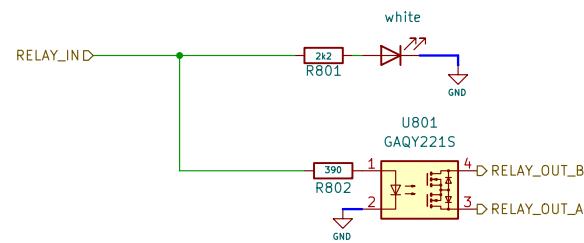


UR801
3

A



A

B

B

Calculation of the input resistor

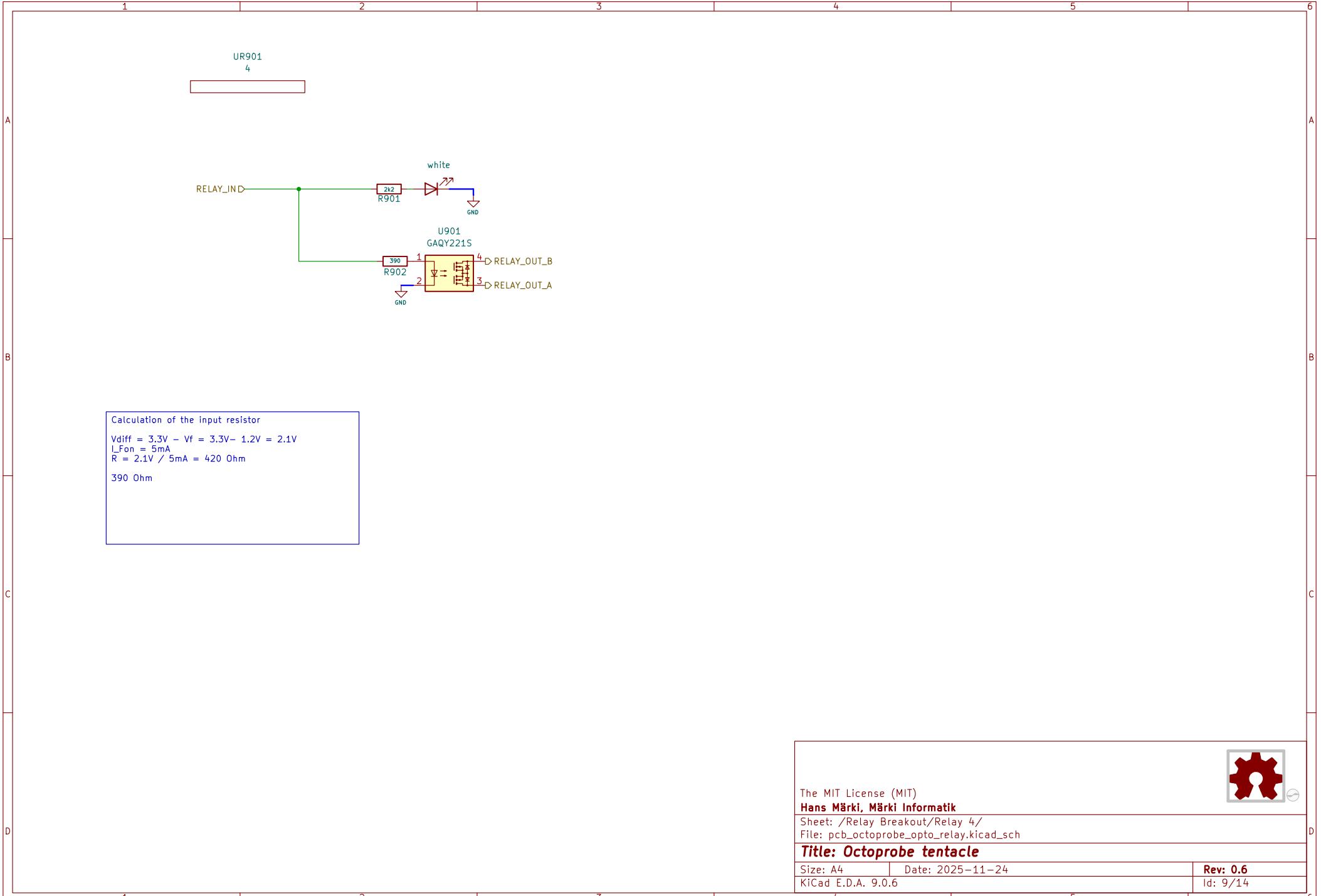
$V_{diff} = 3.3V - V_f = 3.3V - 1.2V = 2.1V$
 $I_{Fon} = 5mA$
 $R = 2.1V / 5mA = 420 \text{ Ohm}$
 390 Ohm

C

C

D

D

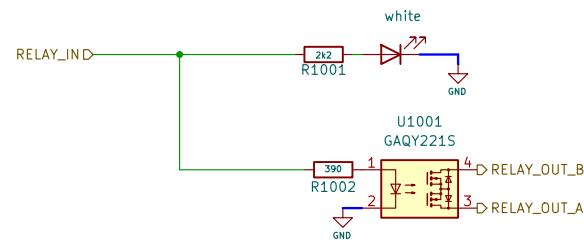


UR1001

5



A



B

Calculation of the input resistor

$V_{diff} = 3.3V - V_f = 3.3V - 1.2V = 2.1V$
 $I_{Fon} = 5mA$
 $R = 2.1V / 5mA = 420 \text{ Ohm}$
 390 Ohm

C

D



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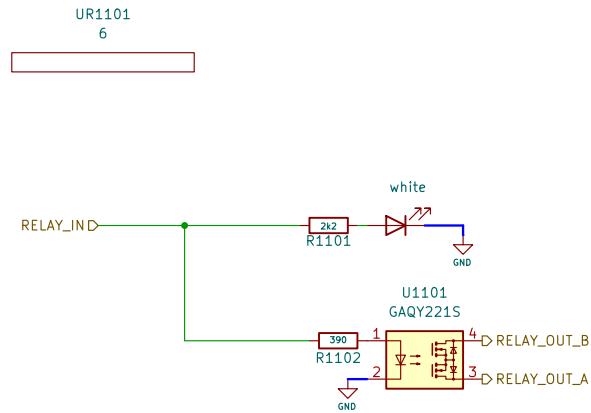
Hans Märki, Märki Informatik

Sheet: /Relay Breakout/Relay 5/
 File: pcb_octoprobe_opto_relay.kicad_sch

Title: Octoprobe tentacle

Size: A4	Date: 2025-11-24
KiCad E.D.A. 9.0.6	

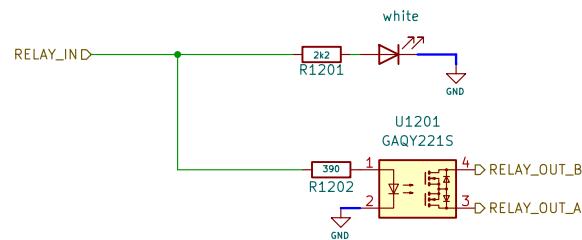
Rev: 0.6
Id: 10/14



Calculation of the input resistor
 $V_{diff} = 3.3V - V_f = 3.3V - 1.2V = 2.1V$
 $I_{Fon} = 5mA$
 $R = 2.1V / 5mA = 420 \text{ Ohm}$
390 Ohm



UR1201

**Calculation of the input resistor**

$V_{diff} = 3.3V - V_f = 3.3V - 1.2V = 2.1V$
 $I_{Fon} = 5mA$
 $R = 2.1V / 5mA = 420 \text{ Ohm}$
 390 Ohm

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Sheet: /Relay Breakout/Relay 7/
 File: pcb_octoprobe_opto_relay.kicad_sch

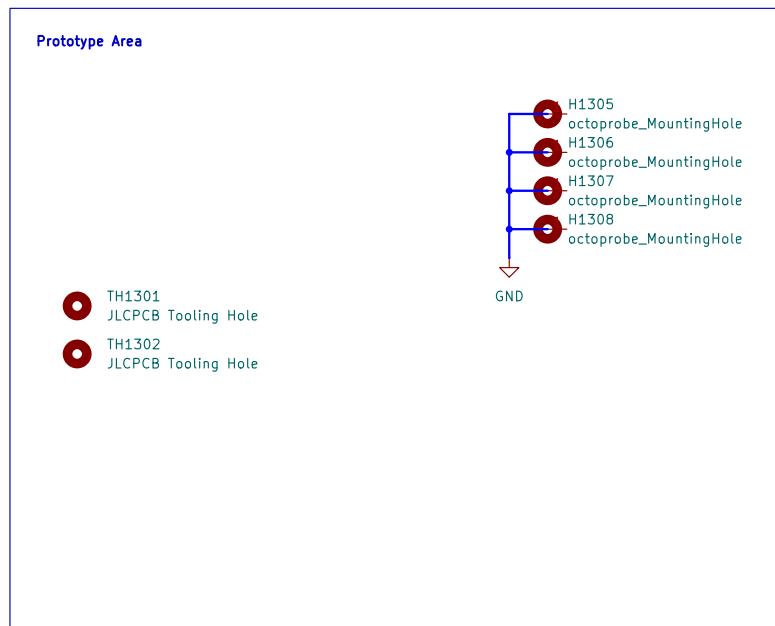
Title: Octoprobe tentacle

Size: A4	Date: 2025-11-24
KiCad E.D.A. 9.0.6	

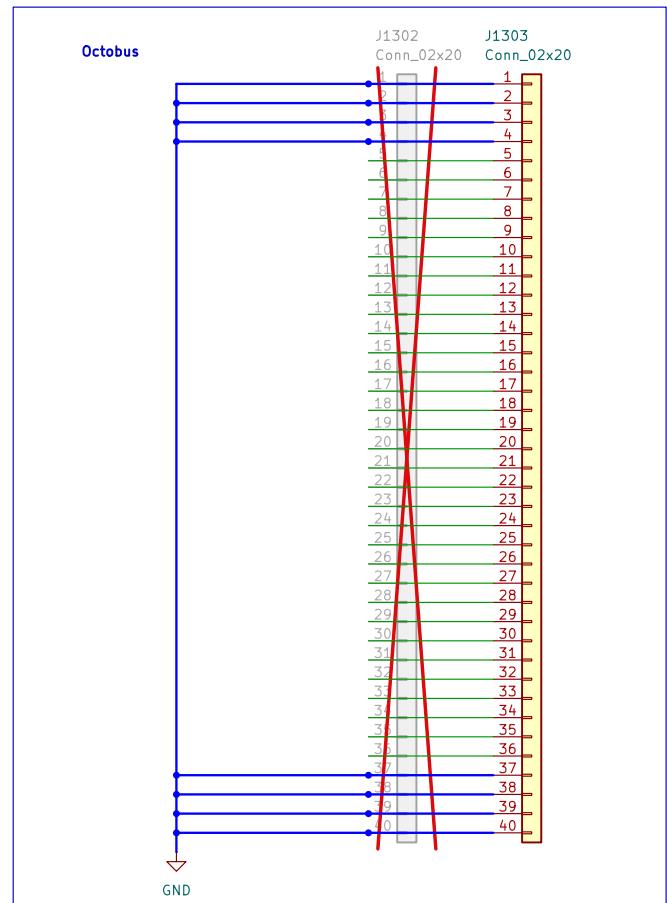


Rev: 0.6
Id: 12/14

A

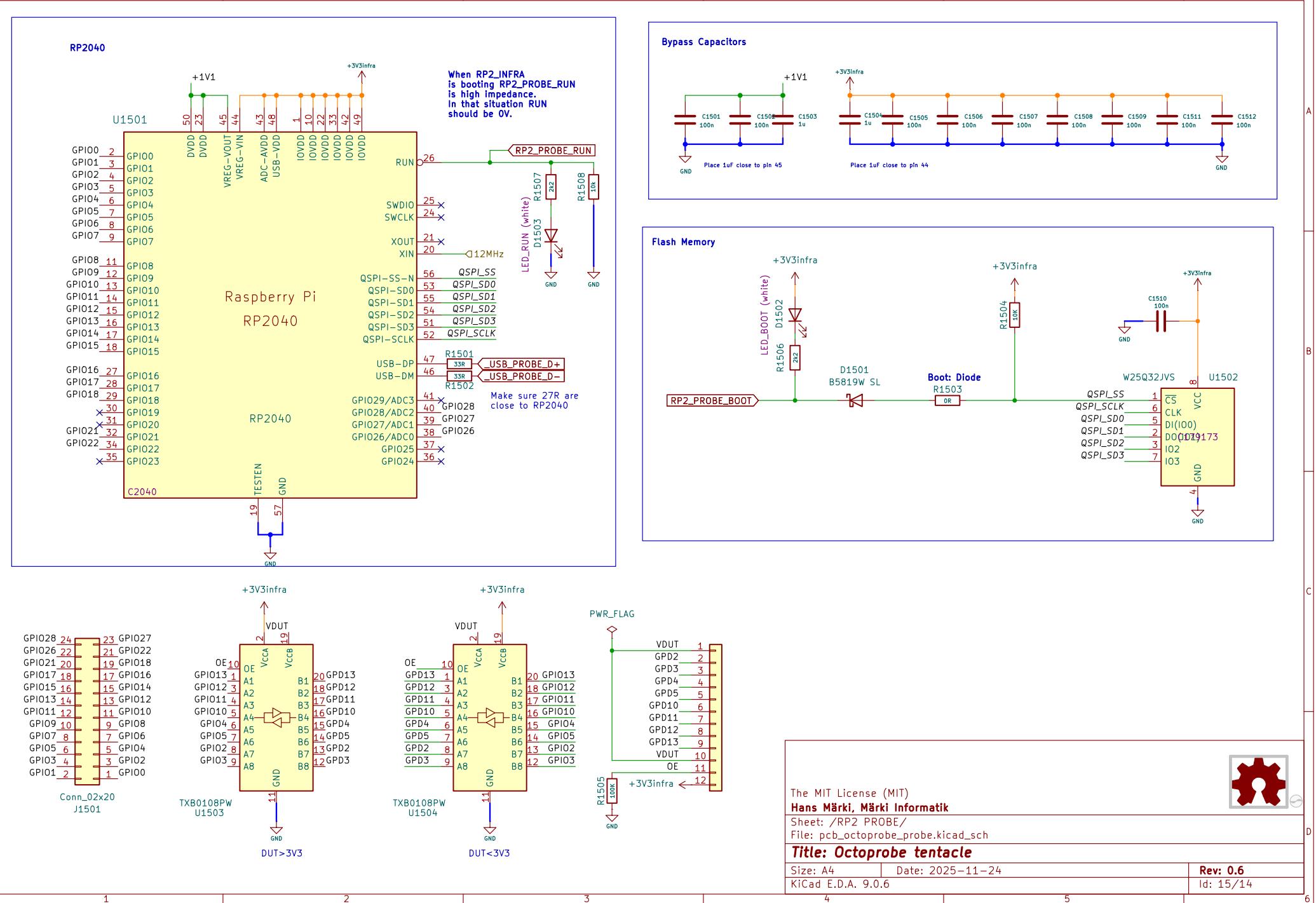


B

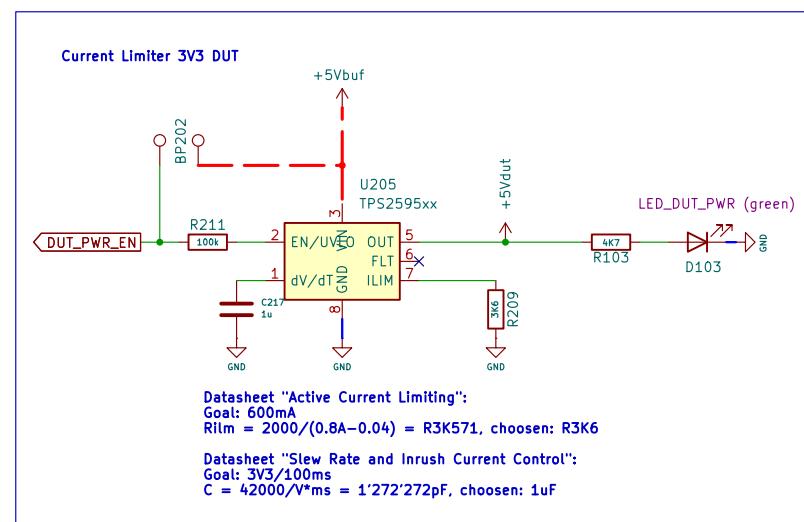
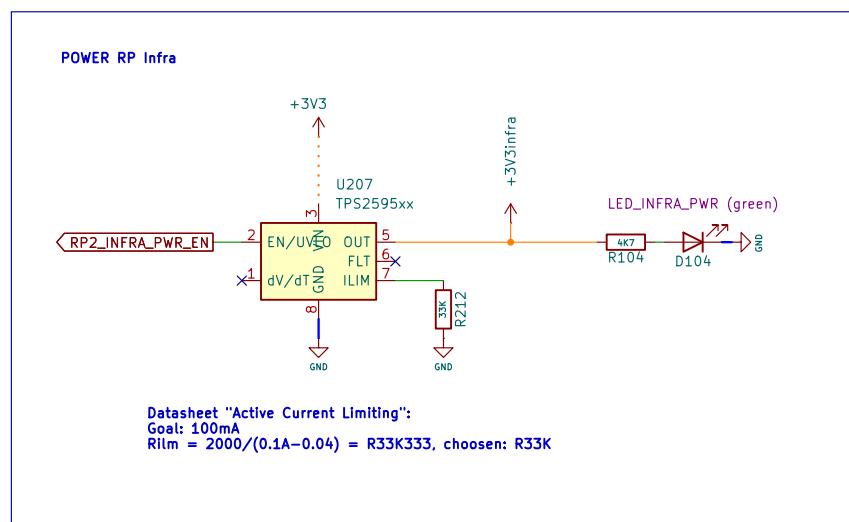
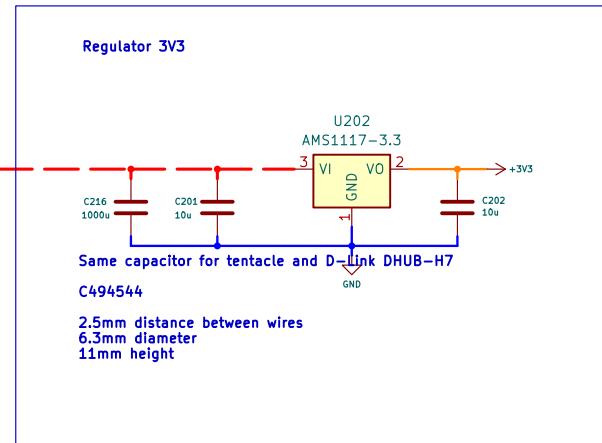
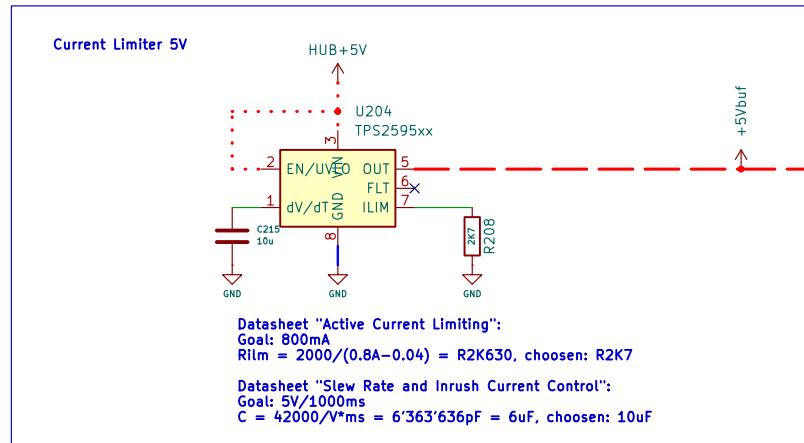


C

D



1 2 3 4 5 6



Sheet: /Regulator 3V3/
File: pcb_octoprobe_regulator3V3.kicad_sch

Title:

Size: A4 Date:
KiCad E.D.A. 9.0.6

Rev:
Id: 16/14

1 2 3 4 5 6