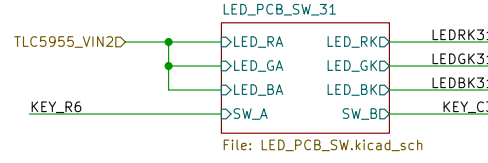
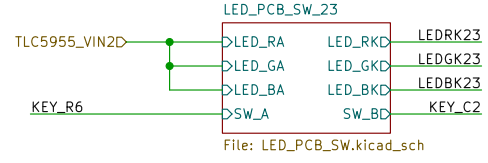
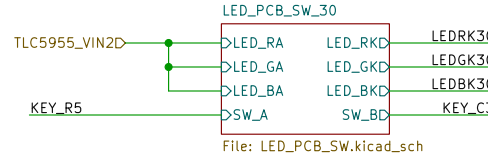
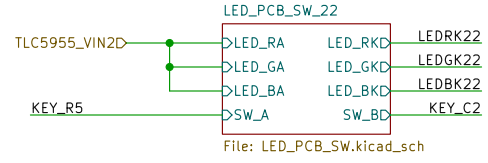
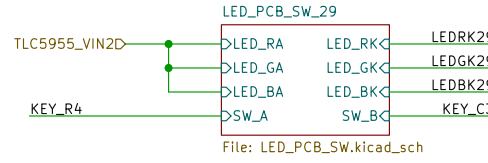
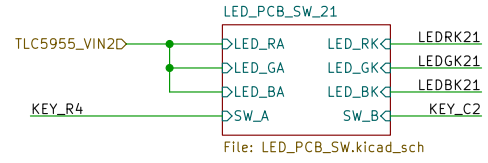
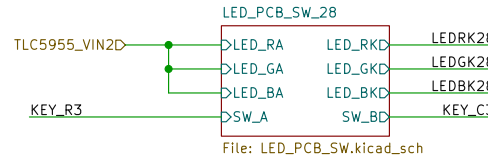
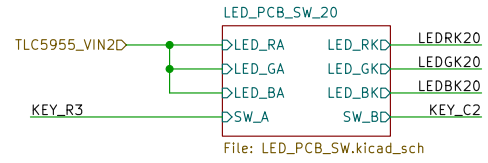
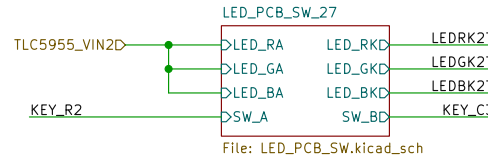
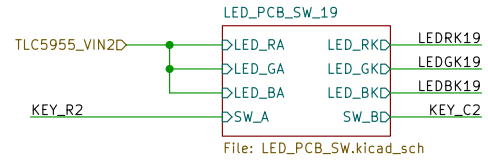
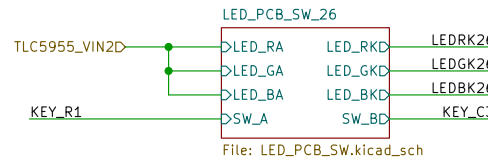
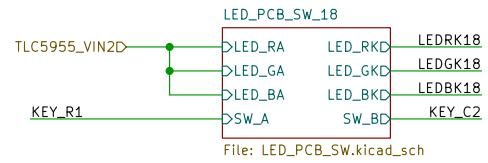
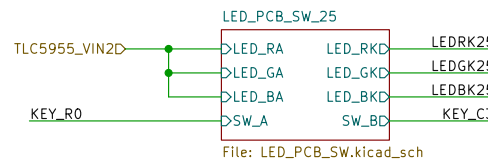
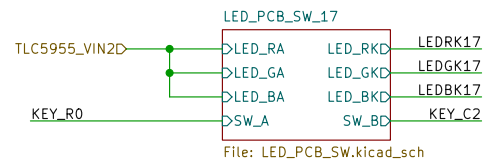
RGB LED DRIVERS



INPUT KEYS AND RGB LED MATRIX – 1x16 – BOTTOM ROW



INPUT KEYS AND RGB LED MATRIX – 1x16 – TOP ROW



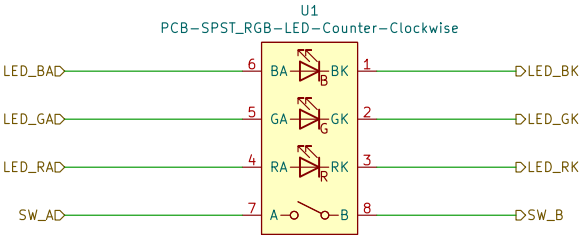
Designed by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/
File: SequencerInputs.kicad_sch

Title: Input Keyscan and RGB LED Driver

Size: A2 Date: 2021-06-05 Rev: B

KiCad E.O.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1 Id: 6/46

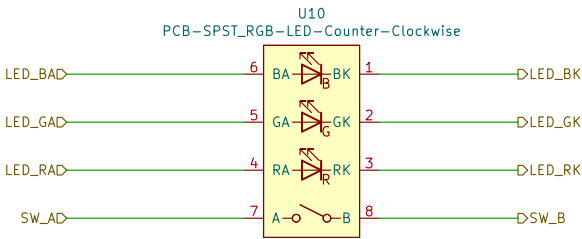


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_1/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 7/46

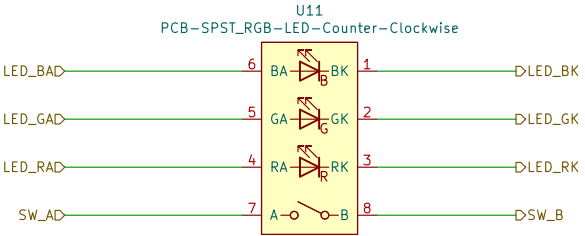


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_10/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 8/46

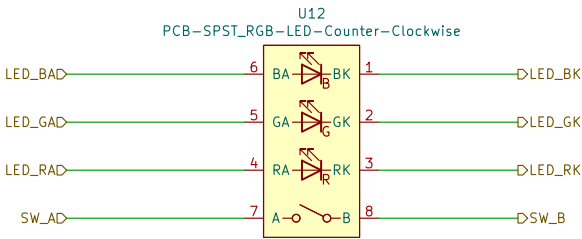


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_11/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 9/46

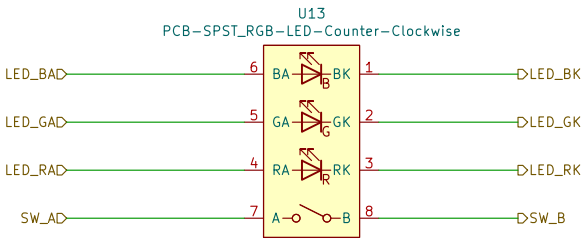


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_12/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 10/46

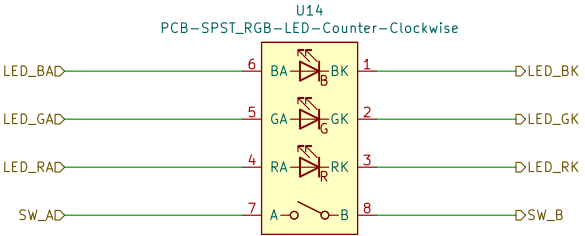


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_13/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 11/46

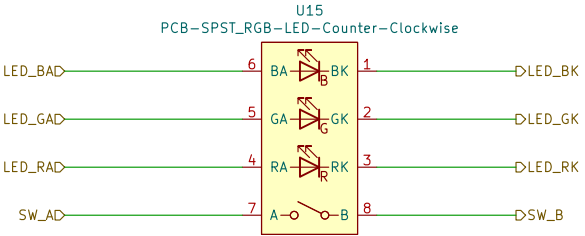


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_14/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 12/46

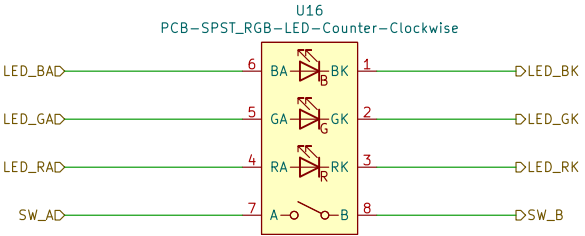


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_15/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 13/46

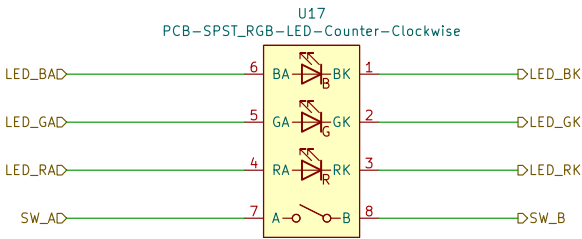


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_16/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 14/46

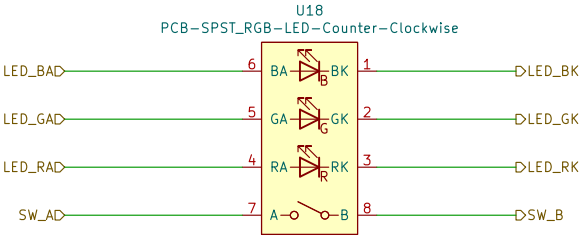


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_17/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 15/46

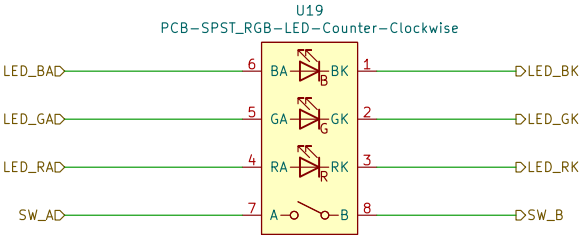


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_18/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 16/46

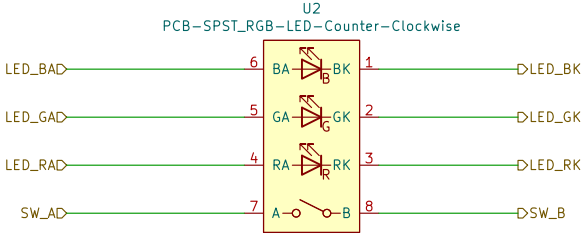


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_19/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 17/46

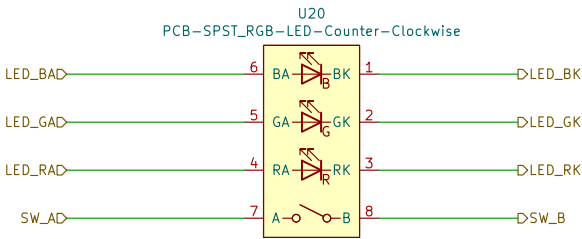


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_2/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 18/46

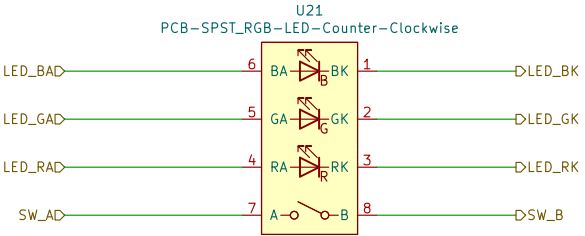


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_20/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 19/46

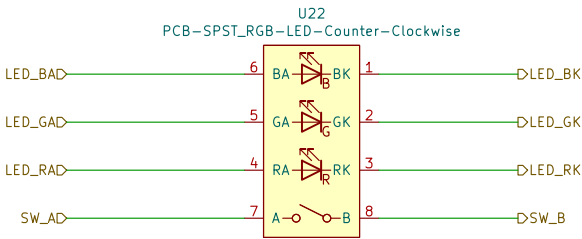


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_21/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 20/46

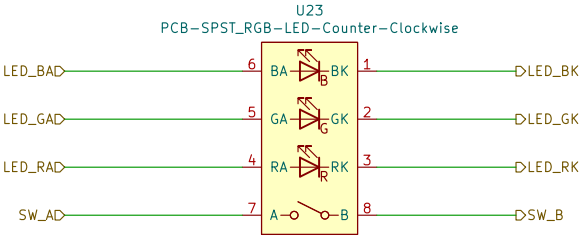


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_22/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 21/46

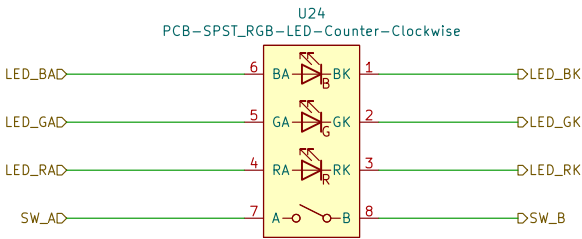


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_23/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 22/46

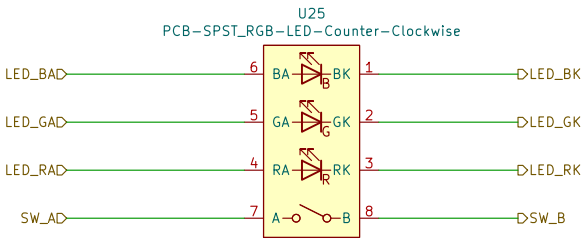


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_24/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 23/46

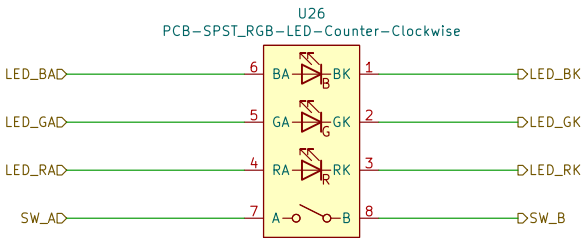


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_25/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 24/46

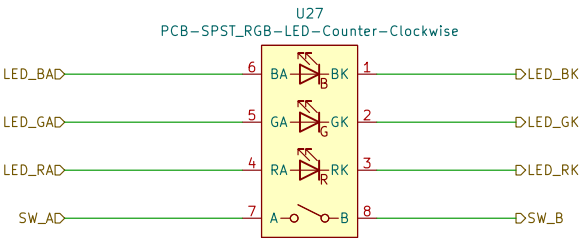


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_26/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 25/46

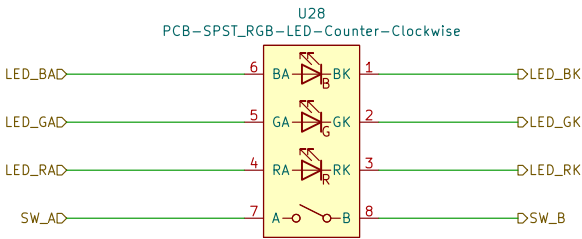


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_27/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 26/46

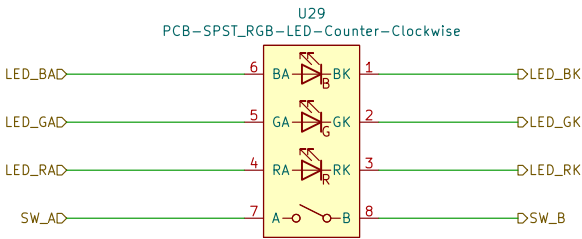


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_28/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 27/46

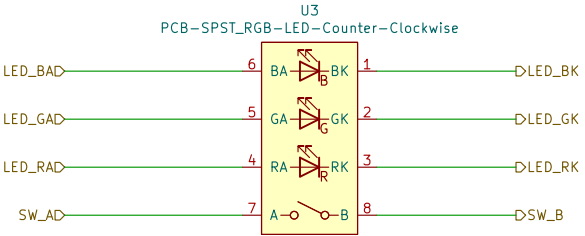


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_29/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 28/46

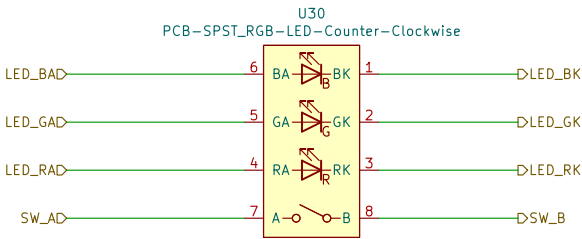


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_3/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 29/46

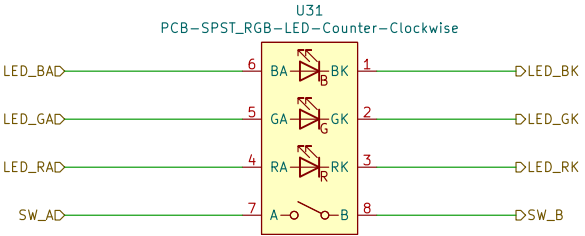


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_30/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 30/46

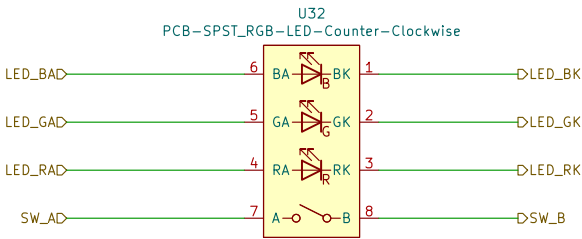


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_31/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 31/46

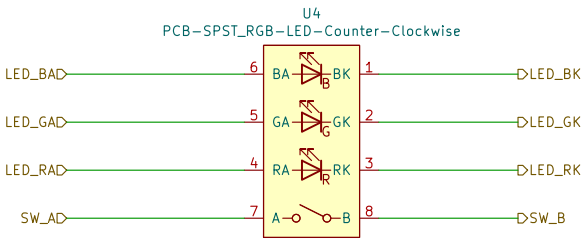


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_32/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 32/46

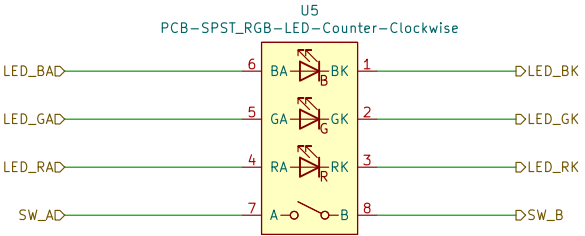


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_4/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 33/46

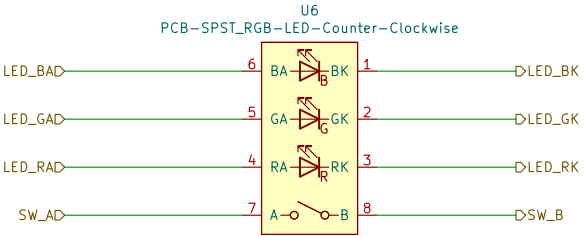


Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_5/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 34/46

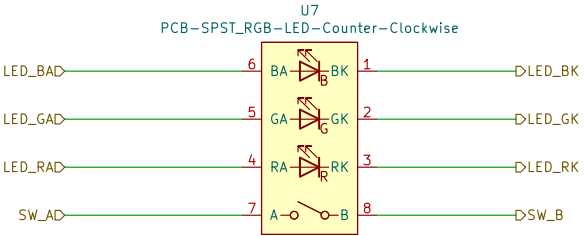


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Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_6/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 35/46

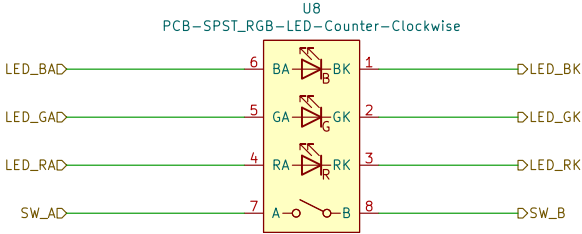


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Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_7/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 36/46

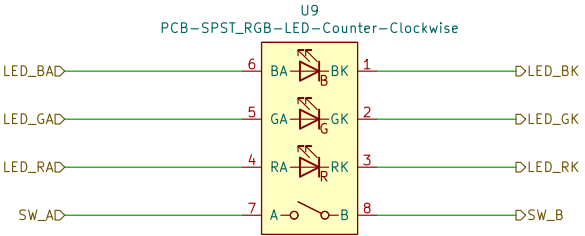


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Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_8/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 37/46

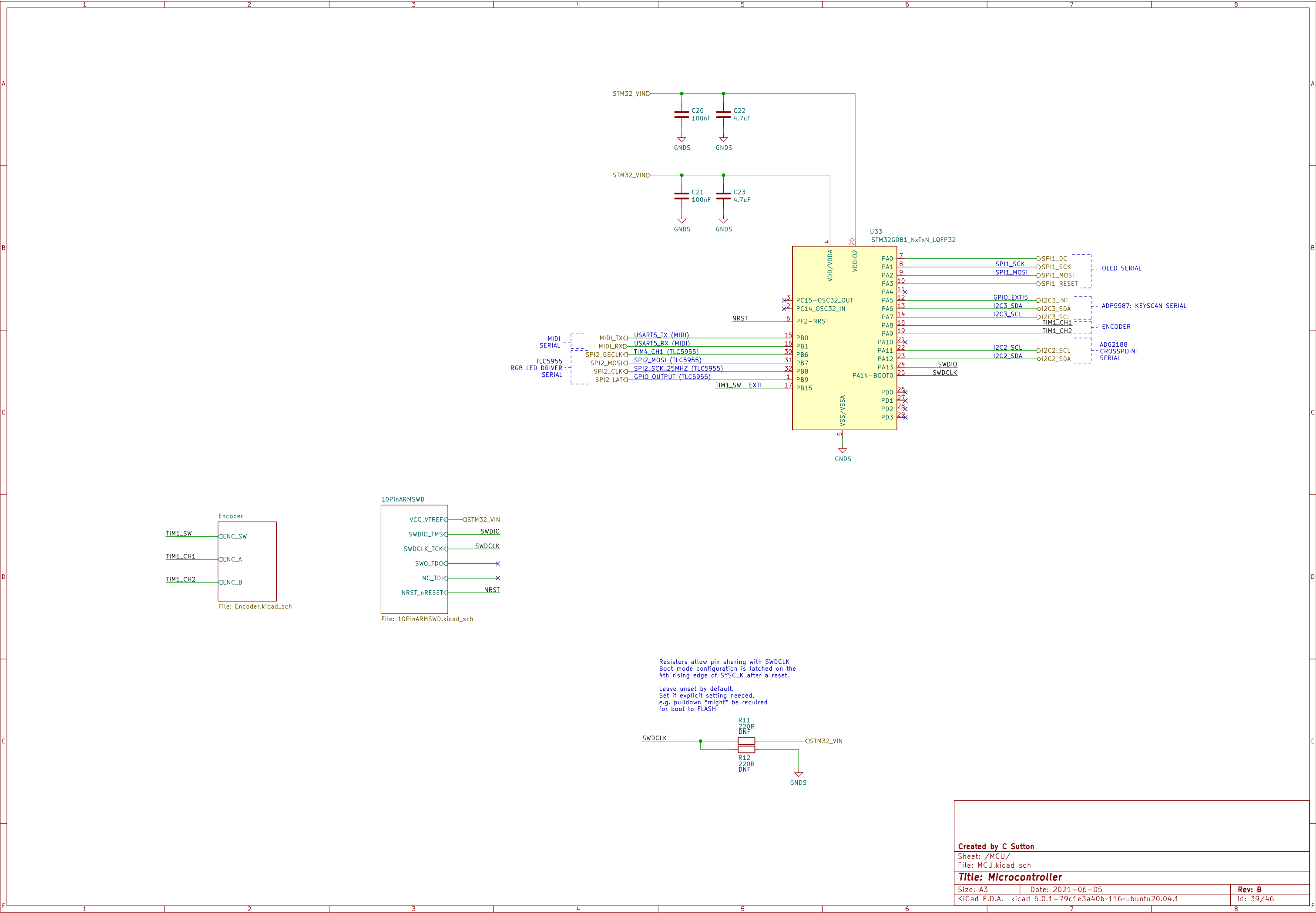


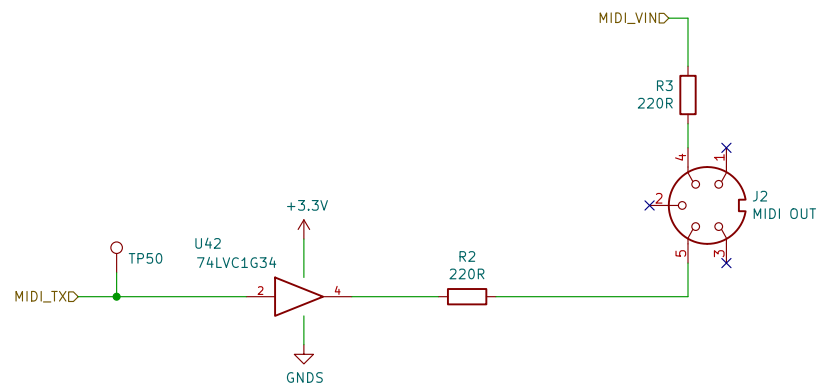
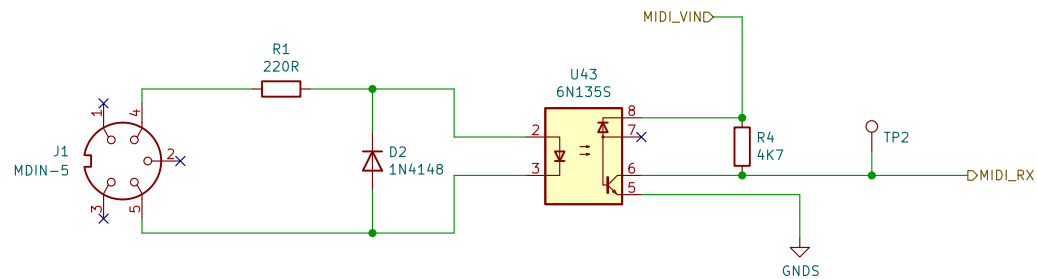
Created by C Sutton

Sheet: /Input Keyscan and RGB LED Driver/LED_PCB_SW_9/
File: LED_PCB_SW.kicad_sch

Title: Combined RGB LED and SPST

Size: A4	Date: 2021-06-05	Rev: B
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1		Id: 38/46





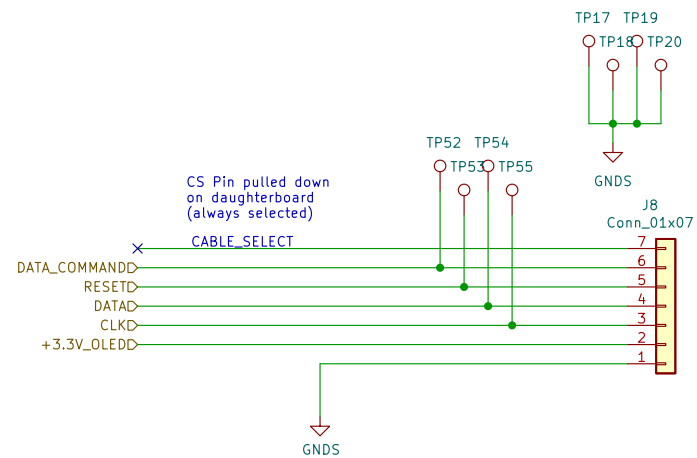
Created by C Sutton

Sheet: /MIDI Interface/
File: MIDI.kicad_sch

Title: MIDI Interface

Size: A4 Date: 2021-06-05
KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1

Rev: B
Id: 40/46



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Sheet: /OLED_Display/

File: OLED_Display.kicad_sch

Title: 2.42" SSD1309 OLED Display Module

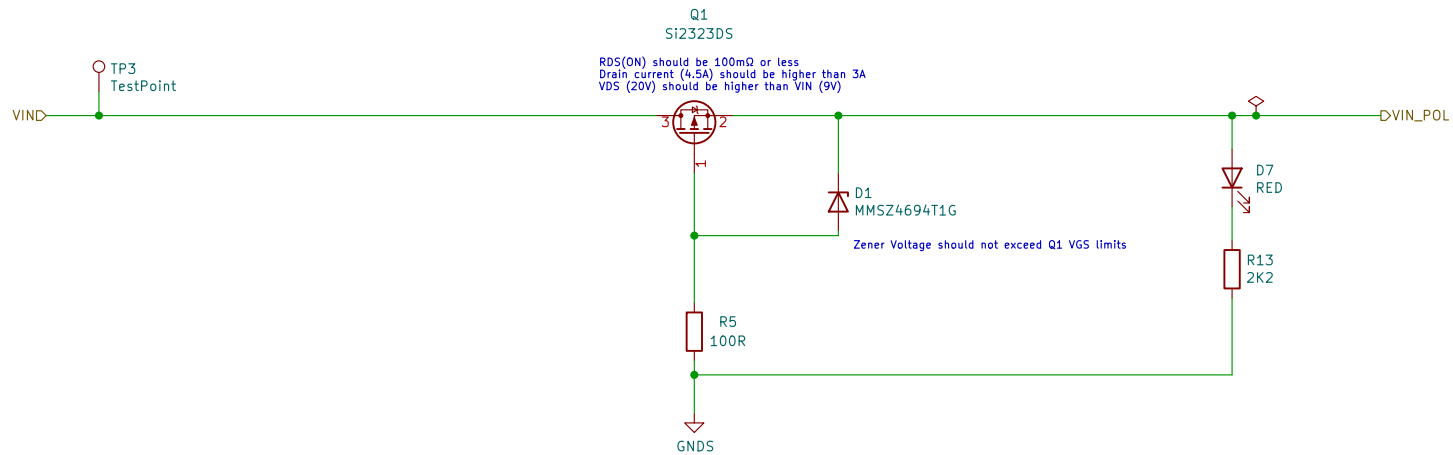
Size: A4

Date: 2021-06-05

Rev: B

KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1

Id: 41/46



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Sheet: /PSU/PMOSReversePolarityProtection/
File: PMOSReversePolarityProtection.kicad_sch

Title: PSU – Polarity Protection

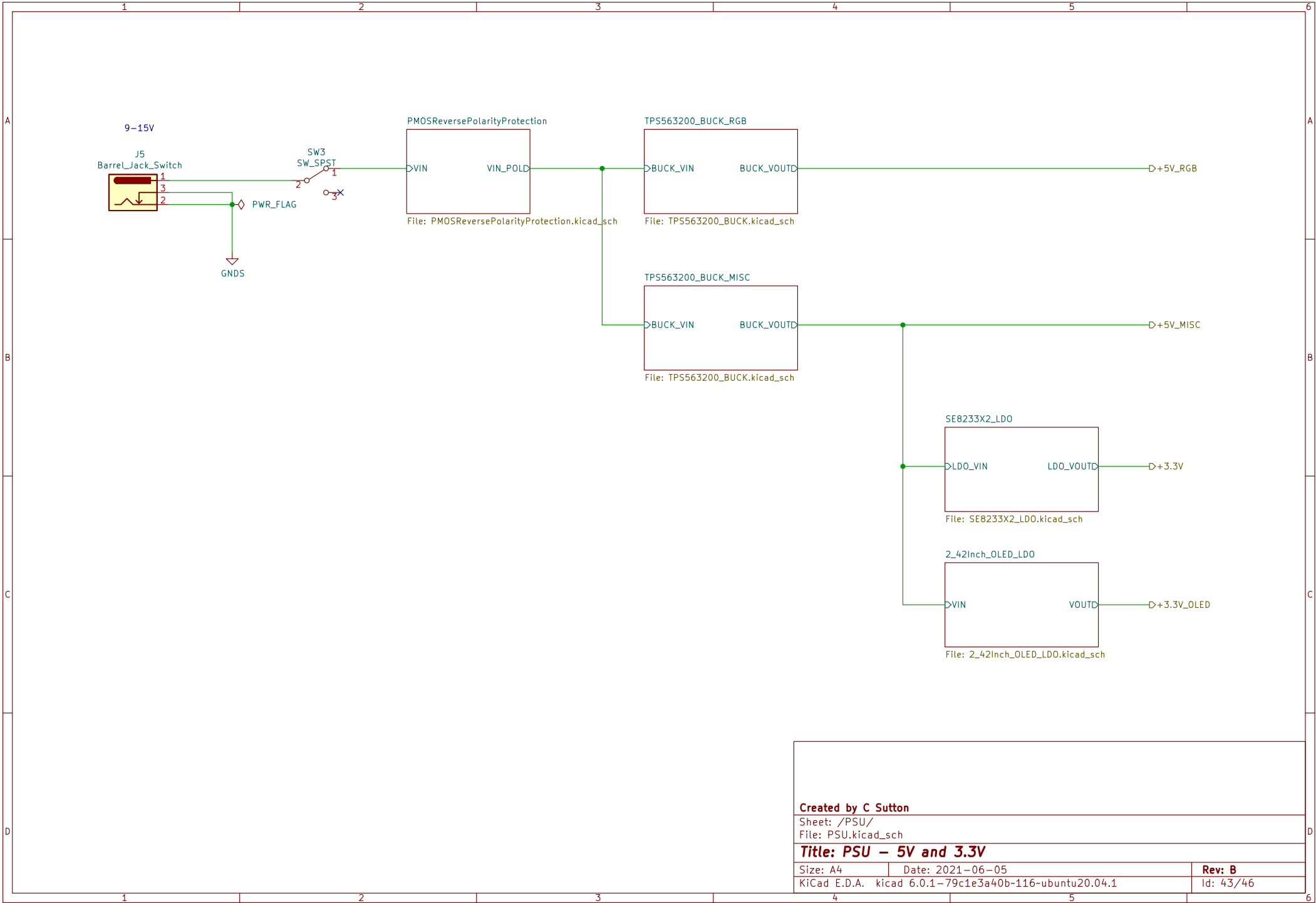
Size: A4

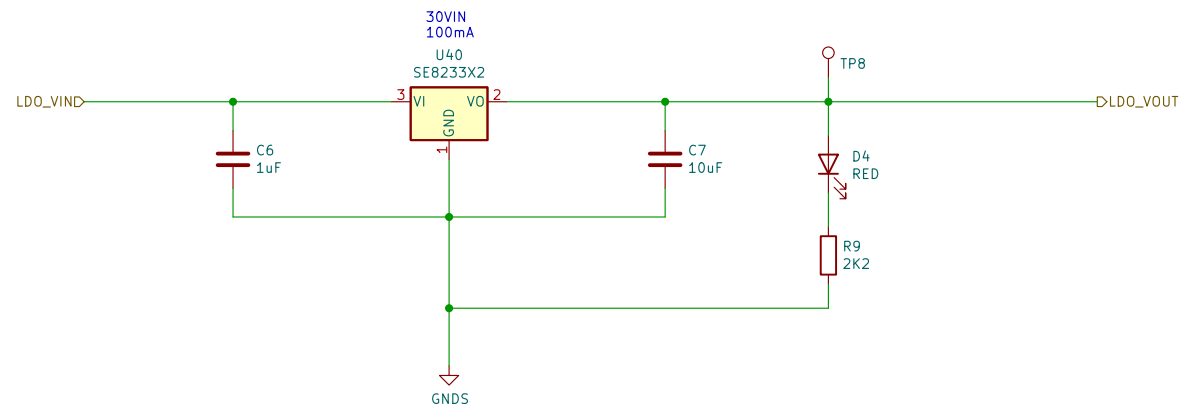
Date: 2021-06-05

Rev: B

KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1

Id: 42/46





Created by C Sutton

Sheet: /PSU/SE8233X2_LDO/

File: SE8233X2_LDO.kicad_sch

Title: PSU – LDO 3.3V @ 100mA

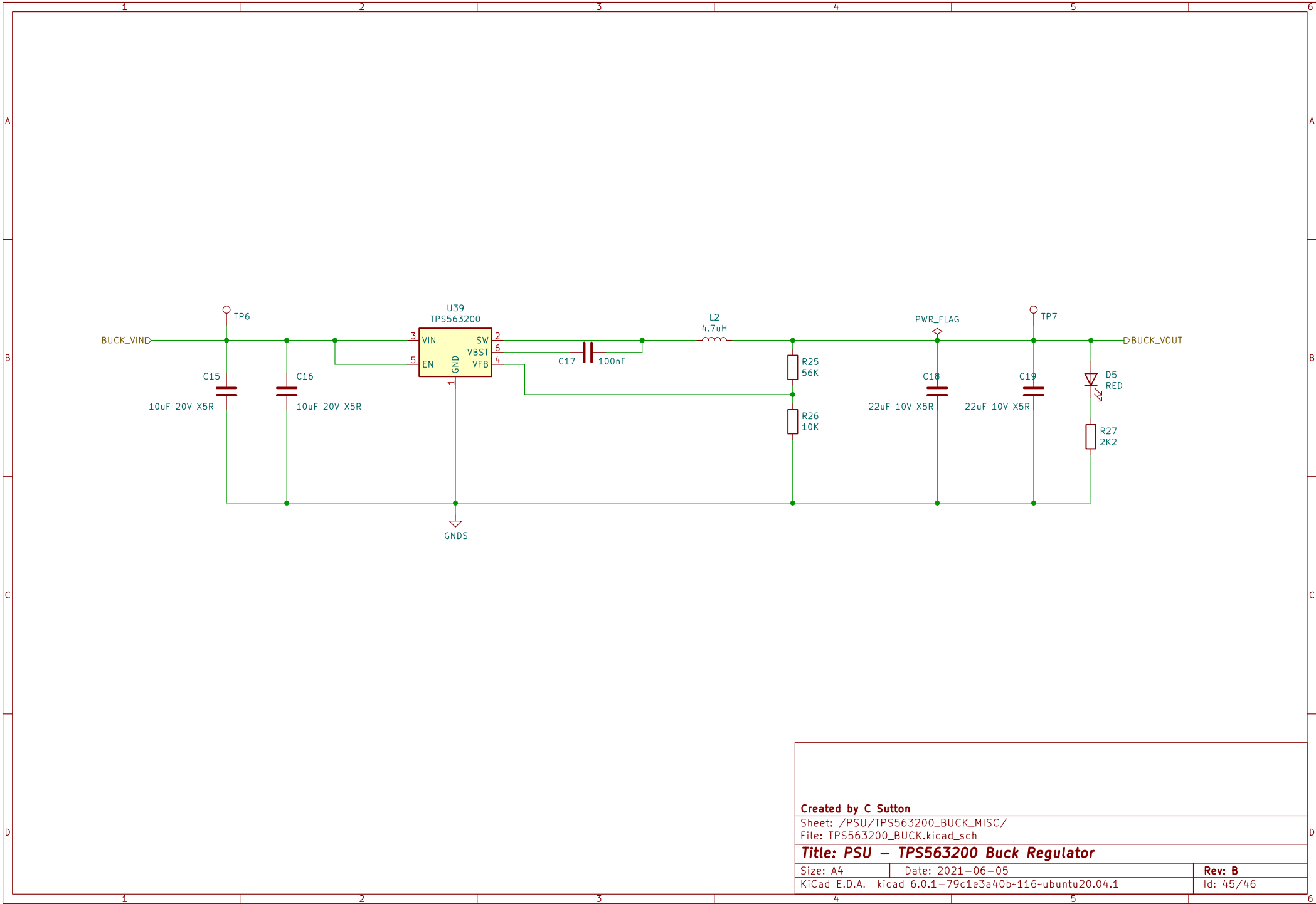
Size: A4

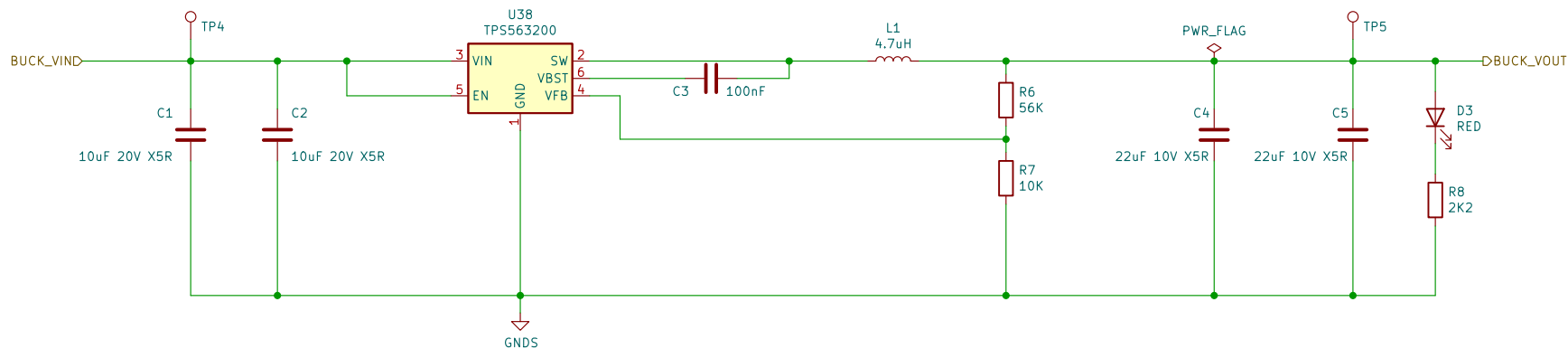
Date: 2021-06-05

Rev: B

KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1

Id: 44/46





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Sheet: /PSU/TPS563200_BUCK_RGB/

File: TPS563200_BUCK.kicad_sch

Title: PSU – TPS563200 Buck Regulator

Size: A4

Date: 2021-06-05

Rev: B

KiCad E.D.A. kicad 6.0.1-79c1e3a40b-116-ubuntu20.04.1

Id: 46/46