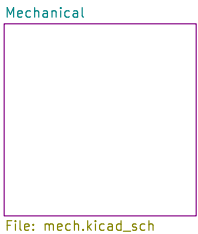
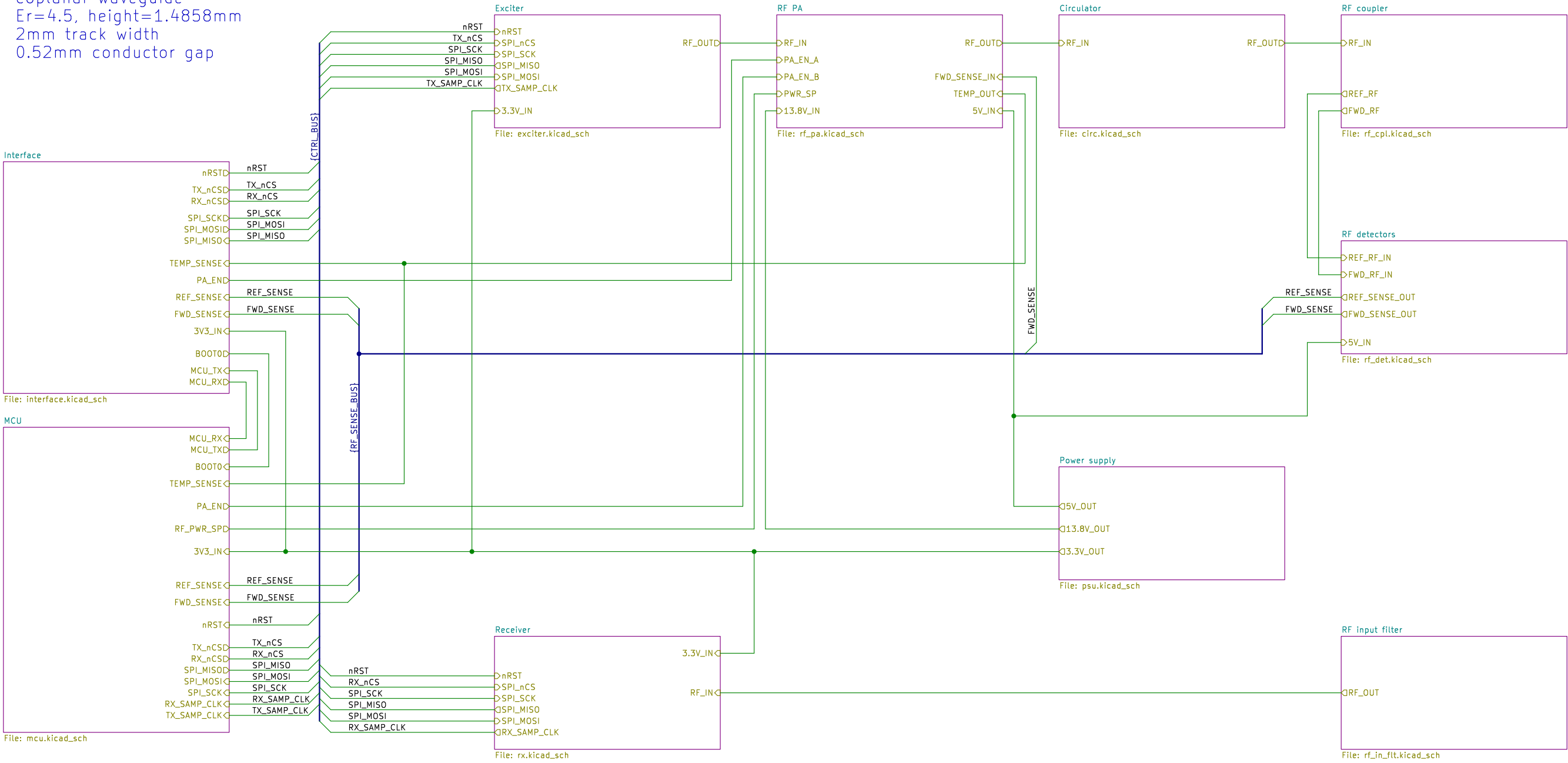
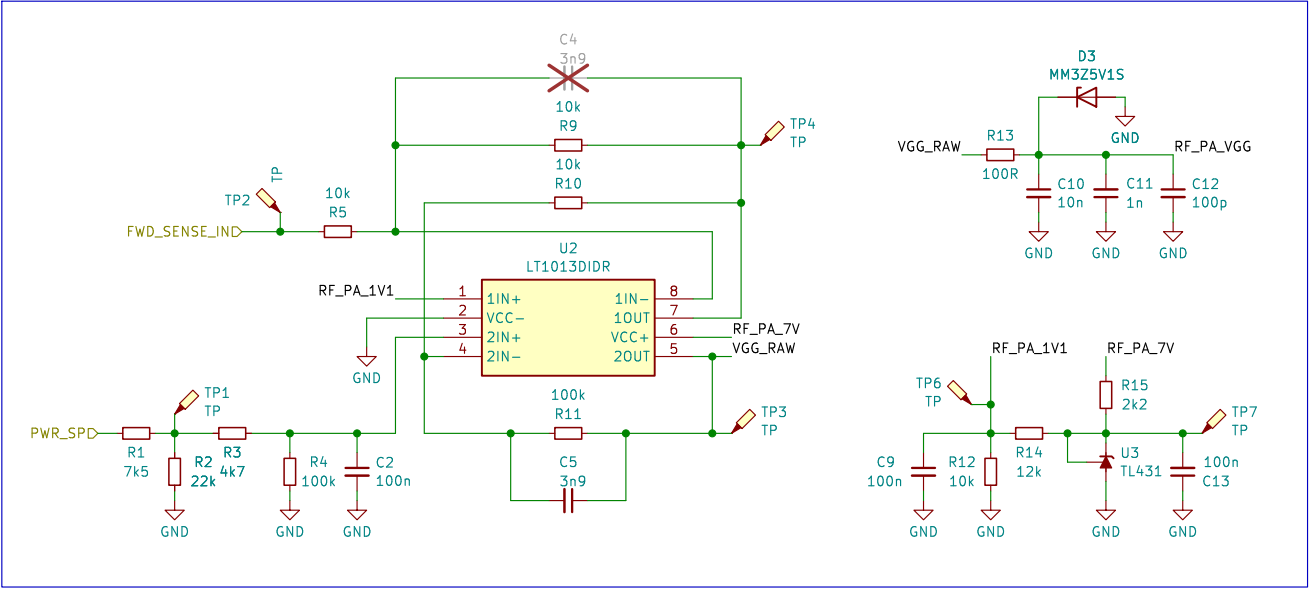


Low power RF tracks:
coplanar waveguide
Er=4.4, height=0.2104mm
0.25mm track width
0.052mm conductor gap

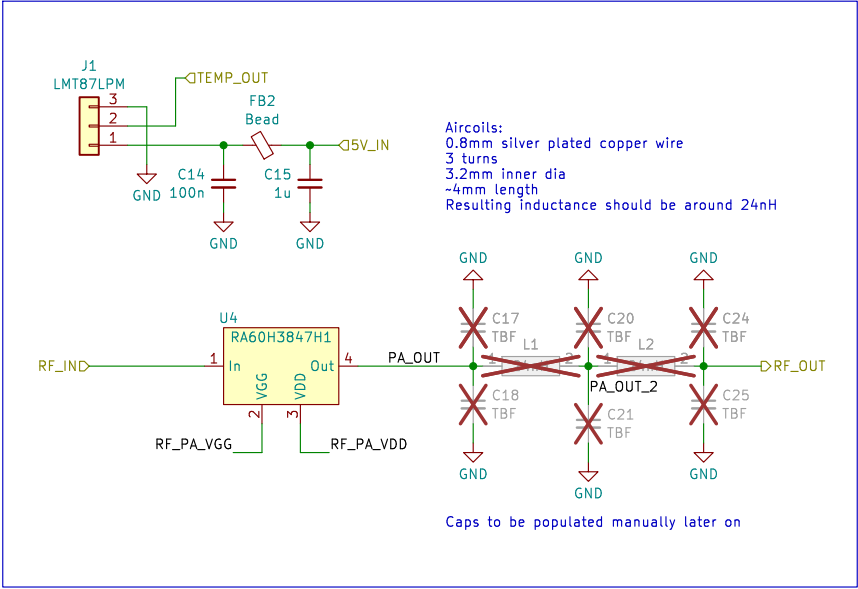
High power RF tracks:
coplanar waveguide
Er=4.5, height=1.4858mm
2mm track width
0.52mm conductor gap



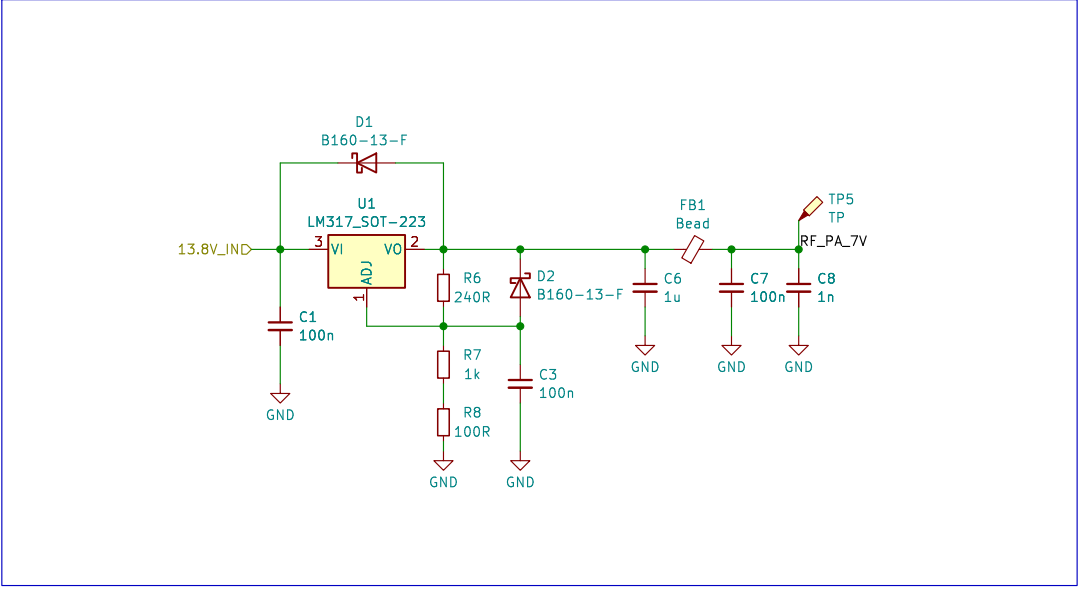
ALC



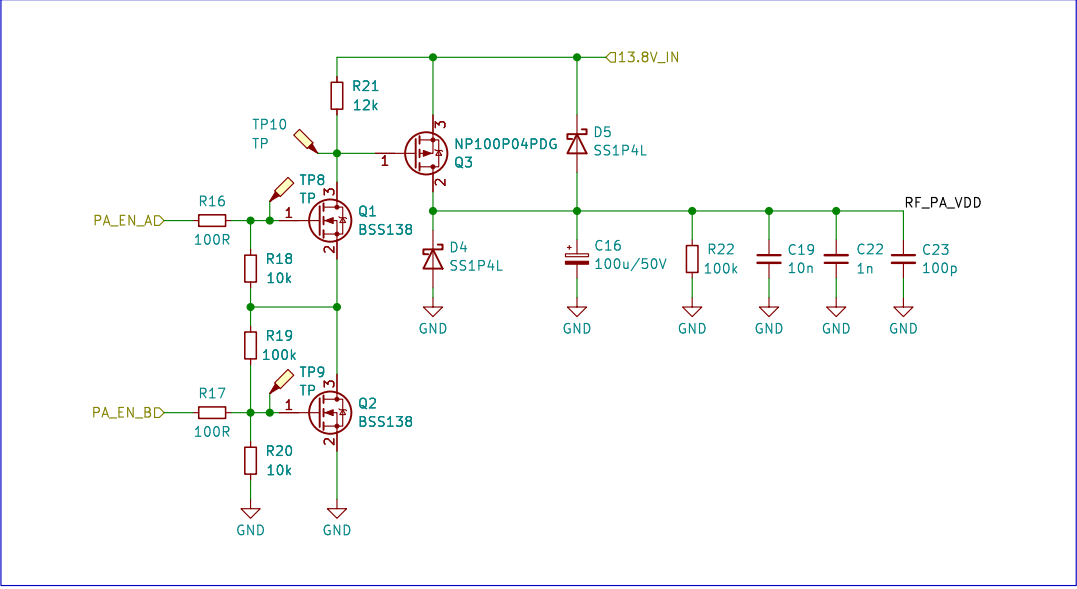
RF PA



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

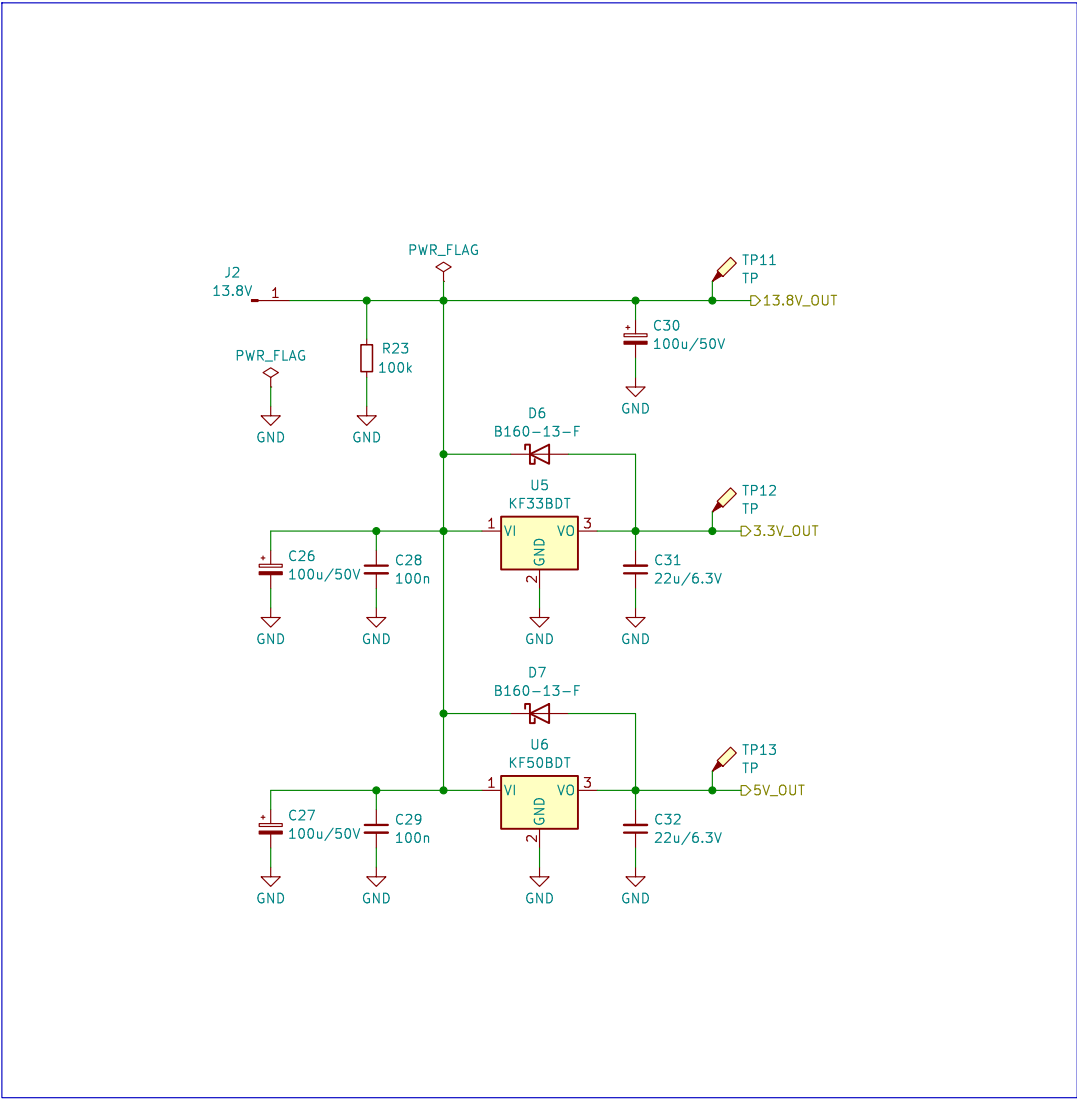
Date: 05-04-2024

Rev: C

KiCad E.D.A. kicad 7.0.11

Id: 2/12

Voltage reg.



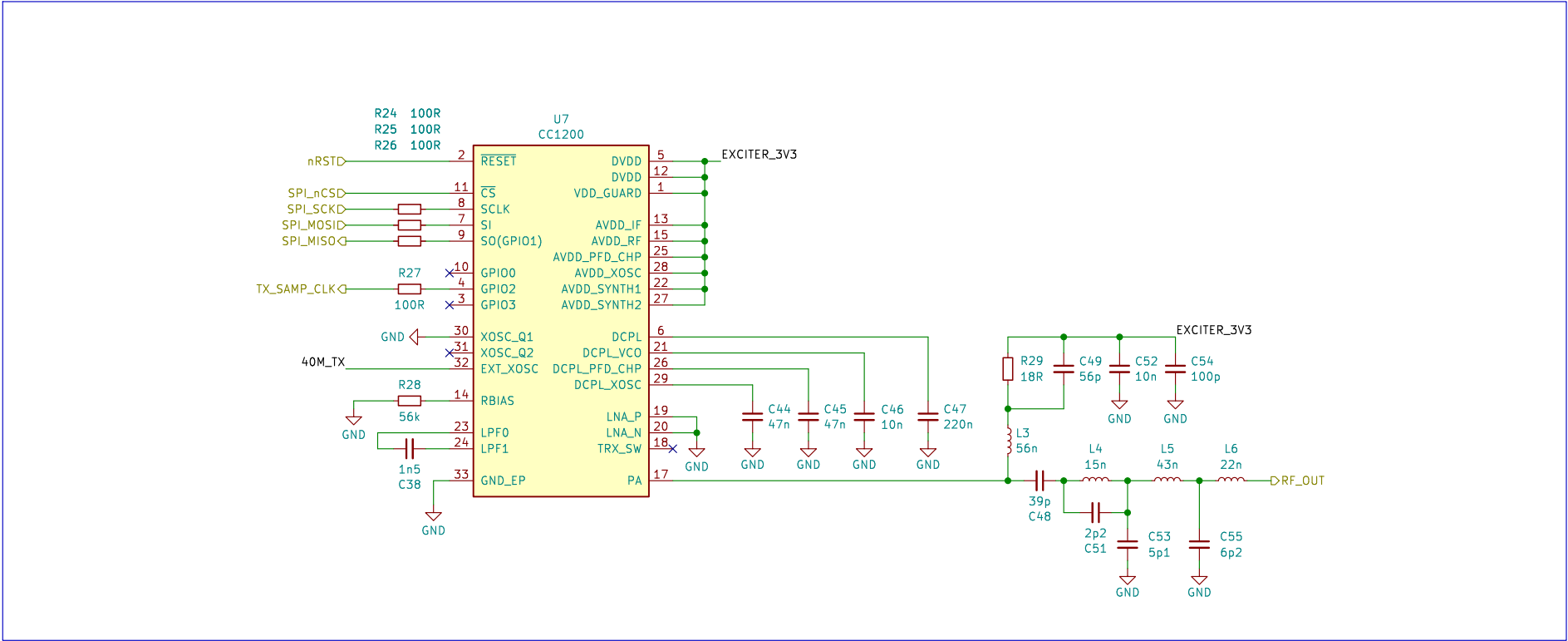
Wojciech Kaczmarek, SP5WWP
M17 Project
Sheet: /Power supply/
File: psu.kicad_sch

Title: Remote Radio Unit – RF board

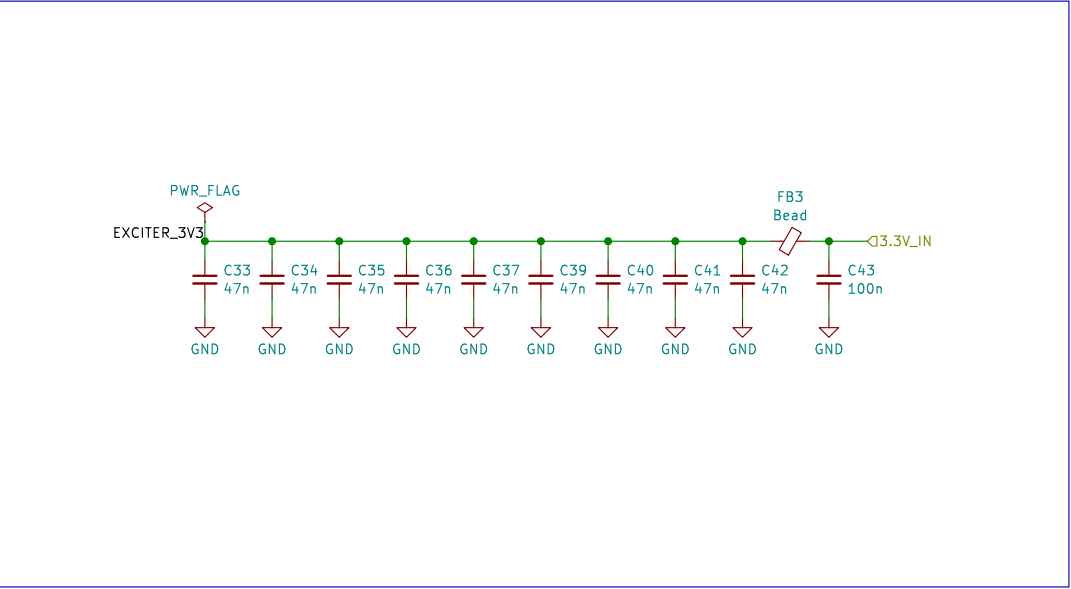
Size: A3 Date: 05-04-2024
KiCad E.D.A. kicad 7.0.11

Rev: C
Id: 3/12

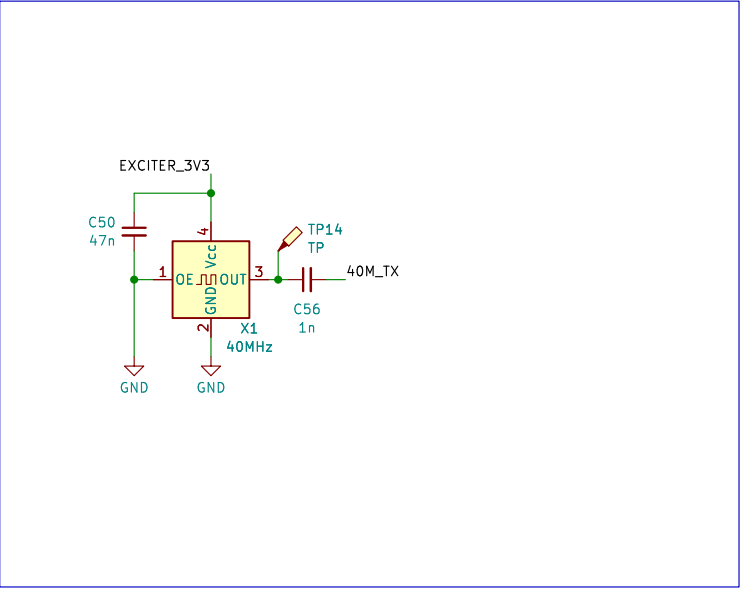
Exciter

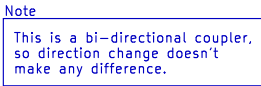


Decoupling



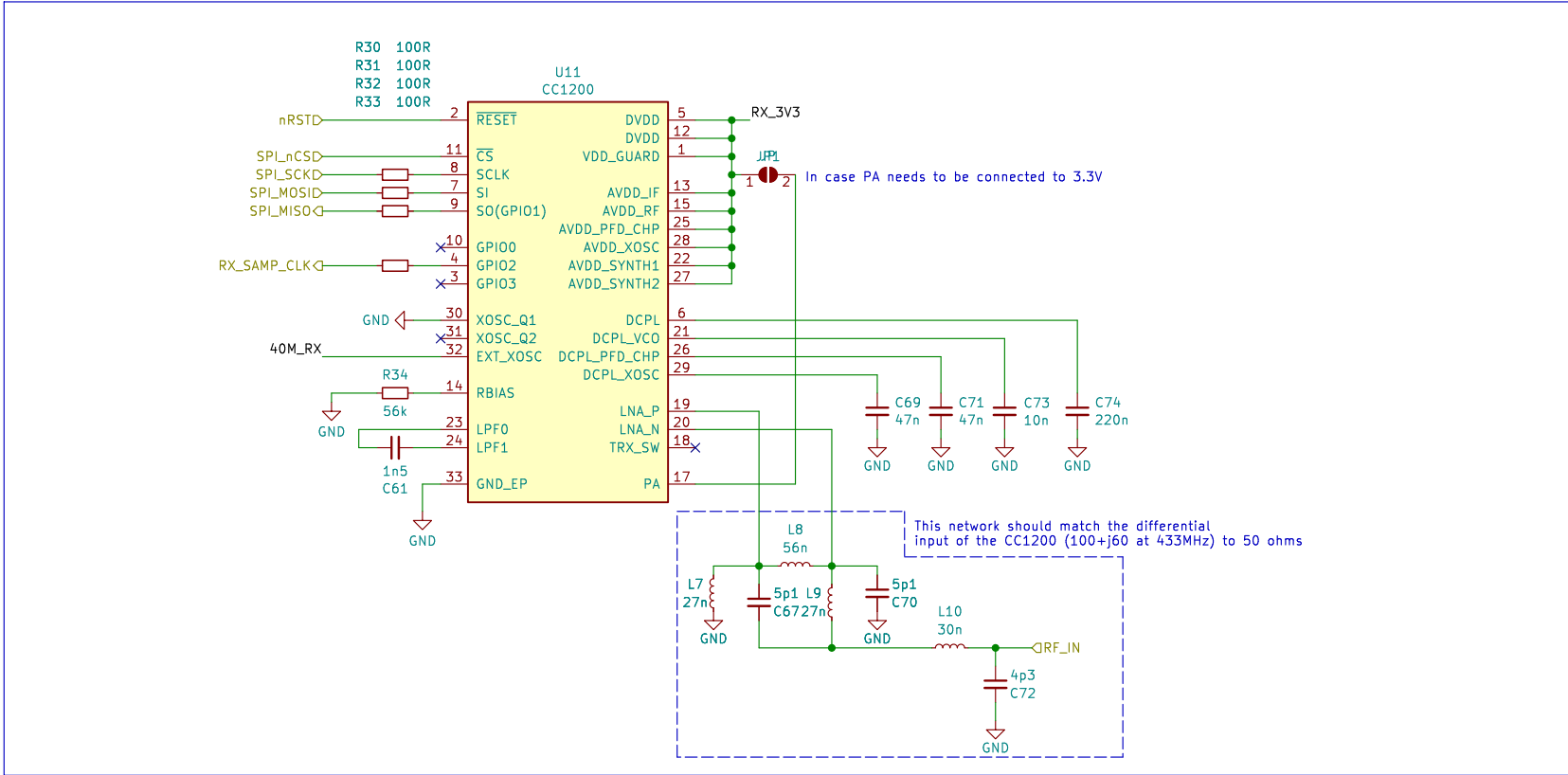
Local 40MHz reference



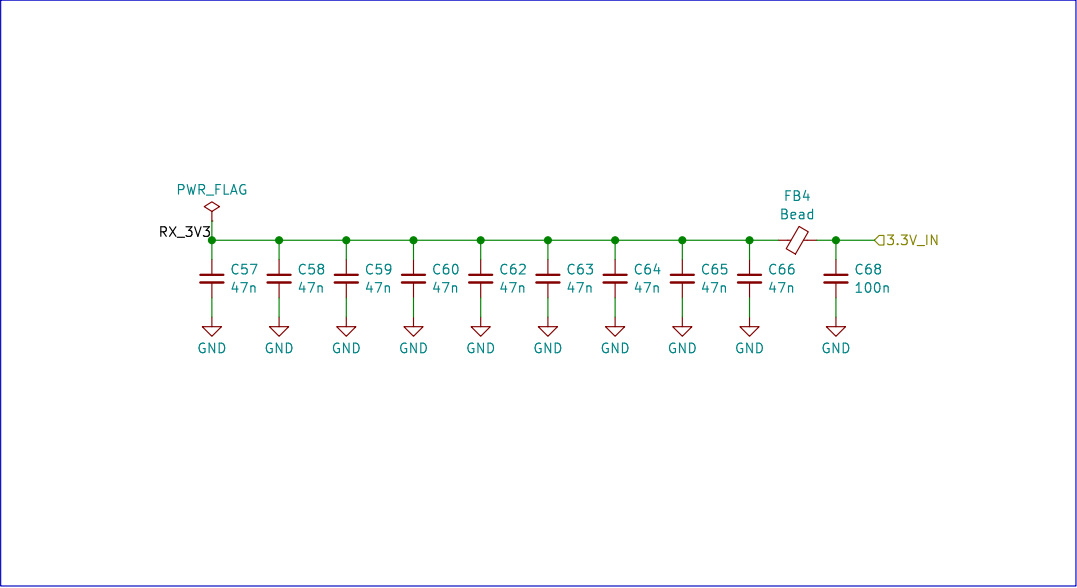


Id: 5/12

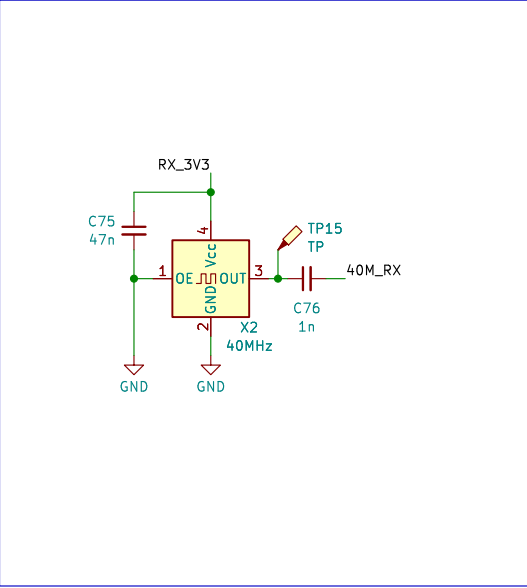
Receiver



Decoupling



Local 40MHz reference



Wojciech Kaczmarek, SP5WWP

M17 Project

Sheet: /Receiver/

File: rx.kicad_sch

Title: Remote Radio Unit – RF board

Size: A3

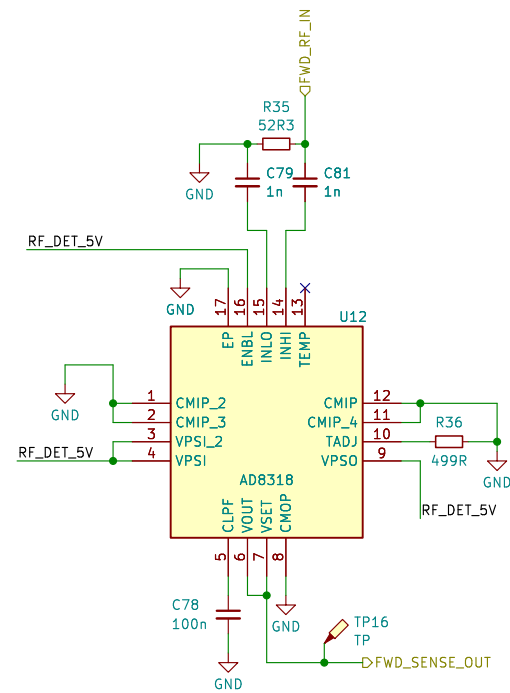
Date: 05-04-2024

Rev: C

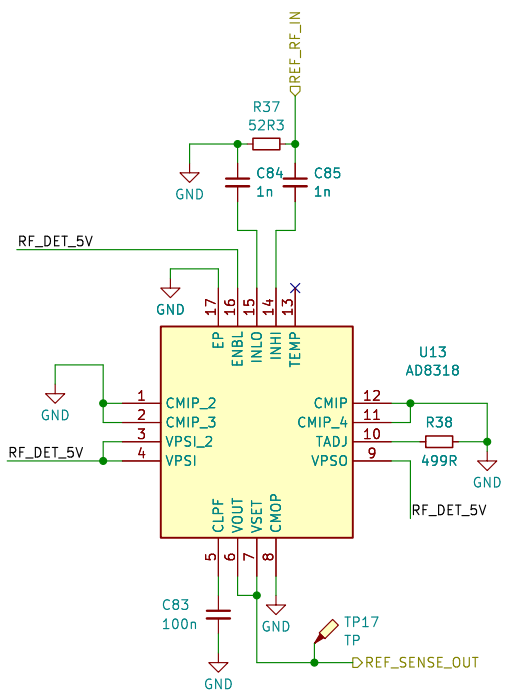
KiCad E.D.A. kicad 7.0.11

Id: 6/12

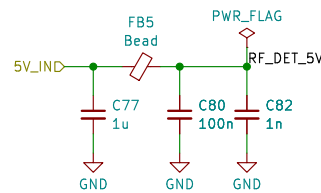
FWD power sense



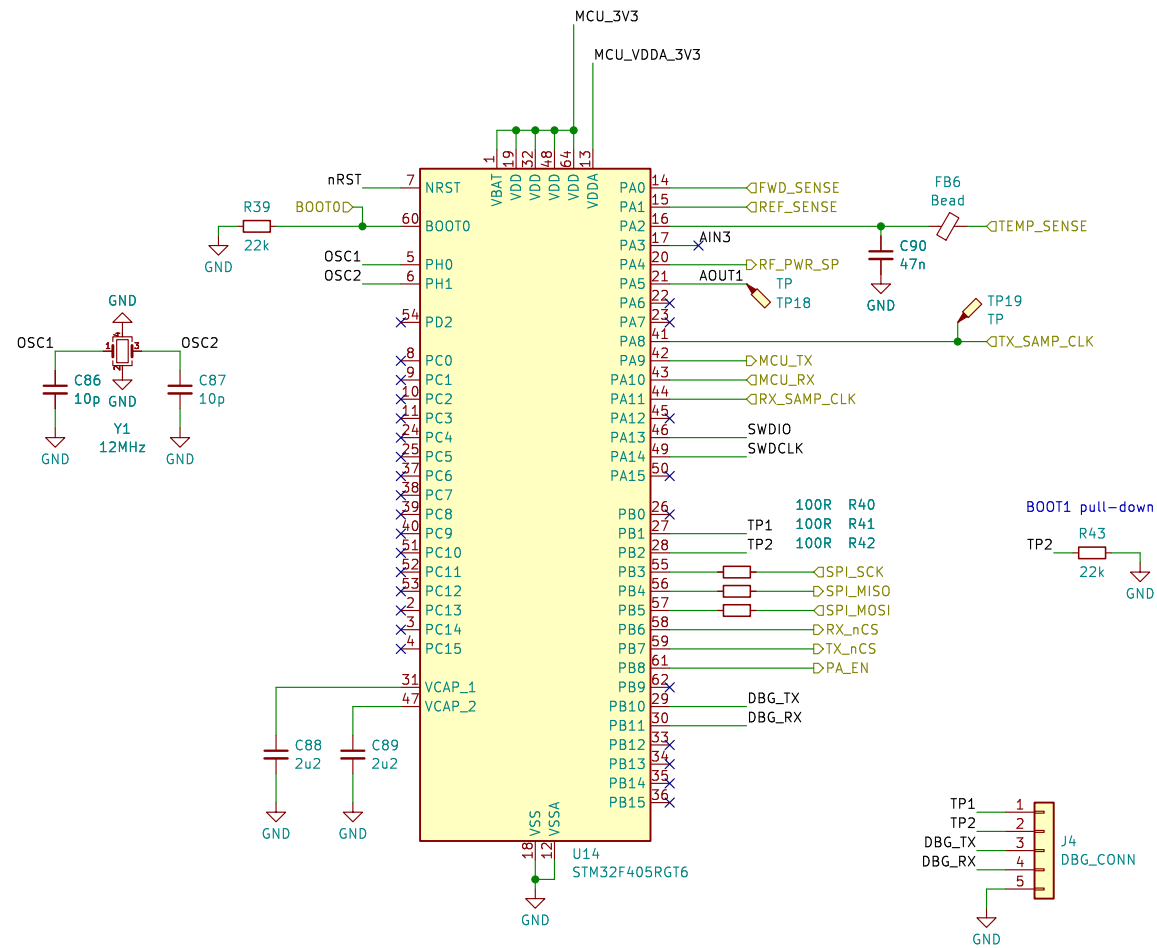
REF power sense



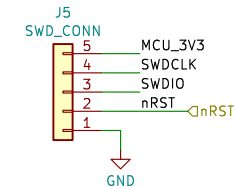
Decoupling



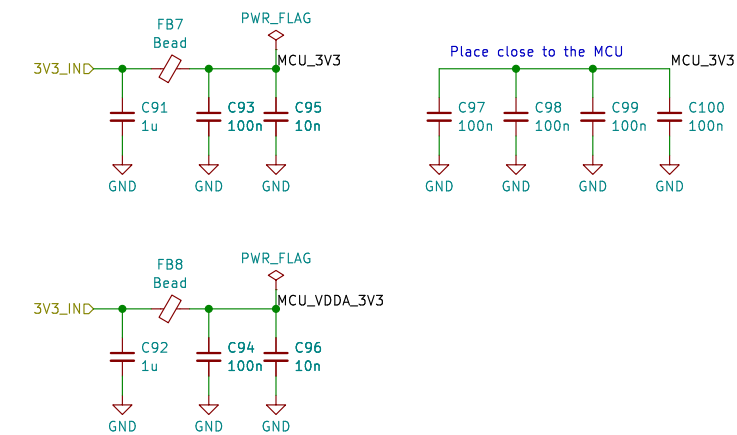
MCU



SWD



Decoupling

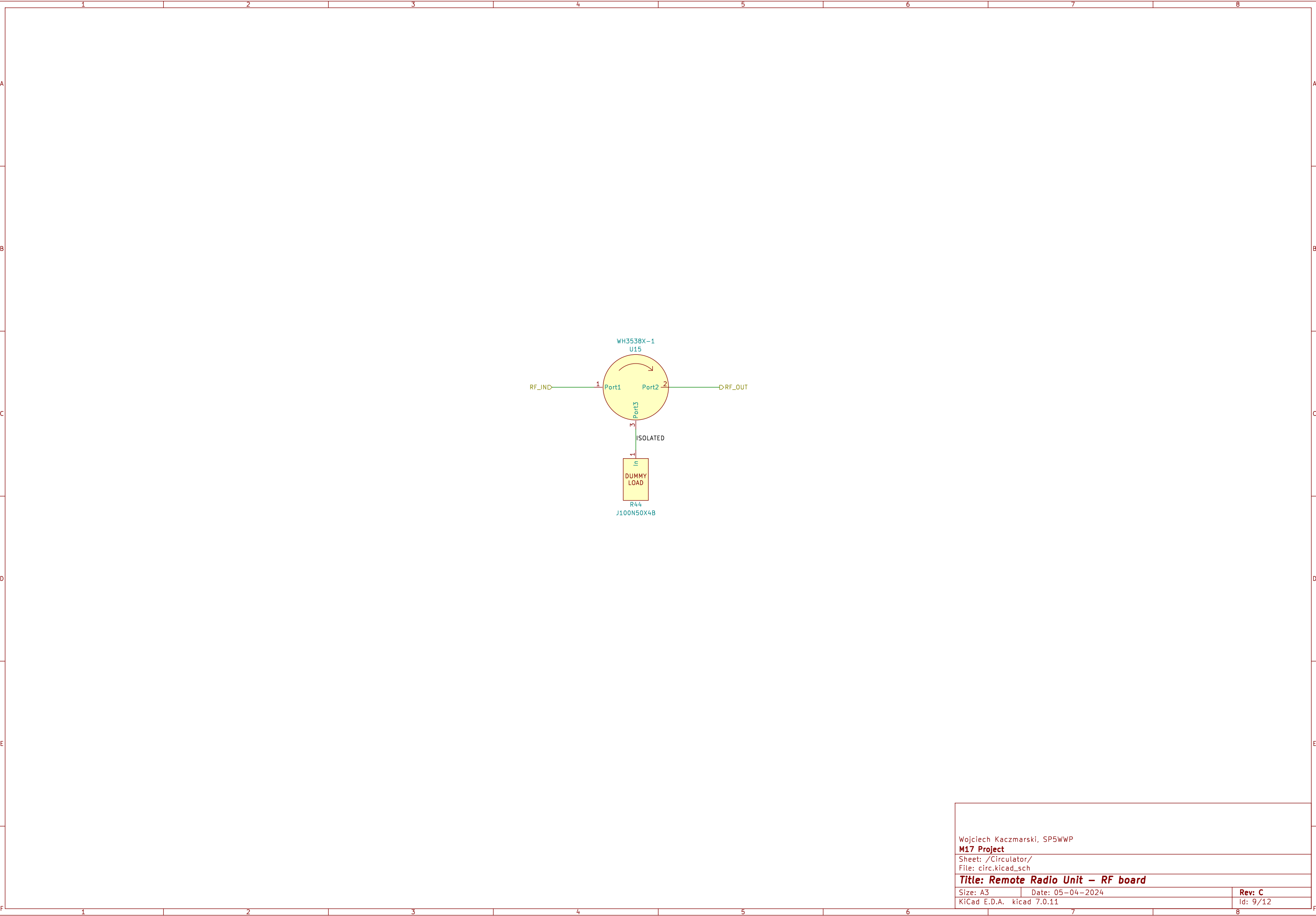


Wojciech Kaczmarek, SP5WWP
M17 Project
Sheet: /MCU/
File: mcu.kicad_sch

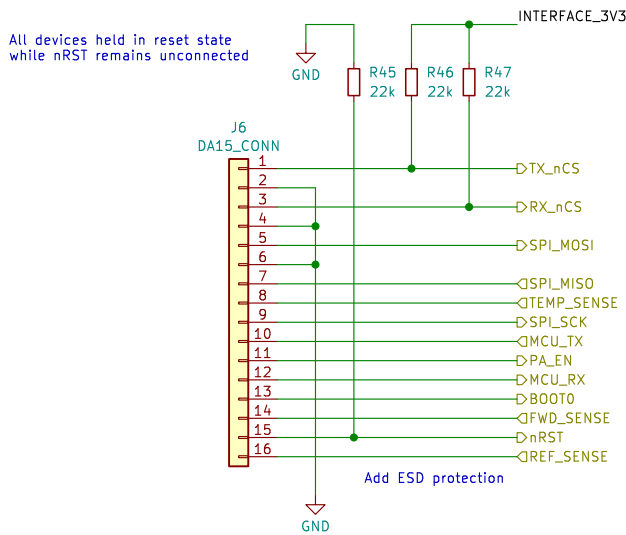
Title: Remote Radio Unit – RF board

Size: A3 Date: 05-04-2024
KiCad E.D.A. kicad 7.0.11

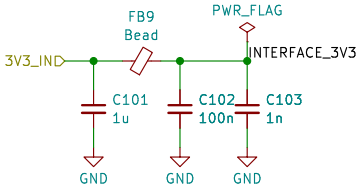
Rev: C
Id: 8/12



External connector



Decoupling



Wojciech Kaczmarek, SP5WWP

M17 Project

Sheet: /Interface/

File: interface.kicad_sch

Title: Remote Radio Unit – RF board

Size: A3

Date: 05-04-2024

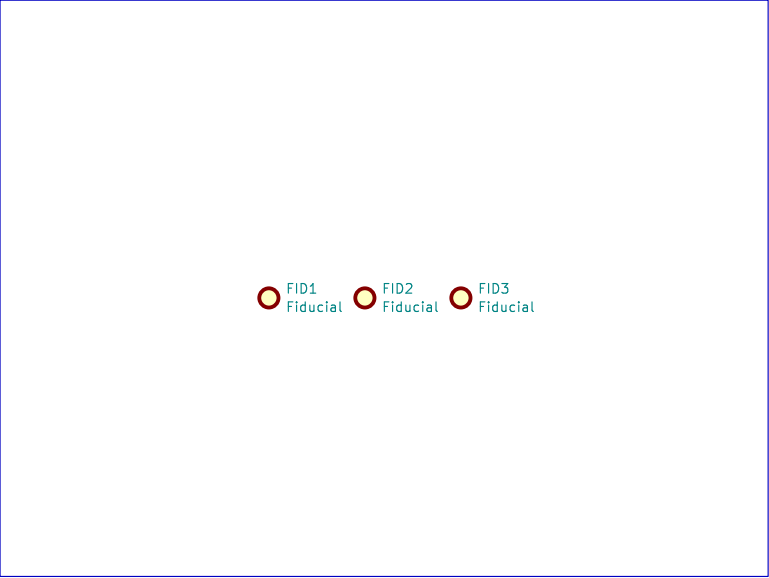
Rev: C

KiCad E.D.A. kicad 7.0.11

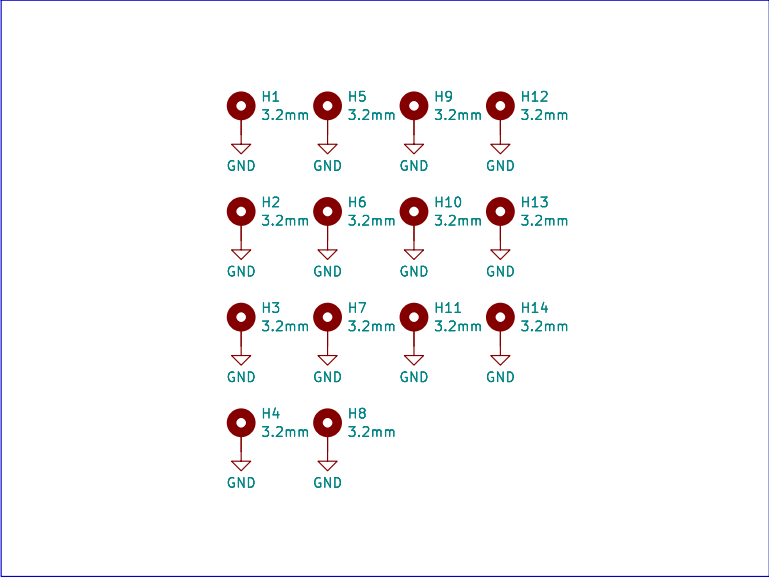
Id: 10/12

Id: 11/12

Fiducials



Mounting holes



Graphics

