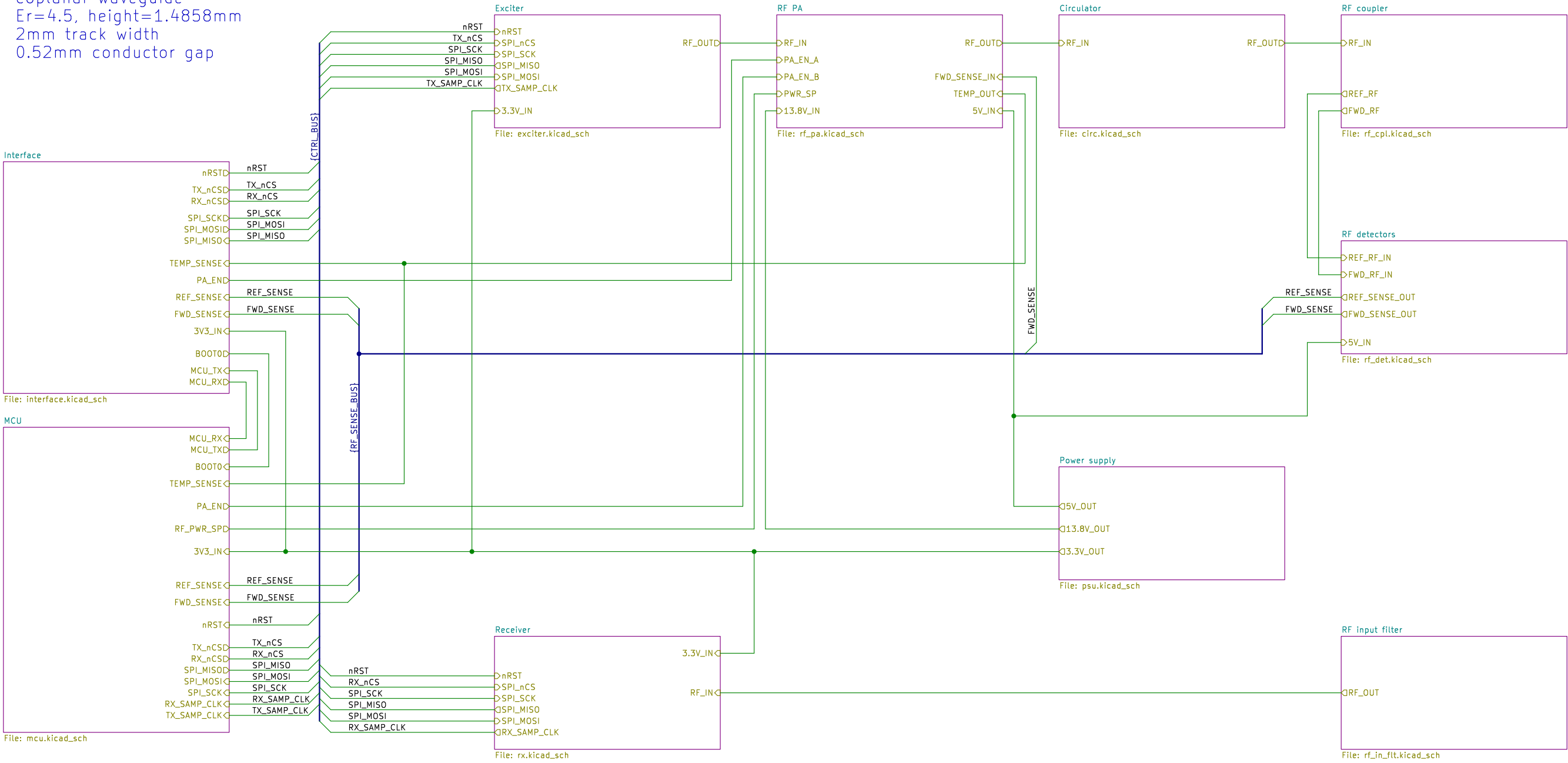


Low power RF tracks:
coplanar waveguide
Er=4.4, height=0.2104mm
0.25mm track width
0.052mm conductor gap

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



Wojciech Kaczmarek, SP5WWP

M17 Project

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

Title: Remote Radio Unit – RF board

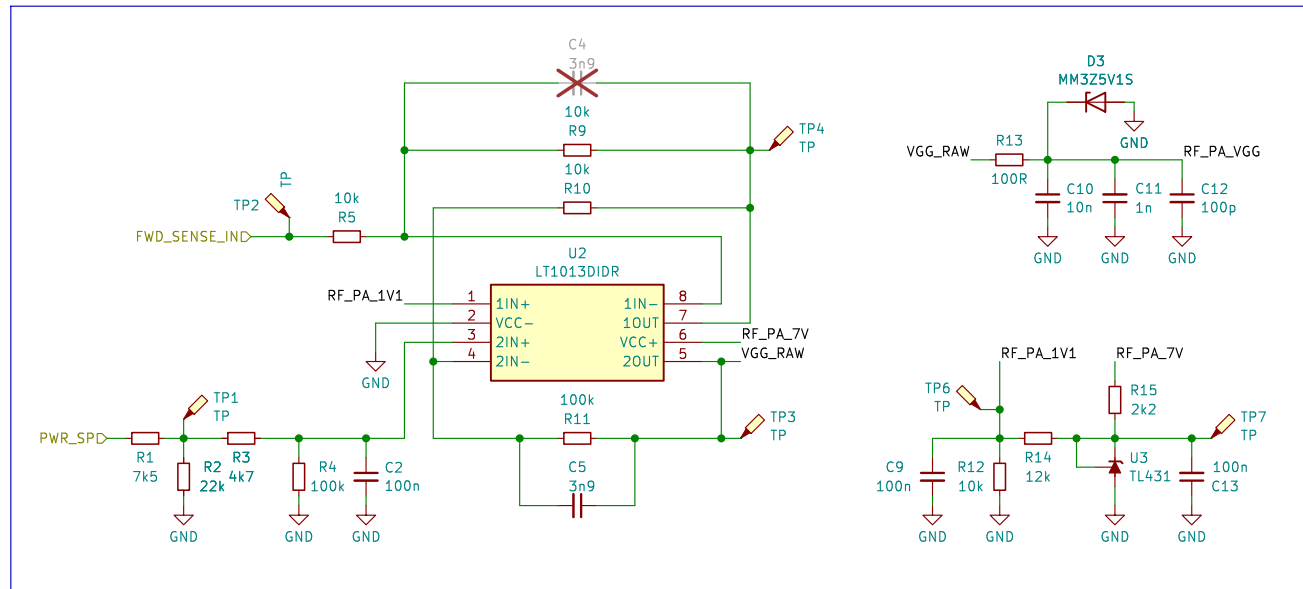
Size: A3 Date: 05-04-2024

KiCad E.D.A. kicad 7.0.11

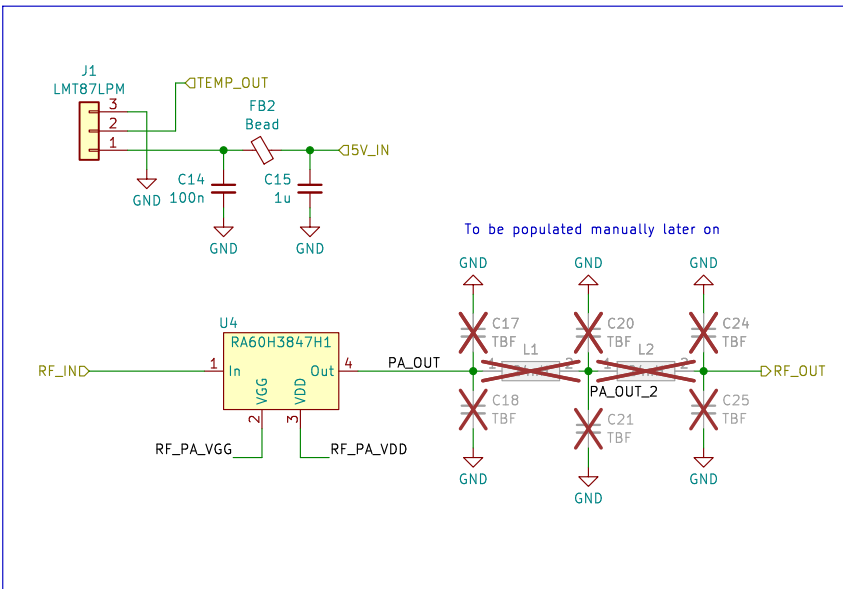
Rev: C

Id: 1/12

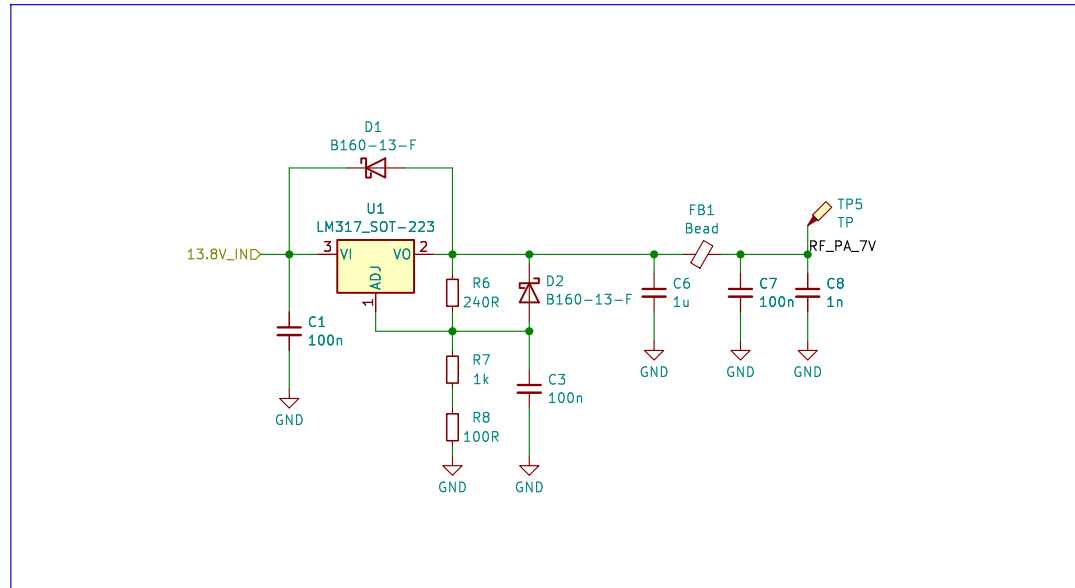
ALC



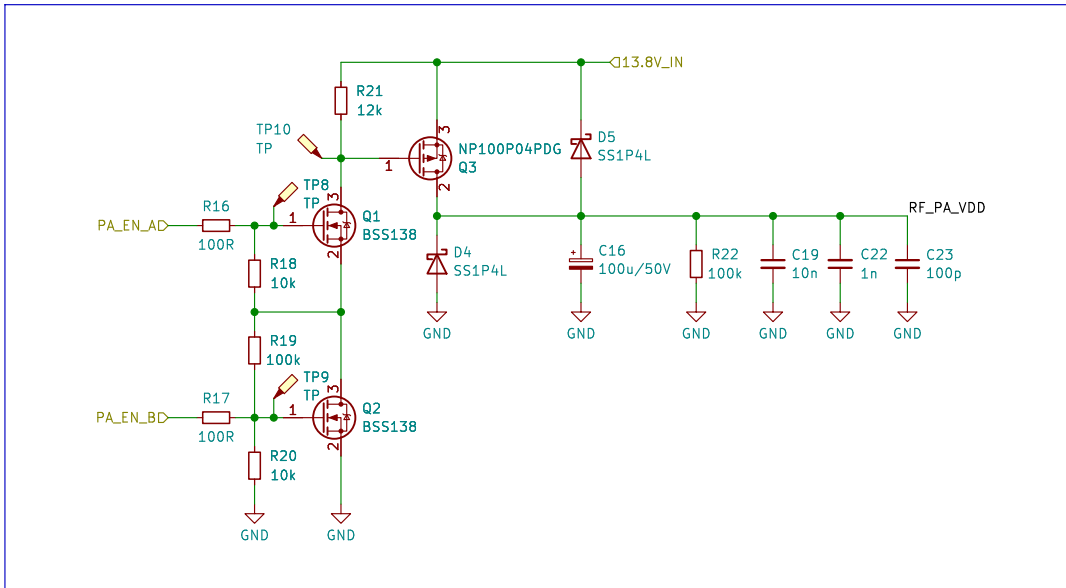
RF PA



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

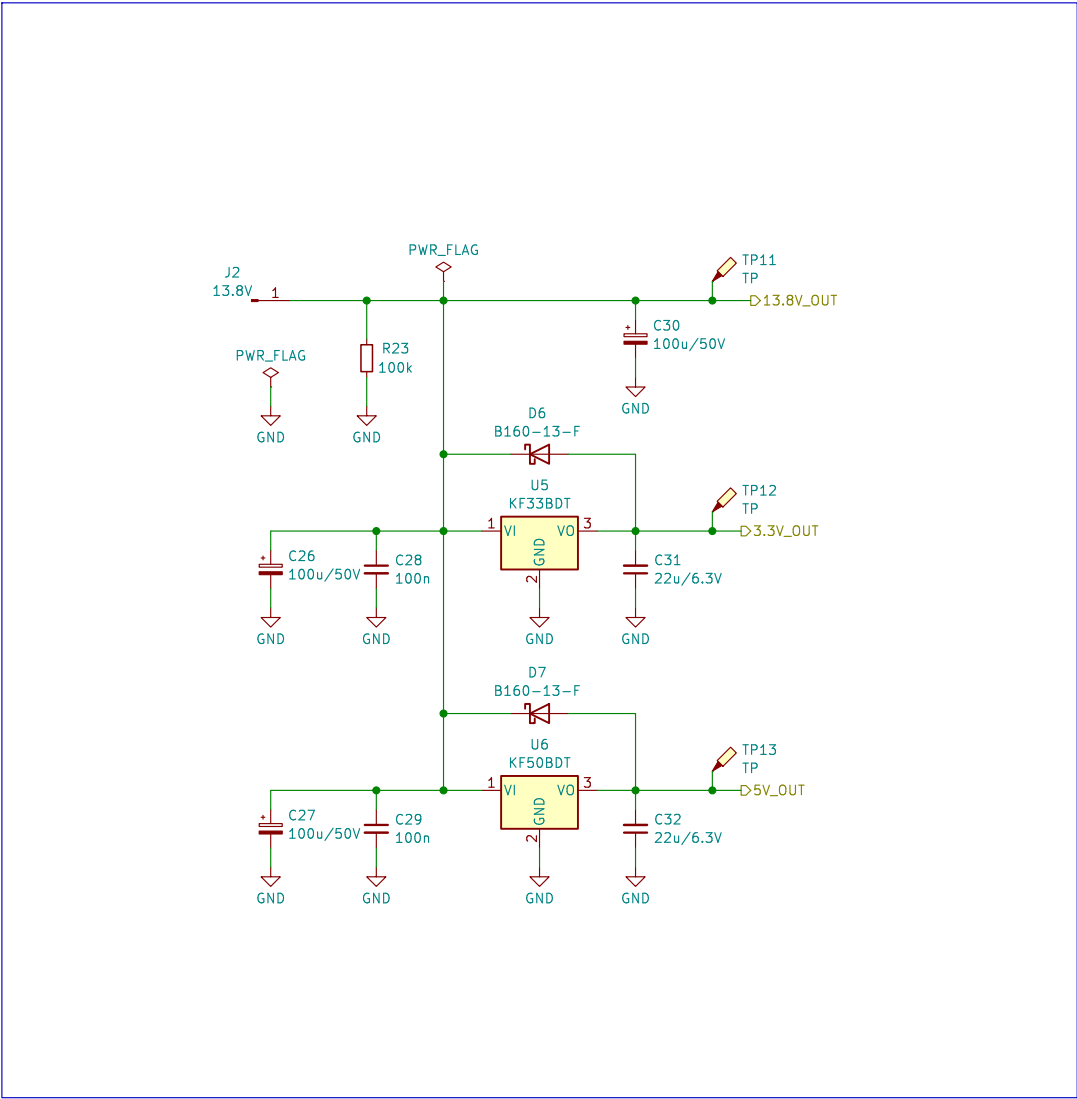
Date: 05-04-2024

Rev: C

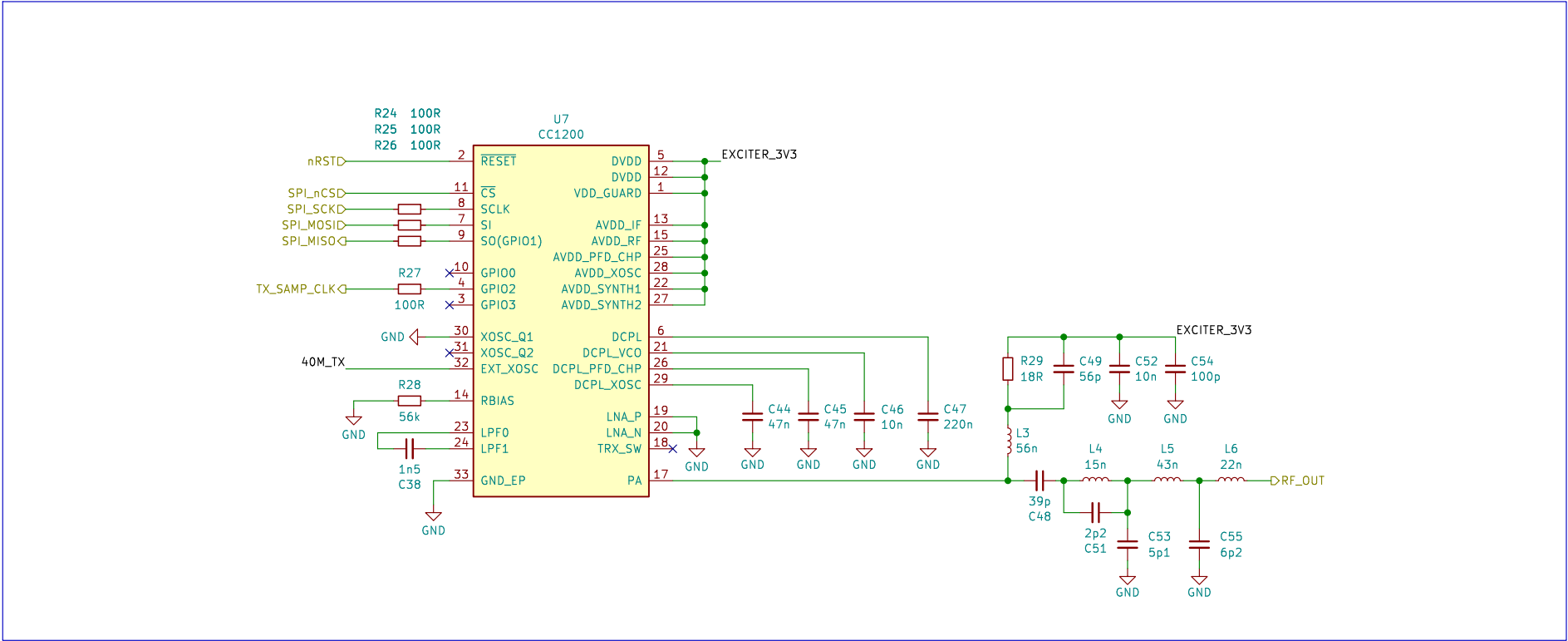
KiCad E.D.A. kicad 7.0.11

Id: 2/12

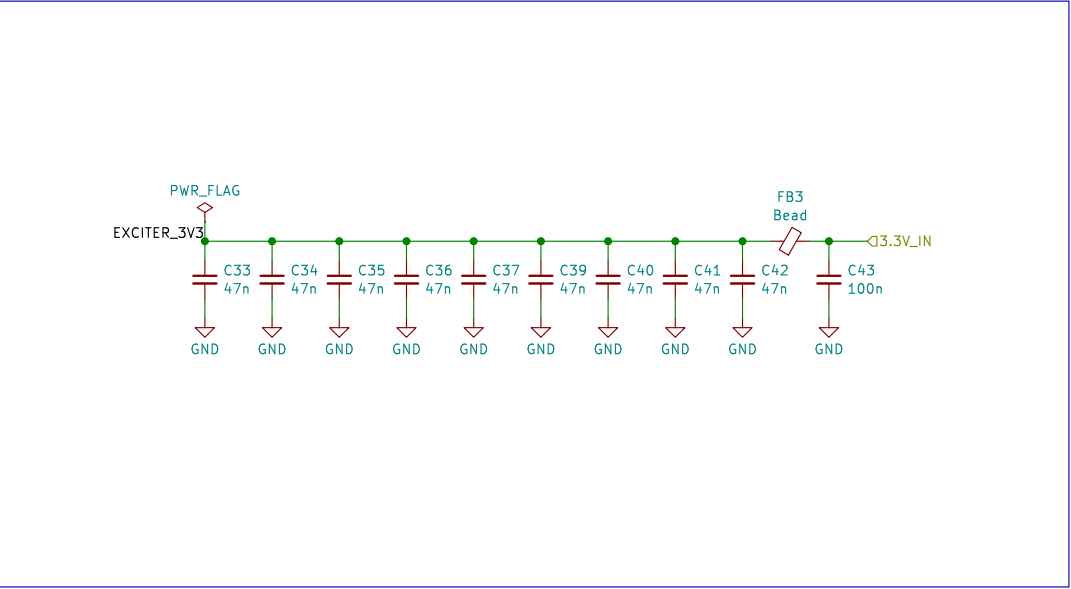
Voltage reg.



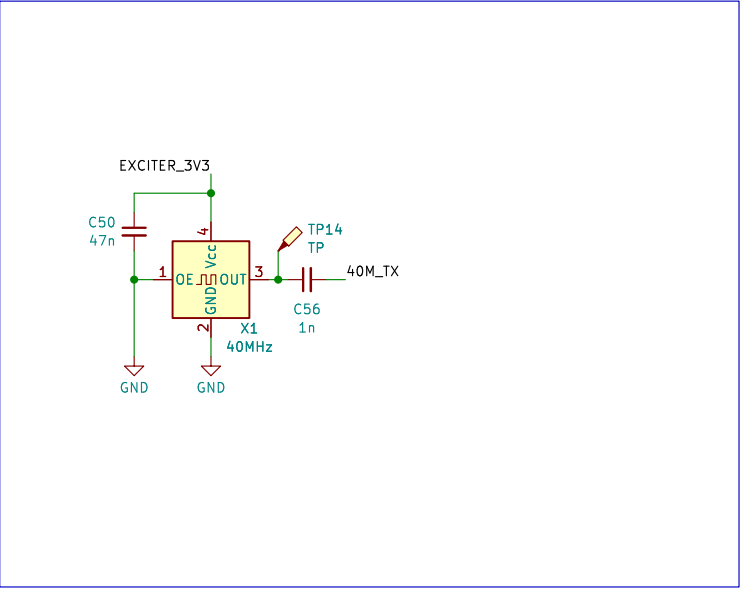
Exciter

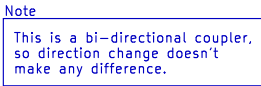


Decoupling



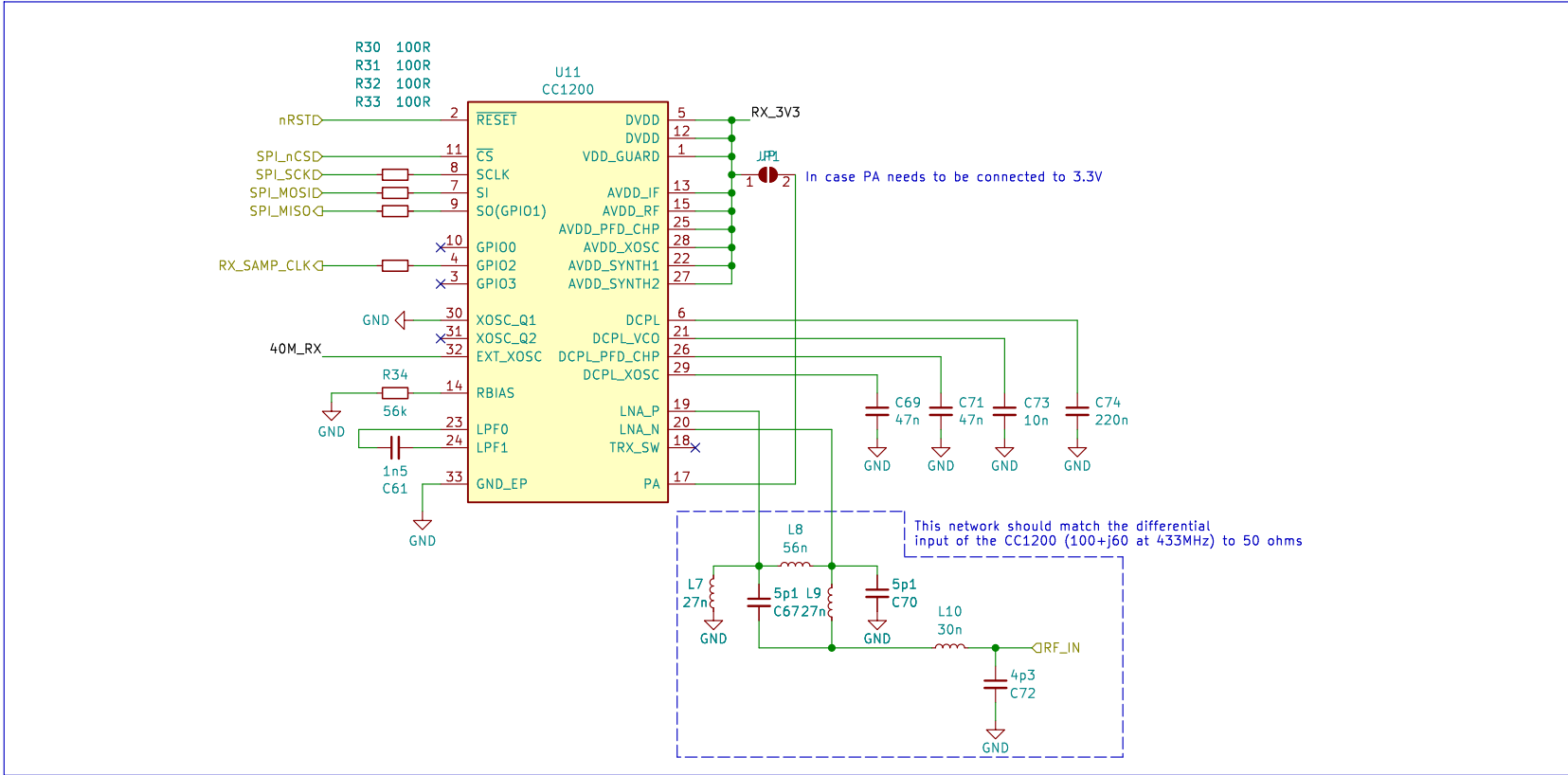
Local 40MHz reference



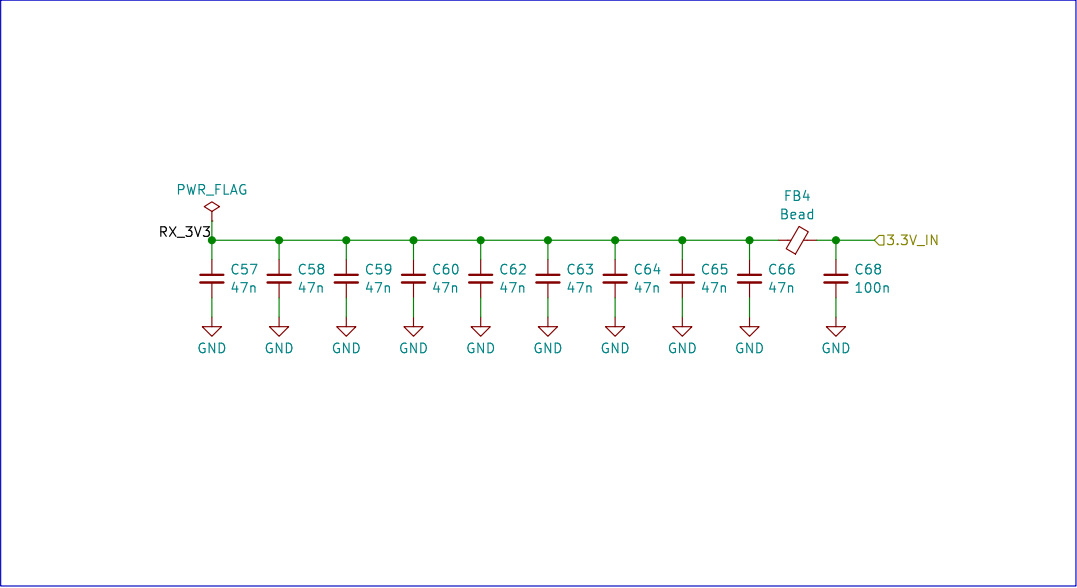


Size: A3	Date: 05-04-2024	Rev: C
KiCad E.D.A. kicad 7.0.11		Id: 5/12

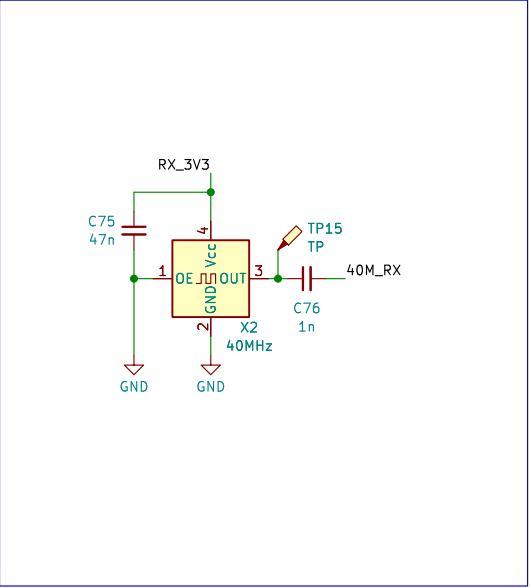
Receiver



Decoupling



Local 40MHz reference



Wojciech Kaczmarek, SP5WWP

M17 Project

Sheet: /Receiver/

File: rx.kicad_sch

Title: Remote Radio Unit – RF board

Size: A3

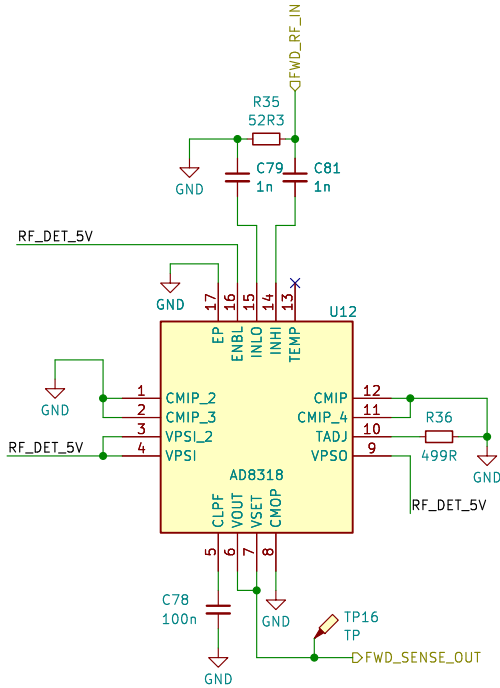
Date: 05-04-2024

Rev: C

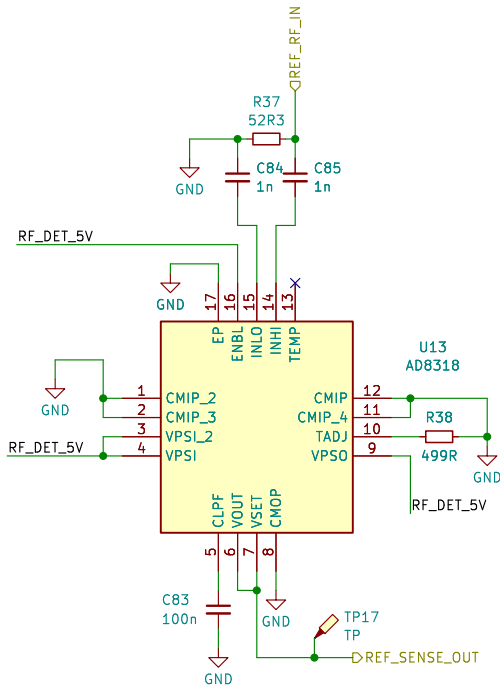
KiCad E.D.A. kicad 7.0.11

Id: 6/12

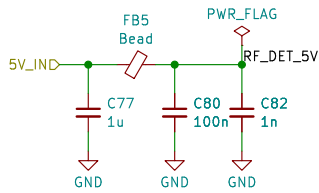
FWD power sense



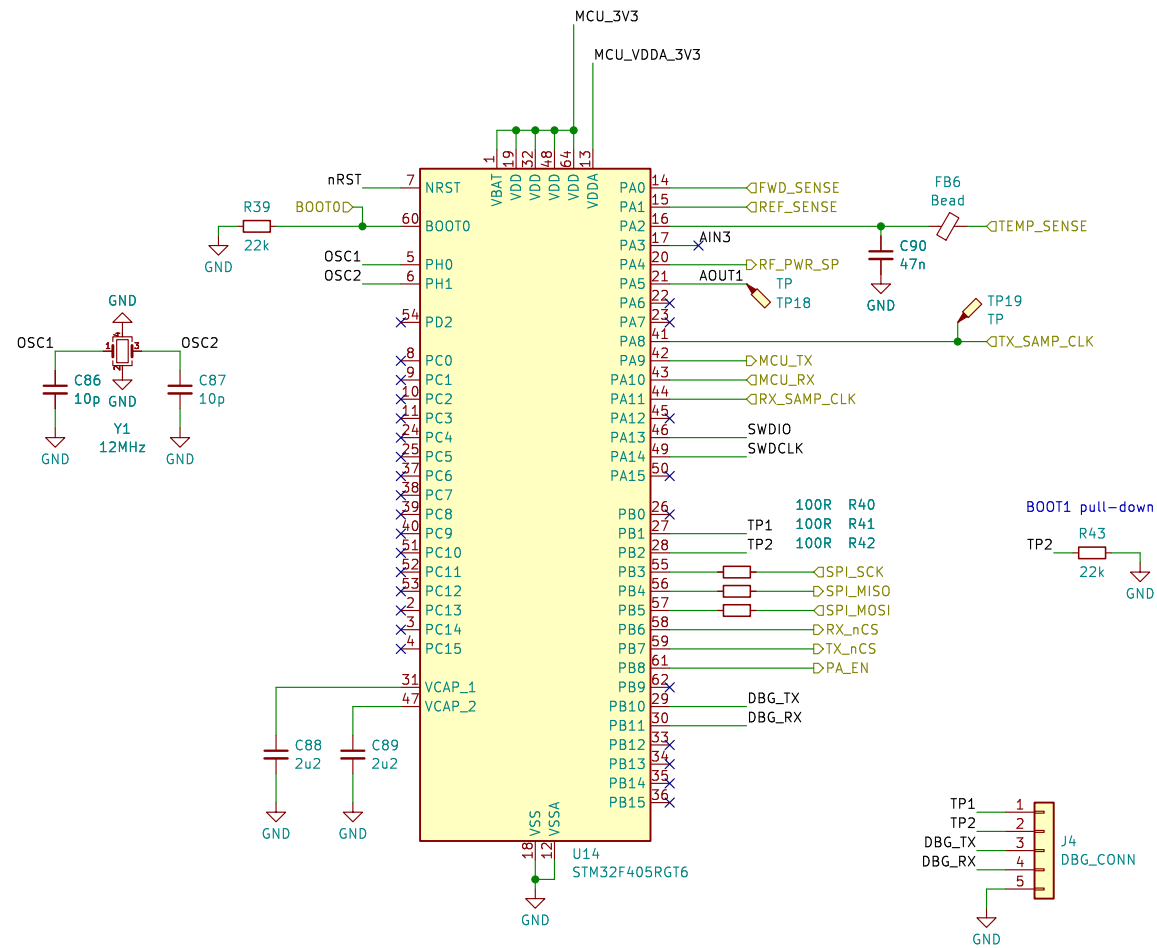
REF power sense



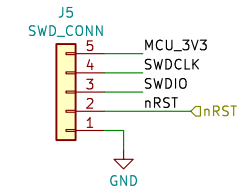
Decoupling



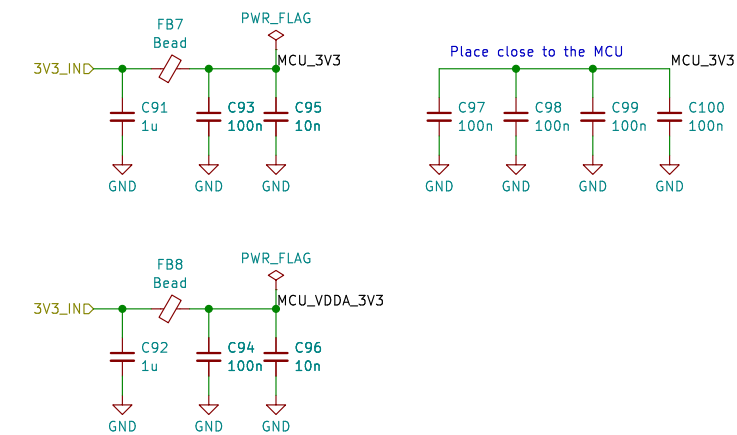
MCU



SWD



Decoupling



Wojciech Kaczmarek, SP5WWP

M17 Project

Sheet: /MCU/

File: mcu.kicad_sch

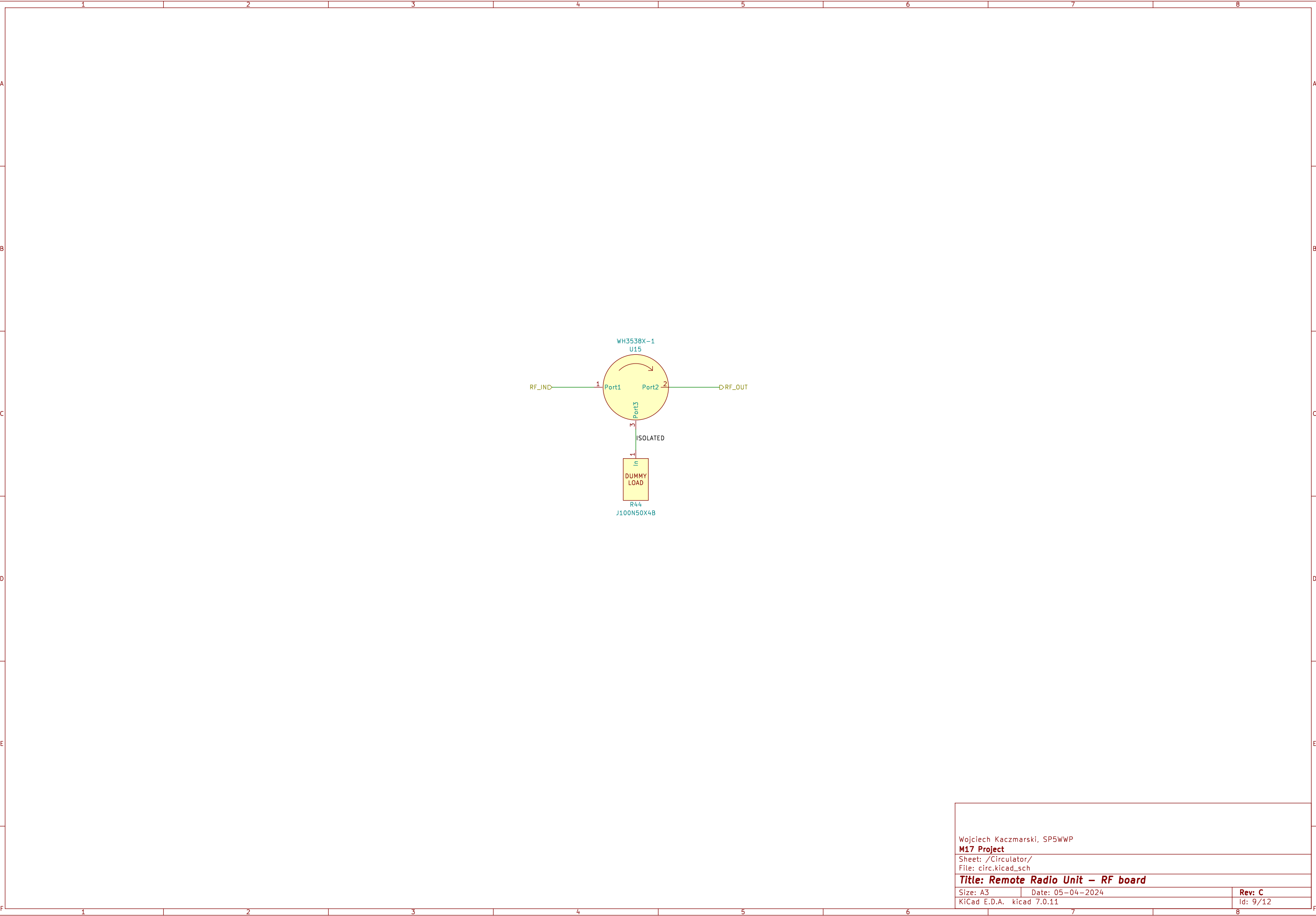
Title: Remote Radio Unit – RF board

Size: A3 Date: 05-04-2024

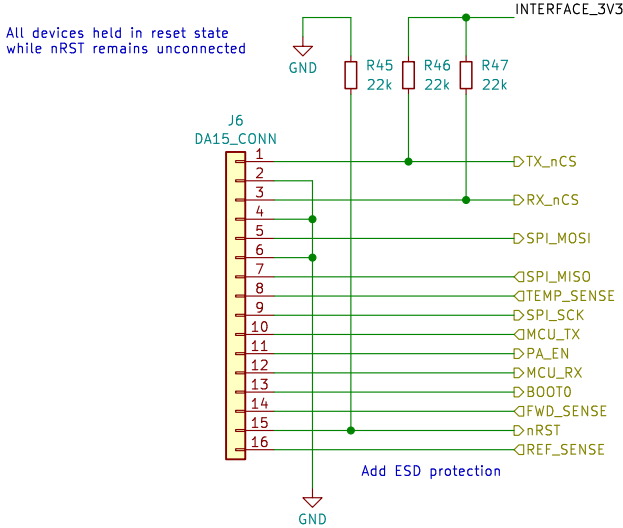
Rev: C

KiCad E.D.A. kicad 7.0.11

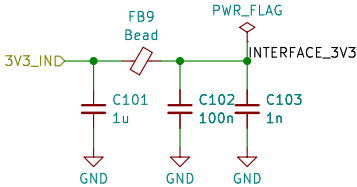
Id: 8/12

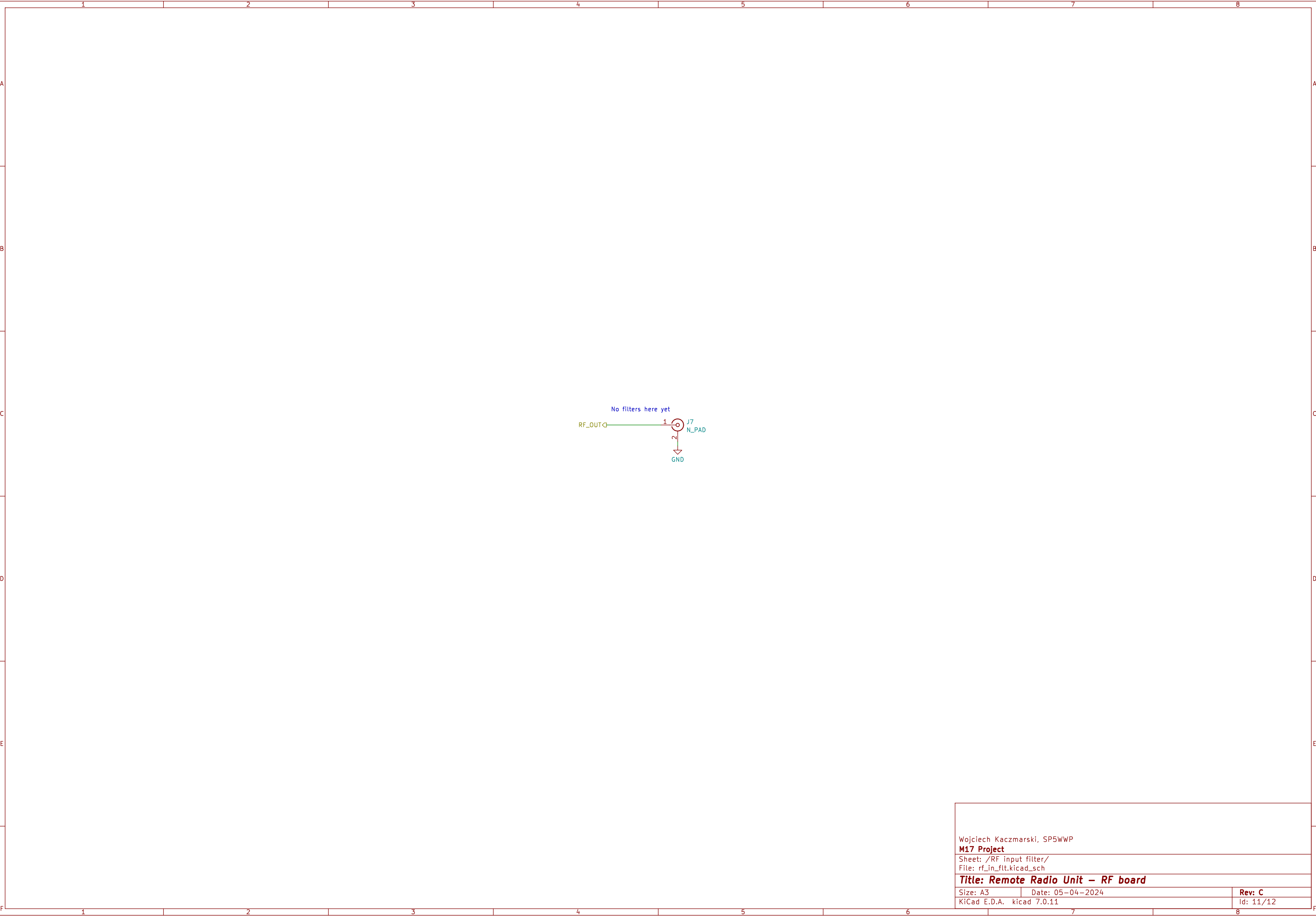


External connector

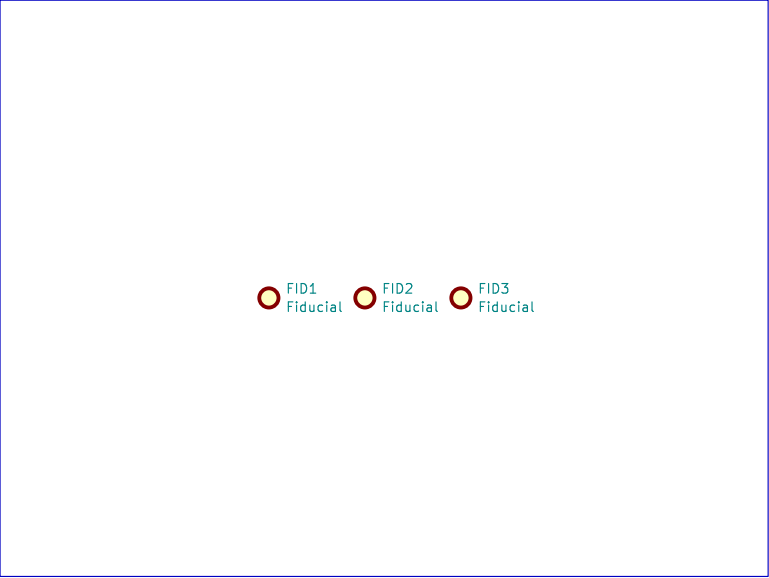


Decoupling

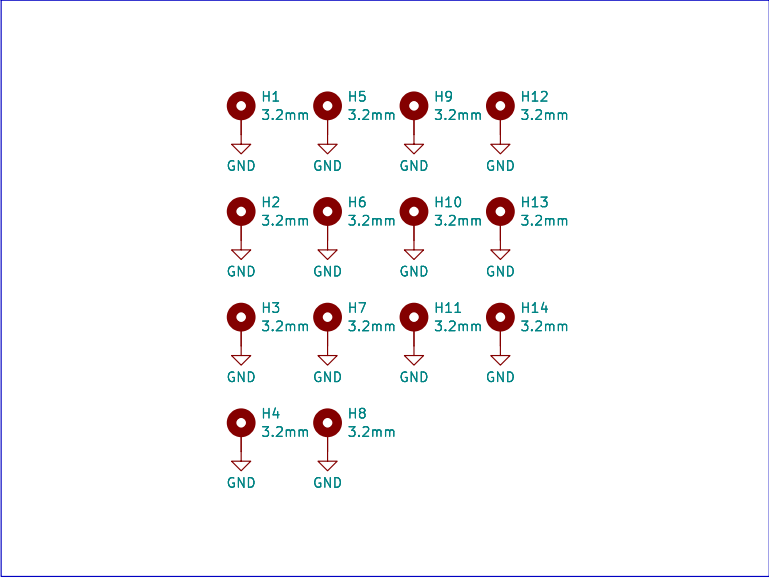




Fiducials



Mounting holes



Graphics

