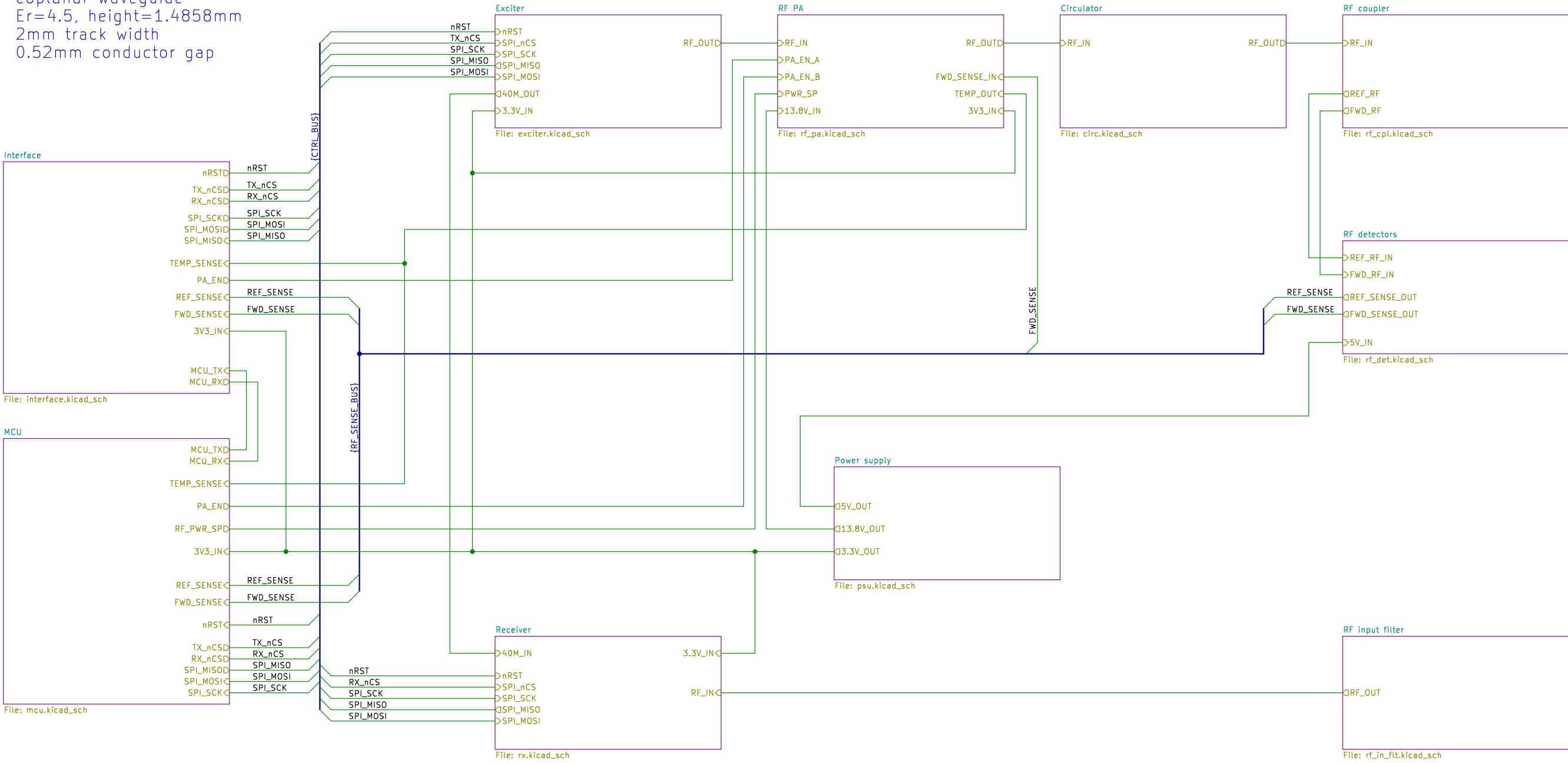


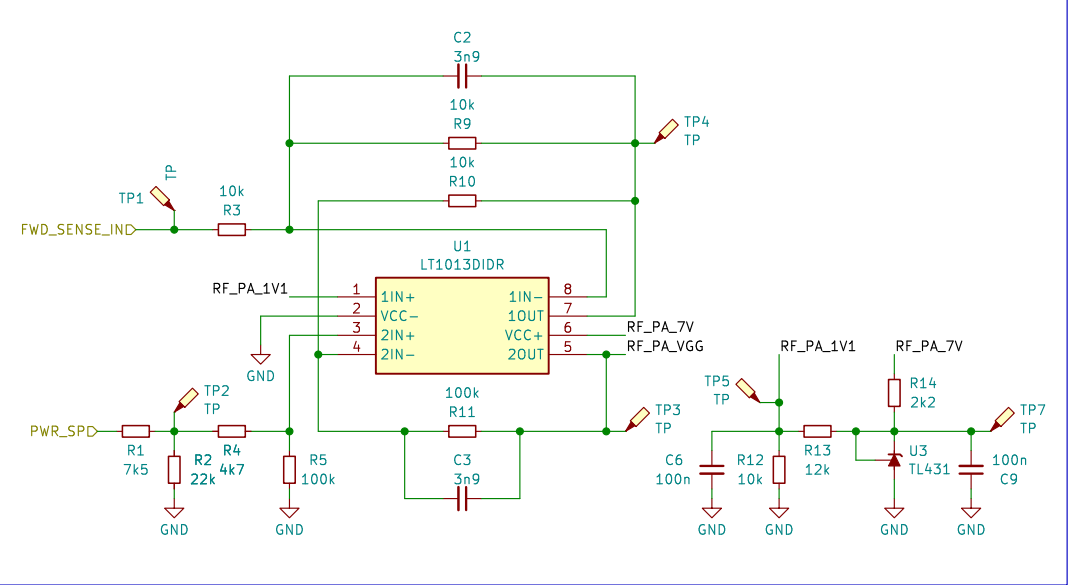
Low power RF tracks:
coplanar waveguide
Er=4.4, height=0.2104mm
0.25mm track width
0.052mm conductor gap

High power RF tracks:
coplanar waveguide
Er=4.5, height=1.4858mm
2mm track width
0.52mm conductor gap

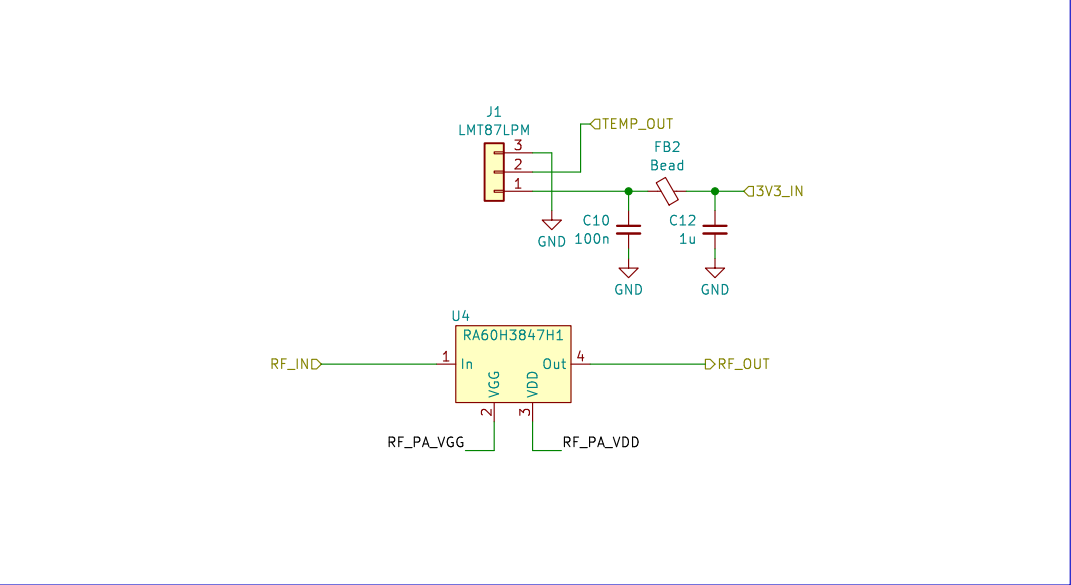


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M17 Project		
Sheet: /		
File: m17-rru-rf.kicad_sch		
Title: M17 Remote Radio Unit – RF board		
Size: A3	Date: 28-10-2023	Rev: A
KiCad E.D.A. kicad 7.0.8		Id: 1/12

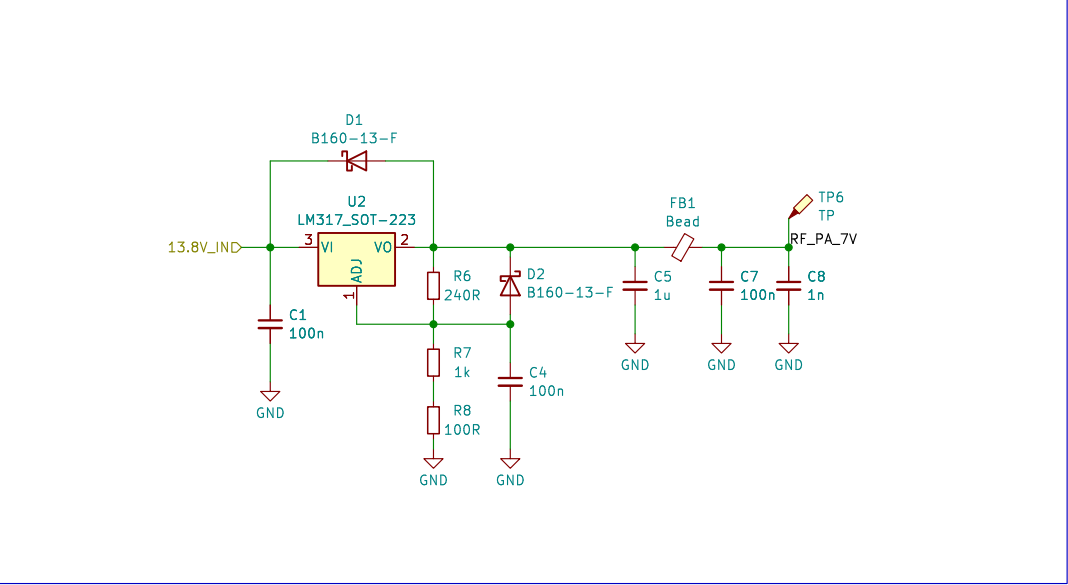
ALC



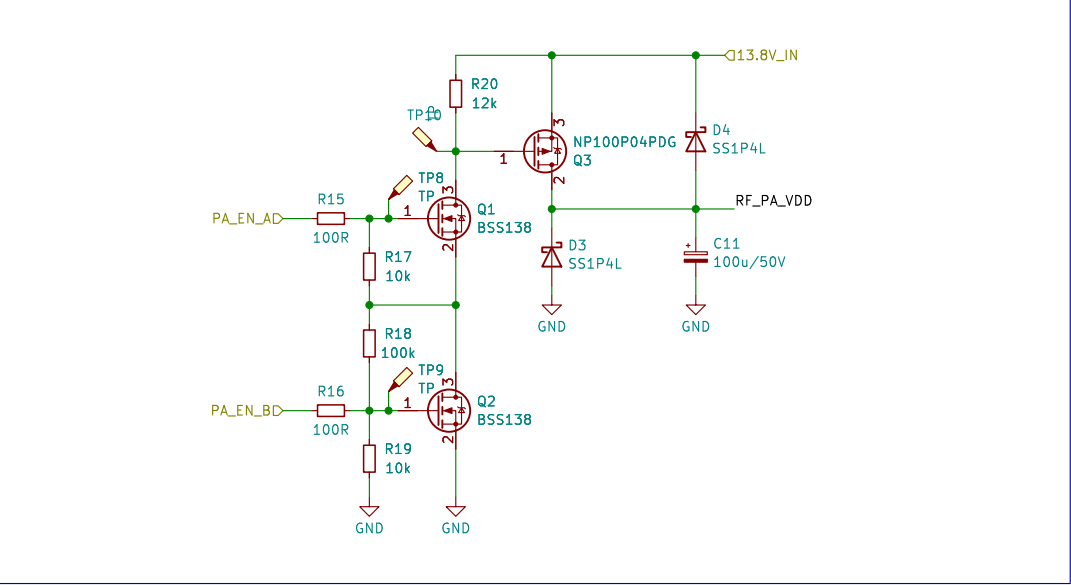
RF PA



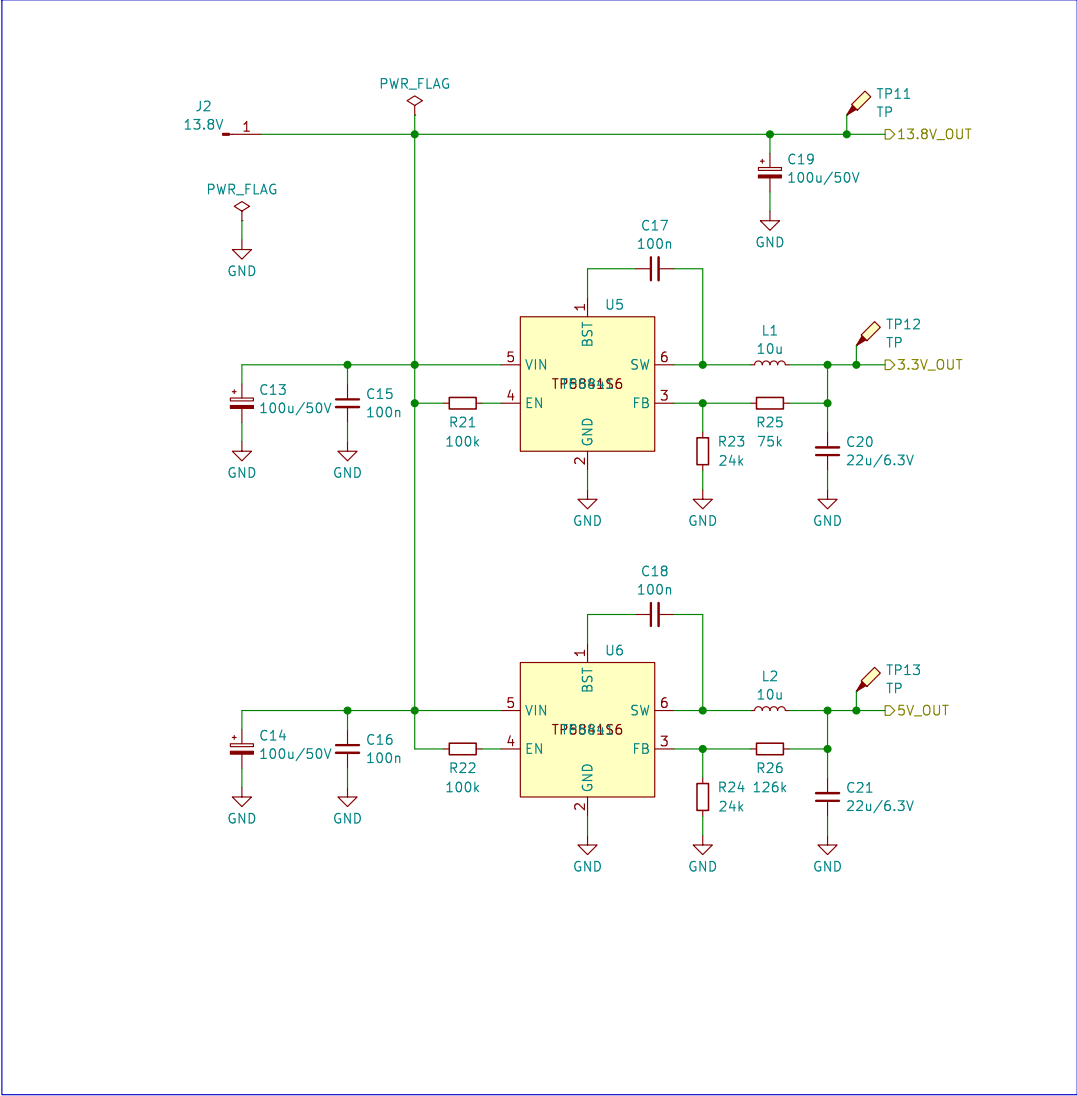
Voltage reg.



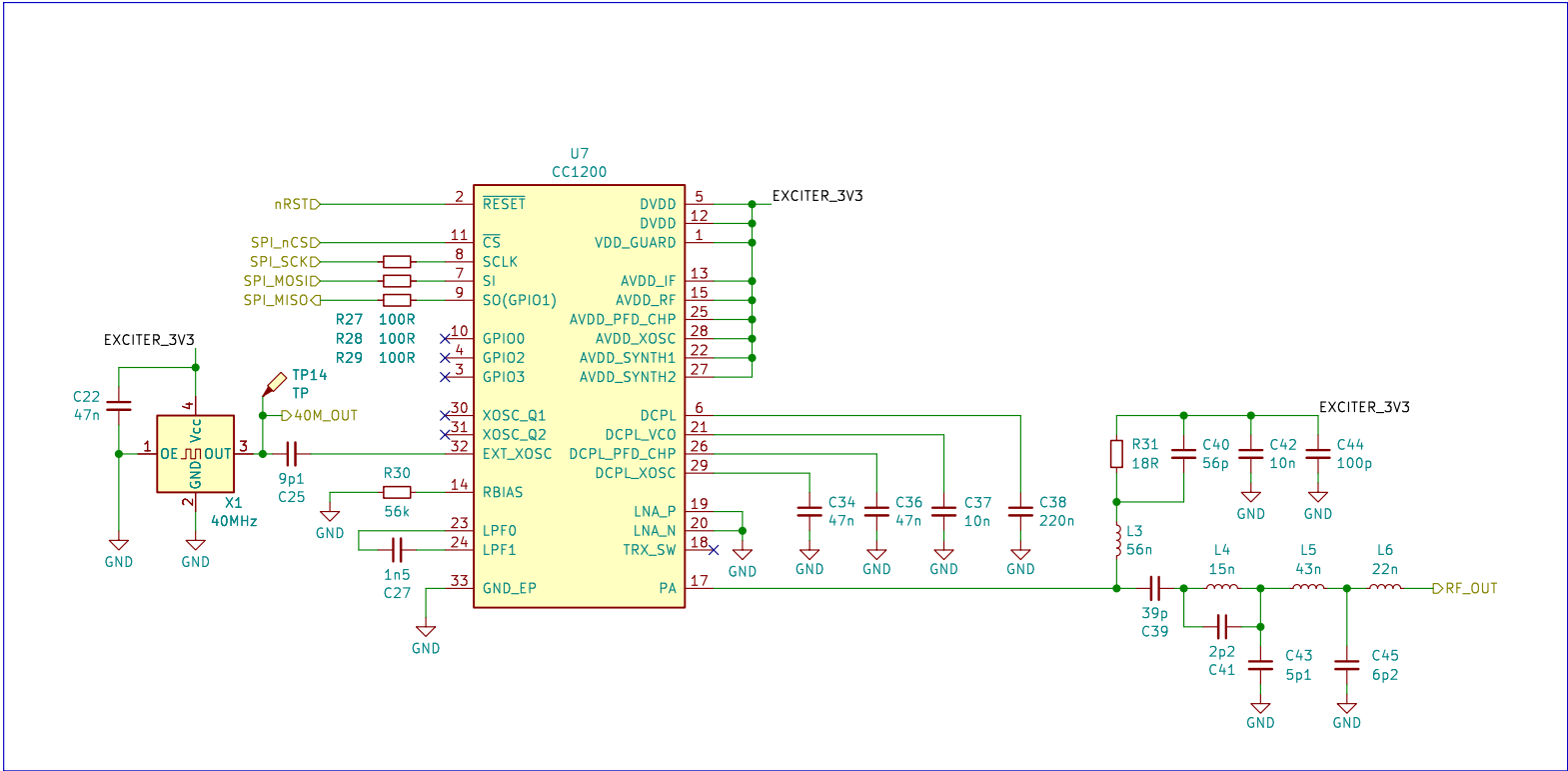
Supply switching



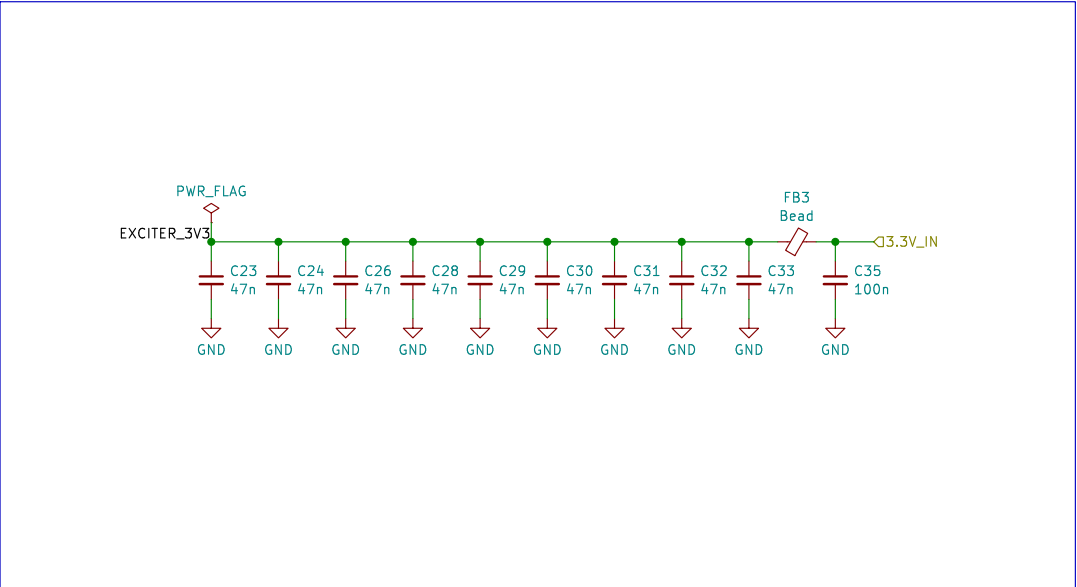
Voltage reg.



Exciter



Decoupling



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M17 Project

Sheet: /Exciter/

File: exciter.kicad_sch

Title: M17 Remote Radio Unit – RF board

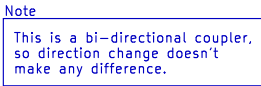
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Date: 28-10-2023

Rev: A

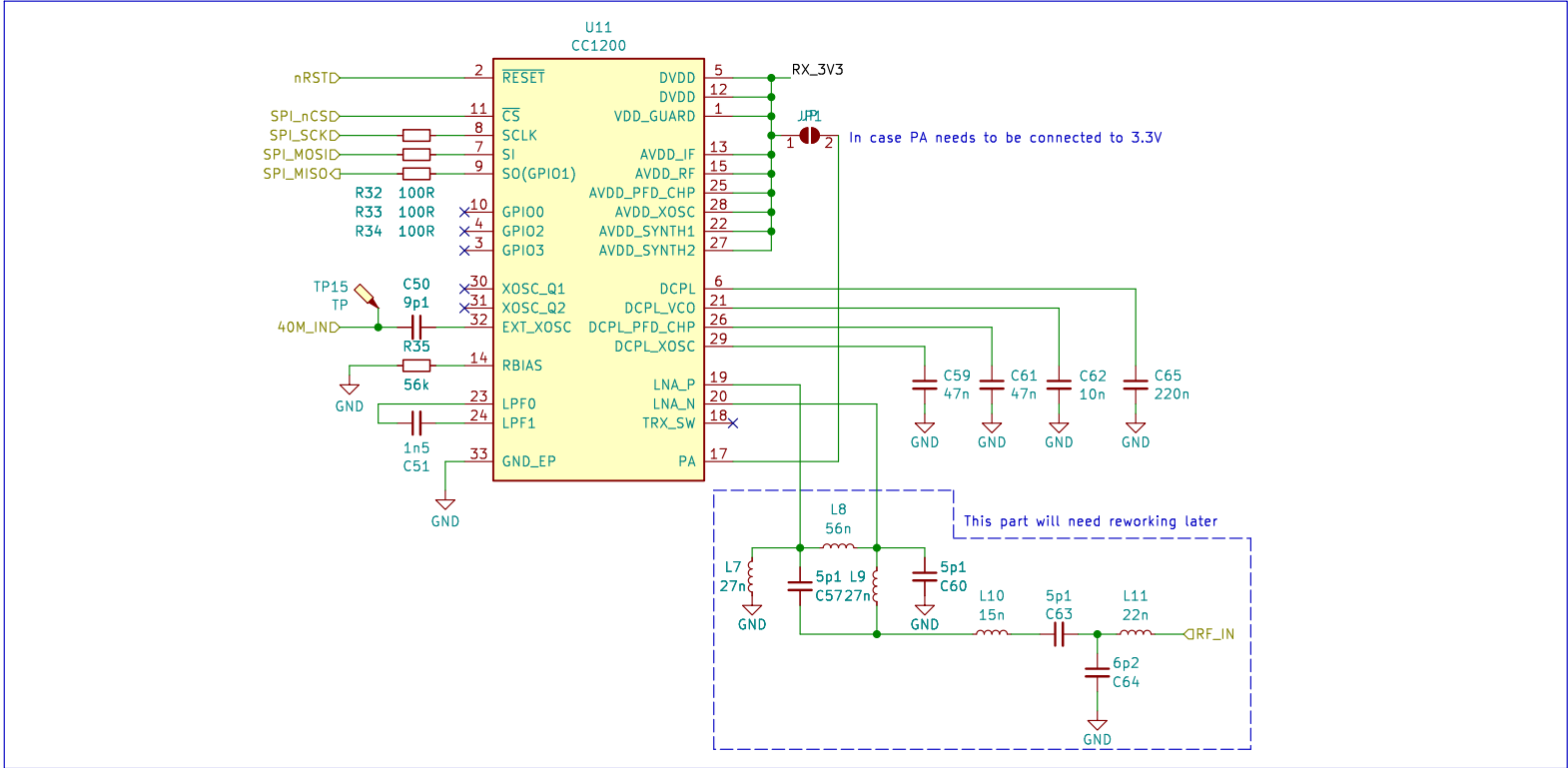
KiCad E.D.A. kicad 7.0.8

Id: 4/12

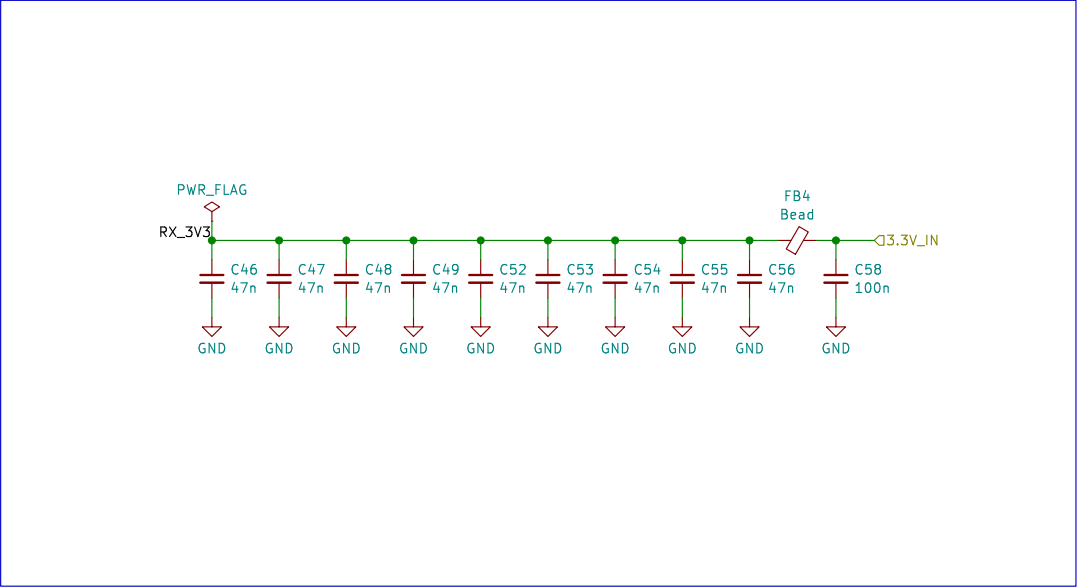


Size: A3	Date: 28-10-2023	Rev: A
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Receiver



Decoupling



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M17 Project

Sheet: /Receiver/

File: rx.kicad_sch

Title: M17 Remote Radio Unit – RF board

Size: A3

Date: 28-10-2023

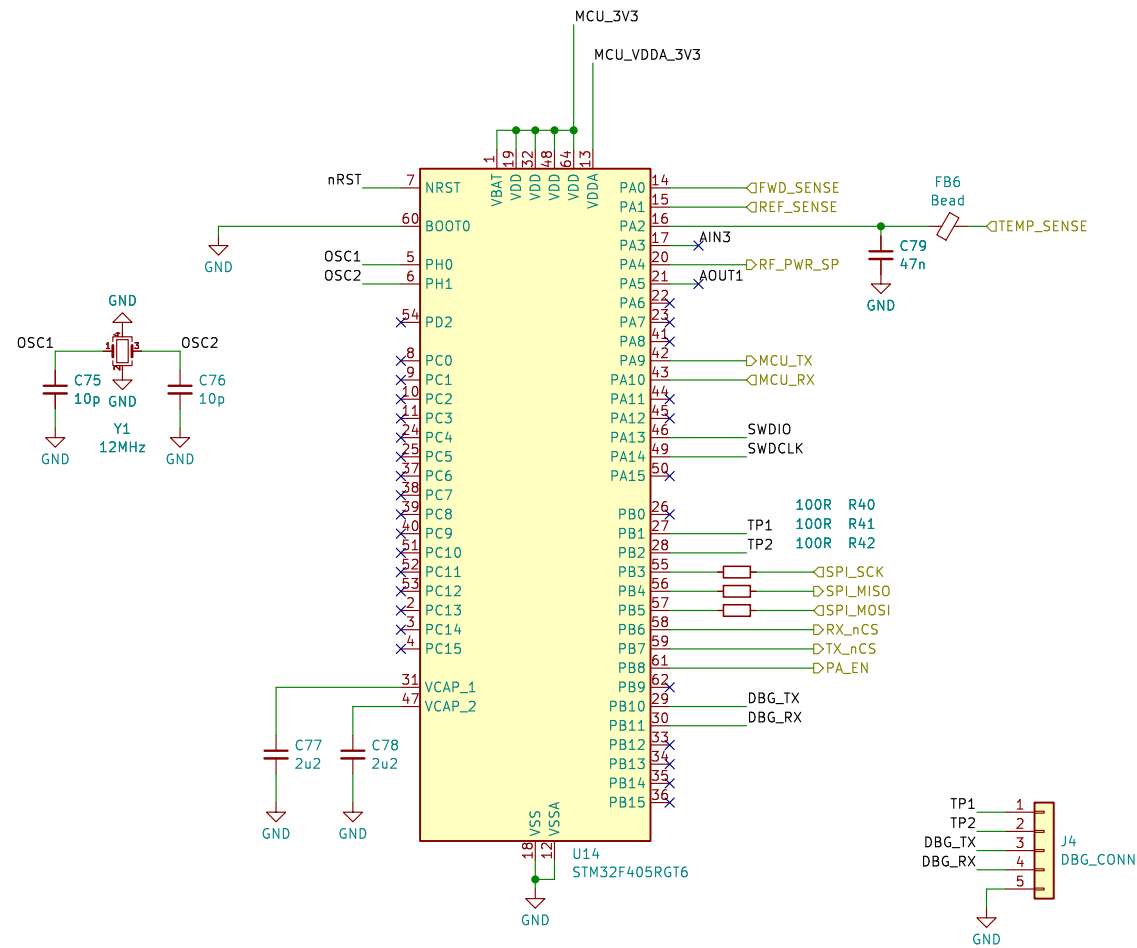
Rev: A

KiCad E.D.A. kicad 7.0.8

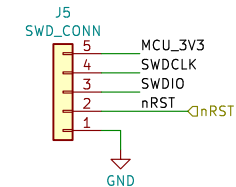
Id: 6/12

The schematic diagram illustrates the 5V power plane layout. It features a horizontal green line representing the power plane. On the left, a yellow arrow labeled "5V_IND" points to the start of the plane. Three decoupling capacitors are connected to ground (GND) at different points along the plane: C66 (1uF) is the first, followed by C69 (100nF), and C71 (1nF) is the last. A red diamond symbol labeled "RF_DET_5V" is connected to the plane between C69 and C71. Above the plane, a red rectangle labeled "FB5 Bead" is positioned between the first and second capacitor locations. A label "PWR_FLAG" is placed above the plane to the right of the bead.

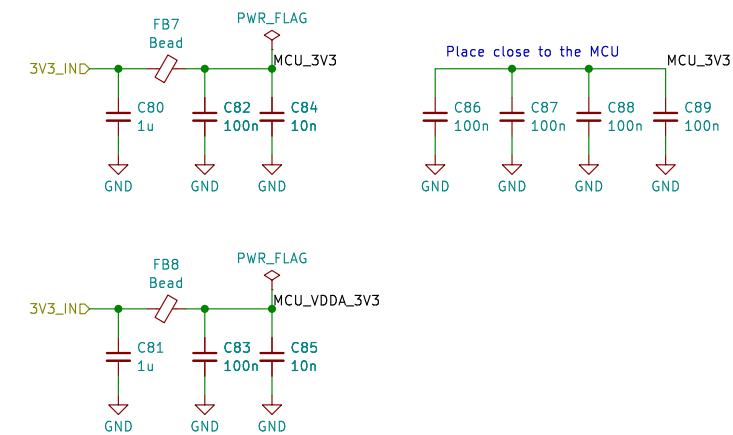
MCU



SWD



Decoupling



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M17 Project

Sheet: /MCU/

File: mcu.kicad_sch

Title: M17 Remote Radio Unit – RF board

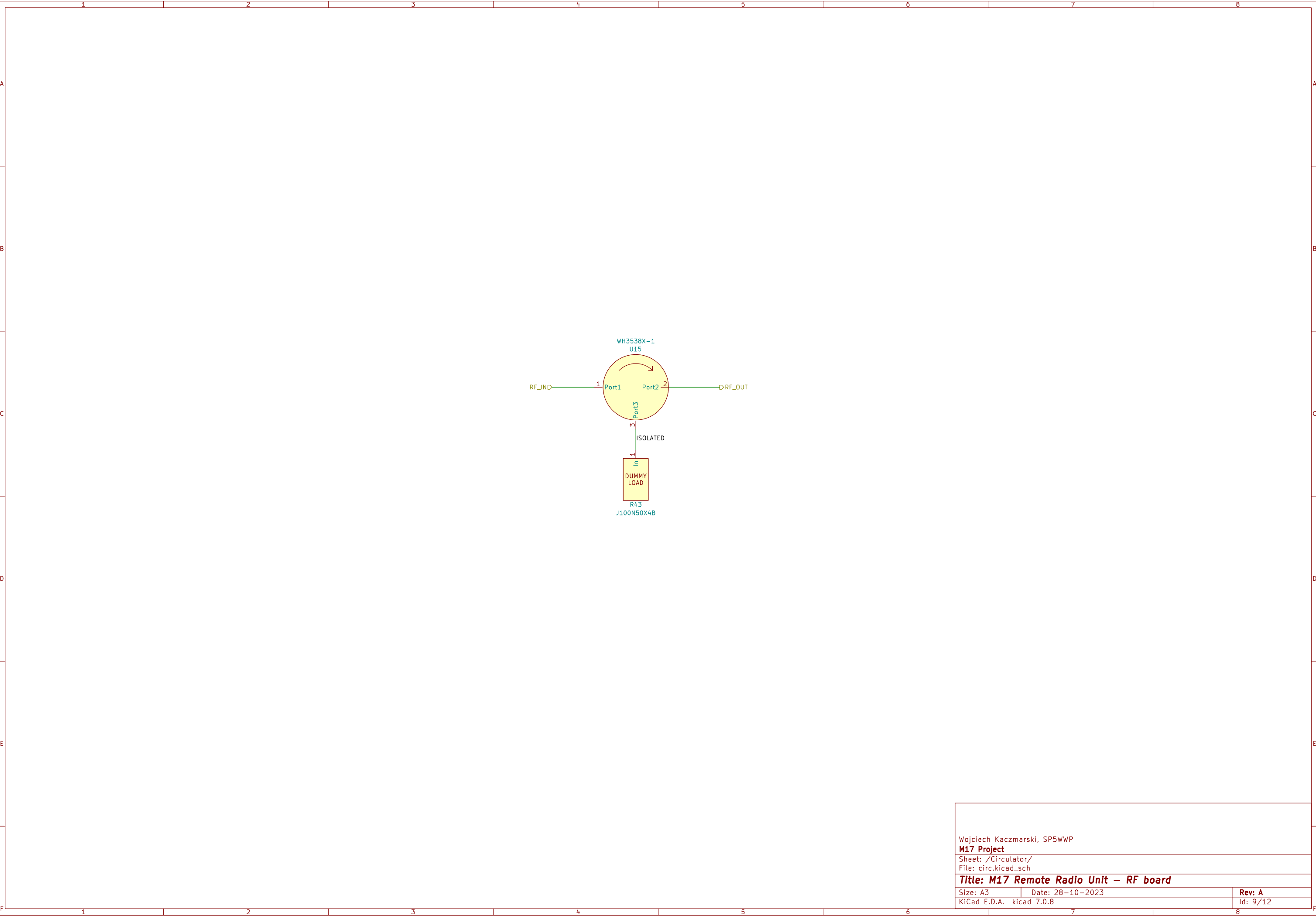
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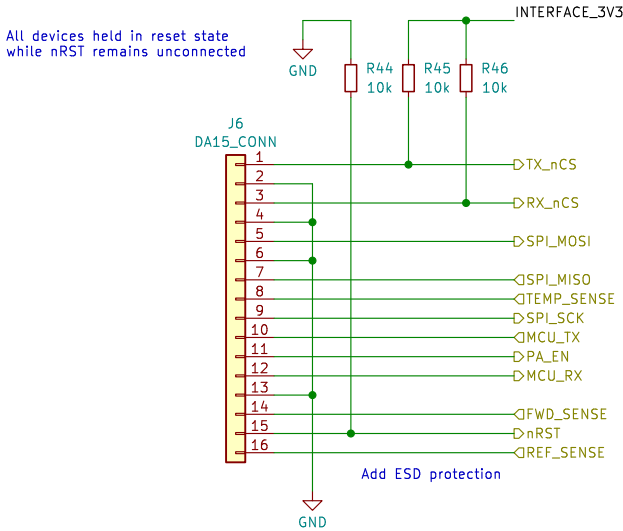
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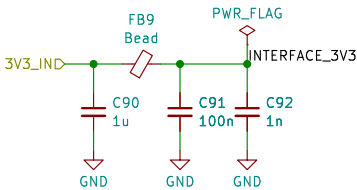
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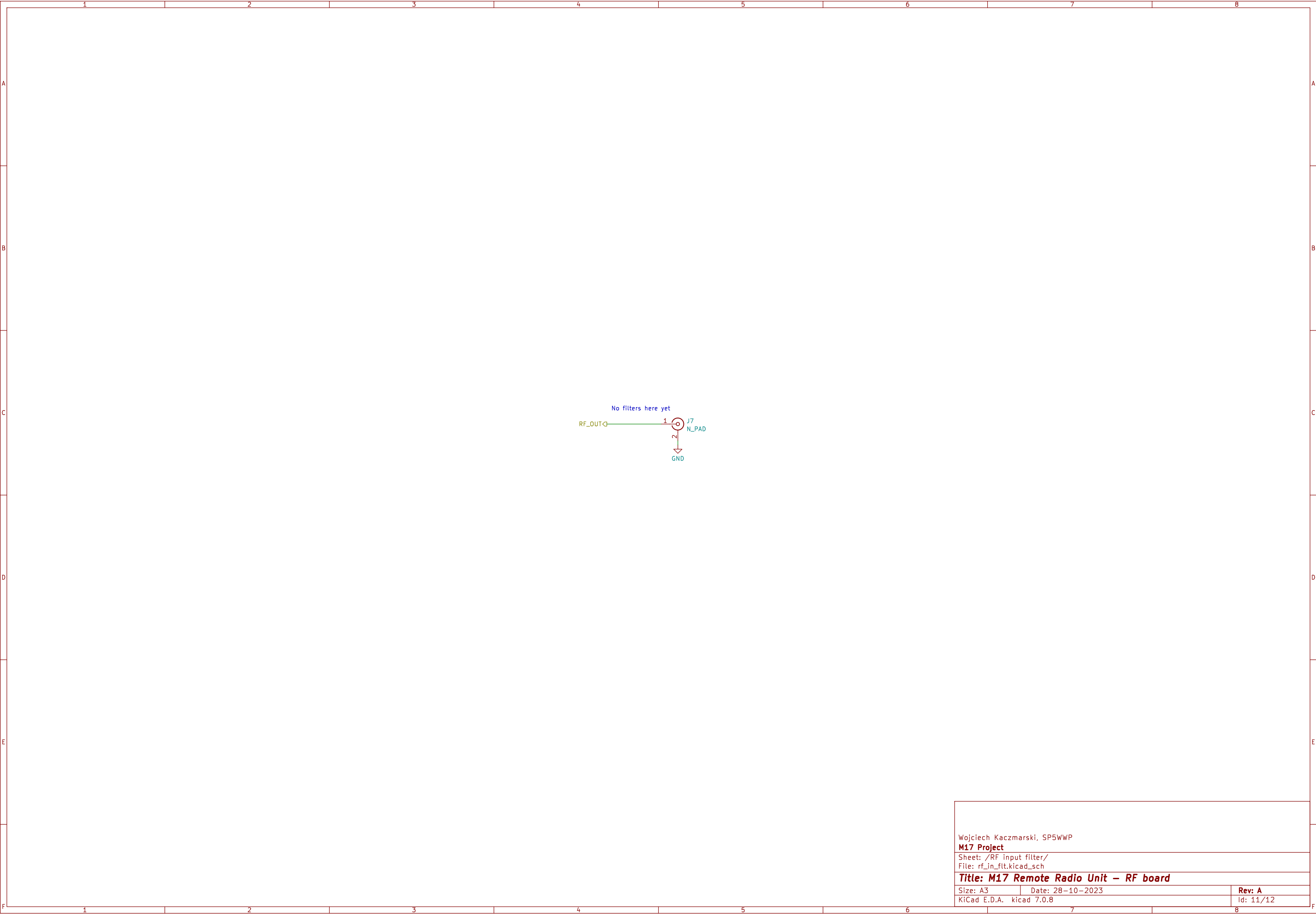


External connector

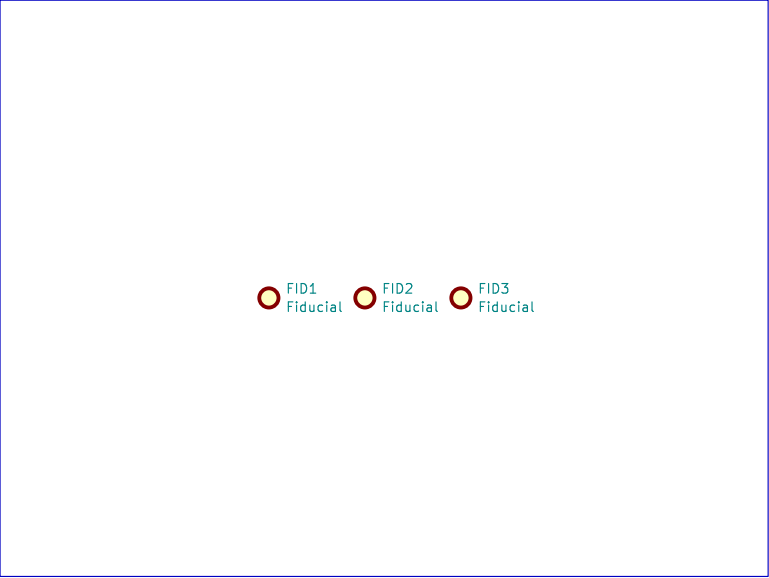


Decoupling

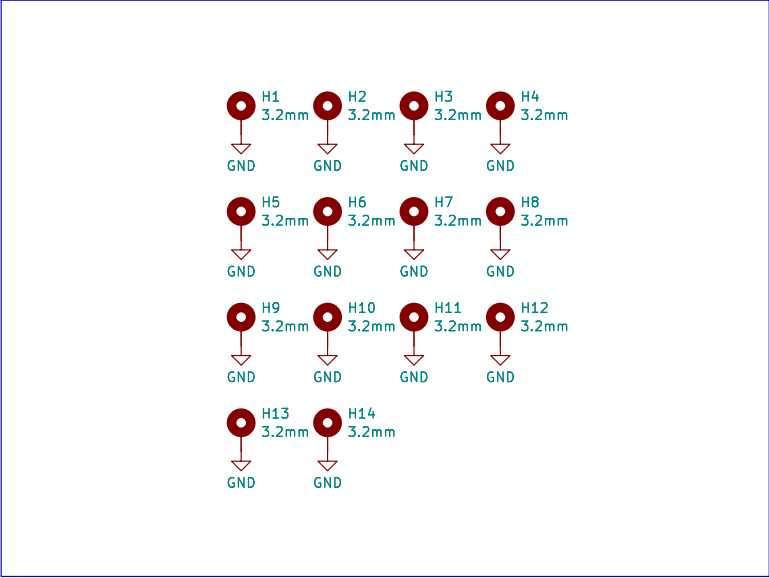




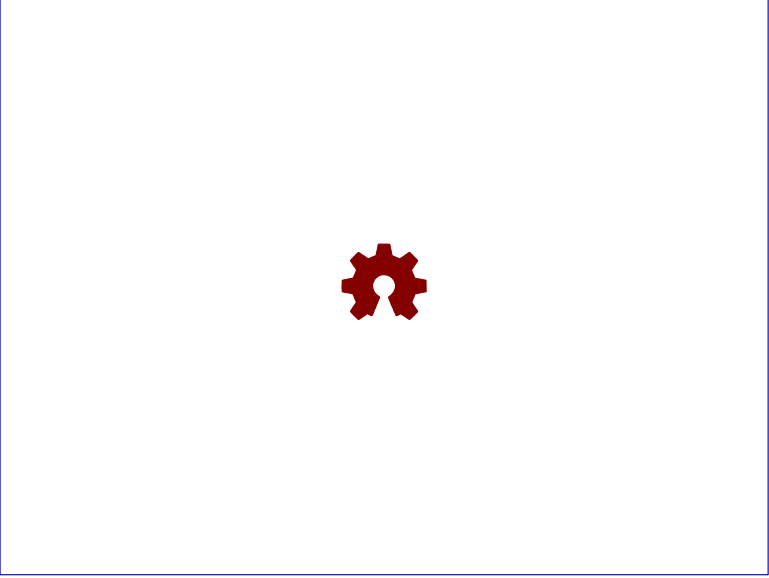
Fiducials



Mounting holes



Graphics



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Title: M17 Remote Radio Unit – RF board

Size: A3

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Rev: A

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Id: 12/12