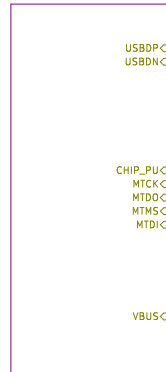
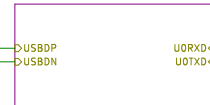


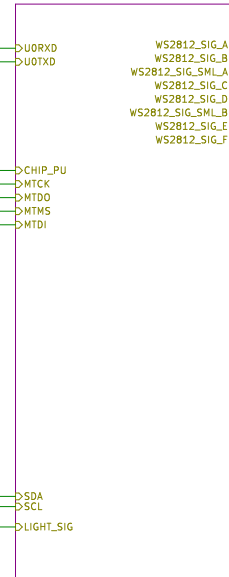
Connectors



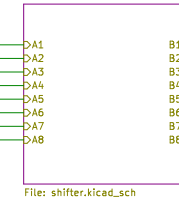
USB-to-UART



Microcontroller



Level Shifter



LED_Array_1



LED_Array_2



LED_Array_Small1



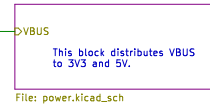
LED_Array_3



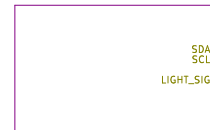
LED_Array_4



Power Management



Sensors



- H21 MountingHole
- H22 MountingHole
- H23 MountingHole
- H24 MountingHole

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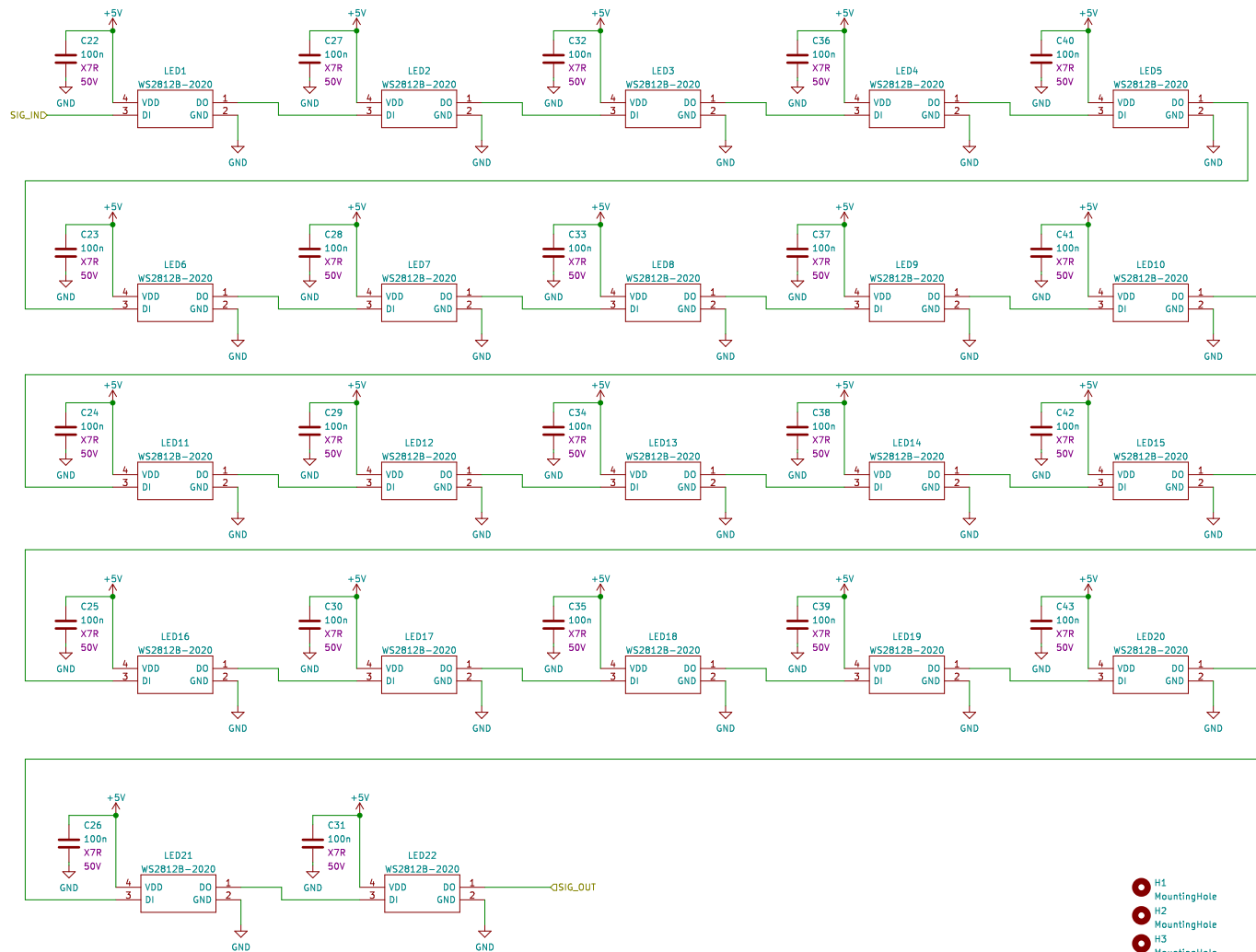
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Sheet: /
File: masa.kicad_sch

Title: Masa

Size: A3 Date: 2022-12-23
KiCad E.D.A. kicad (6.0.0)

Rev: A
Id: 1/12



- H1 MountingHole
- H2 MountingHole
- H3 MountingHole
- H4 MountingHole

Varying pitch in x and y for initial test prototype.

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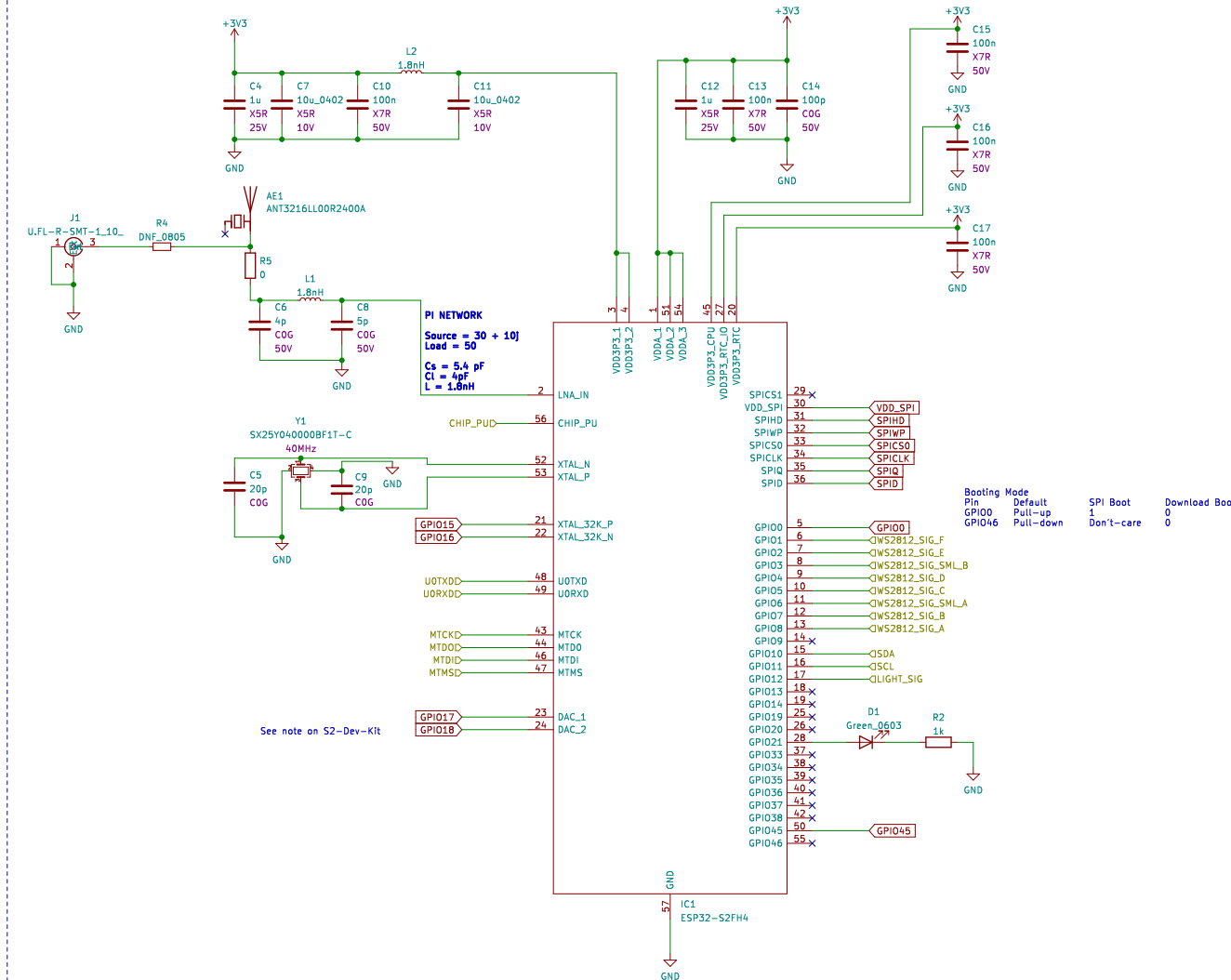
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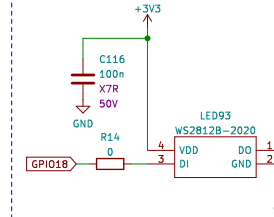
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Rev: A
 Id: 2/12

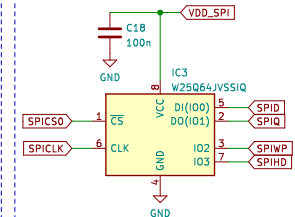
MICROCONTROLLER



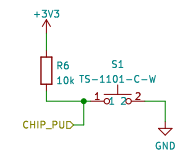
LED



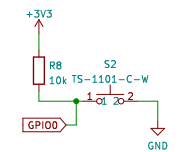
FLASH



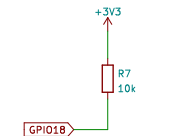
RESET



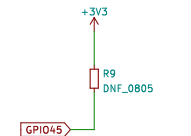
STRAPPING PIN



BOOT STABILITY



PRINT LOG

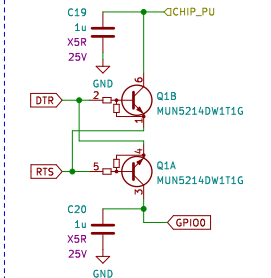


R25 is mounted when U4 PN is ESP32-S2-SOLO or ESP32-S2-SOLO-U;

Enabling/Disabling ROM Messages Print During Booting

R25 is NC when U4 PN is ESP32-S2-SOLO-2 or ESP32-S2-SOLO-2U.

AUTO PROGRAM



eT

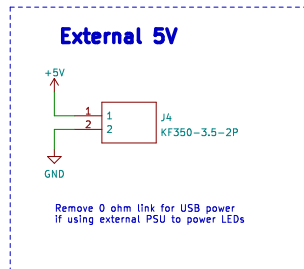
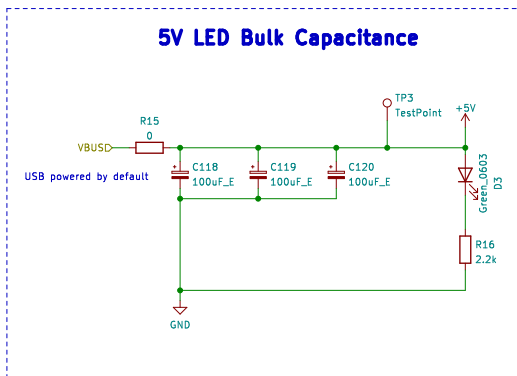
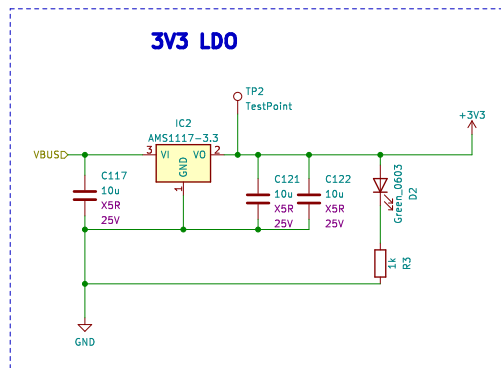
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 File: microcontroller.kicad_sch

Title: Masa

Size: A3 Date: 2022-12-23
 KiCad E.D.A. kicad (6.0.0)

Rev: A
 Id: 3/12



eT

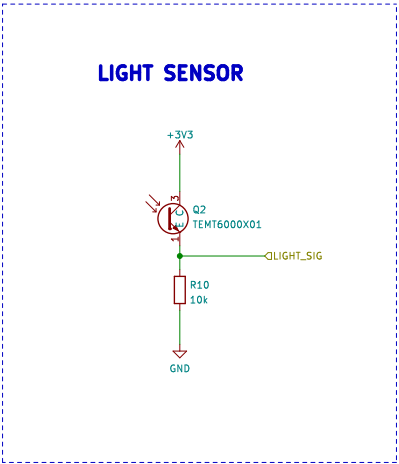
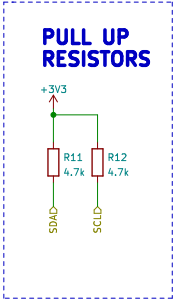
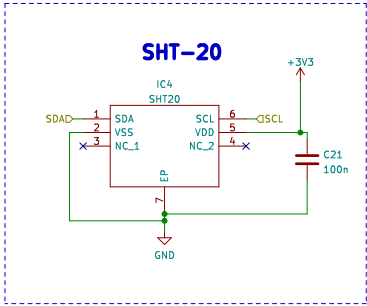
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 File: power.kicad_sch

Title: Masa

Size: A3 Date: 2022-12-23
 KiCad E.D.A. kicad (6.0.0)

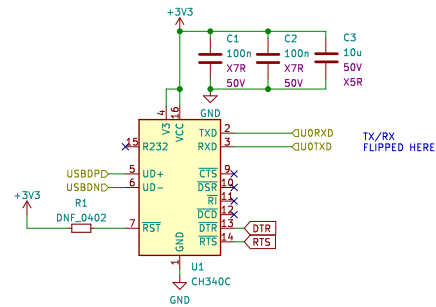
Rev: A
 Id: 4/12



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Sheet: /Sensors/ File: sensors.kicad_sch		
Title: Masa		
Size: A3	Date: 2022-12-23	Rev: A
KiCad E.D.A. kicad (6.0.0)		Id: 5/12

USB-TO-UART



<https://pcbartists.com/design/embedded/esp32-ch340-programmer-schematic/>

eT

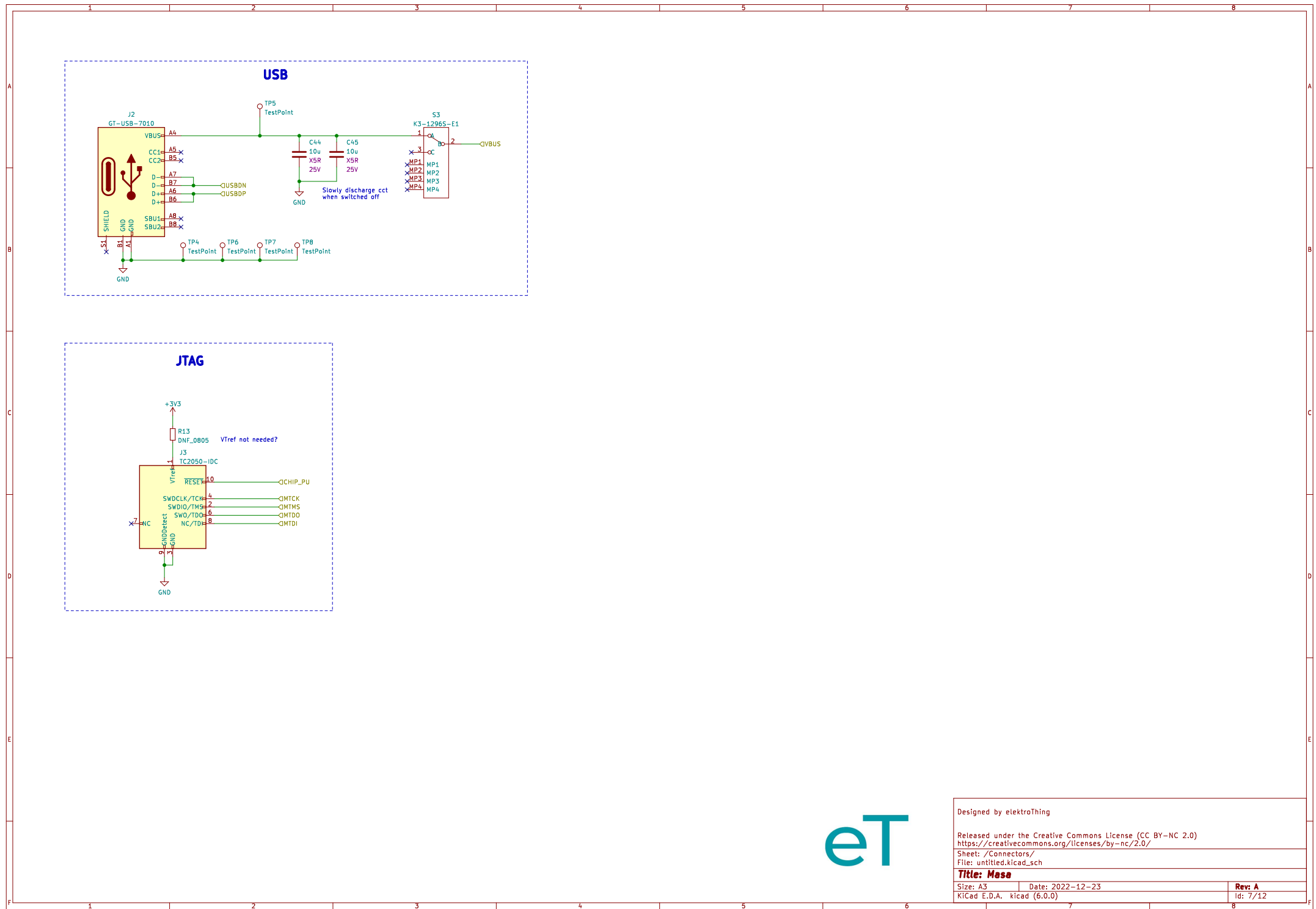
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 Sheet: /USB-to-UART/
 File: USBtoUART.kicad_sch

Title: Masa

Size: A3 | Date: 2022-12-23
 KiCad E.D.A. | kicad (6.0.0)

Rev: A
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Sheet: /Connectors/
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Title: Masa

Size: A3 Date: 2022-12-23
KiCad E.D.A. kicad (6.0.0)

Rev: A
Id: 7/12

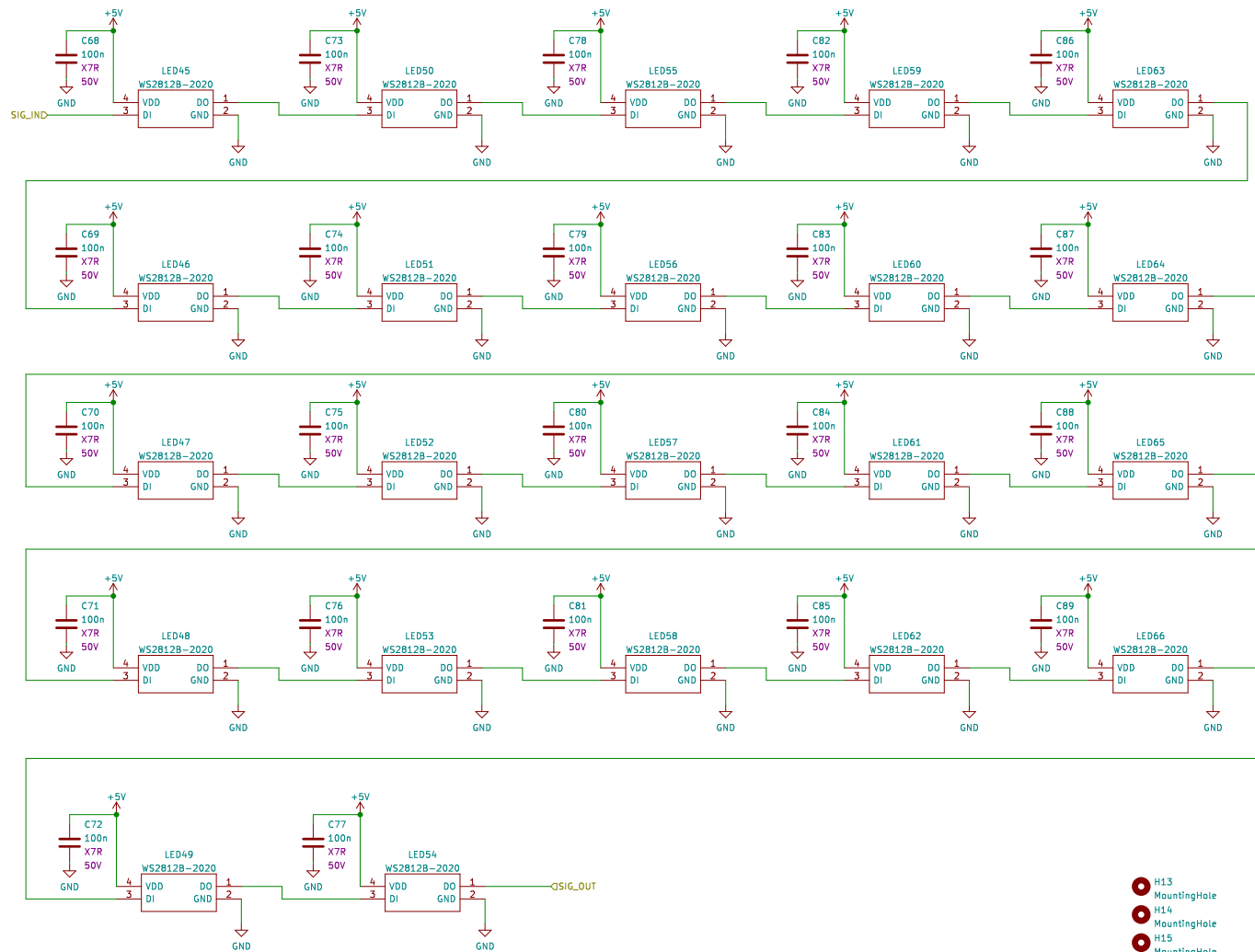


- H9 MountingHole
- H10 MountingHole
- H11 MountingHole
- H12 MountingHole

Varying pitch in x and y for initial test prototype.



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Title: Masa		
Size: A3	Date: 2022-12-23	Rev: A
KiCad E.D.A. kicad (6.0.0)		Id: 8/12



- H13 MountingHole
- H14 MountingHole
- H15 MountingHole
- H16 MountingHole

Varying pitch in x and y for initial test prototype.

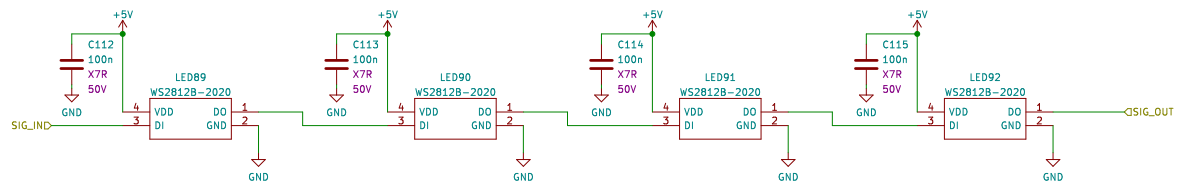


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Size: A3	Date: 2022-12-23	Rev: A
KiCad E.D.A. kicad (6.0.0)		Id: 9/12



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Rev: A
Id: 10/12



- H5 MountingHole
- H6 MountingHole
- H7 MountingHole
- H8 MountingHole

Varying pitch in x and y for initial test prototype.

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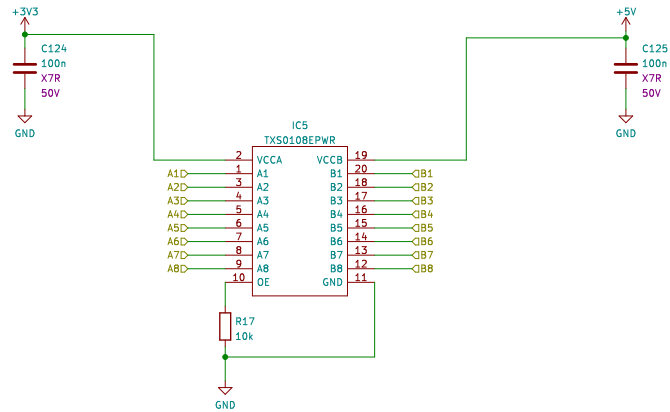
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 File: led_array_small1.kicad_sch

Title: Masa

Size: A3 | Date: 2022-12-23
 KiCad E.D.A. kicad (6.0.0)

Rev: A
 Id: 11/12

3V3 to 5V LEVEL SHIFTER



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 Sheet: /Level Shifter/
 File: shifter.kicad_sch

Title: Masa

Size: A3 | Date: 2022-12-23
 KiCad E.D.A. kicad (6.0.0)

Rev: A
 Id: 12/12