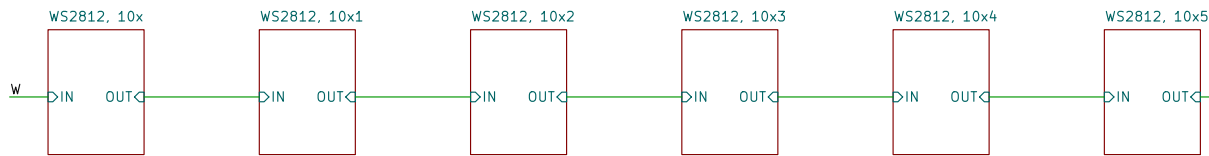
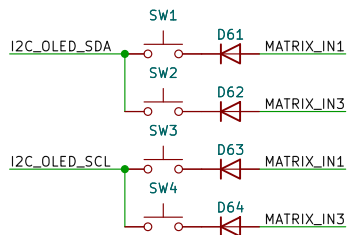


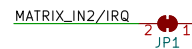
OLED (SSD1306):
I2C 0x3c / 0x78
12 mA for 50% pixels on
TMP102, I2C: 0x49 / 0x91 (ADDR=VCC)
MPR121, I2C:
0x5a / 0xb4 (ADDR=VSS)
[0x5b / 0xb6 (ADDR=VDD) - not used here]
[0x5c / 0xb8 (ADDR=SDA) - not used here]
[0x5d / 0xba (ADDR=SCL) - not used here]

1.27 mm pitch, i.e. not normal pin headers
no protection -> only use inside the case
The idea is to solder wires to attach other
boards that are inside the case.

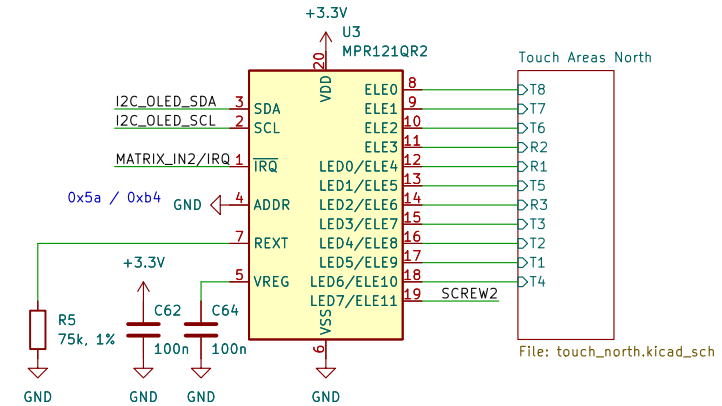


File: WS2812_10x.kicad_sch File: WS2812_10x.kicad_sch File: WS2812_10x.kicad_sch File: WS2812_10x.kicad_sch File: WS2812_10x.kicad_sch File: WS2812_10x.kicad_sch

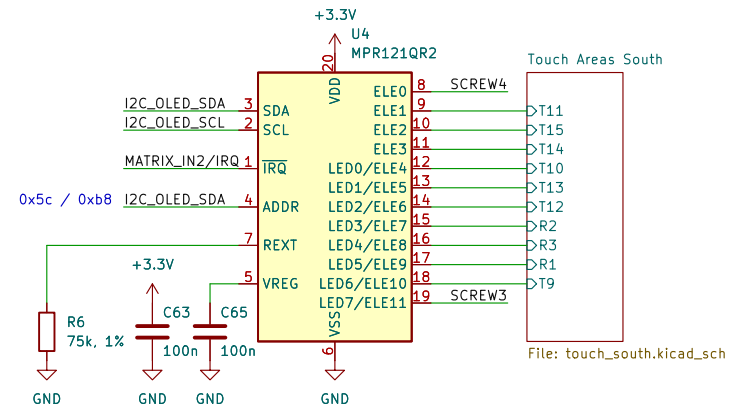
$60 \times 3 \times 5 \text{mA} = 0.9 \text{ A}$
PTC fuse is at 0.5 A
so only turn on half the LEDs.
(except maybe for a short time)



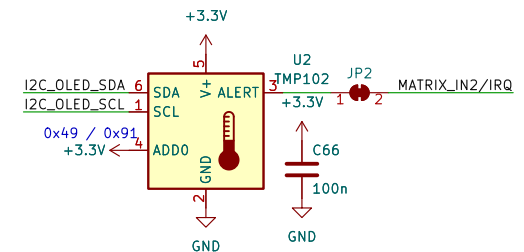
Open-Drain driver to IRQ signal so we can check
whether the LED ring is still working. We should
only see pulses here if we try to set more than
60 LEDs (I think) and we know roughly when this
will happen so we can avoid polling the other
devices (or do it anyway). Furthermore, the other
IRQs should be sticky, i.e. if it goes away after
1 ms it is WS2812 not IRQ.



File: touch_north.kicad_sch



File: touch_south.kicad_sch



Sheet: /
File: c3pb-heizung-display.kicad_sch

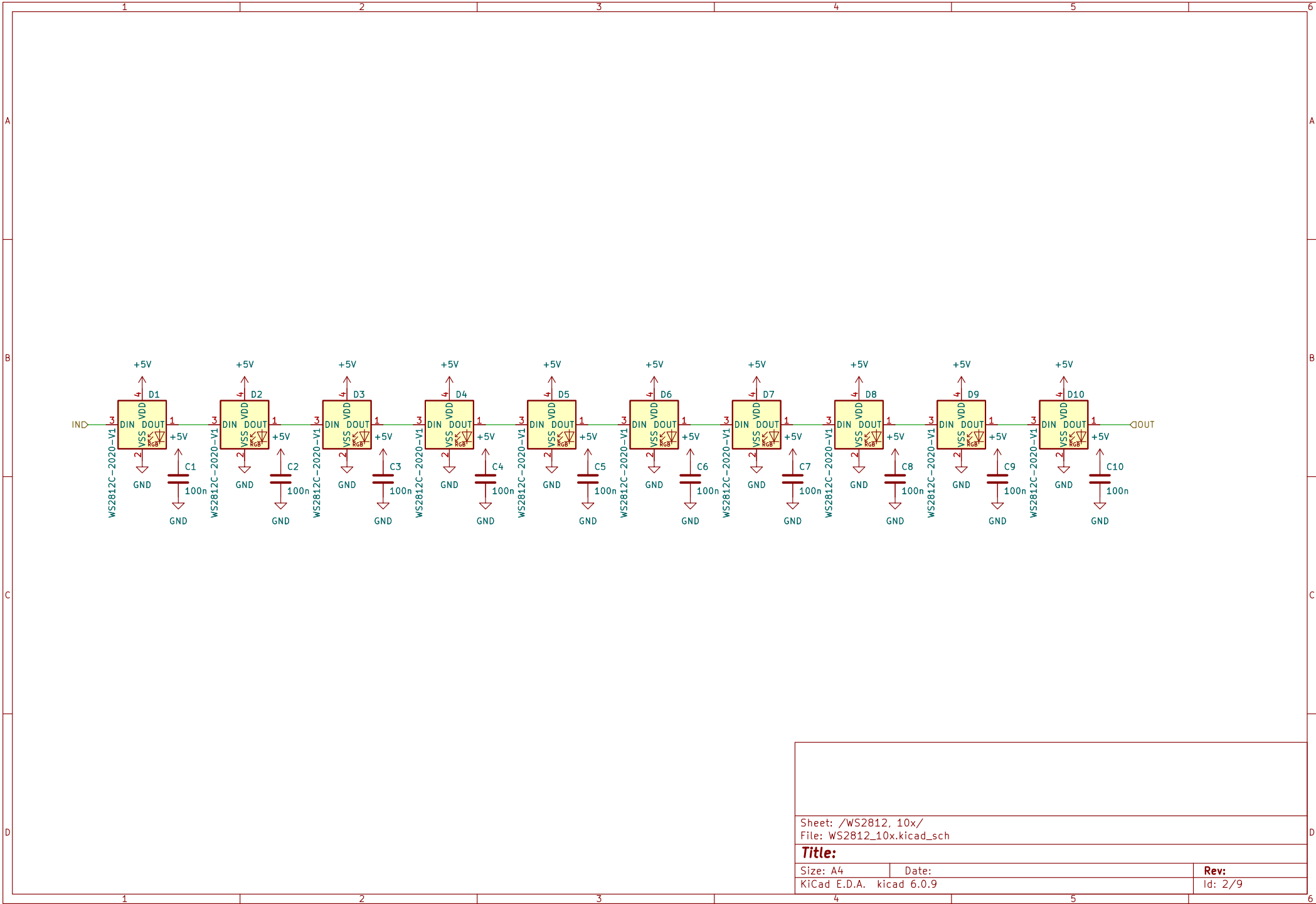
Title:

Size: A4
KiCad E.D.A. kicad 6.0.9

Date:

Rev:

Id: 1/9



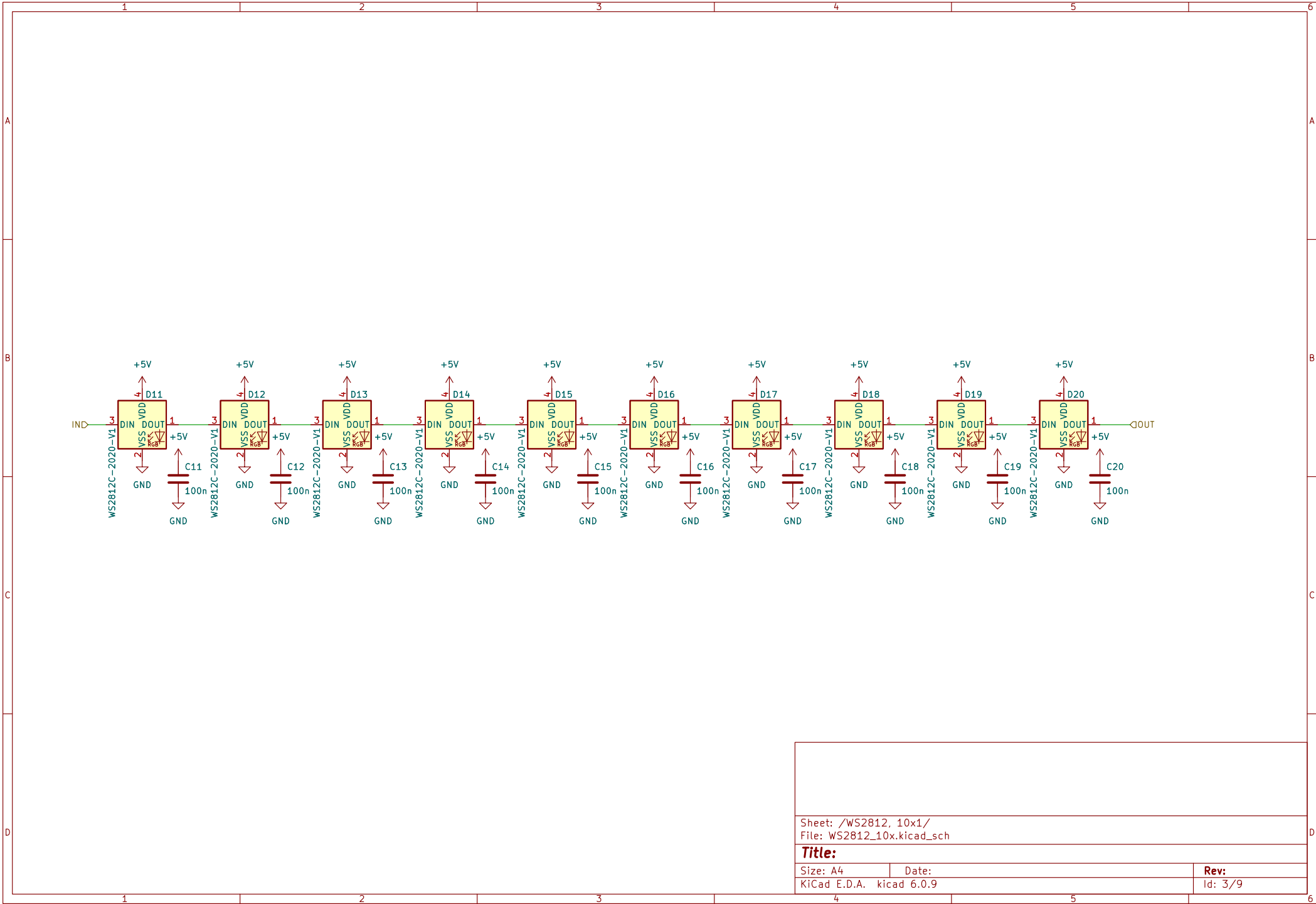
Sheet: /WS2812, 10x/
File: WS2812_10x.kicad_sch

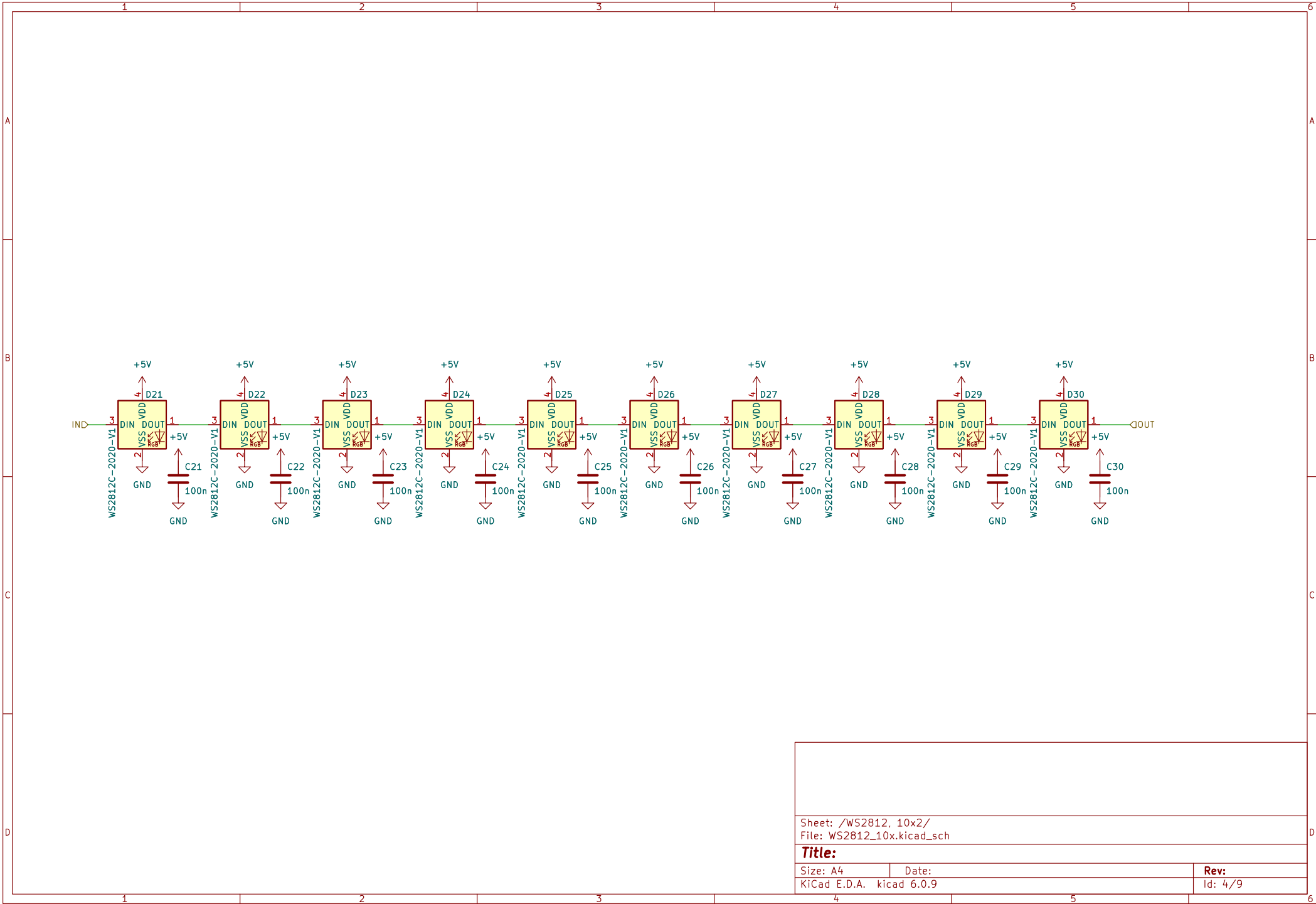
Title:

Size: A4
KiCad E.D.A. kicad 6.0.9

Date:

Rev:
Id: 2/9





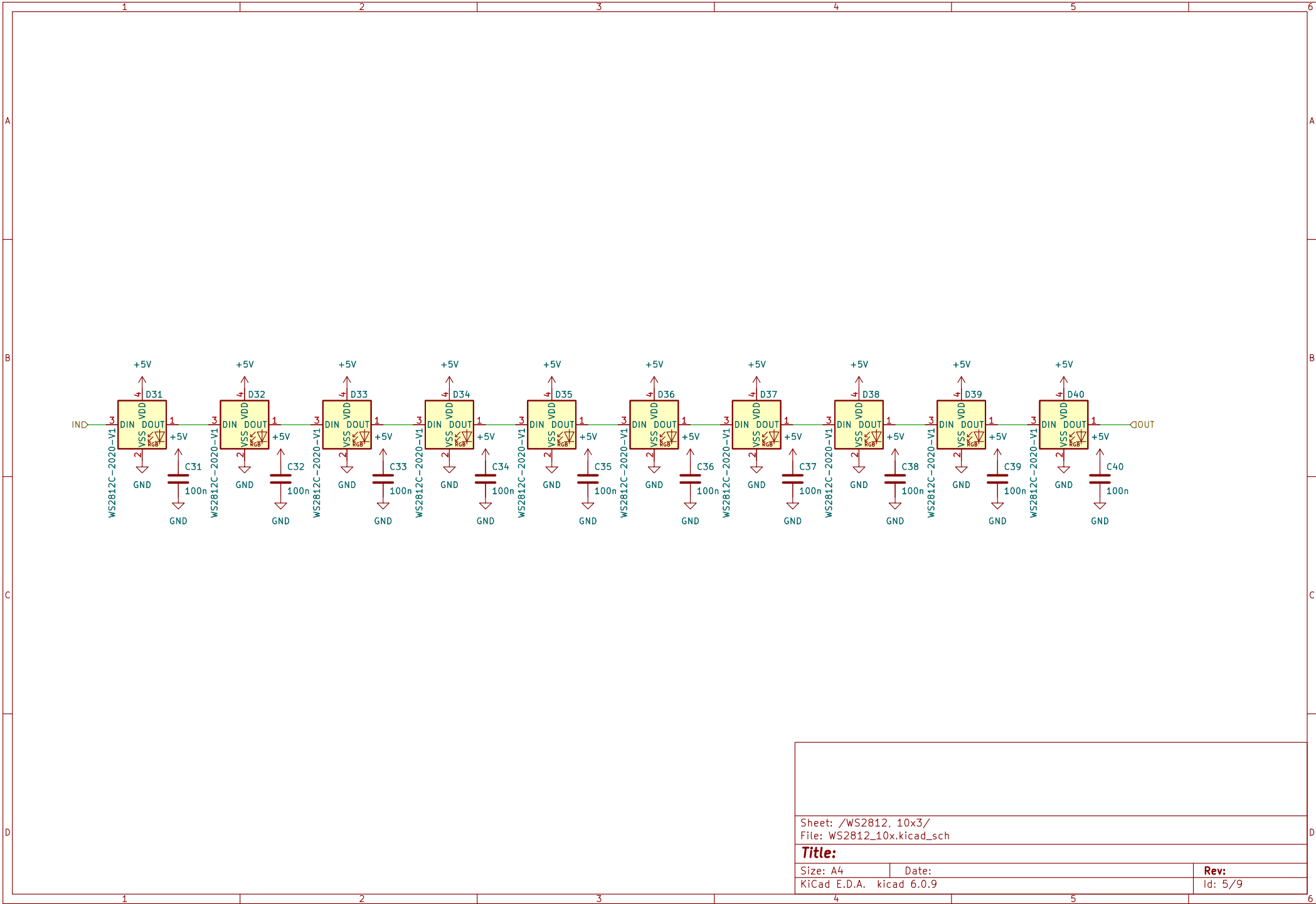
Sheet: /WS2812, 10x2/
File: WS2812_10x.kicad_sch

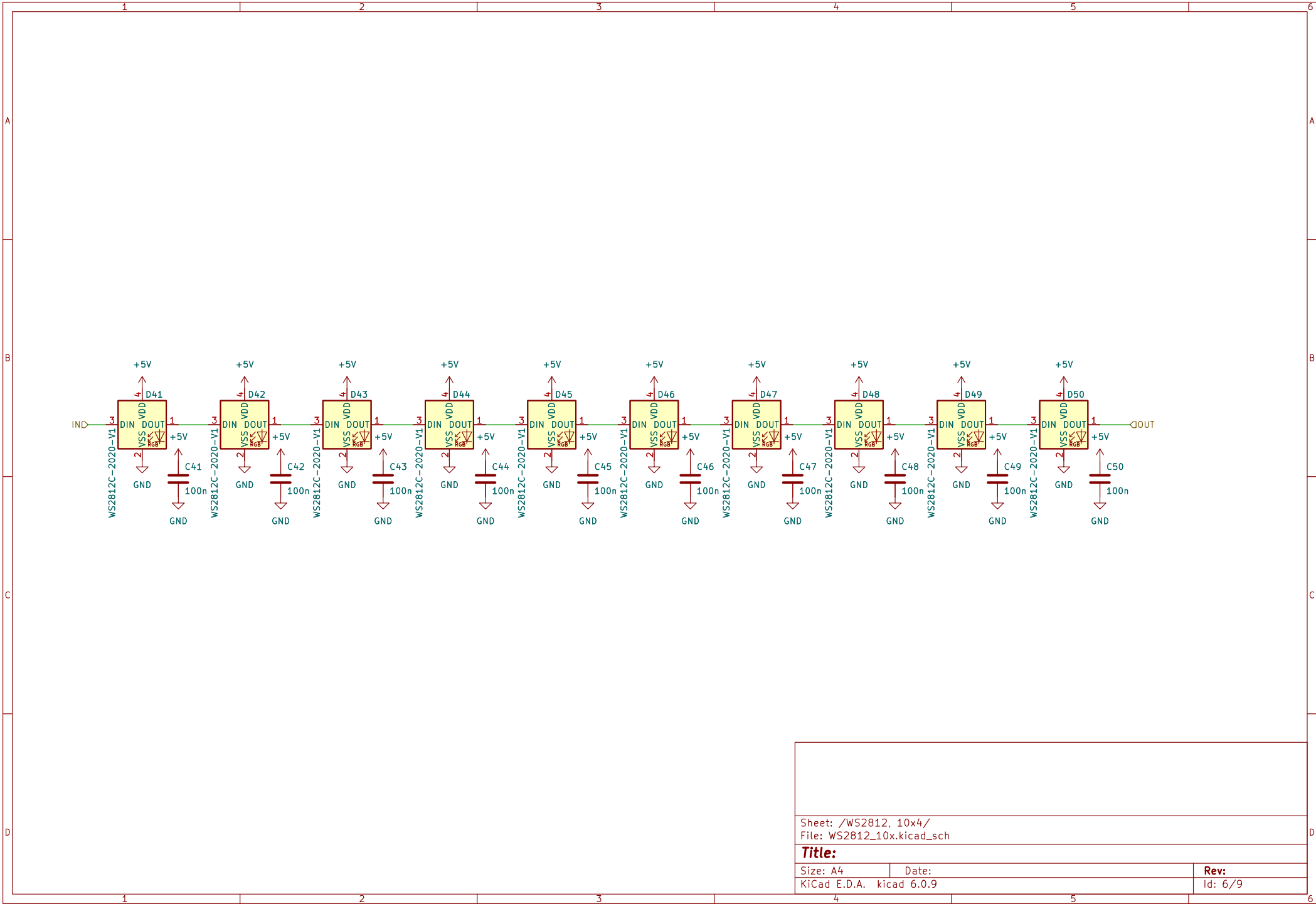
Title:

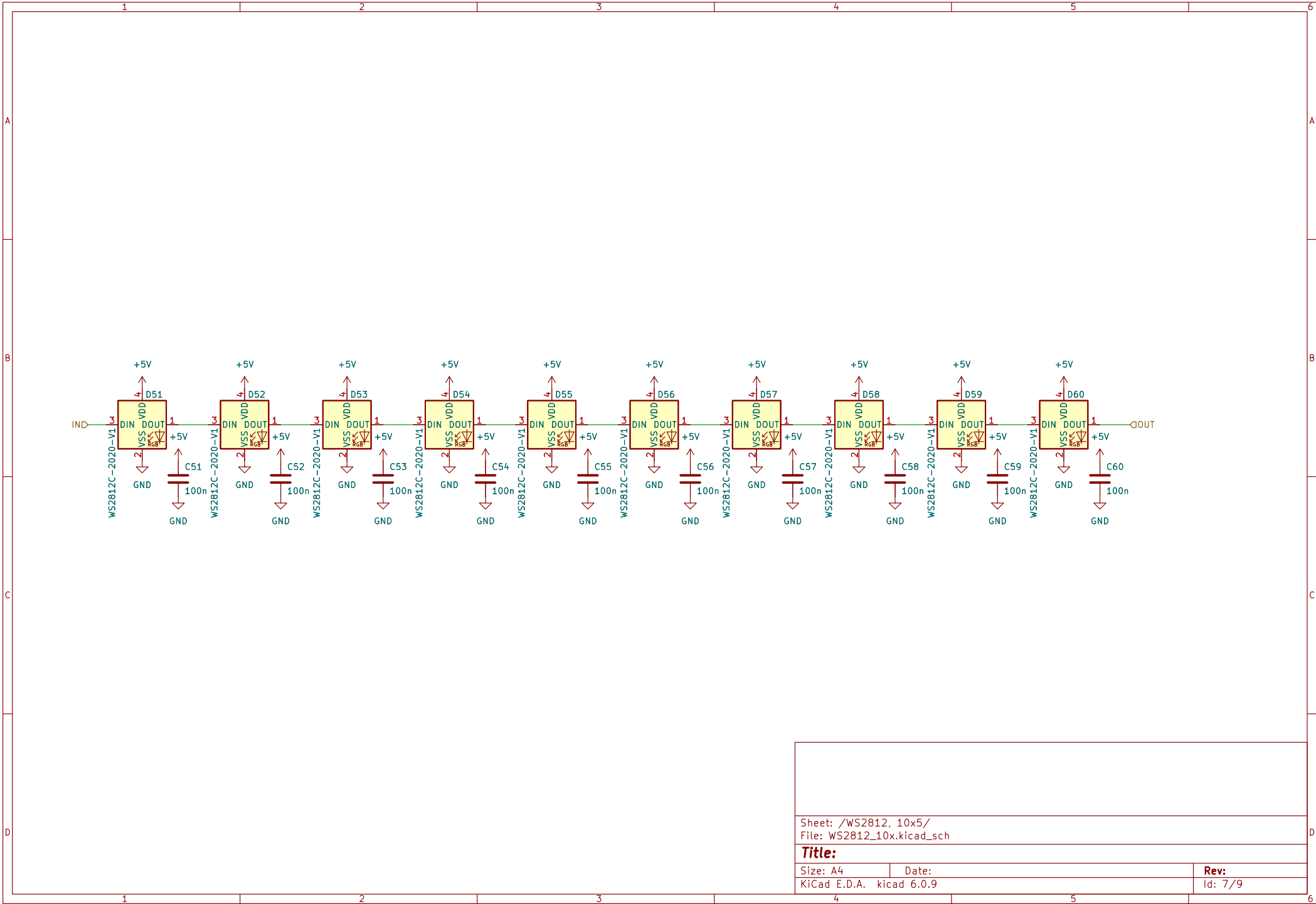
Size: A4
KiCad E.D.A. kicad 6.0.9

Date:

Rev:
Id: 4/9







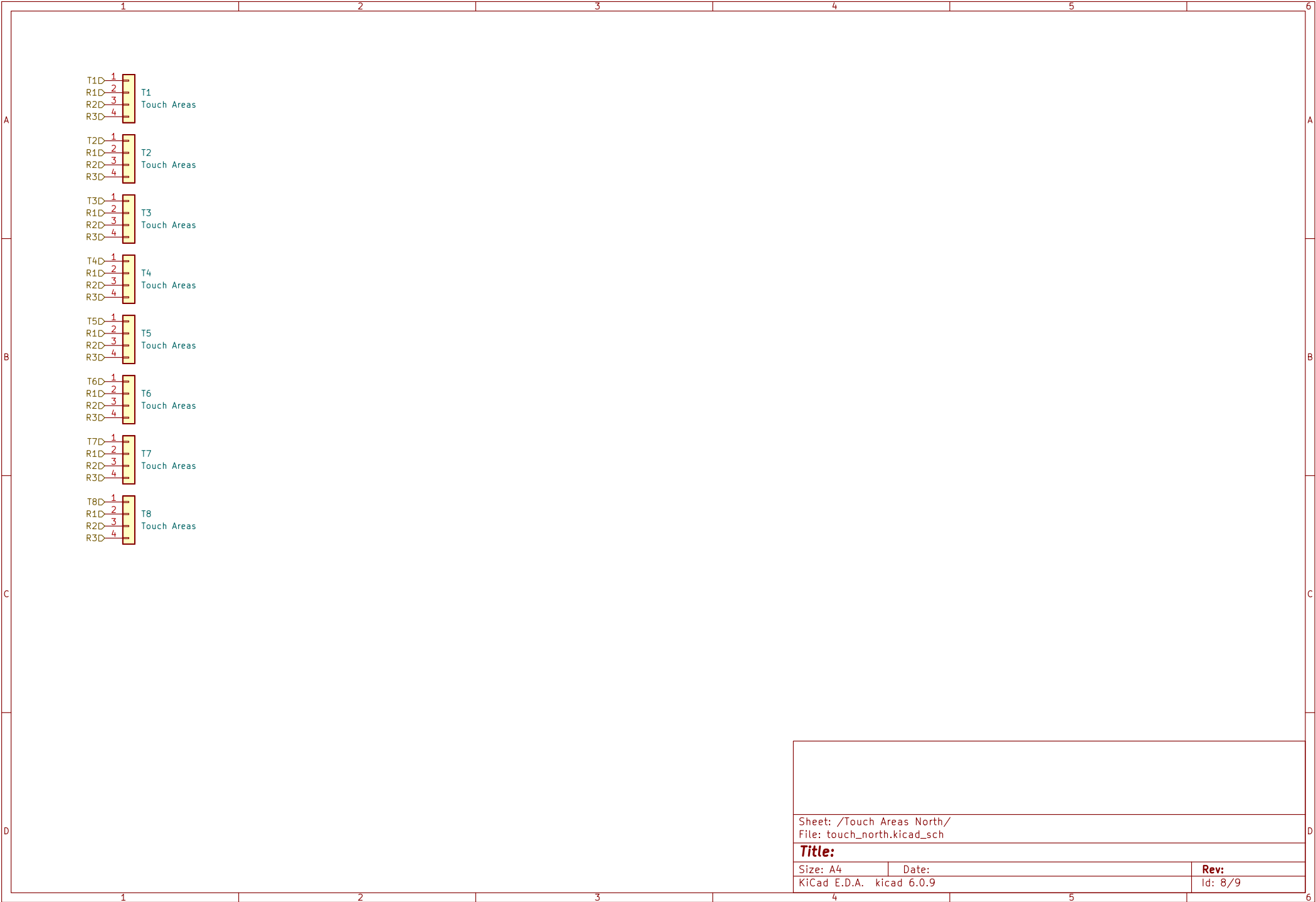
Sheet: /WS2812, 10x5/
File: WS2812_10x.kicad_sch

Title:

Size: A4
KiCad E.D.A. kicad 6.0.9

Date:

Rev:
Id: 7/9



Sheet: /Touch Areas North/ File: touch_north.kicad_sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. kicad 6.0.9		Id: 8/9

