

Wojciech Kaczmarek, SP5WWP

M17 Project

Sheet: /
File: m17-rru-rf.kicad_sch

Title: M17 Remote Radio Unit – RF board

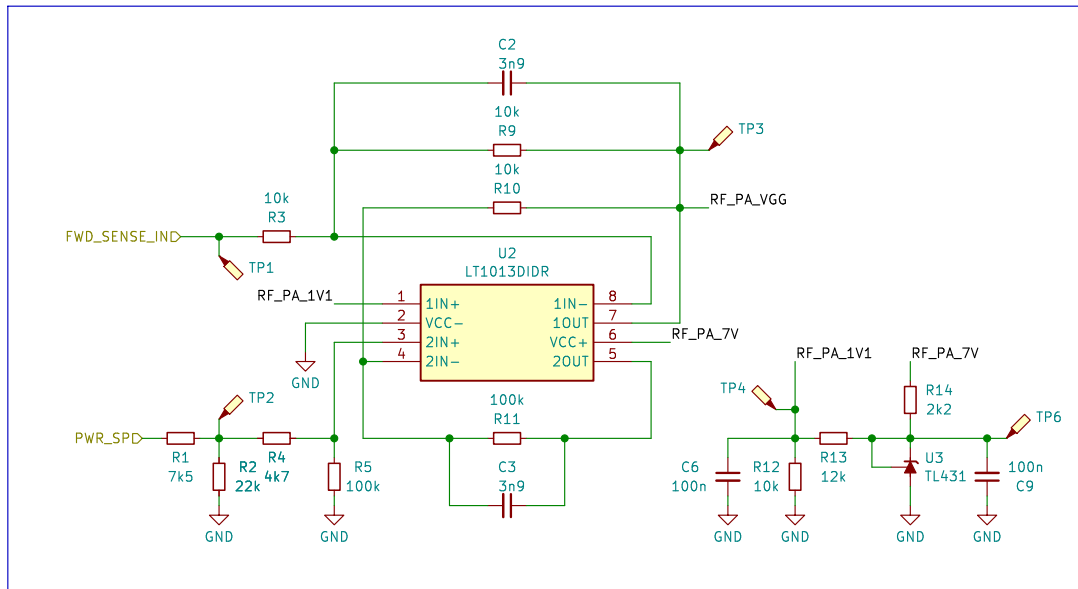
Size: A3 Date: 10-10-2023

KiCad E.D.A. kicad 7.0.8

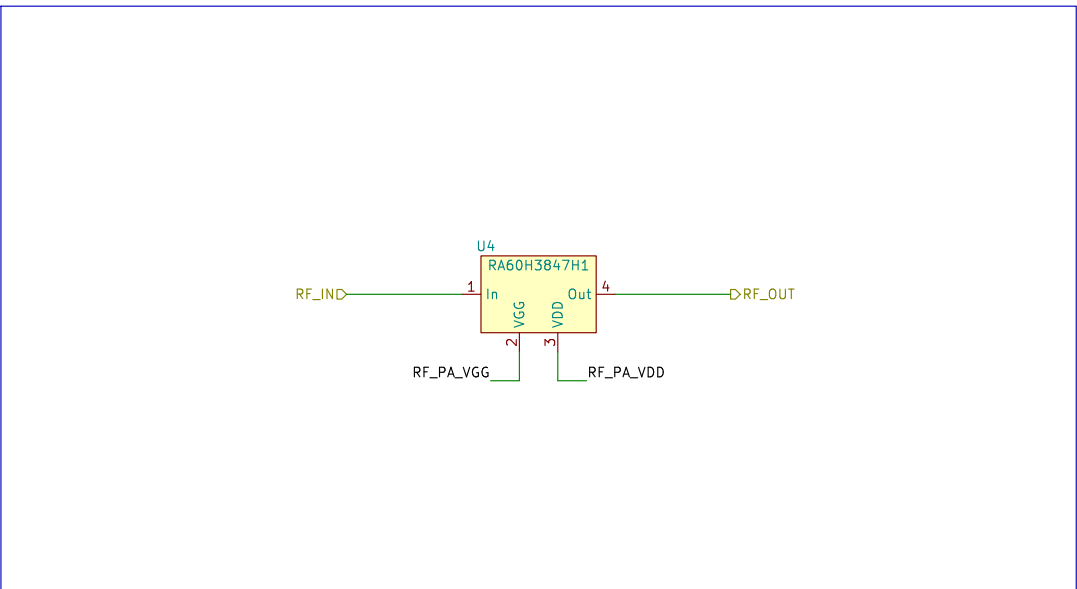
Rev: A

Id: 1/11

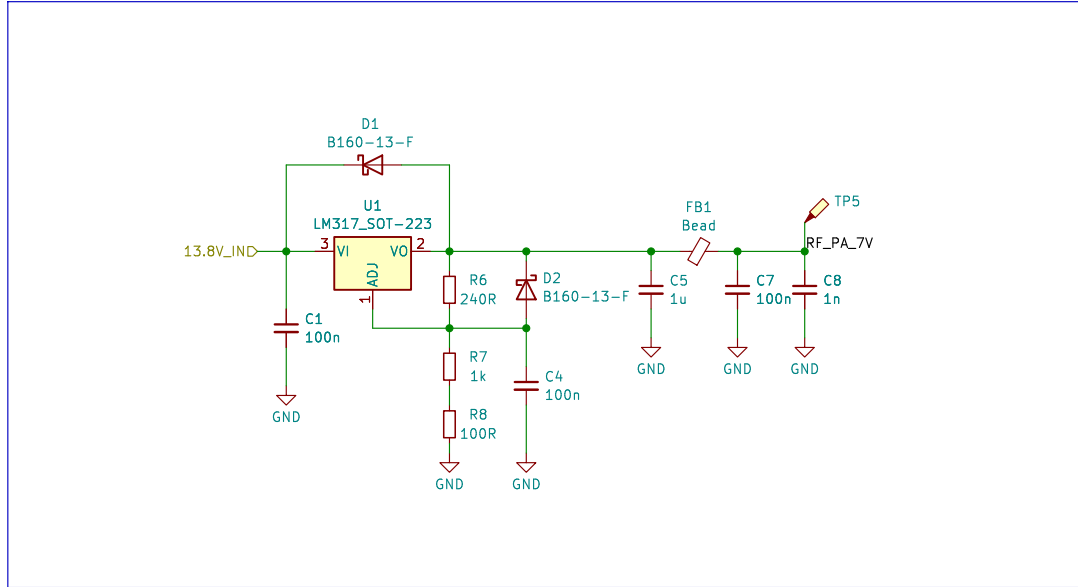
ALC



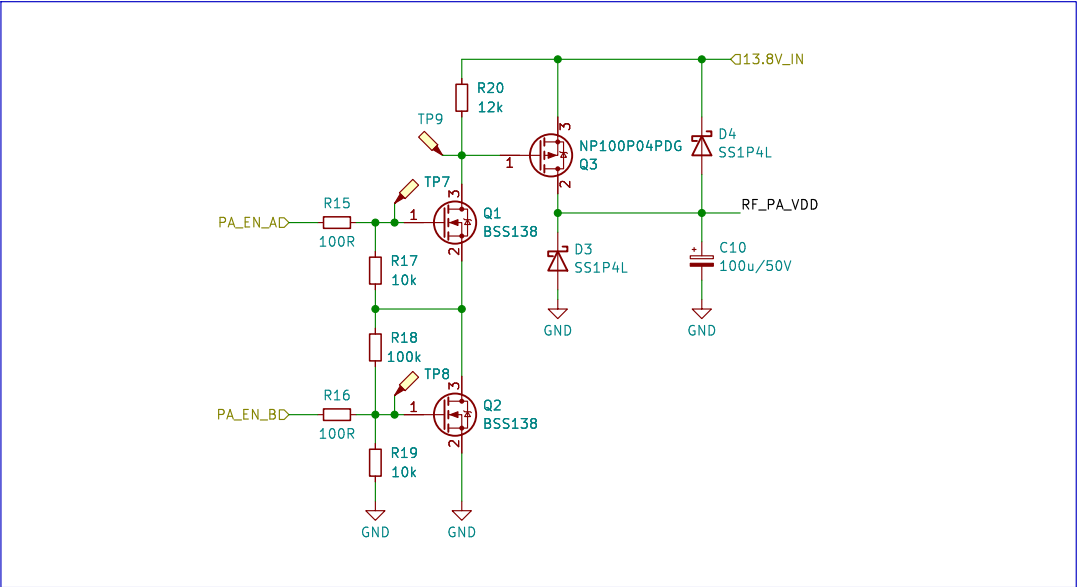
RF PA



Voltage reg.



Supply switching



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Sheet: /RF PA/

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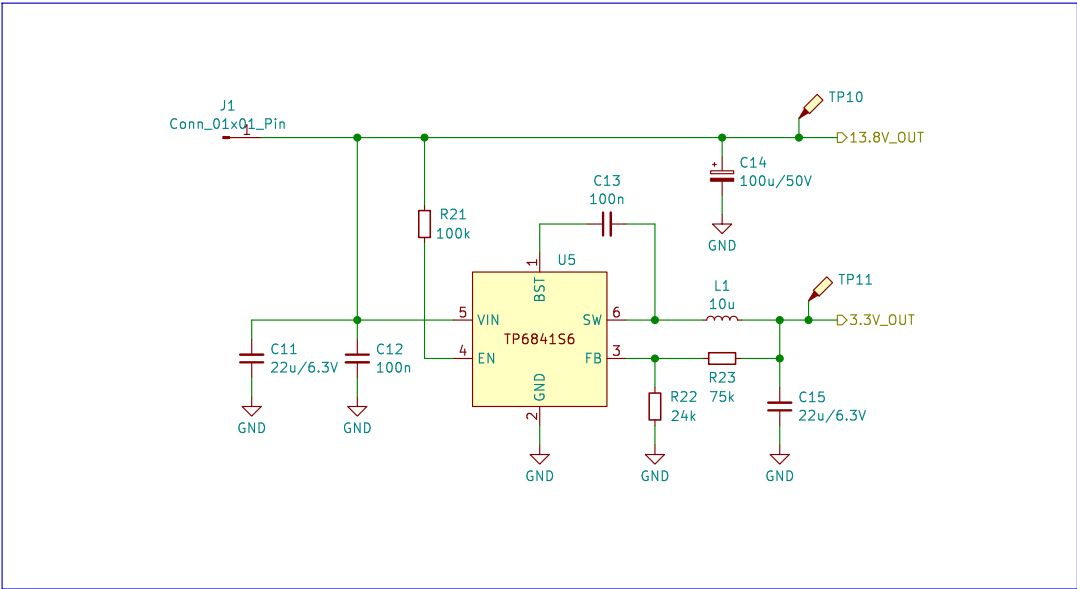
Date: 10-10-2023

Rev: A

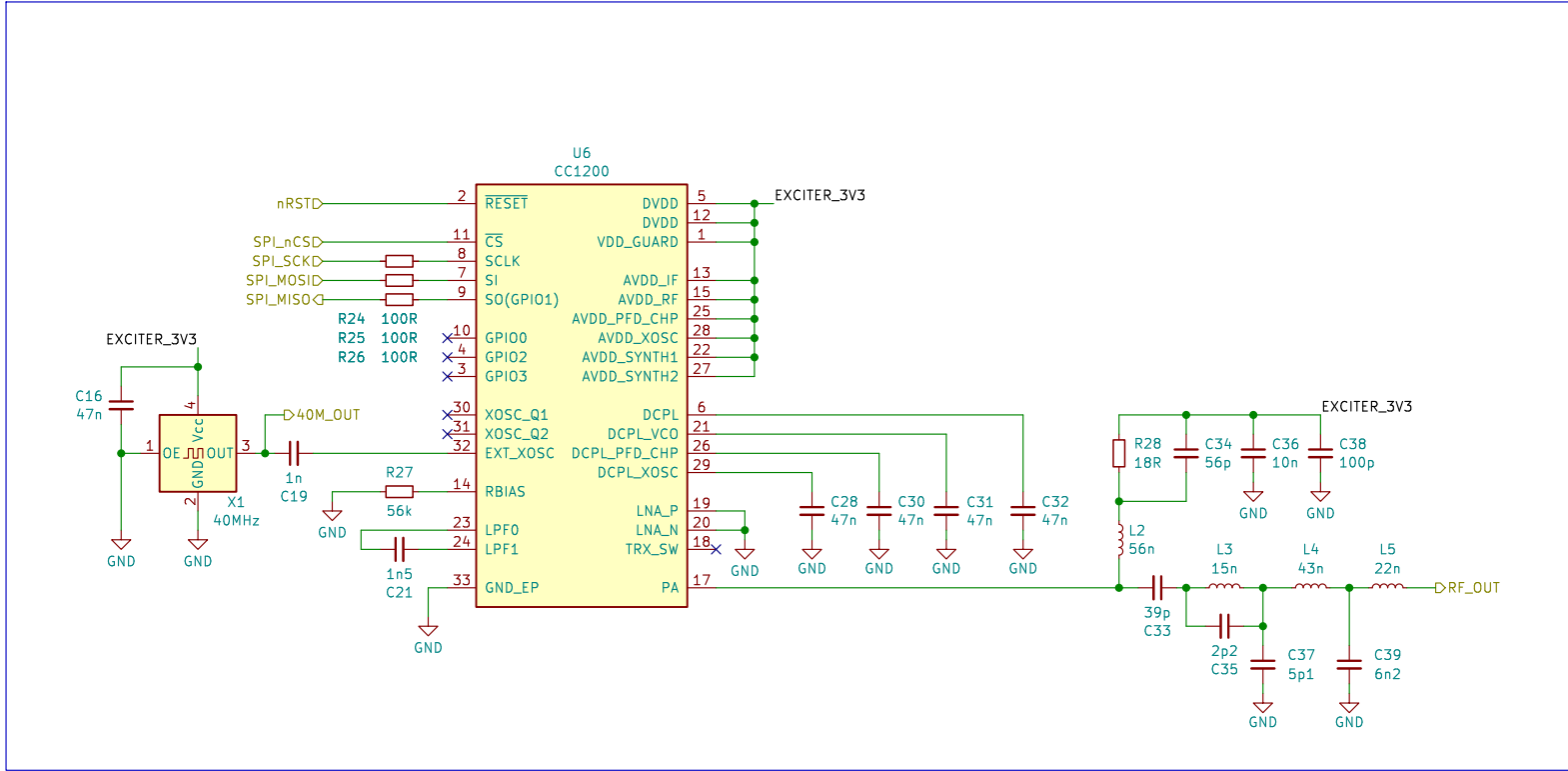
KiCad E.D.A. kicad 7.0.8

Id: 2/11

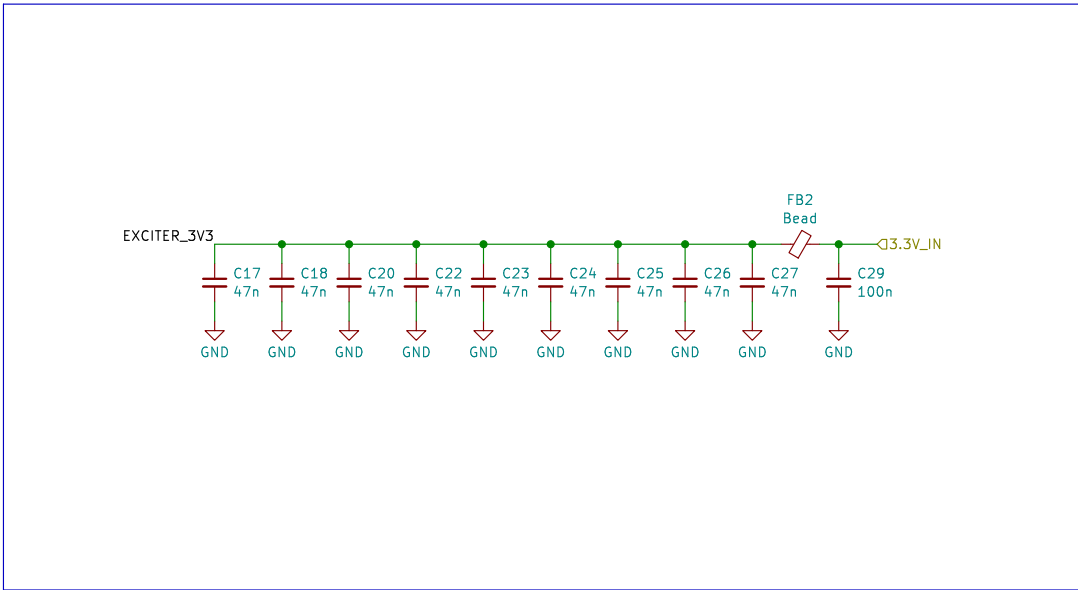
Voltage reg.



Exciter



Decoupling



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M17 Project

Sheet: /Exciter/

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M17 Project

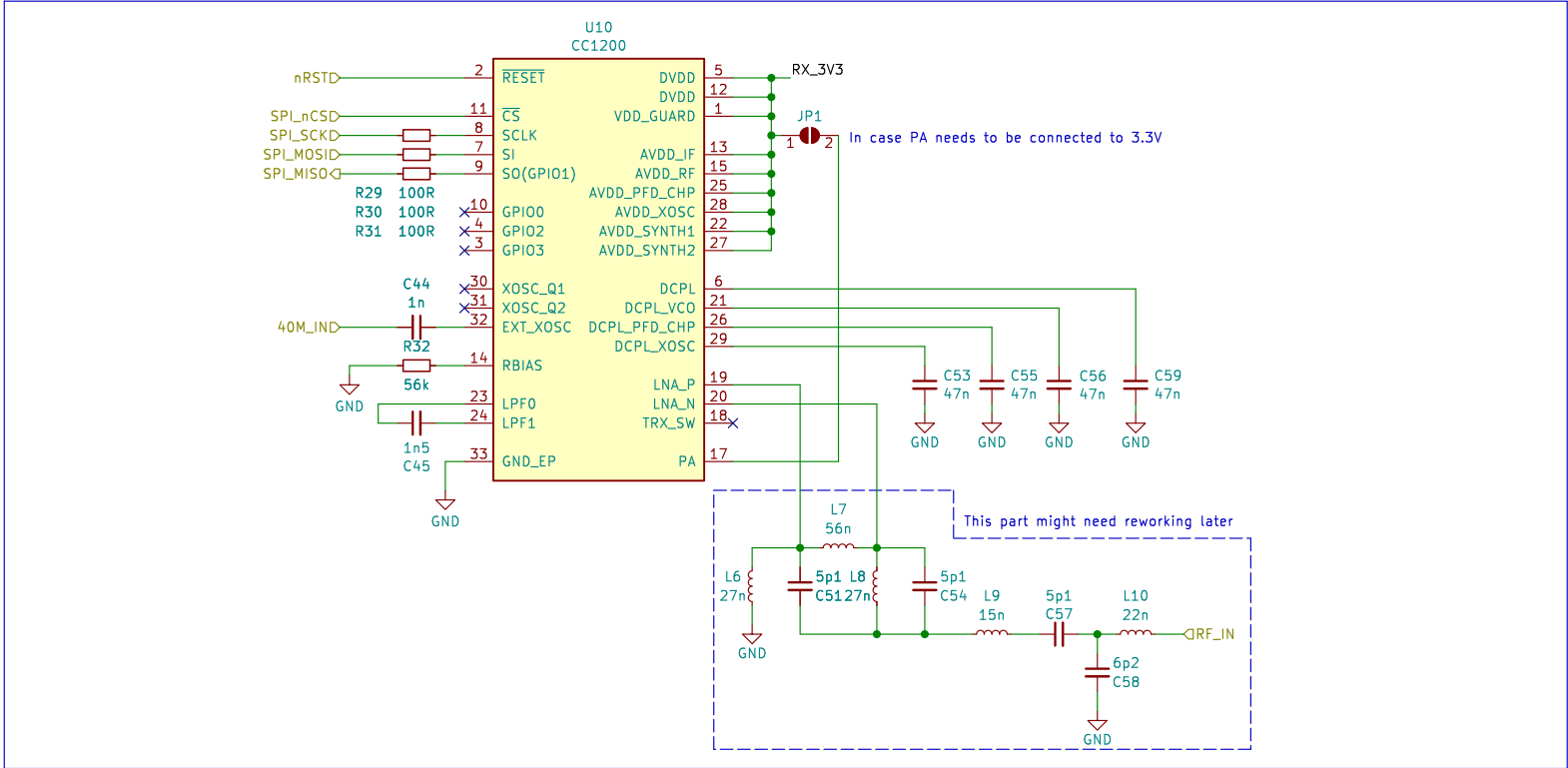
File: rf_cpl.kicad_sch

Size: A3	Date: 10-10-2023
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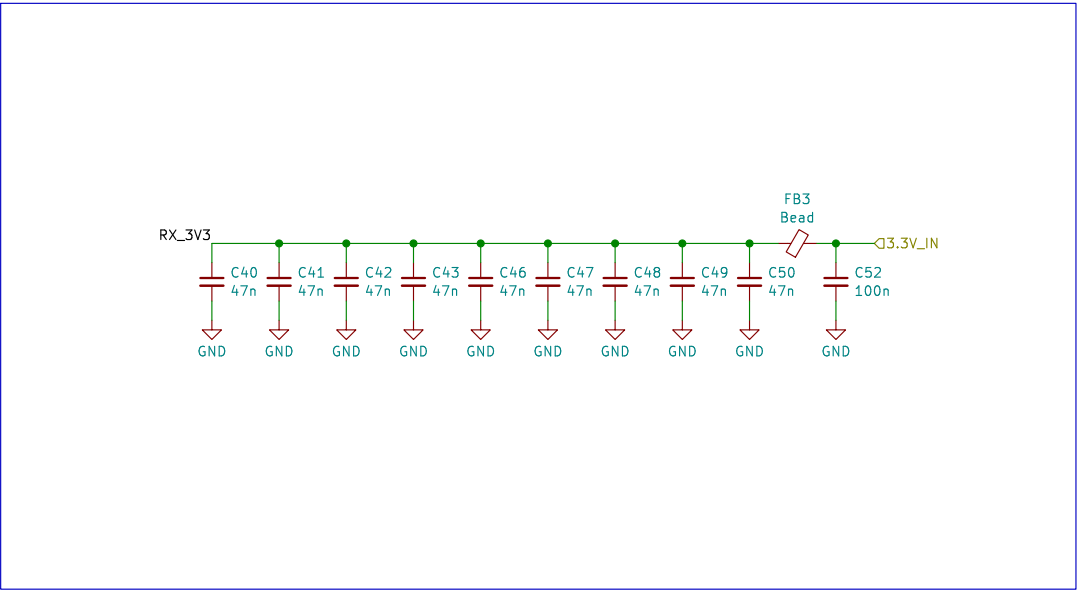
Rev: A

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Receiver



Decoupling



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M17 Project

Sheet: /Receiver/

File: rx.kicad_sch

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Size: A3

Date: 10–10–2023

Rev: A

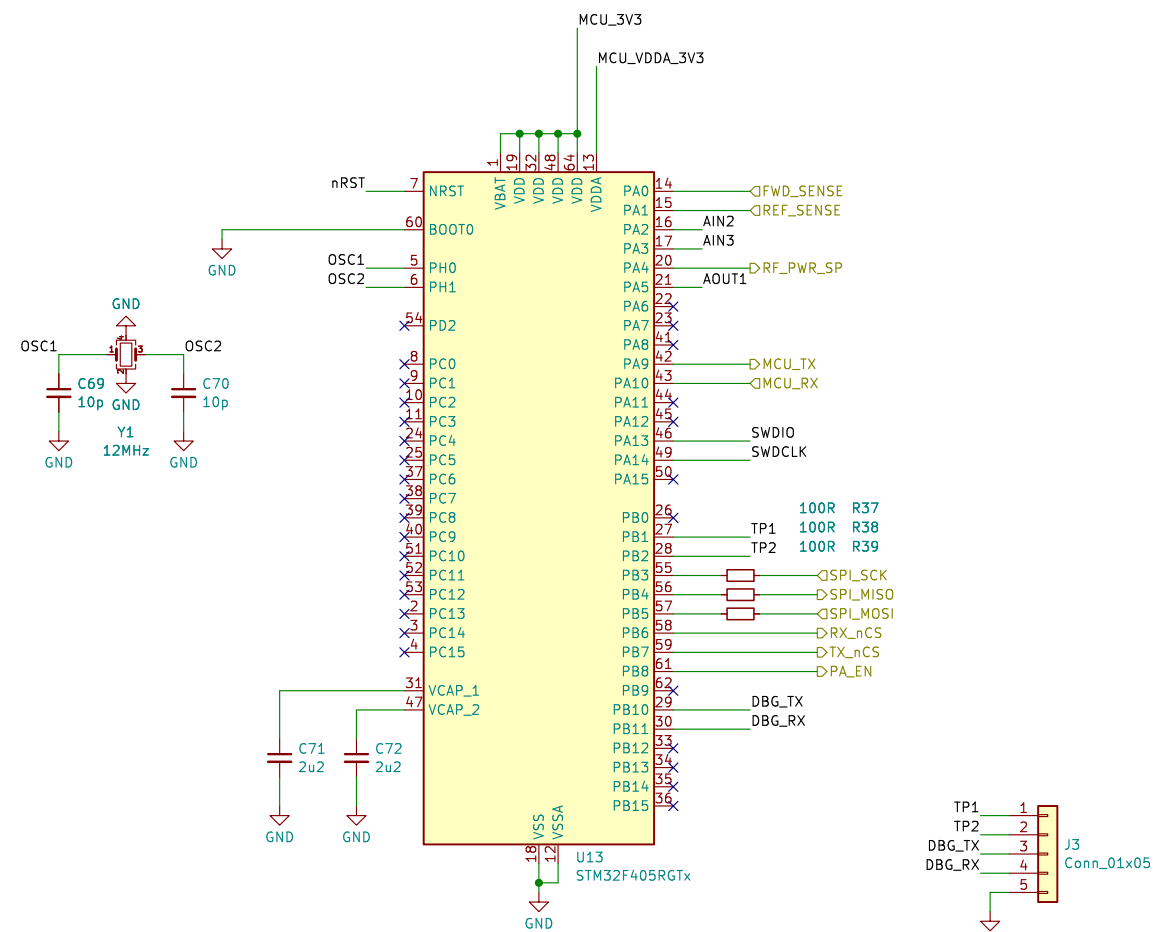
KiCad E.D.A. kicad 7.0.8

Id: 6/11

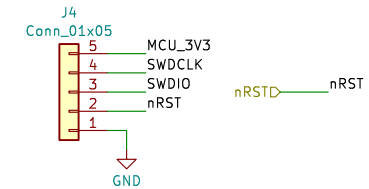
[illegible]

The diagram shows a power plane layout for a 3V3 supply. The input signal 3V3_IND is connected to a 1uF capacitor (C60) which is grounded. The signal then passes through an FB4 Bead to the RF_DET_3V3 node. This node is connected to a 100nF capacitor (C63) and a 1nF capacitor (C65), both of which are grounded.

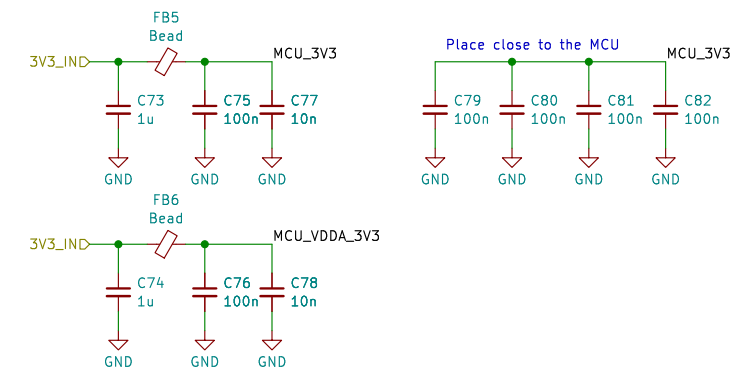
MCU



SWD



Decoupling



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M17 Project

Sheet: /MCU/

File: mcu.kicad_sch

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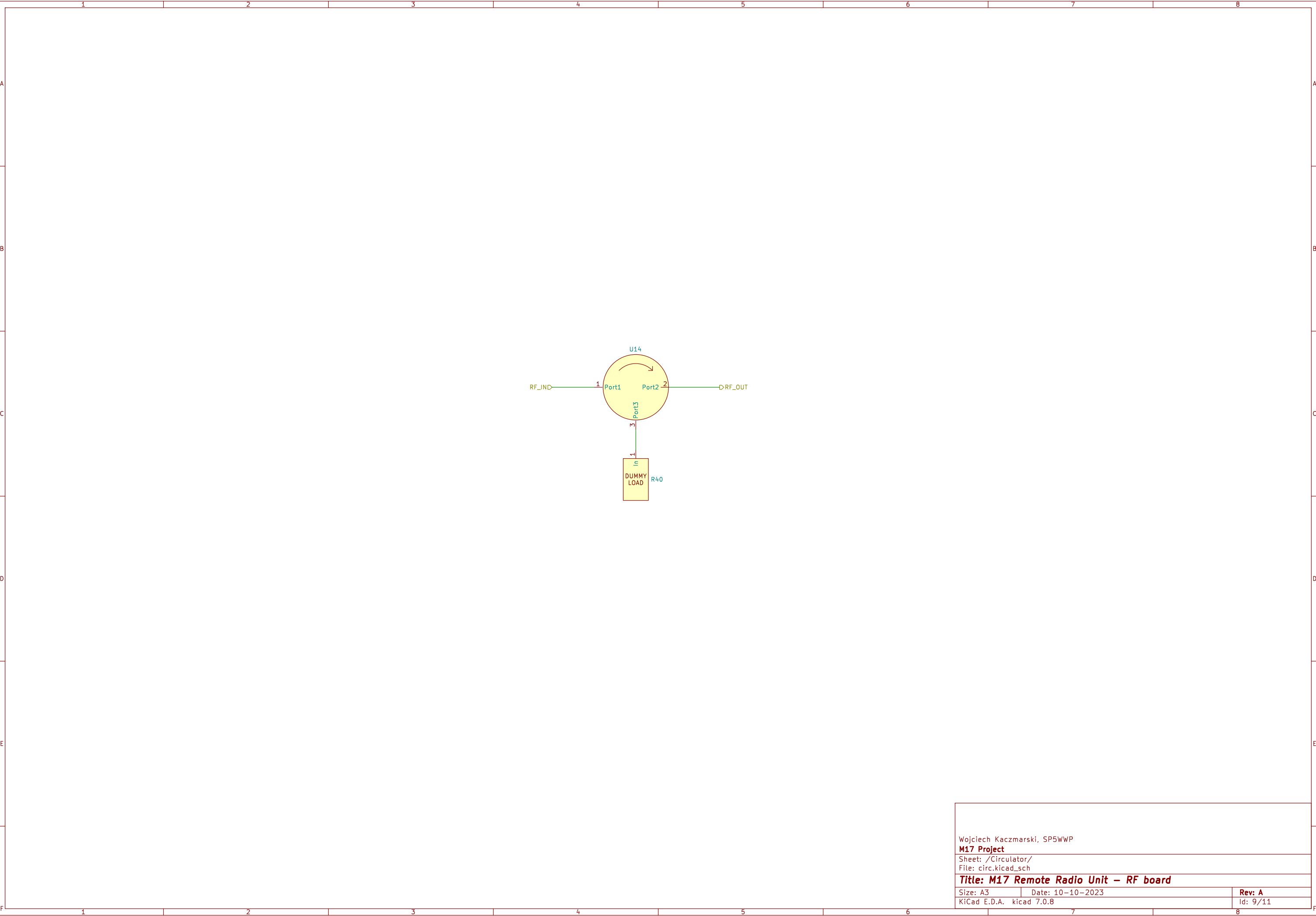
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Date: 10-10-2023

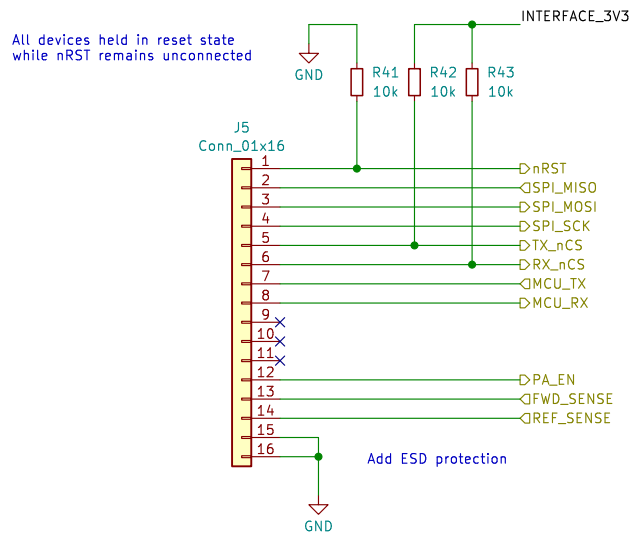
Rev: A

KiCad E.D.A. kicad 7.0.8

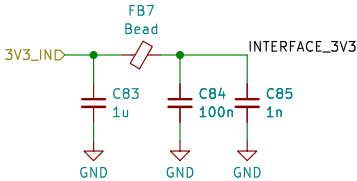
Id: 8/11



External connector



Decoupling



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M17 Project

Sheet: /Interface/

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