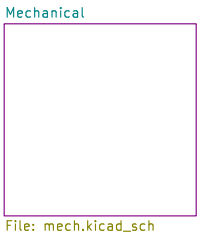
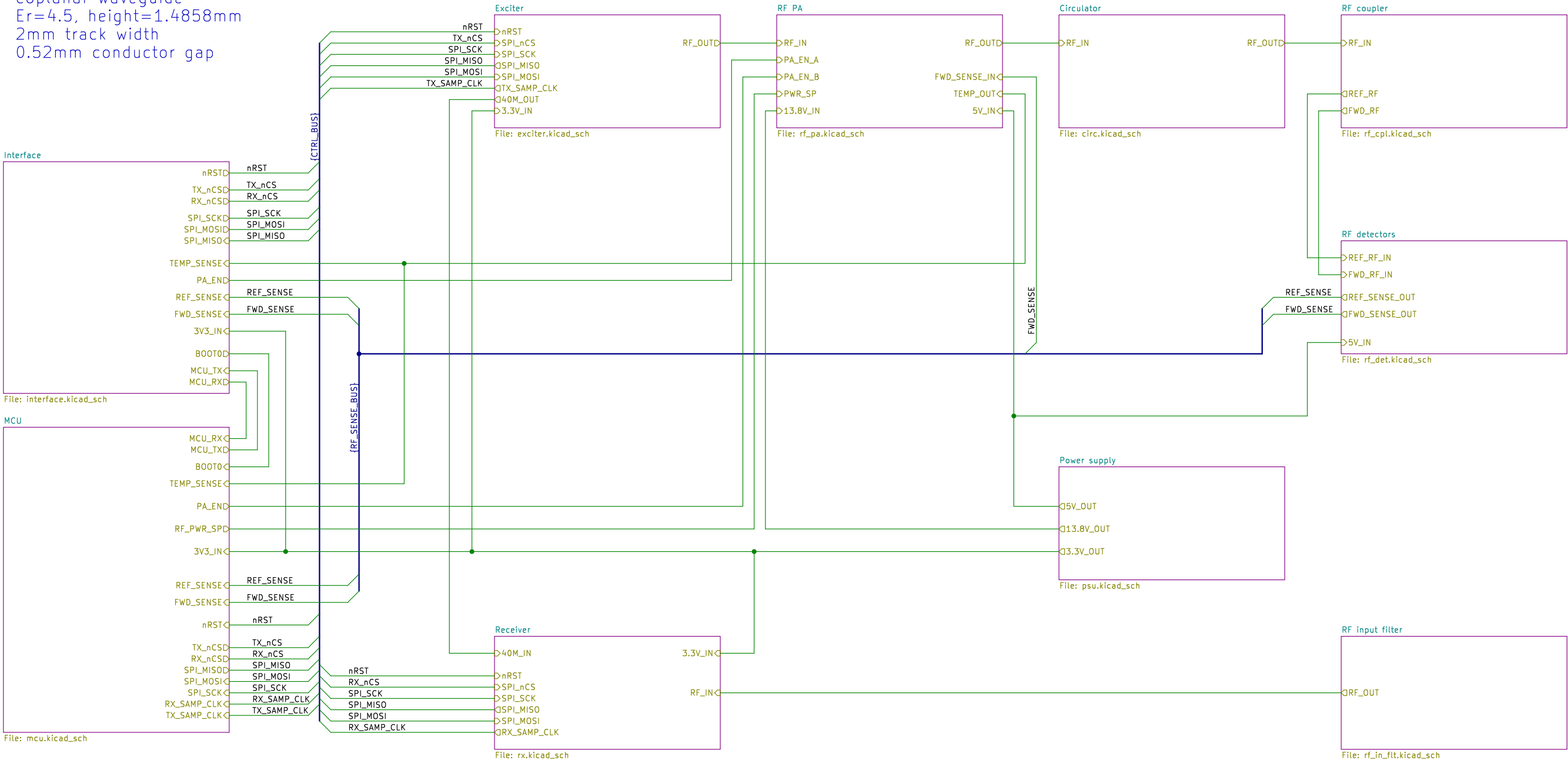
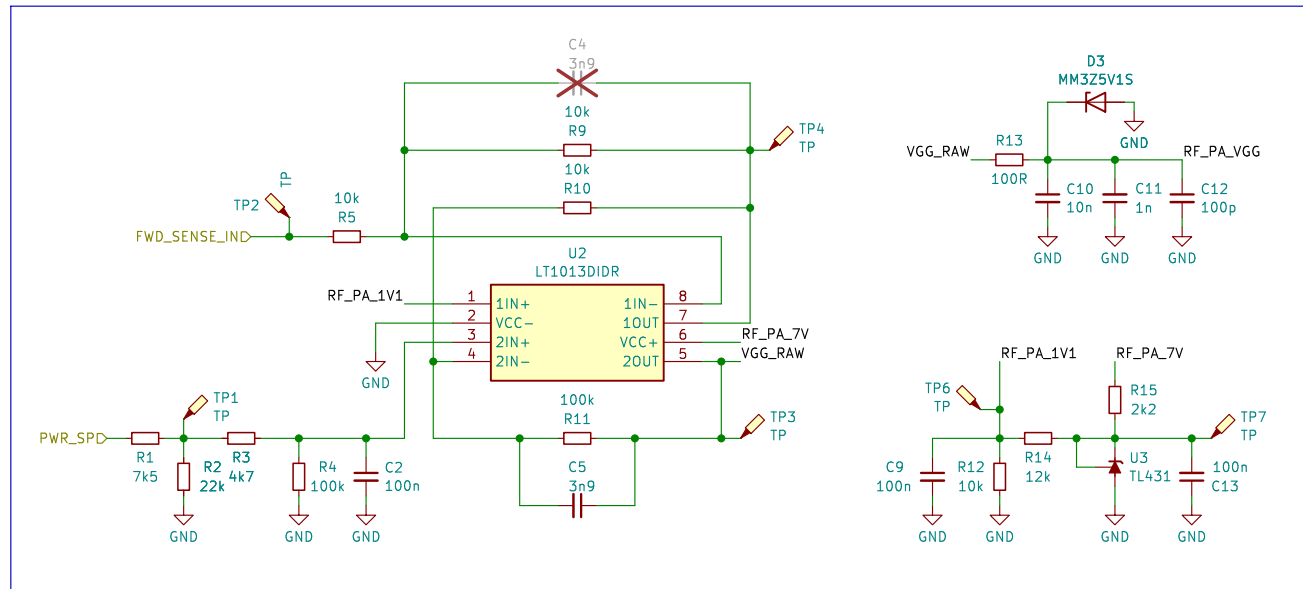


Low power RF tracks:  
coplanar waveguide  
Er=4.4, height=0.2104mm  
0.25mm track width  
0.052mm conductor gap

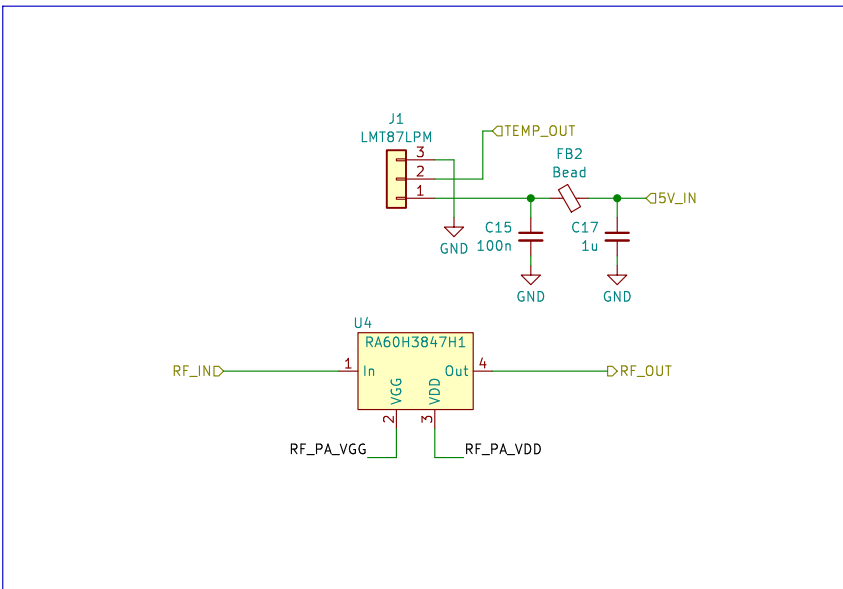
High power RF tracks:  
coplanar waveguide  
Er=4.5, height=1.4858mm  
2mm track width  
0.52mm conductor gap



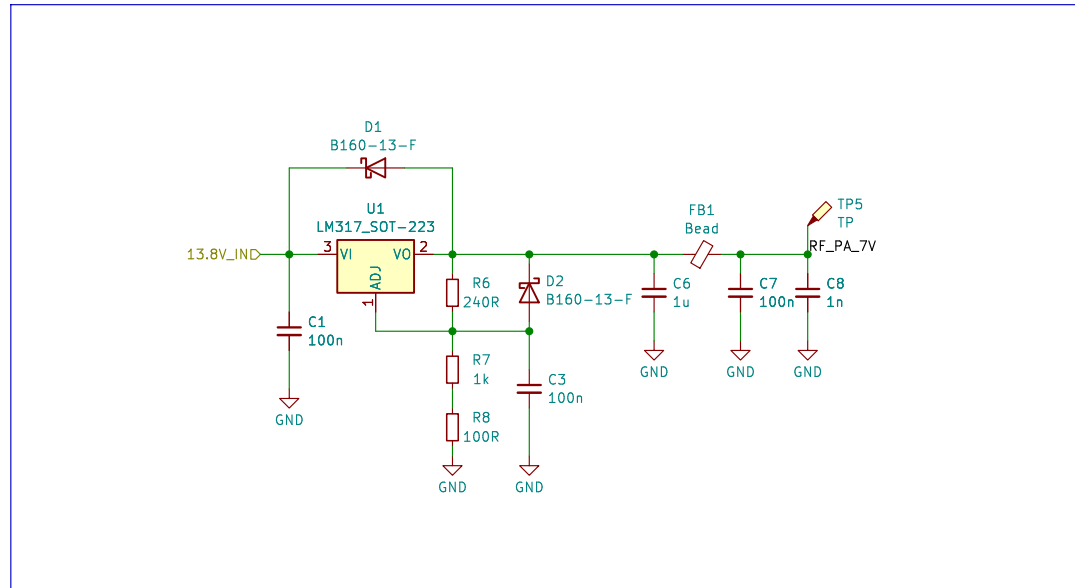
## ALC



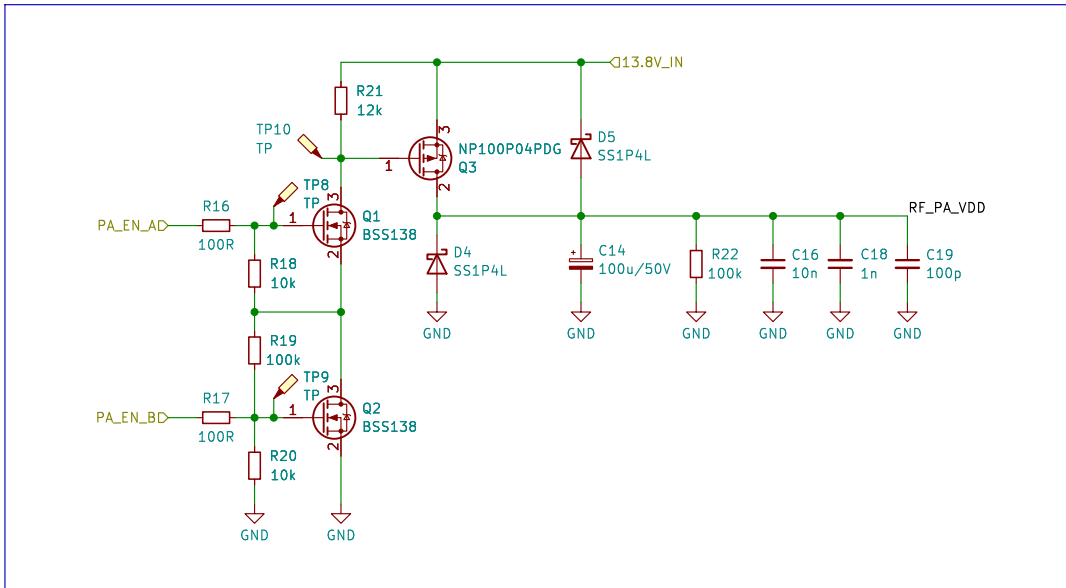
## RF PA



## Voltage reg.



## Supply switching



Wojciech Kaczmarek, SP5WWP

**M17 Project**

Sheet: /RF PA/

File: rf\_pa.kicad\_sch

**Title: Remote Radio Unit – RF board**

Size: A3

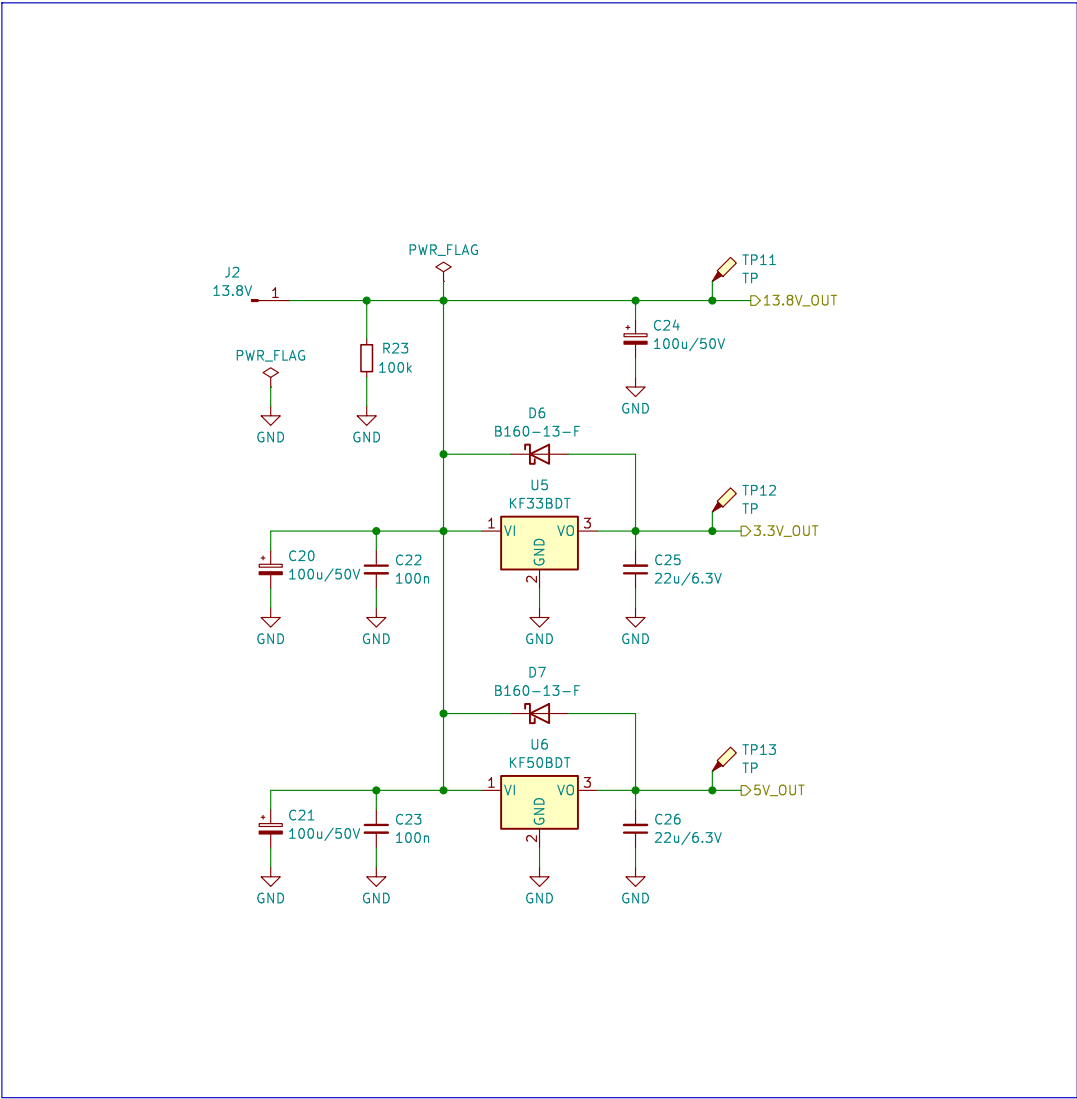
Date: 19-01-2024

Rev: B

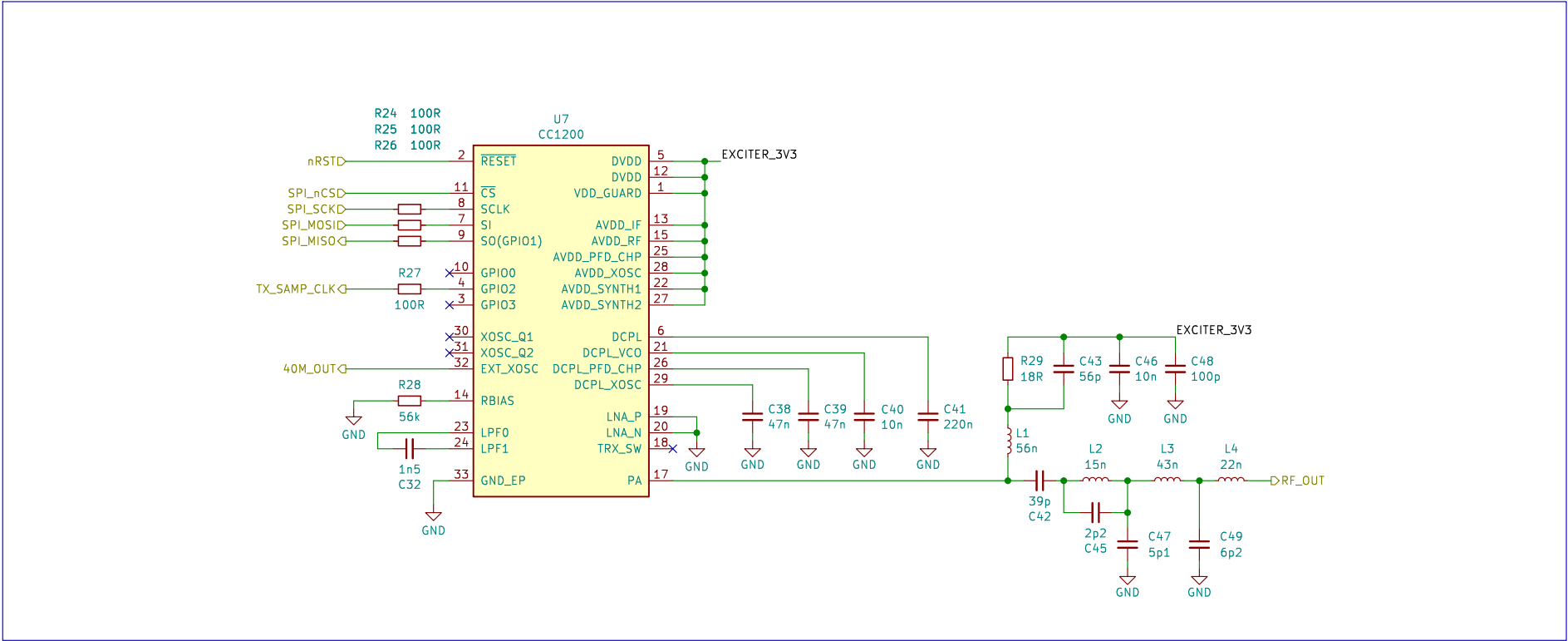
KiCad E.D.A. kicad 7.0.8

Id: 2/12

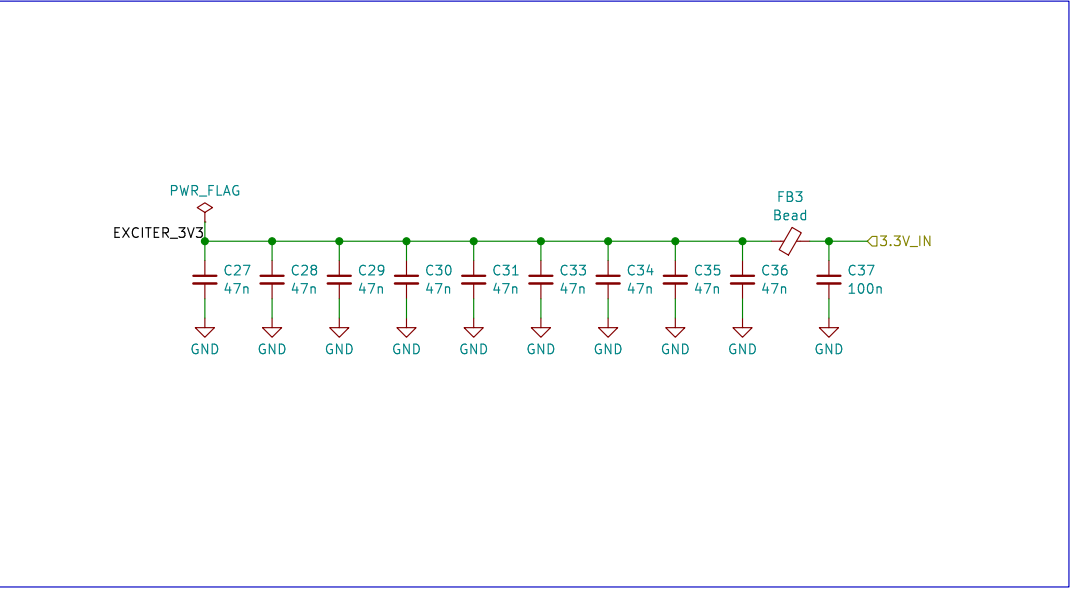
Voltage reg.



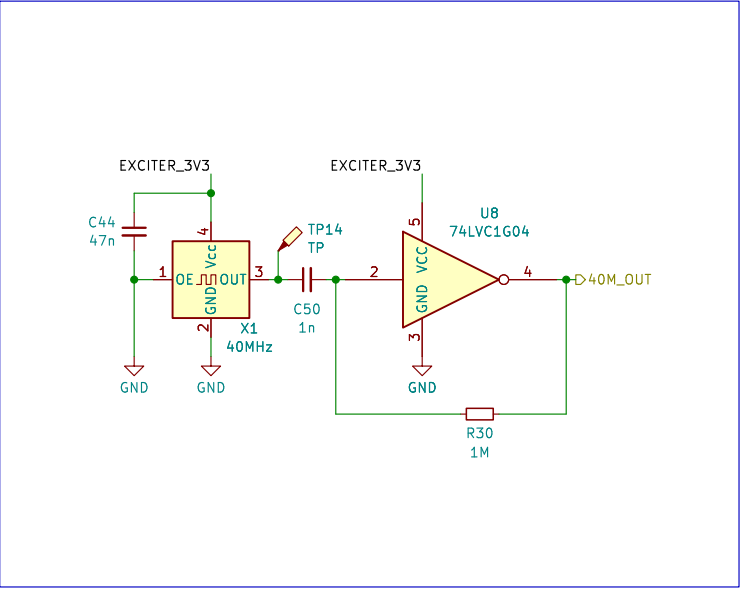
Exciter



Decoupling



40MHz reference



Wojciech Kaczmarek, SP5WWP

M17 Project

Sheet: /Exciter/

File: exciter.kicad\_sch

Title: Remote Radio Unit – RF board

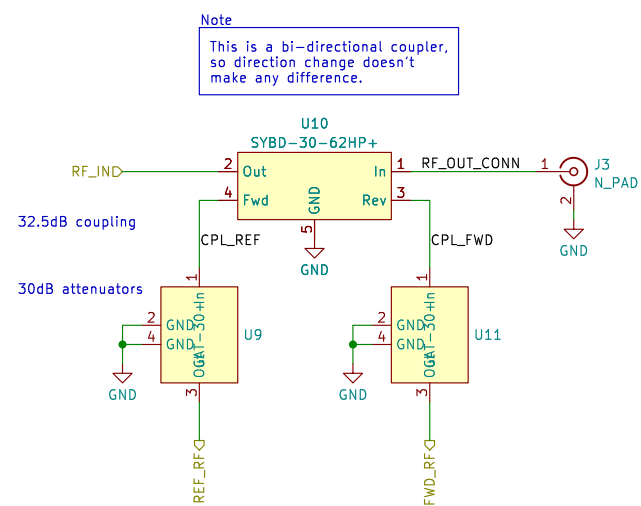
Size: A3

Date: 19-01-2024

Rev: B

KiCad E.D.A. kicad 7.0.8

Id: 4/12



Wojciech Kaczmarek, SP5WWP

**M17 Project**

Sheet: /RF coupler/

File: rf\_cpl.kicad\_sch

**Title: Remote Radio Unit – RF board**

Size: A3

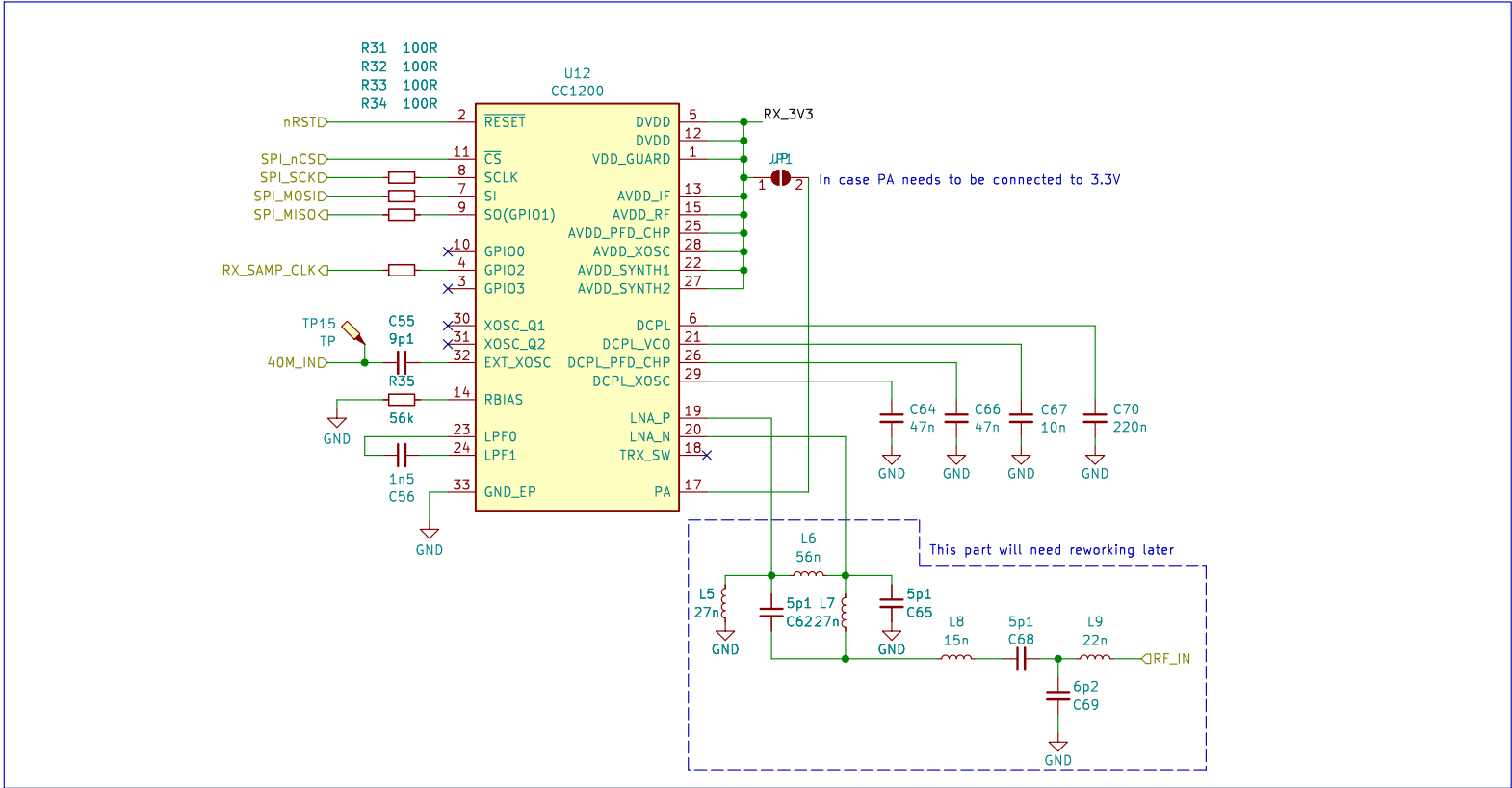
Date: 19-01-2024

Rev: B

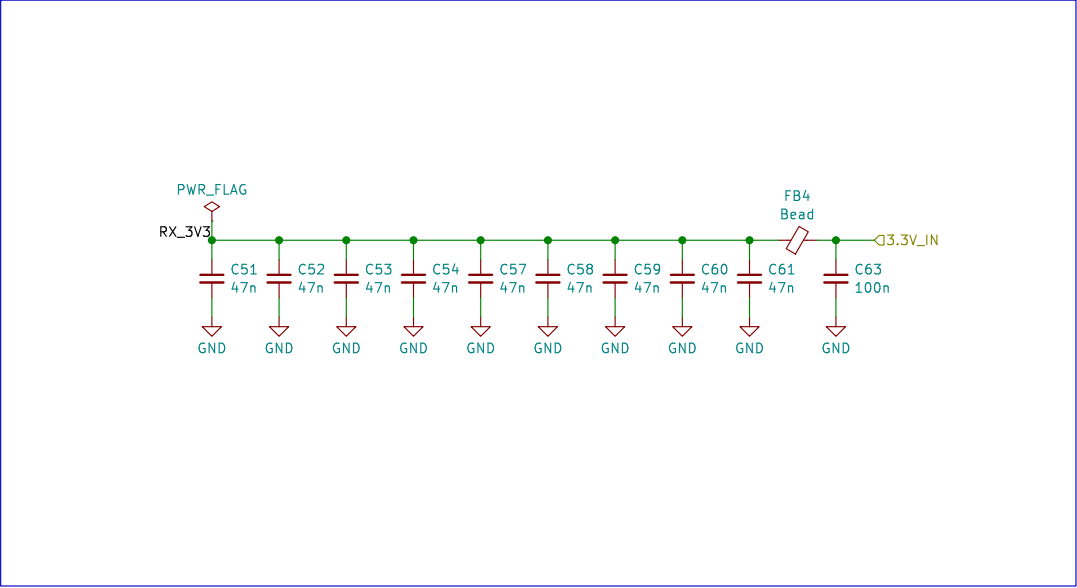
Size: A3	Date: 1
KiCad E.D.A.	kicad 7.0.8

Id: 5/12

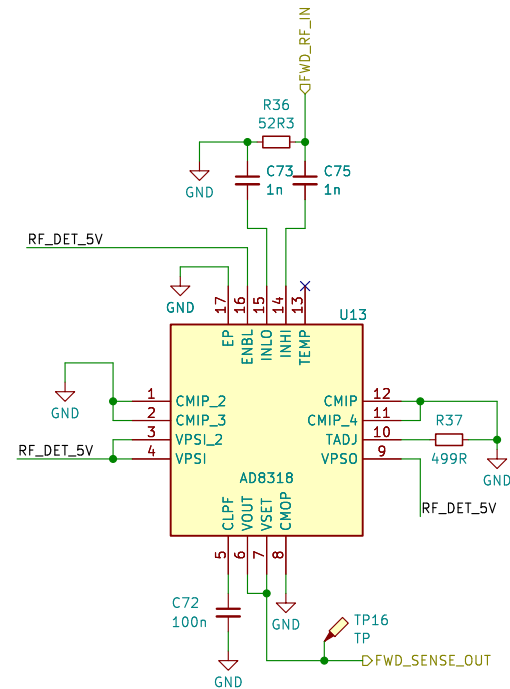
Receiver



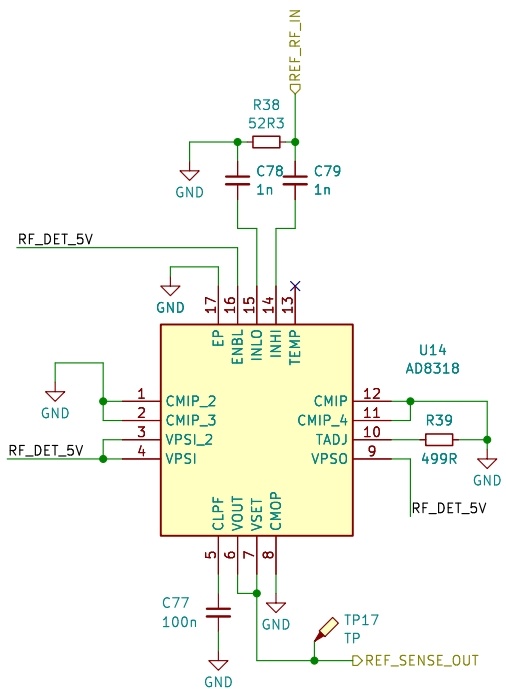
Decoupling



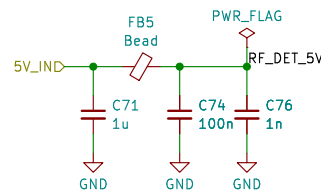
FWD power sense



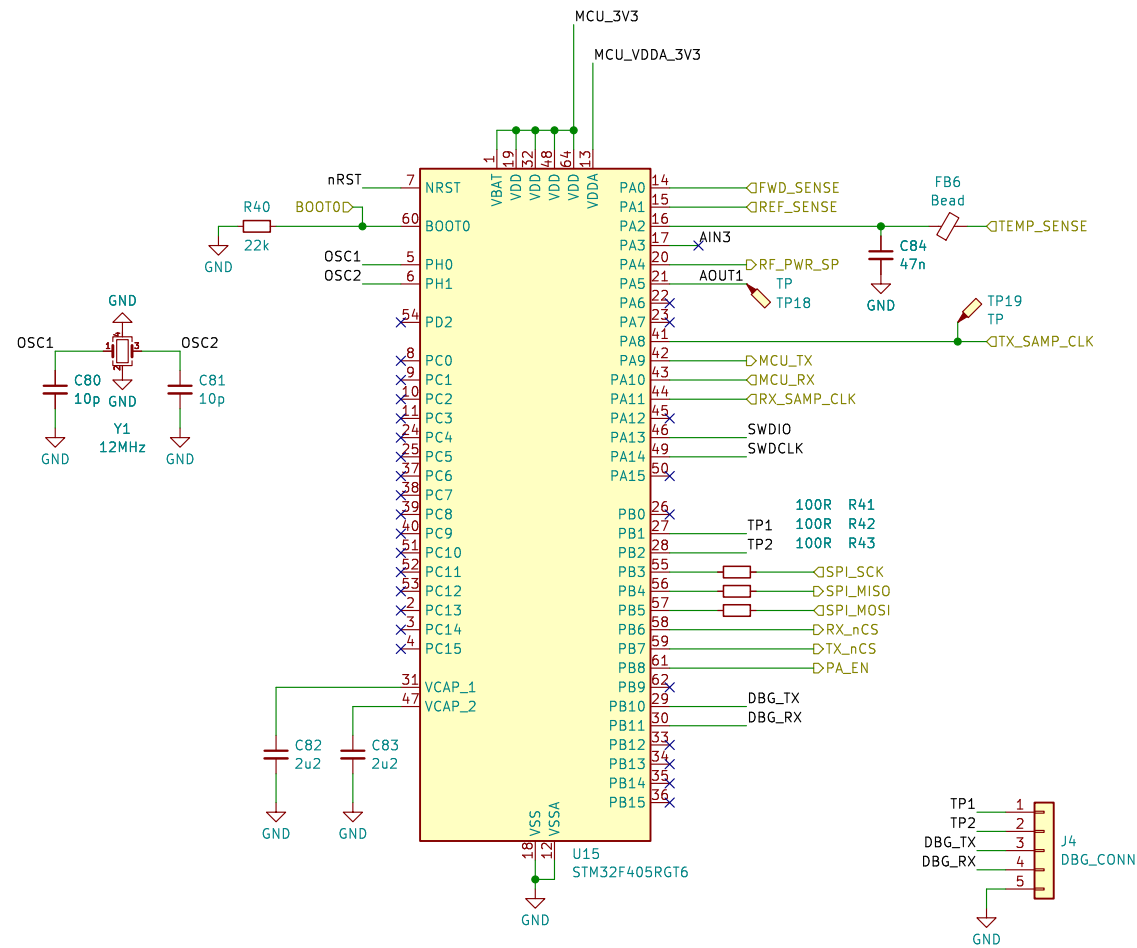
REF power sense



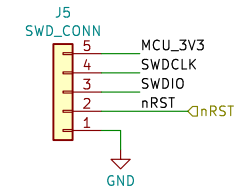
Decoupling



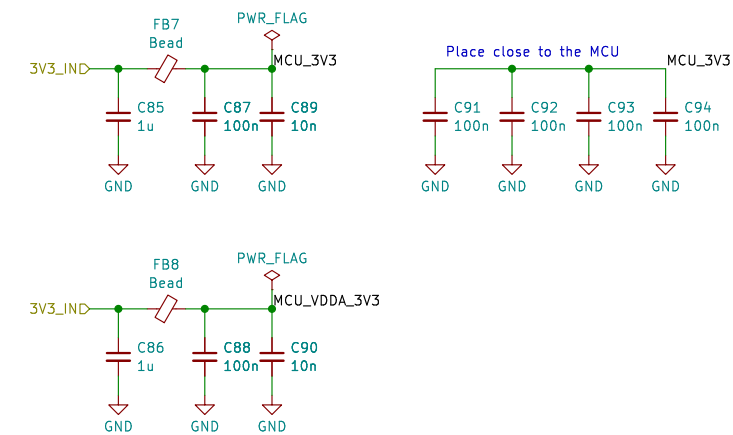
## MCU



## SWD



## Decoupling



Wojciech Kaczmarek, SP5WWP

M17 Project

Sheet: /MCU/

File: mcu.kicad\_sch

Title: Remote Radio Unit – RF board

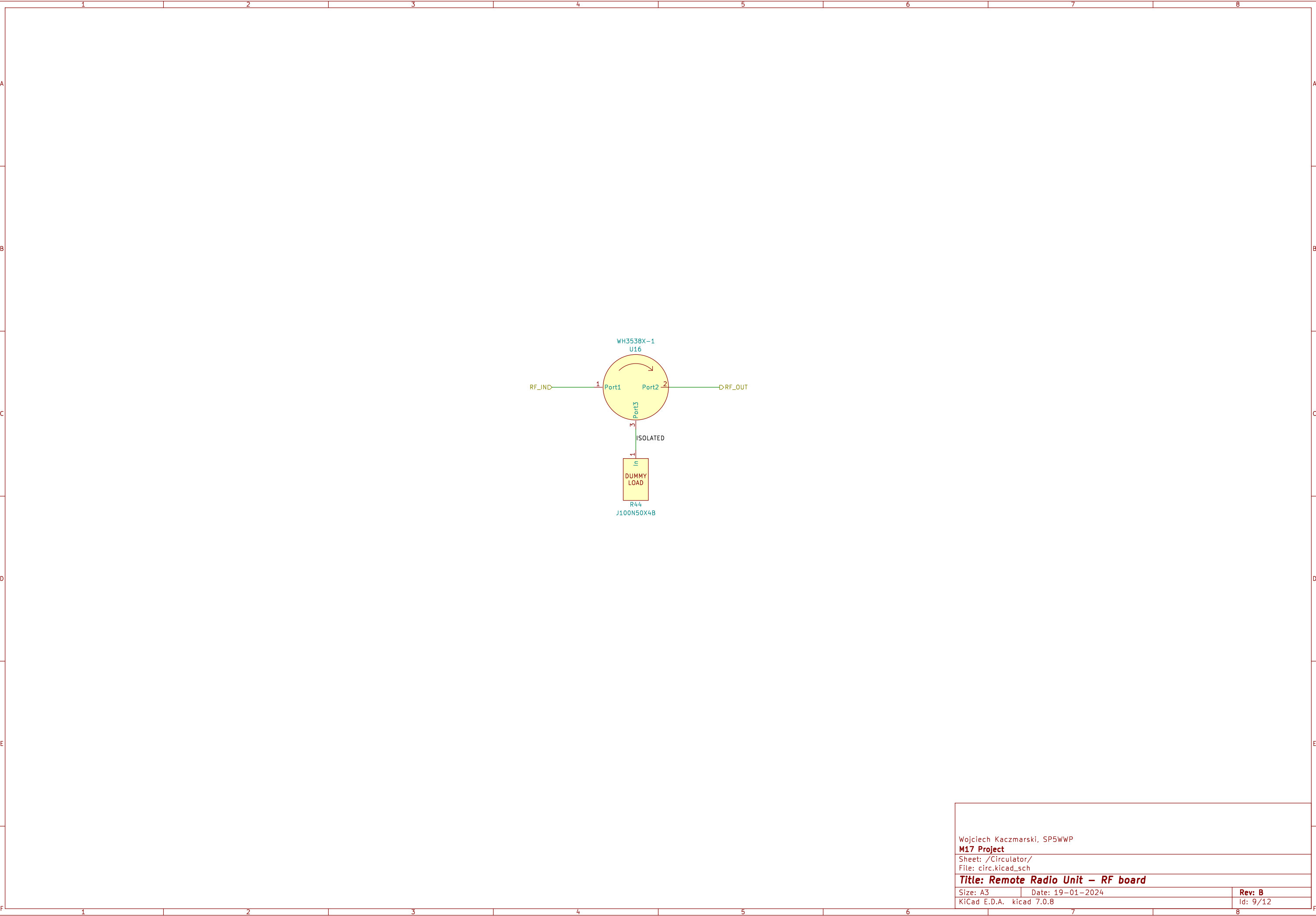
Size: A3 Date: 19-01-2024

Rev: B

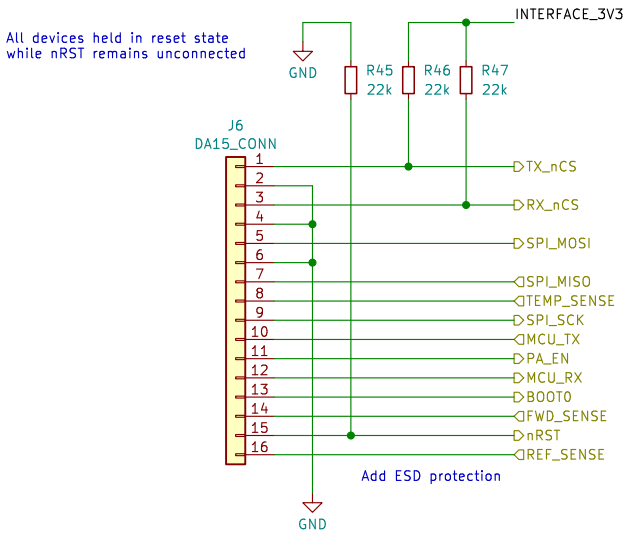
KiCad E.D.A. kicad 7.0.8

Id: 8/12

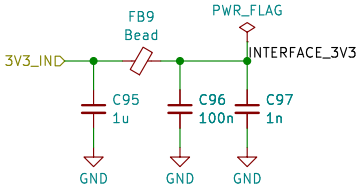




External connector



Decoupling



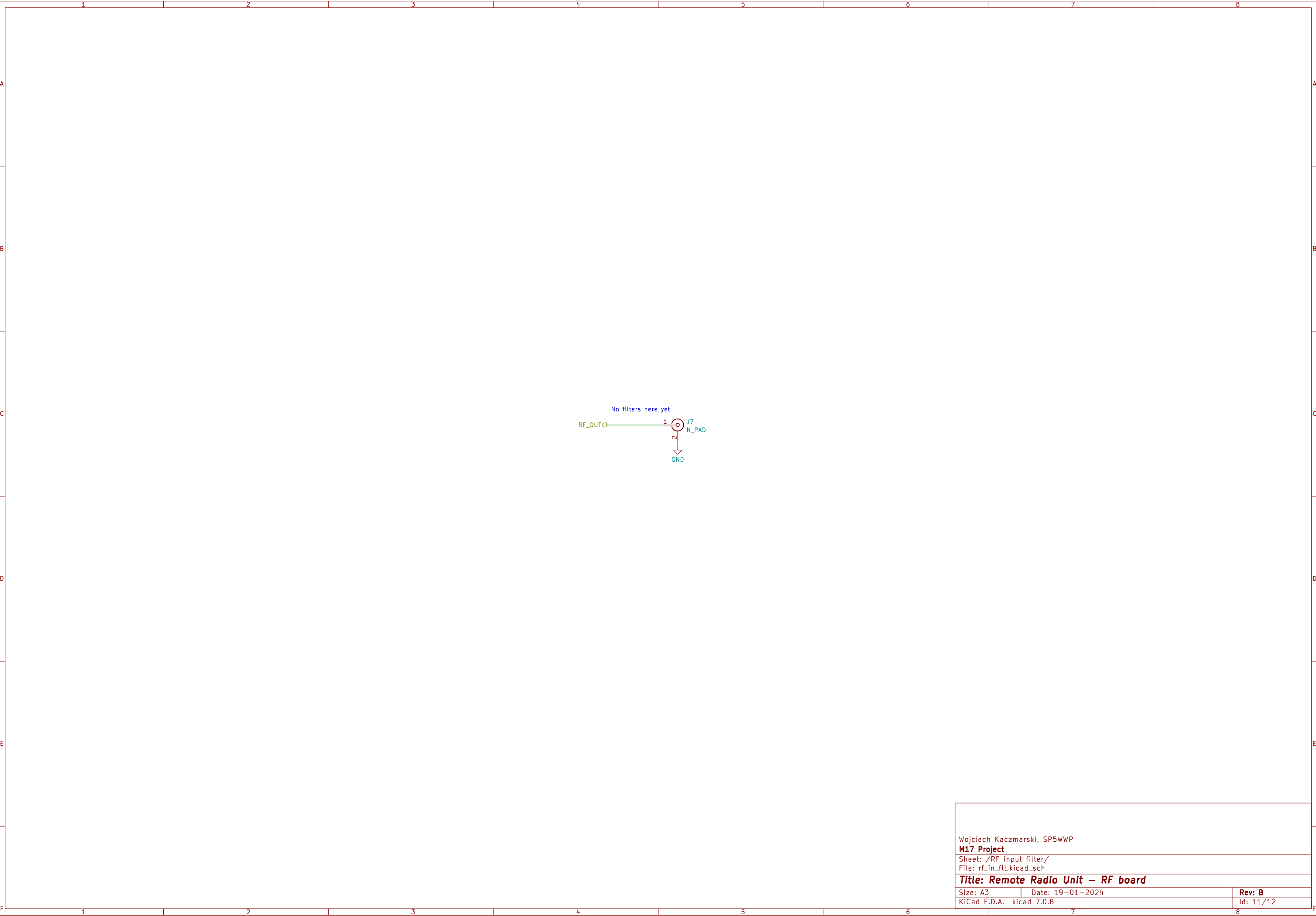
Wojciech Kaczmarek, SP5WWP  
**M17 Project**

Sheet: /Interface/  
File: interface.kicad\_sch

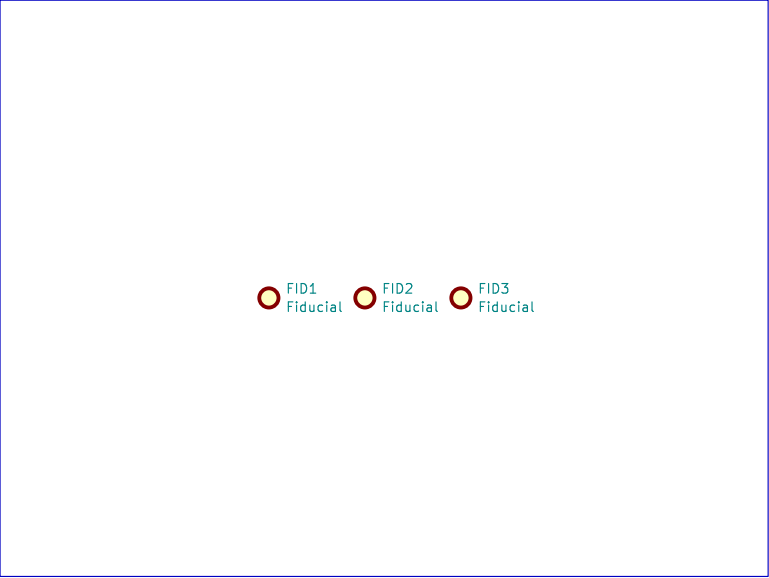
**Title: Remote Radio Unit – RF board**

Size: A3  
Date: 19-01-2024

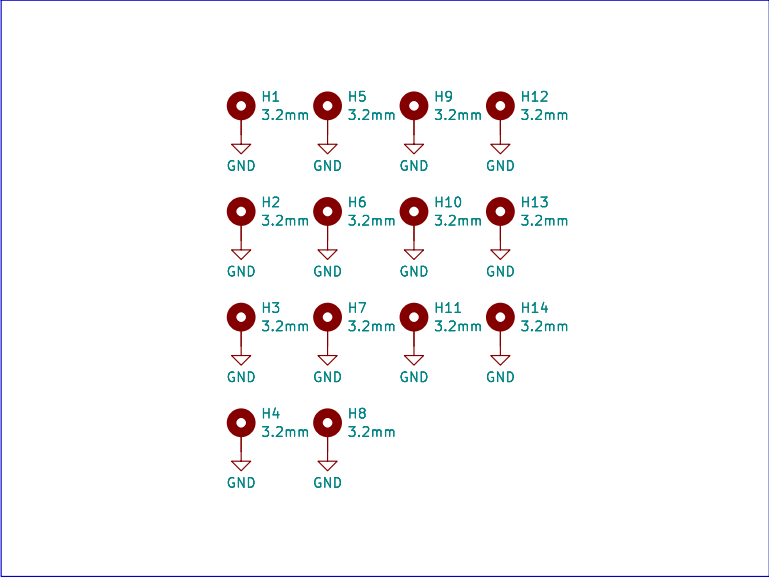
Rev: B  
Id: 10/12



Fiducials



Mounting holes



Graphics

