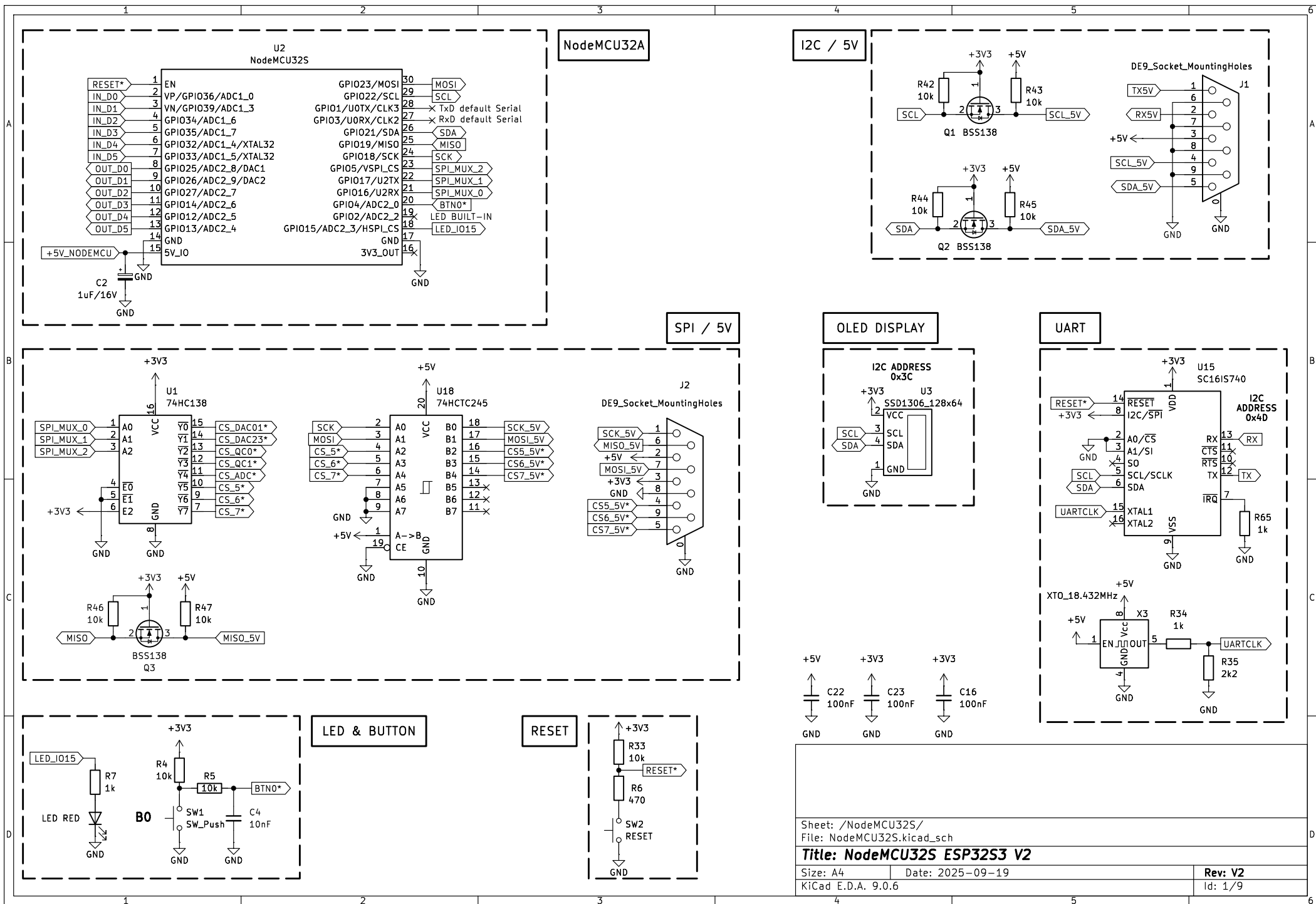
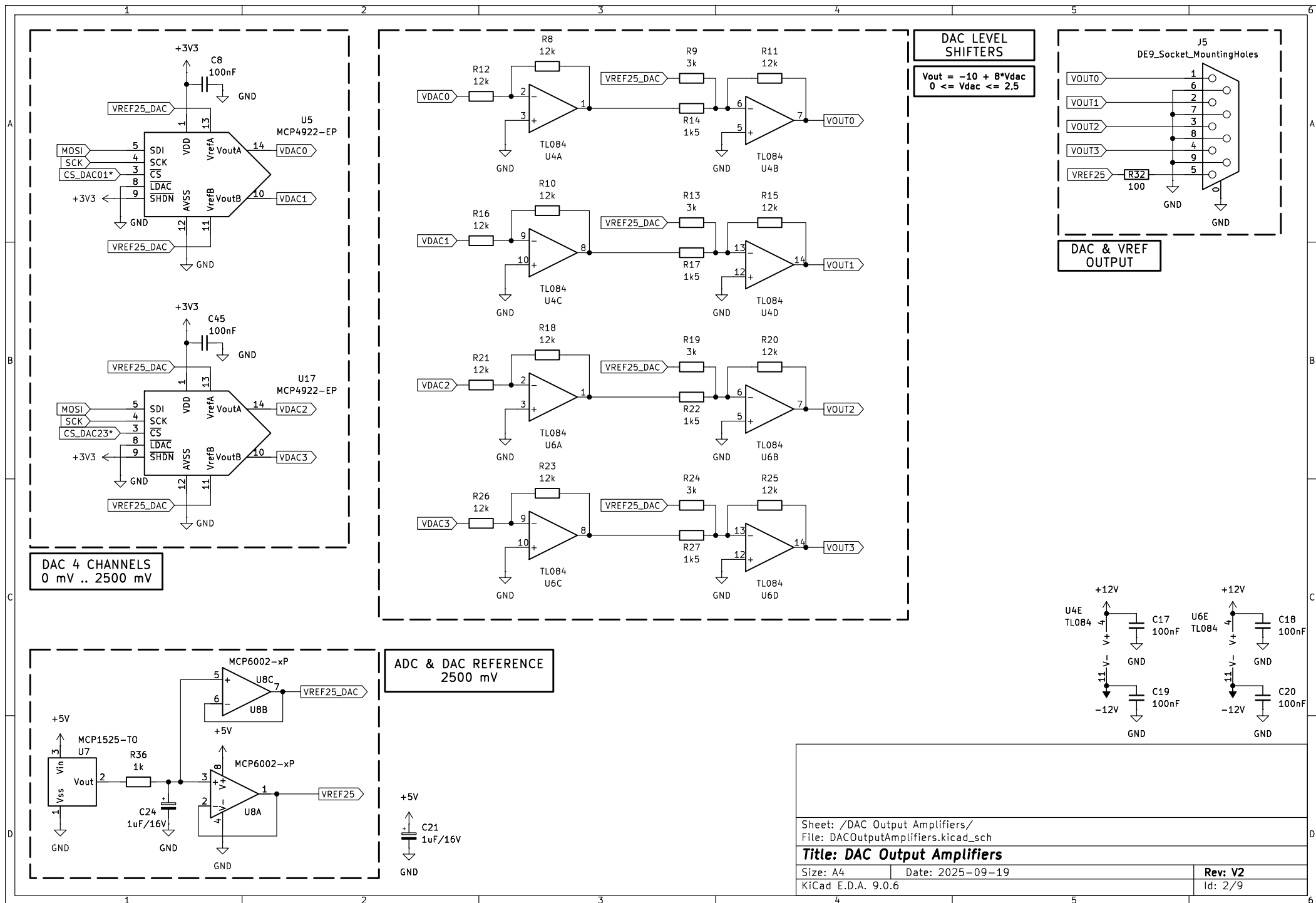


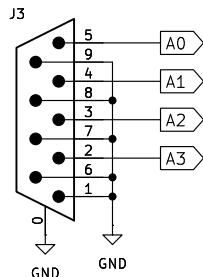
Sheet: / File: NodeMCU32SPlatform_v2.kicad_sch		
Title: NodeMCU32S Platform V1		
Size: A4	Date: 2025-09-19	Rev: V2
KiCad E.D.A. 9.0.6		Id: 1/9





## ADC INPUT

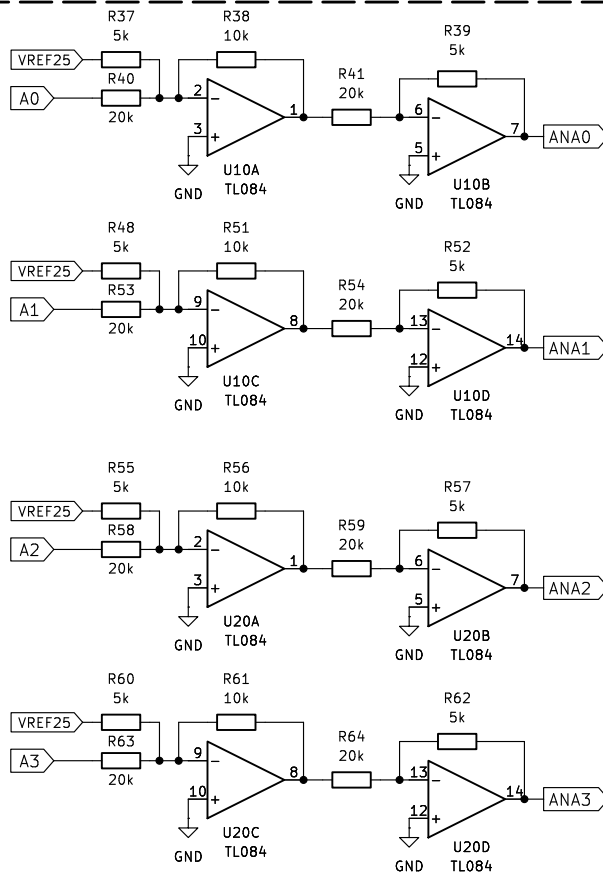
DE9\_Pins\_MountingHoles



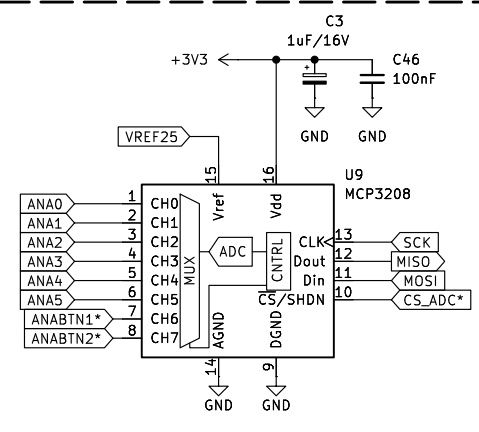
## ADC LEVEL SHIFTERS

$$V_{out} = (2.5/20) * (V_{in} + 10)$$

$$-10 \leq V_{in} \leq +10$$

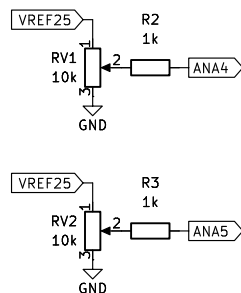


## 8 CHANNEL ADC

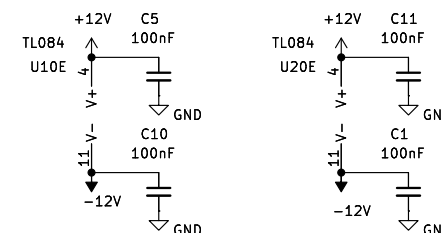
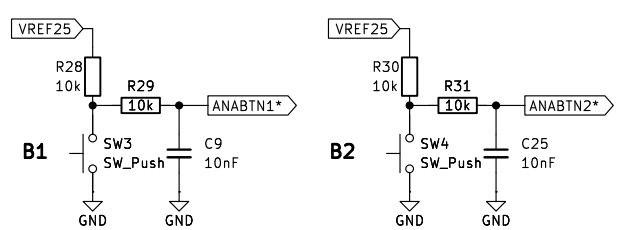


	INPUT -5V/+5V	INPUT -10V/+10V
R39, R52, R57, R62	10k	5k
R41, R54, R59, R64	20k	20k
R38, R51, R56, R61	10k	10k
R37, R48, R55, R60	10k	5k
R40, R53, R58, R63	20k	20k

## POTMETERS



## ANALOG BUTTONS



Sheet: /ADC Input Amplifiers/  
File: ADCInputAmplifiers.kicad\_sch

**Title: ADC Input Amplifiers**

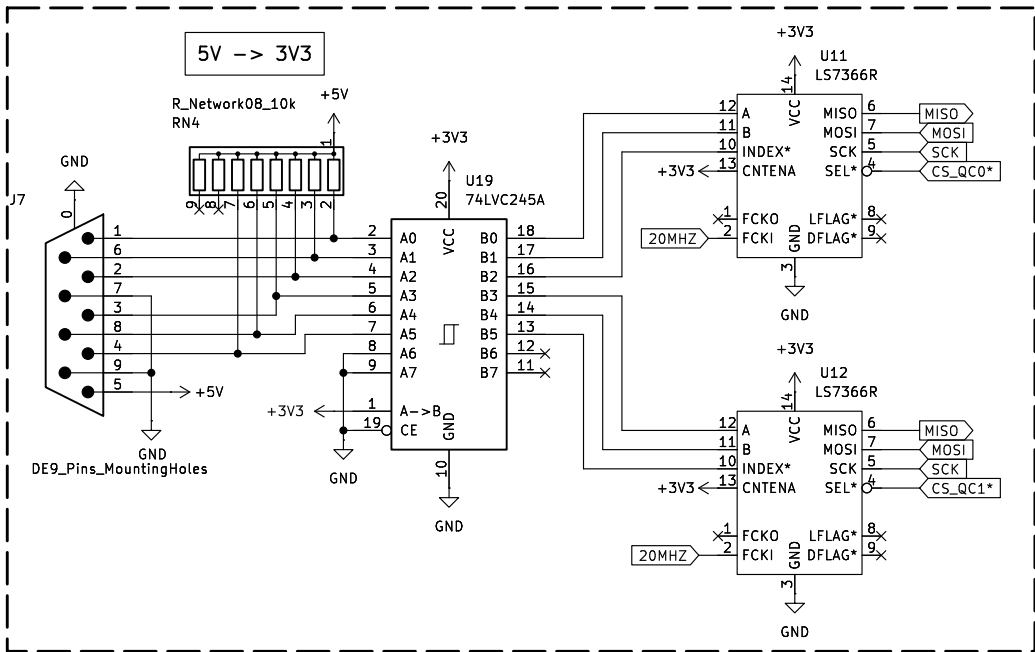
Size: A4 Date: 2025-09-19

KiCad E.D.A. 9.0.6

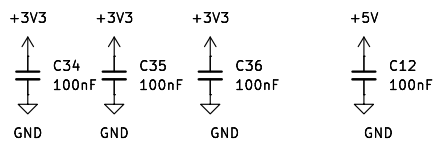
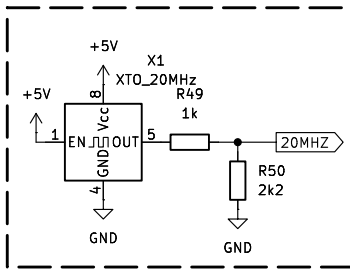
**Rev: V2**

Id: 3/9

# QUADRATURE COUNTERS



# QUADRATURE CLOCK



Sheet: /Quadrature Counters/		
File: QuadratureCounters.kicad_sch		
Title: Quadrature Counters		
Size: A4	Date: 2025-09-19	Rev: V2
KiCad E.D.A. 9.0.6	Id: 4/9	

[illegible]

3V3 → 5V

U13 74HCT245

DE9\_Socket\_MountingHoles J9

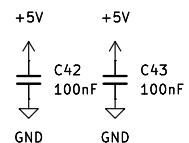
OUT\_D0, OUT\_D1, OUT\_D2, OUT\_D3, OUT\_D4, OUT\_D5

OUT0, OUT1, OUT2, OUT3, OUT4, OUT5

TX, TX5V

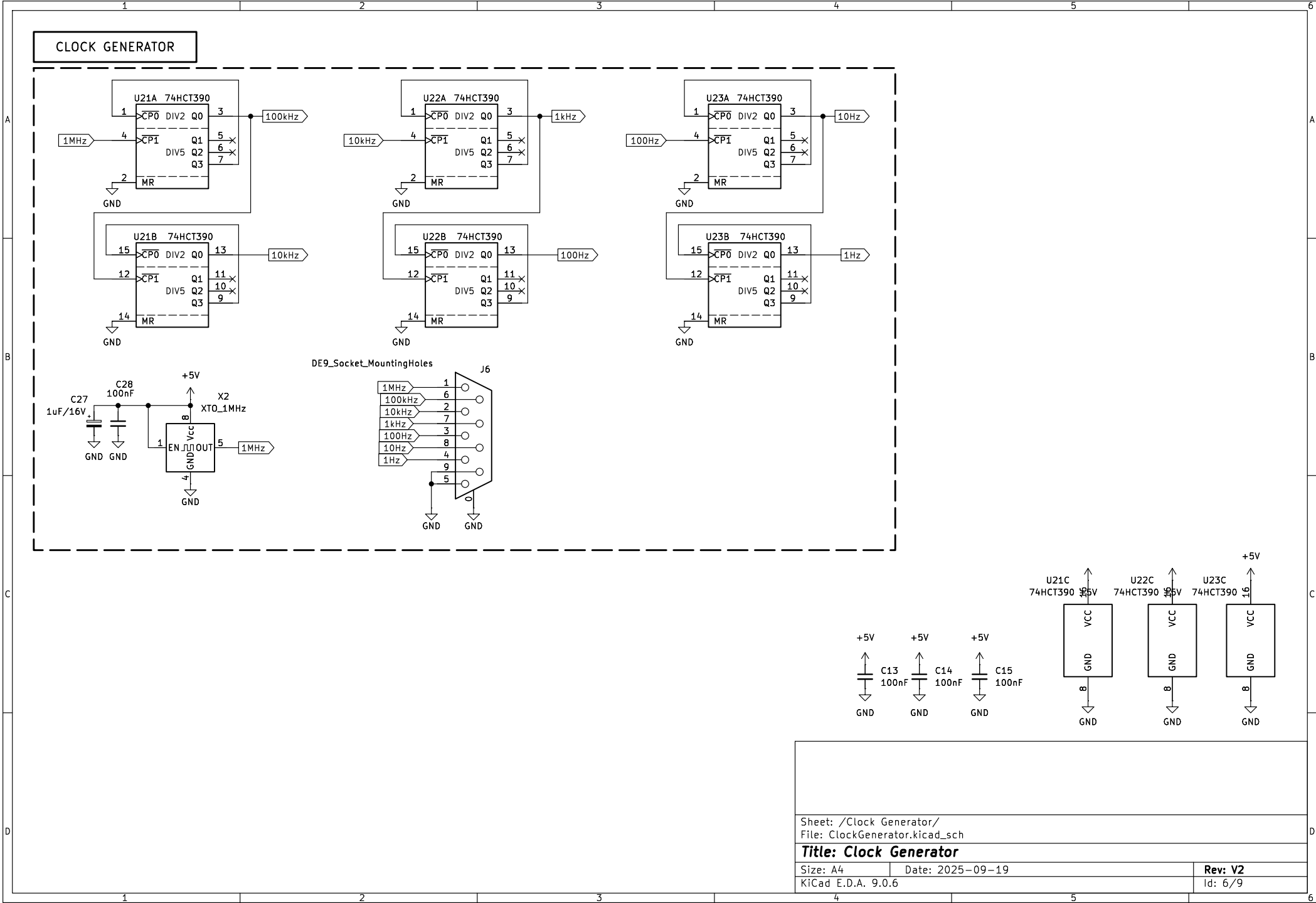
RN2 R\_Network08\_4k7

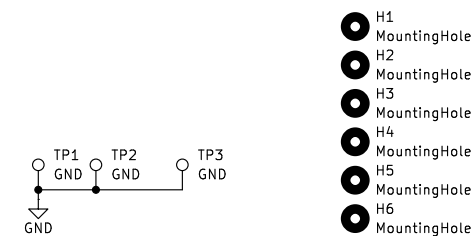
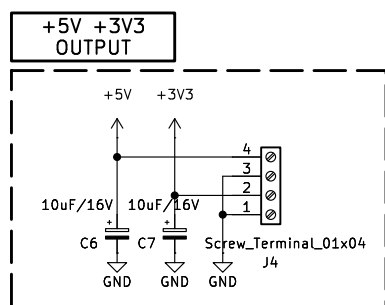
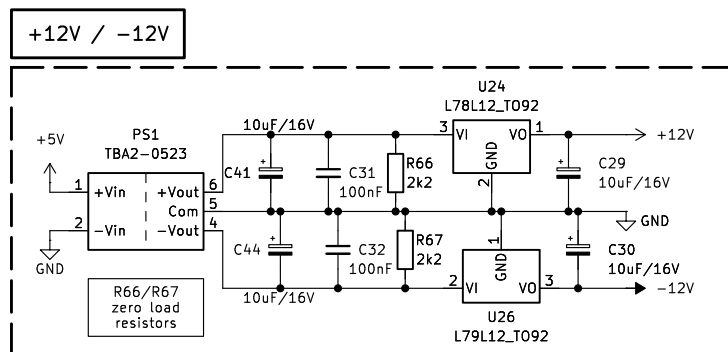
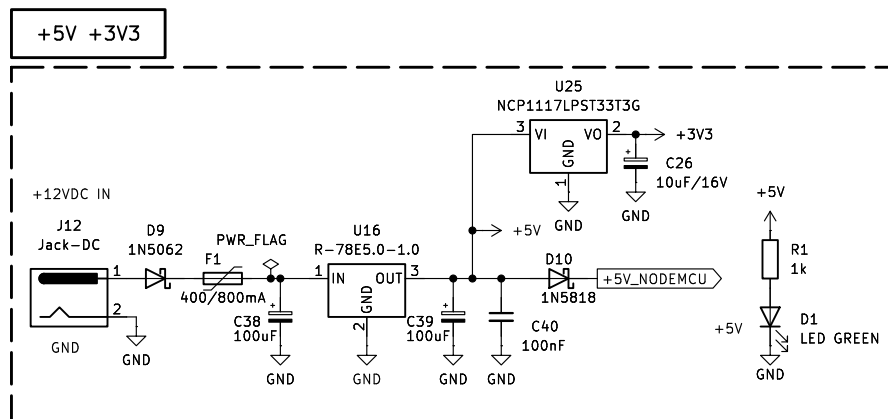
GND



KiCad E.D.A. 9.0.6

Id: 5/9





Sheet: /Power Supply/  
File: PowerSupply.kicad\_sch

**Title: Power Supply**

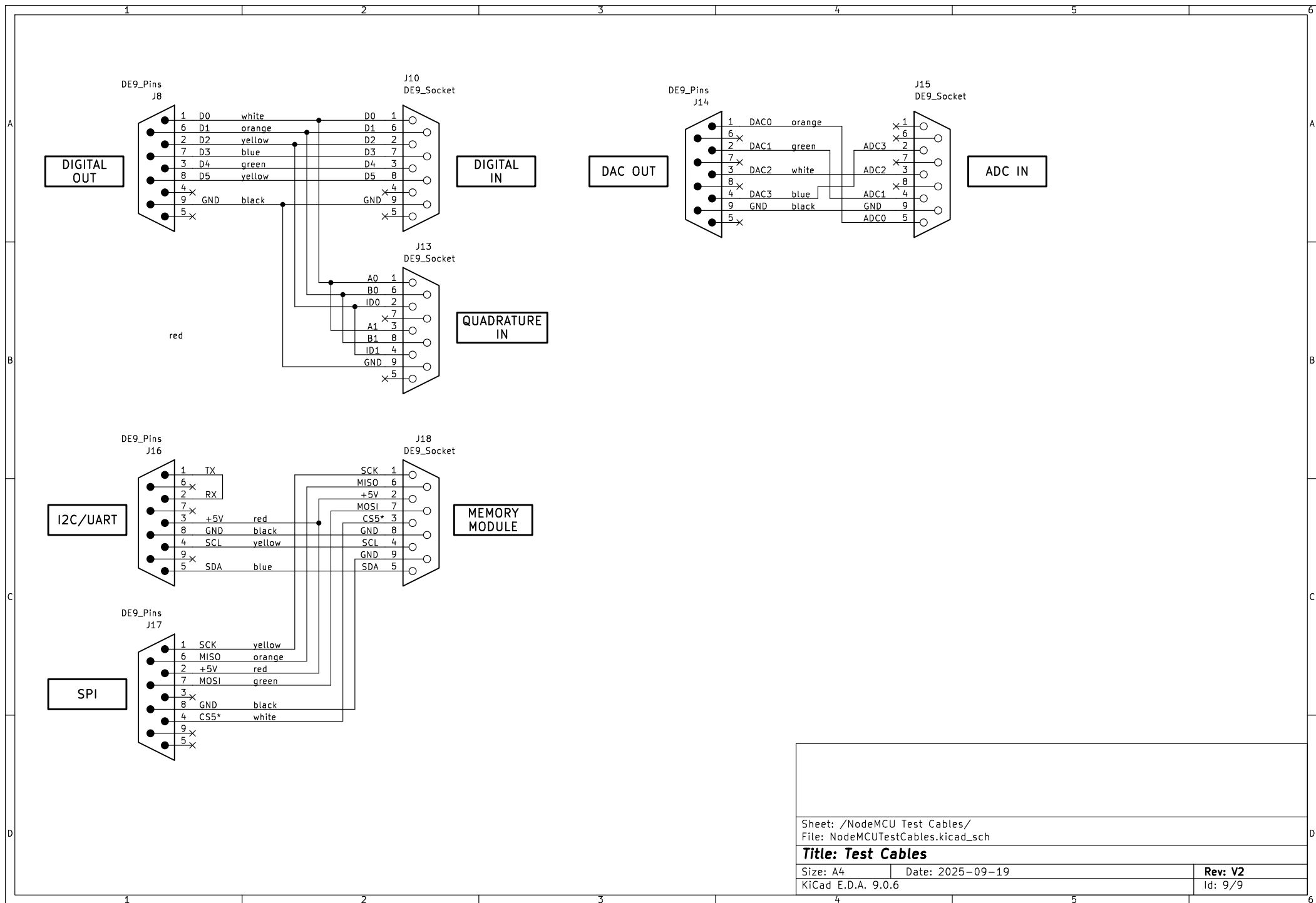
Size: A4	Date: 2025-09-19
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Rev: V2

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Sheet: /NodeMCU Test Cables/  
File: NodeMCUTestCables.kicad\_sch

### Title: Test Cables

Size: A4 Date: 2025-09-19  
KiCad E.D.A. 9.0.6

Rev: V2  
Id: 9/9