

12345678

Note: Unless Specified, all ferrite beads are MPZ1608Y101BTA00
100R @ 100MHz / .04R DCR

Power

/RESETD

File: power.kicad_sch

ESP32

FPGA

USB

Ethernet

RF_Receive

adc_q7_p ADC_Q7_P adc_q7_p LO_HFQ
adc_q7_n ADC_Q7_N adc_q7_n LO_LFQ
adc_q6_p ADC_Q6_P adc_q6_p
adc_q6_n ADC_Q6_N adc_q6_n
adc_q5_p ADC_Q5_P adc_q5_p
adc_q5_n ADC_Q5_N adc_q5_n
adc_q4_p ADC_Q4_P adc_q4_p
adc_q4_n ADC_Q4_N adc_q4_n
adc_q3_p ADC_Q3_P adc_q3_p
adc_q3_n ADC_Q3_N adc_q3_n
adc_q2_p ADC_Q2_P adc_q2_p
adc_q2_n ADC_Q2_N adc_q2_n
adc_q1_p ADC_Q1_P adc_q1_p
adc_q1_n ADC_Q1_N adc_q1_n
adc_q0_p ADC_Q0_P adc_q0_p
adc_q0_n ADC_Q0_N adc_q0_n
adc_dm_p ADC_DM_P adc_dm_p
adc_dm_n ADC_DM_N adc_dm_n
adc_wck_p ADC_WCK_P adc_wck_p
adc_wck_n ADC_WCK_N adc_wck_n
adc_dclk_p ADC_DCLK_P adc_dclk_p
adc_dclk_n ADC_DCLK_N adc_dclk_n

adc_cal adc_cal
adc_sdio adc_sdio
adc_cs adc_cs
adc_sclk adc_sclk
adc_reset adc_reset

File: esp32.kicad_sch

File: usb.kicad_sch

File: ethernet.kicad_sch

File: fpga.kicad_sch

File: rf_receive.kicad_sch

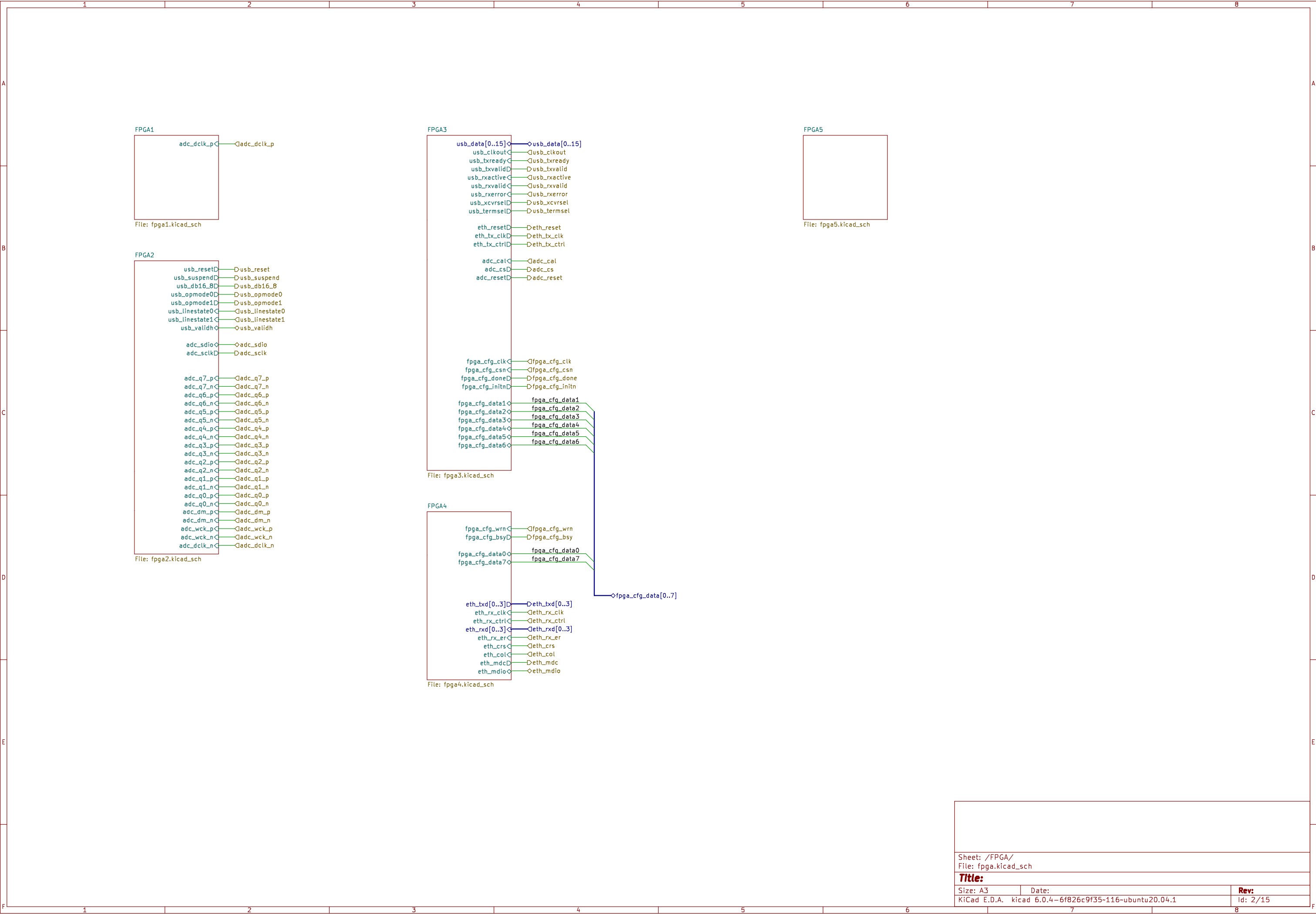
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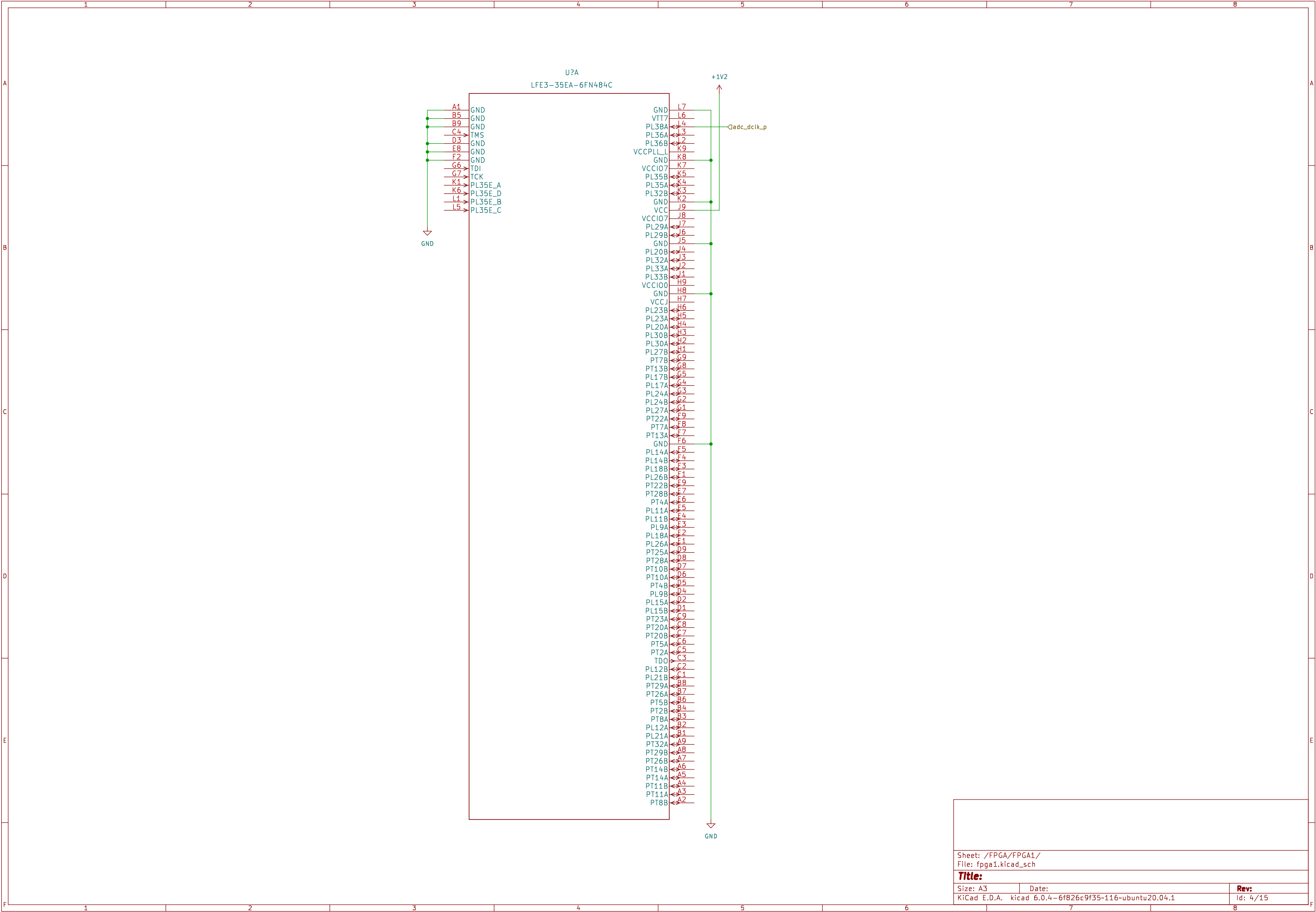
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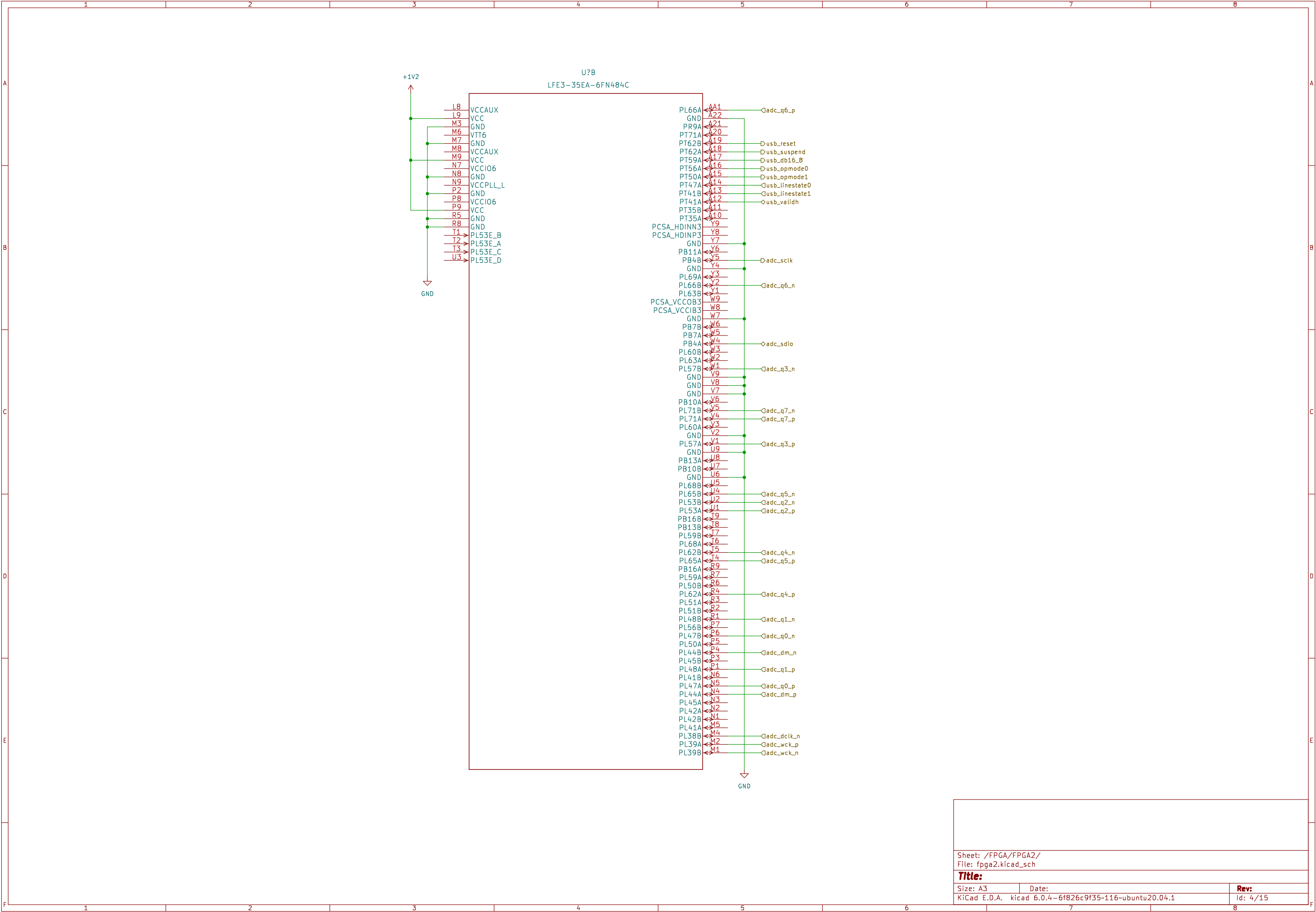
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KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1 Id: 1/15

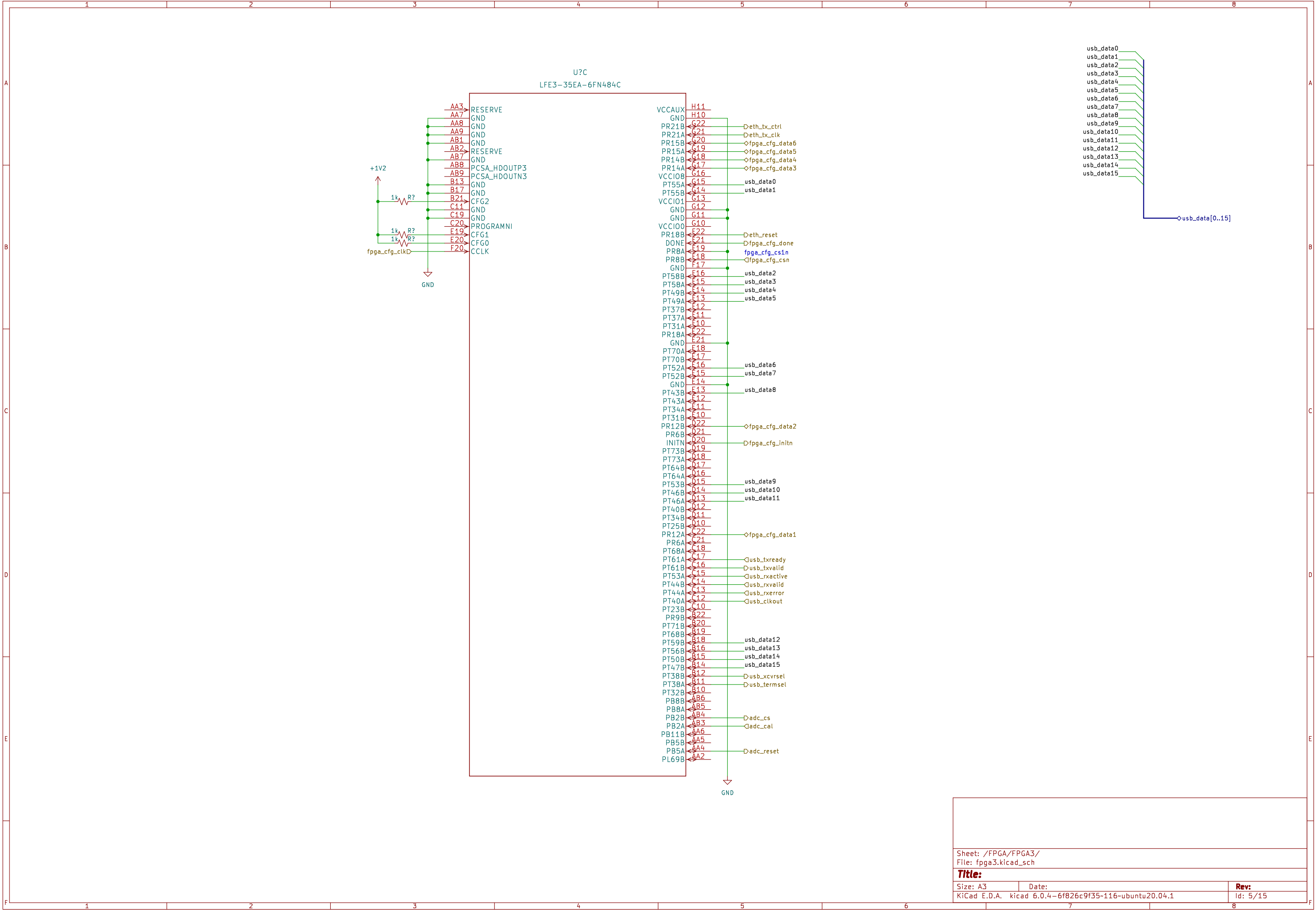
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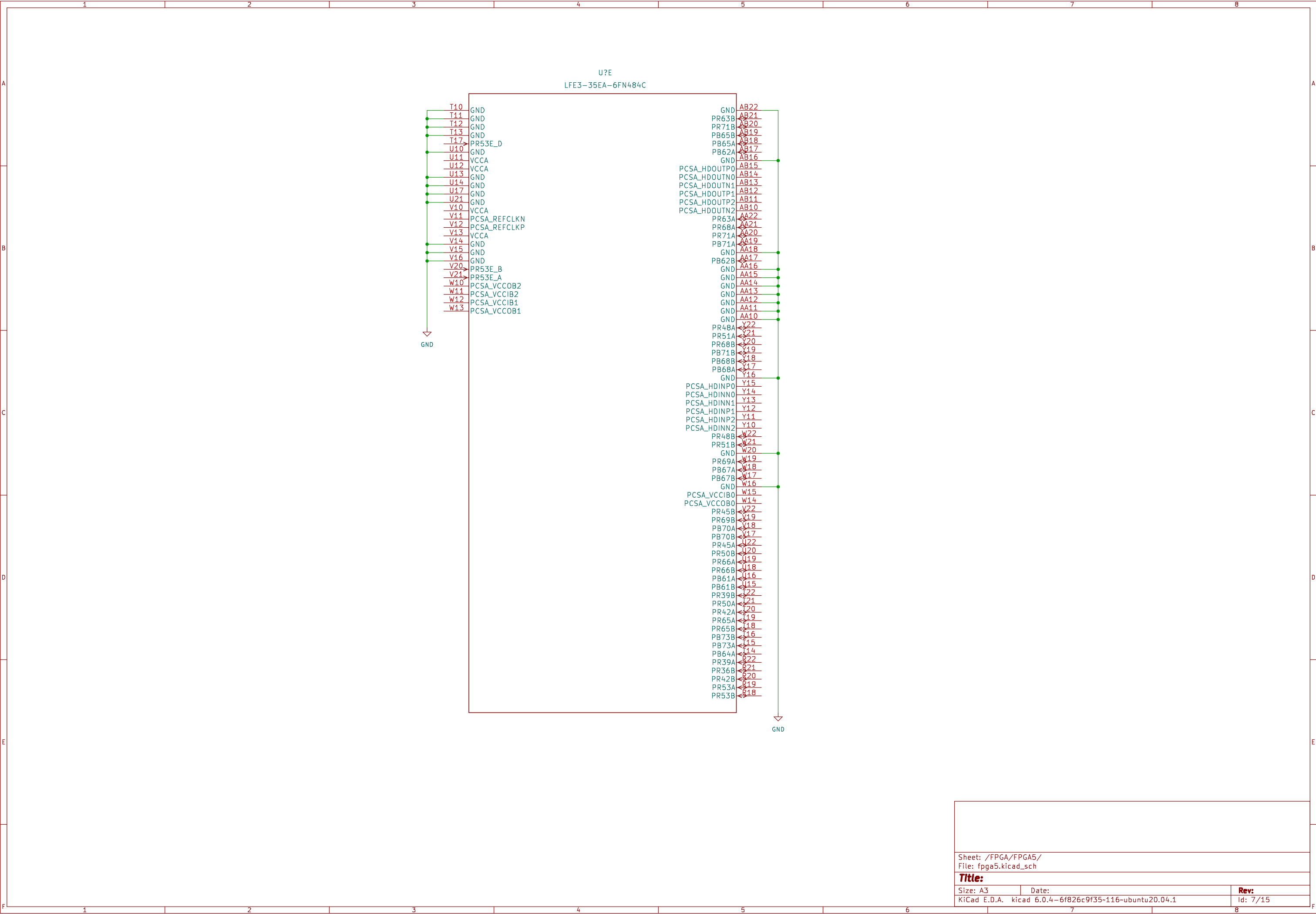
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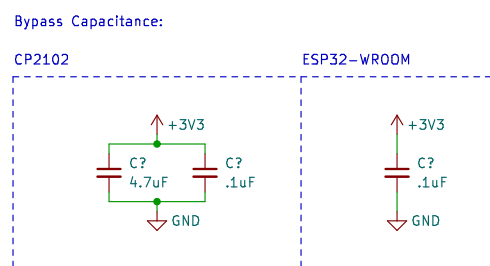


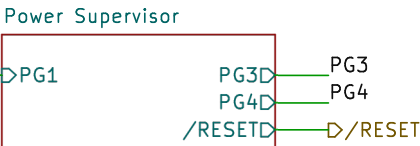
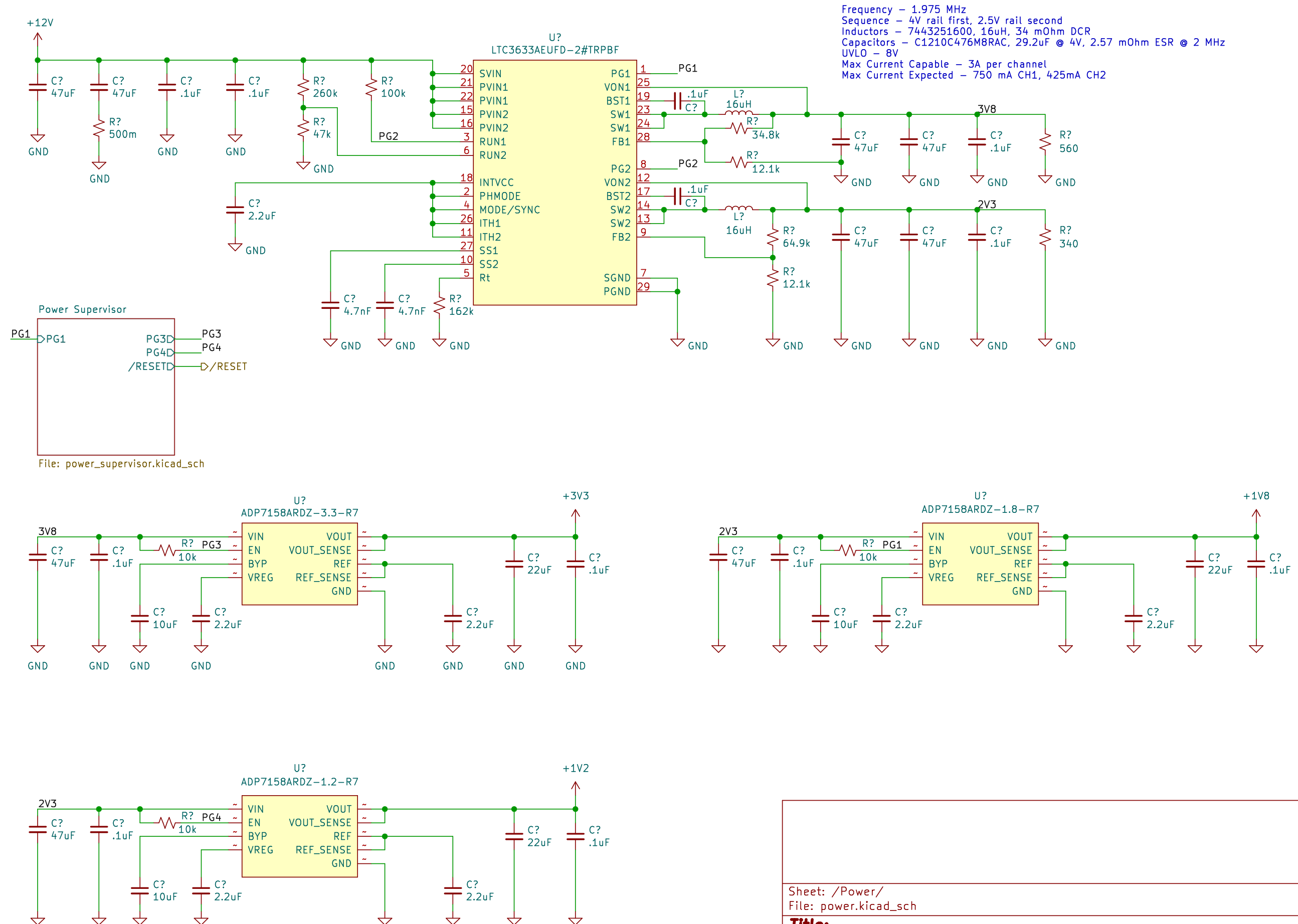








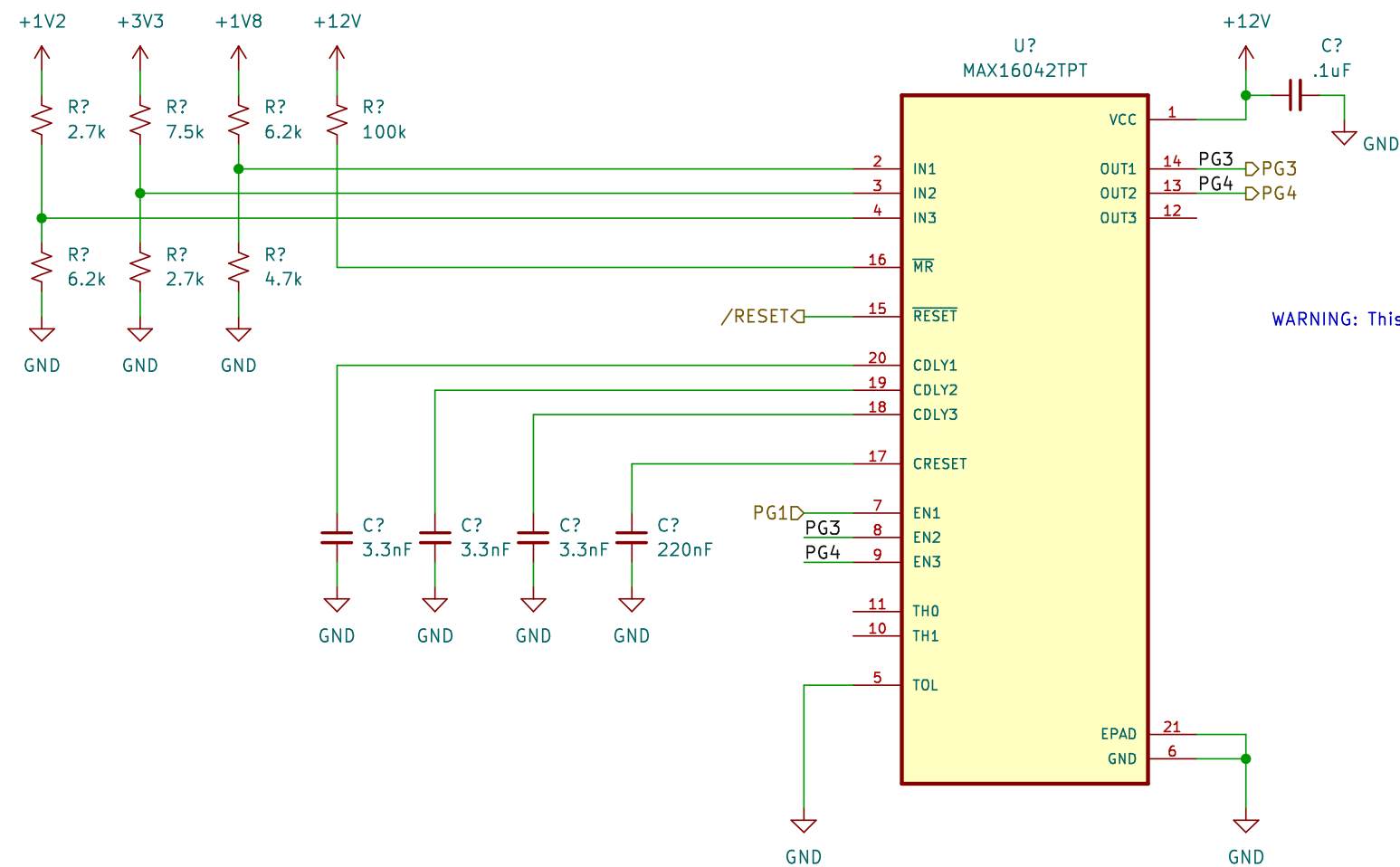


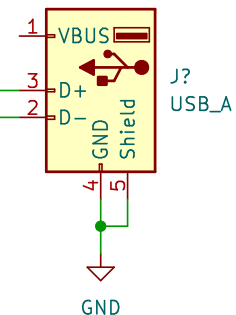


File: power_supervisor.kicad_sch

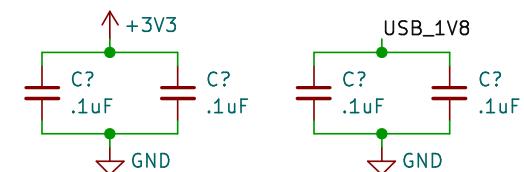
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Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. kicad 6.0.4-6f826c9f35-116-ubuntu20.04.1		Id: 9/15

Note: Pull-up Resistors for PG3 and PG4 on parent schematic sheet
Note: Float TH0 and TH1 to operate in adjustable threshold mode
Note: 3.3nF of capacitance on CDLY_ provides 13 ms of delay between each rail going high
Note: 220nF of capacitance on CDLY_ provides 220 ms of delay between each rail going high

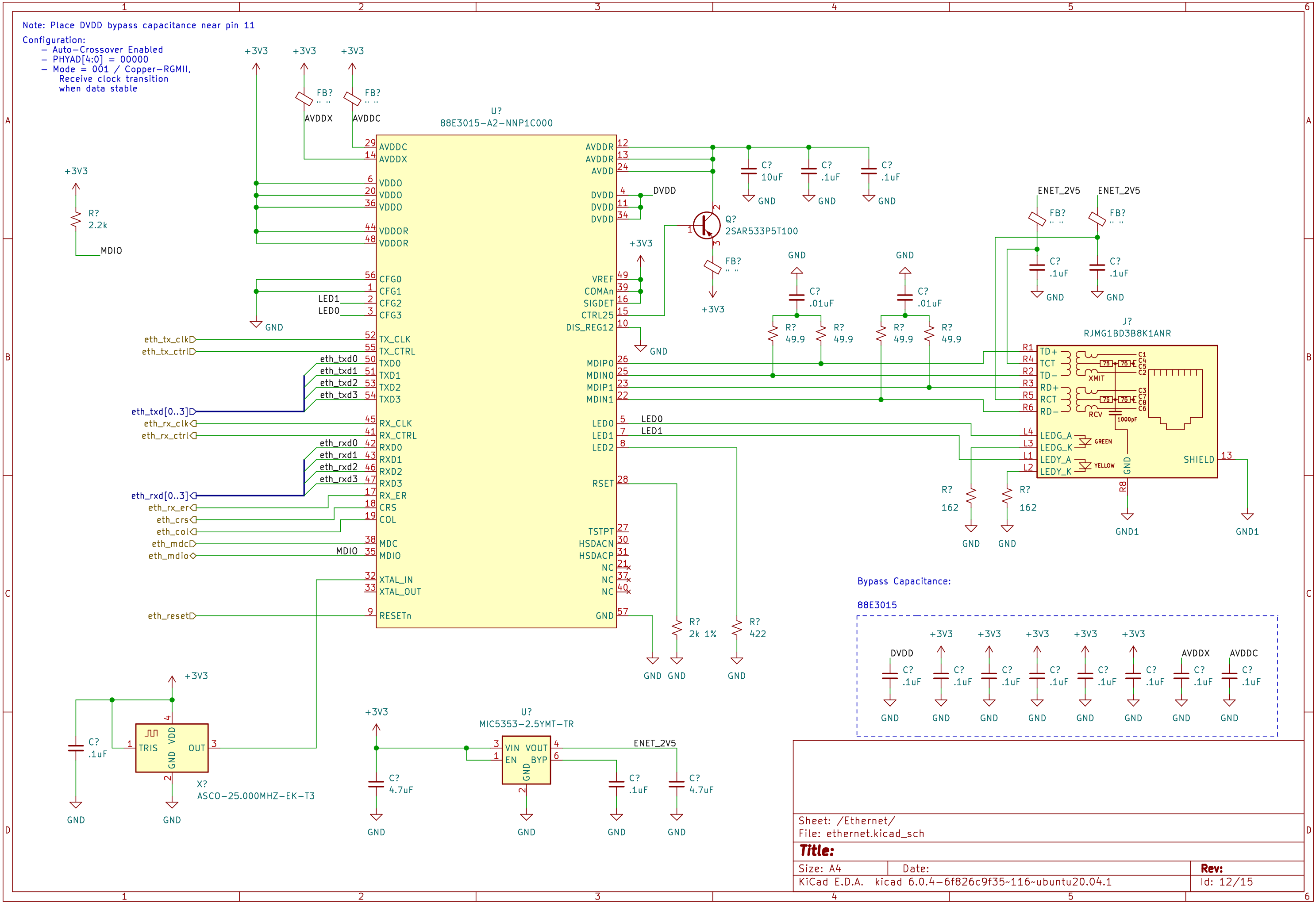


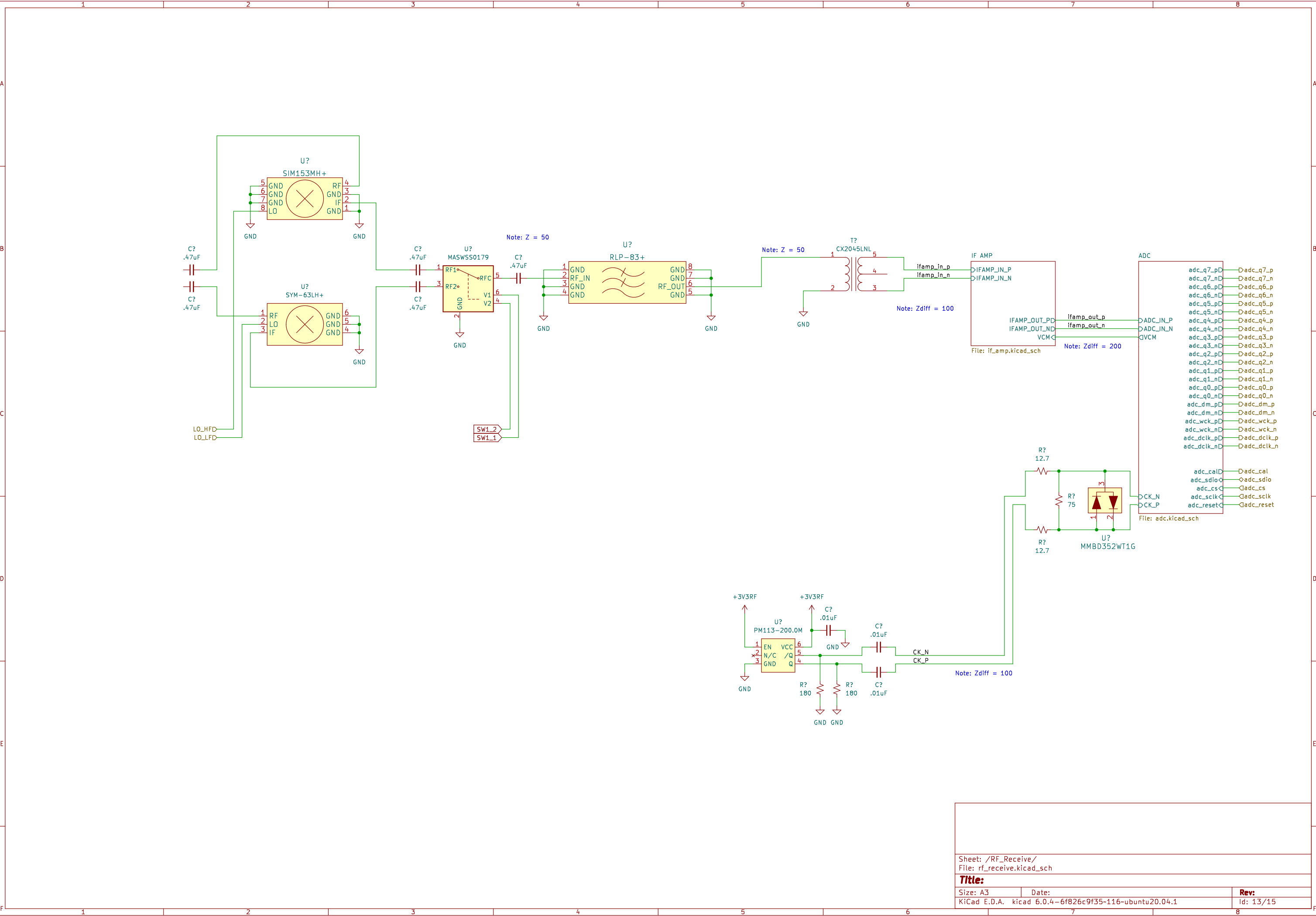


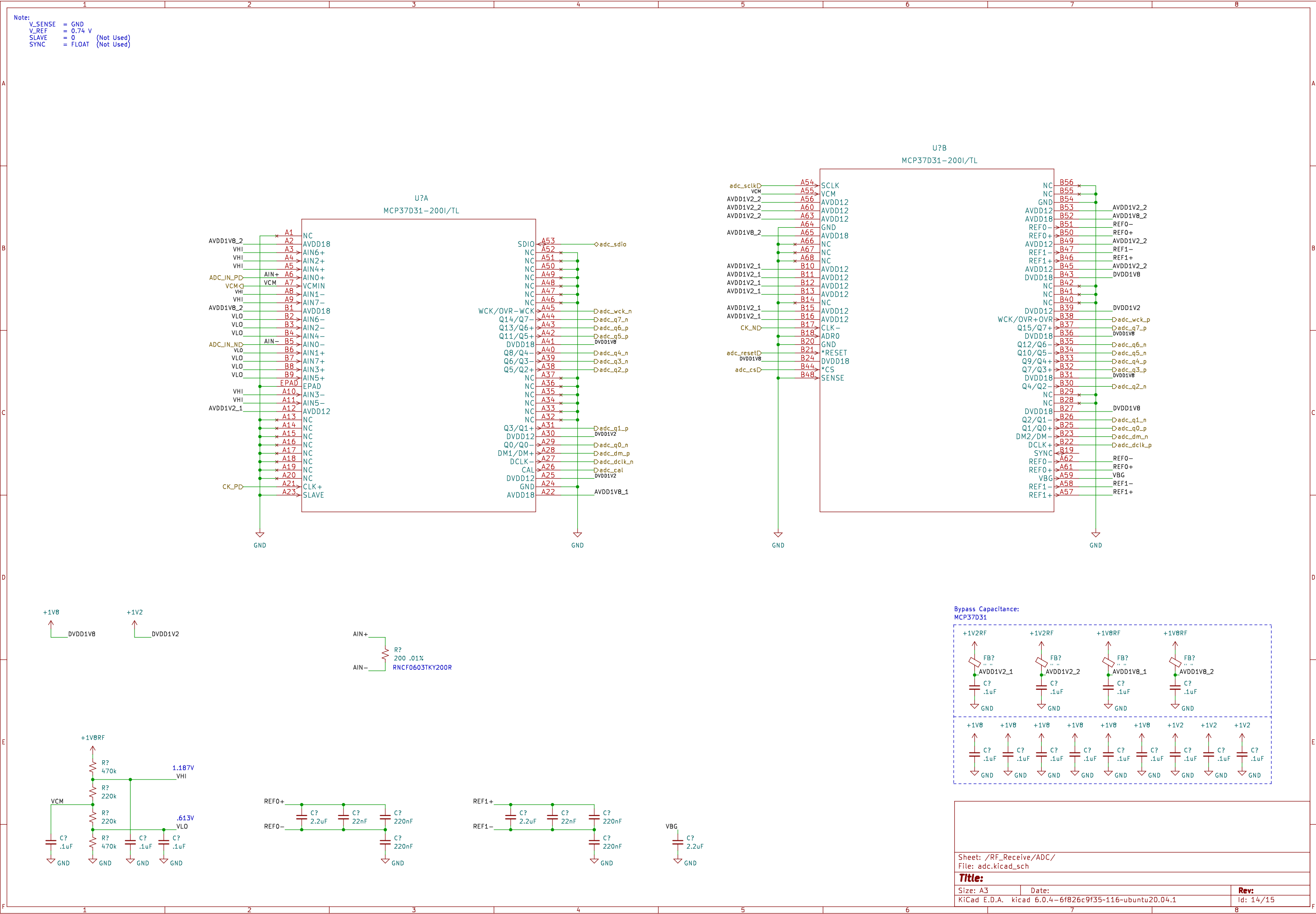
USB3250



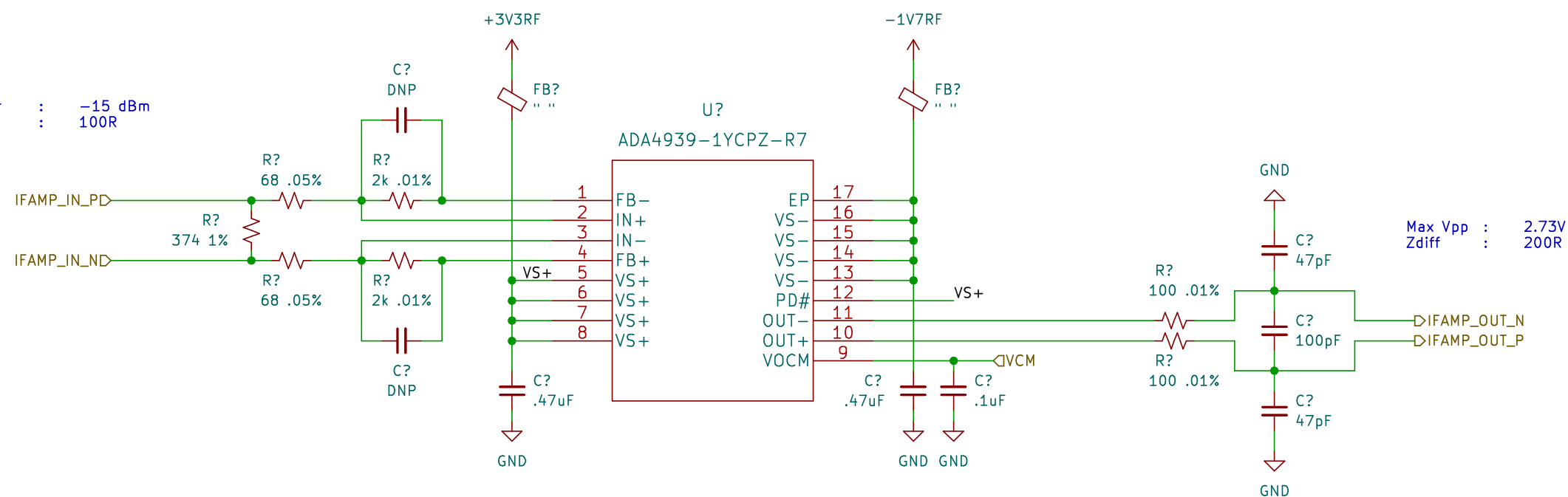
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Id: 11/15







Max Power : -15 dBm
Zdiff : 100R



Note: Reference has typographic error. LHS of equation should be V_{OUT}/V_{IN} .

In a terminated system, it is common practice to take the gain of the amplifier stage from the source to the load, or from $V_{IN\pm}$ to $V_{OUT\pm}$; so gain is given by

$$\frac{V_{IN\pm}}{V_{OUT\pm}} = \frac{R_L}{R_L + 2R_O} \times \frac{R_F}{R_G}. \quad (1)$$

https://www.ti.com/lit/an/slyt326/slyt326.pdf?ts=1655353125313&ref_url=https%253A%252F%252Fwww.google.com%252F

Sheet: /RF_Receive/IF AMP/
File: if_amp.kicad_sch

Title:

Size: A4

Date:

Rev:

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Id: 15/15