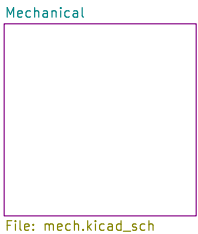
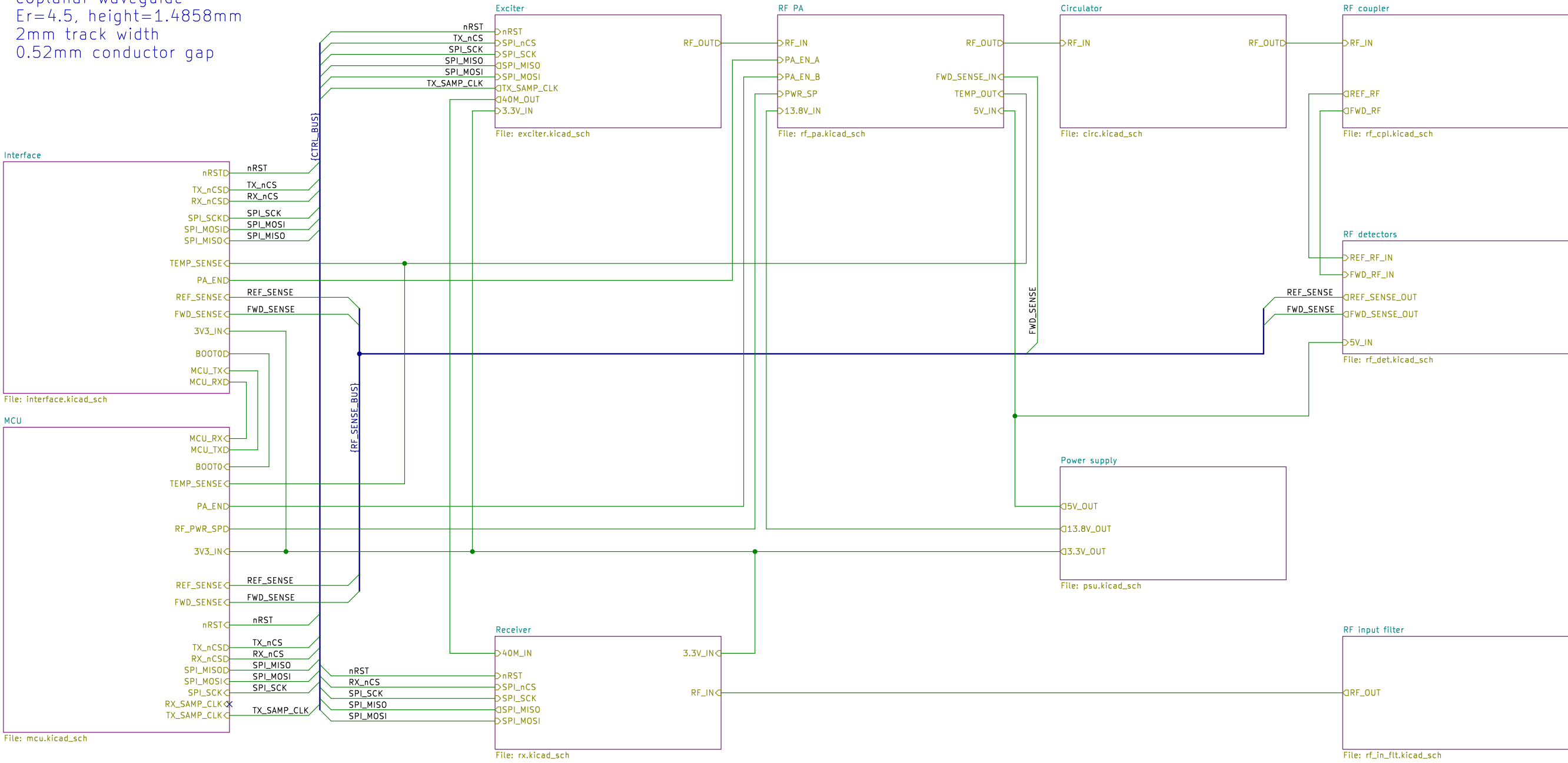
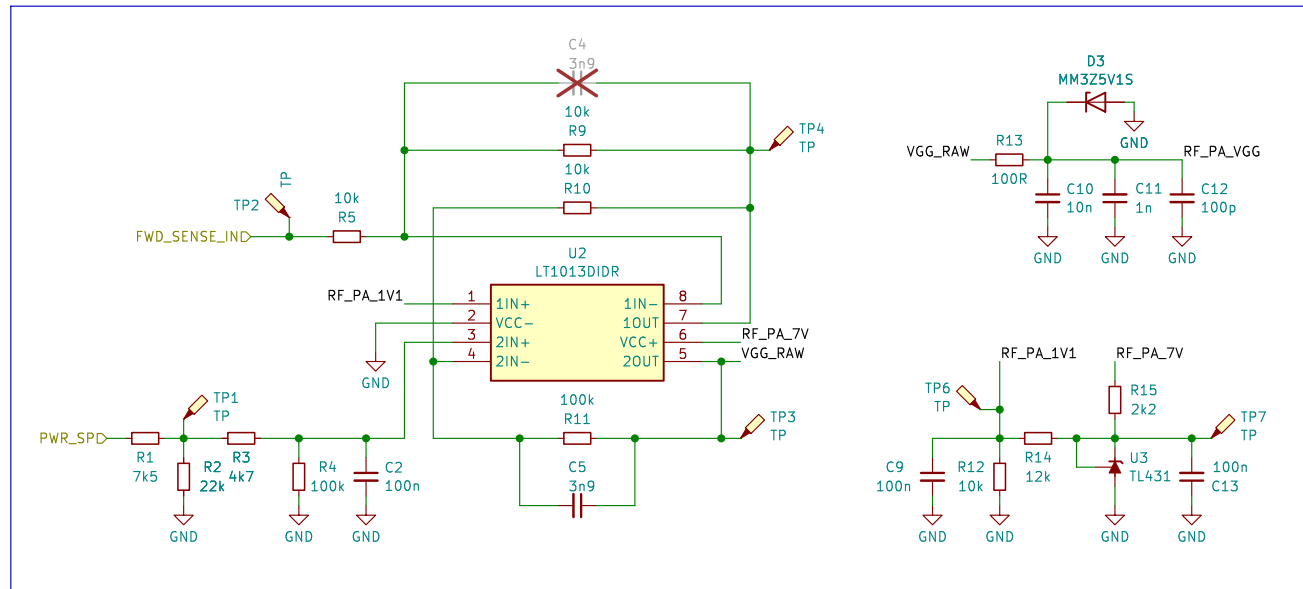


Low power RF tracks:
coplanar waveguide
Er=4.4, height=0.2104mm
0.25mm track width
0.052mm conductor gap

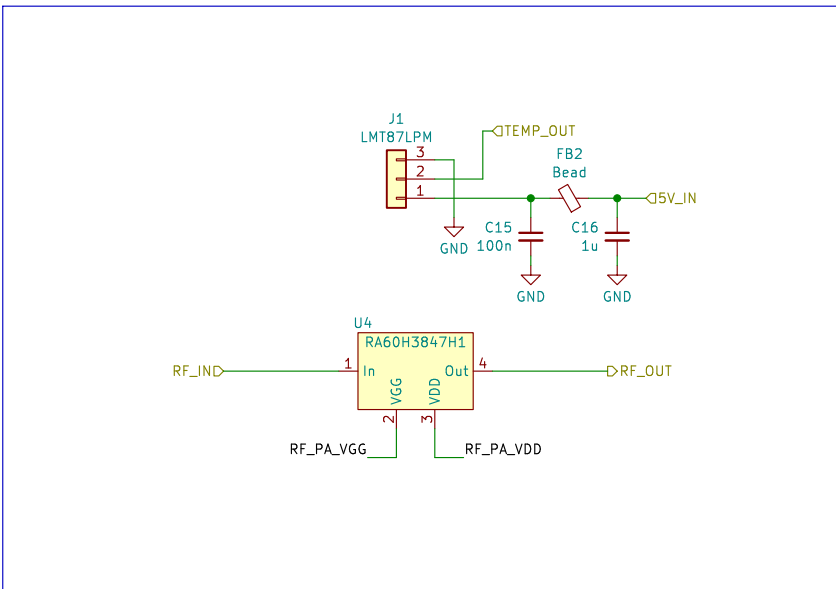
High power RF tracks:
coplanar waveguide
Er=4.5, height=1.4858mm
2mm track width
0.52mm conductor gap



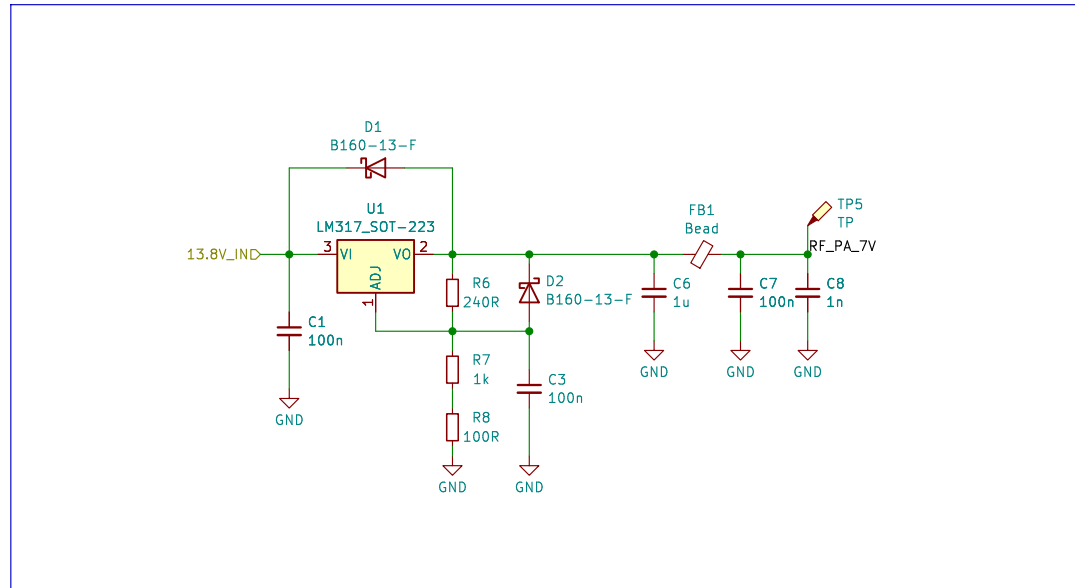
ALC



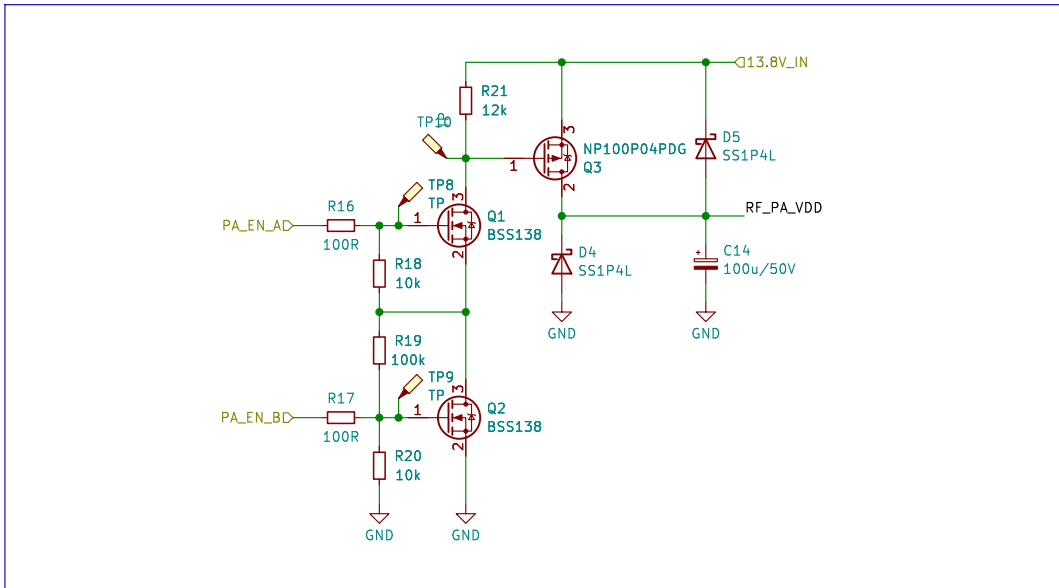
RF PA



Voltage reg.



Supply switching



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M17 Project

Sheet: /RF PA/

File: rf_pa.kicad_sch

Title: Remote Radio Unit – RF board

Size: A3

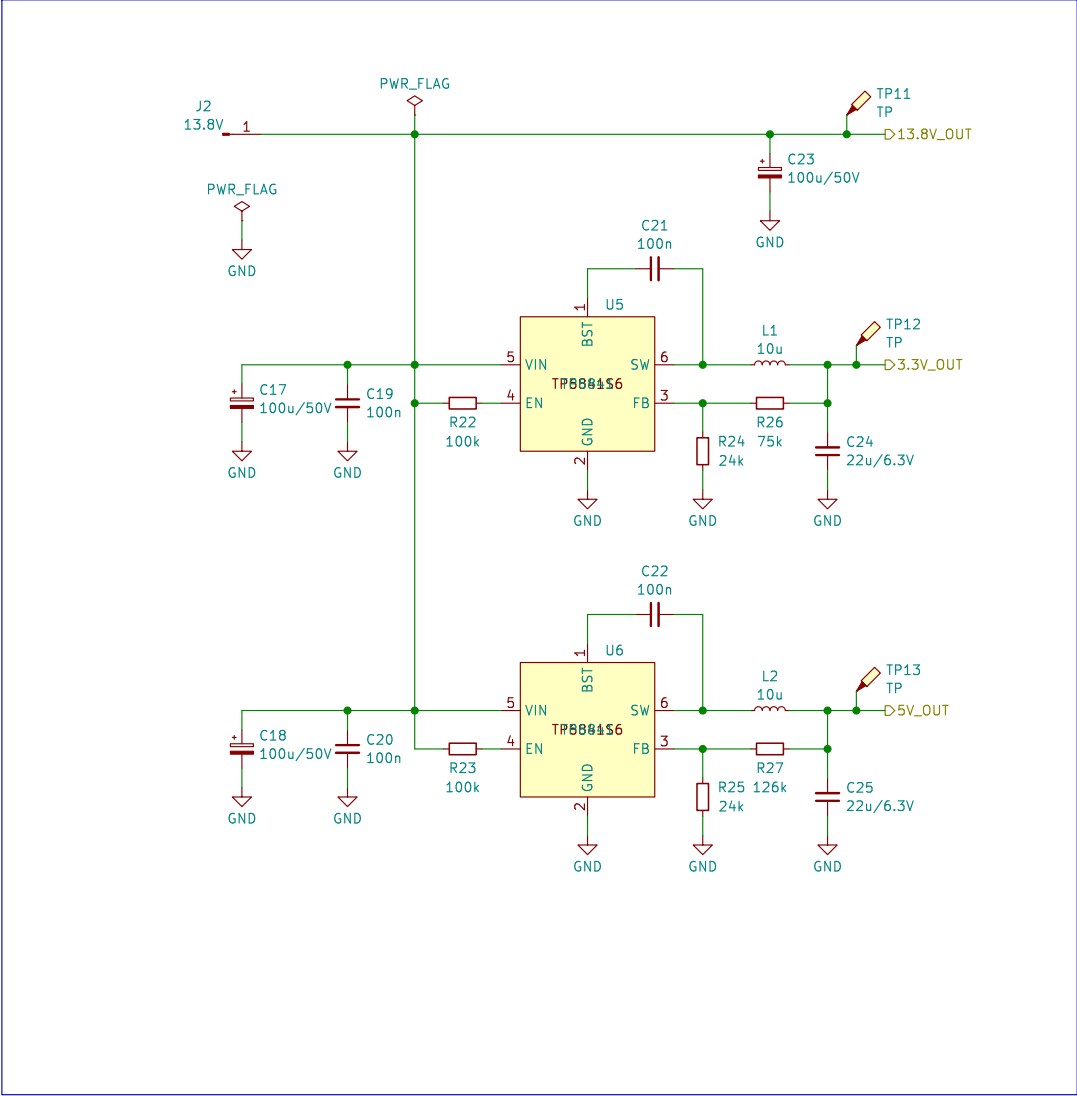
Date: 18-01-2024

Rev: B

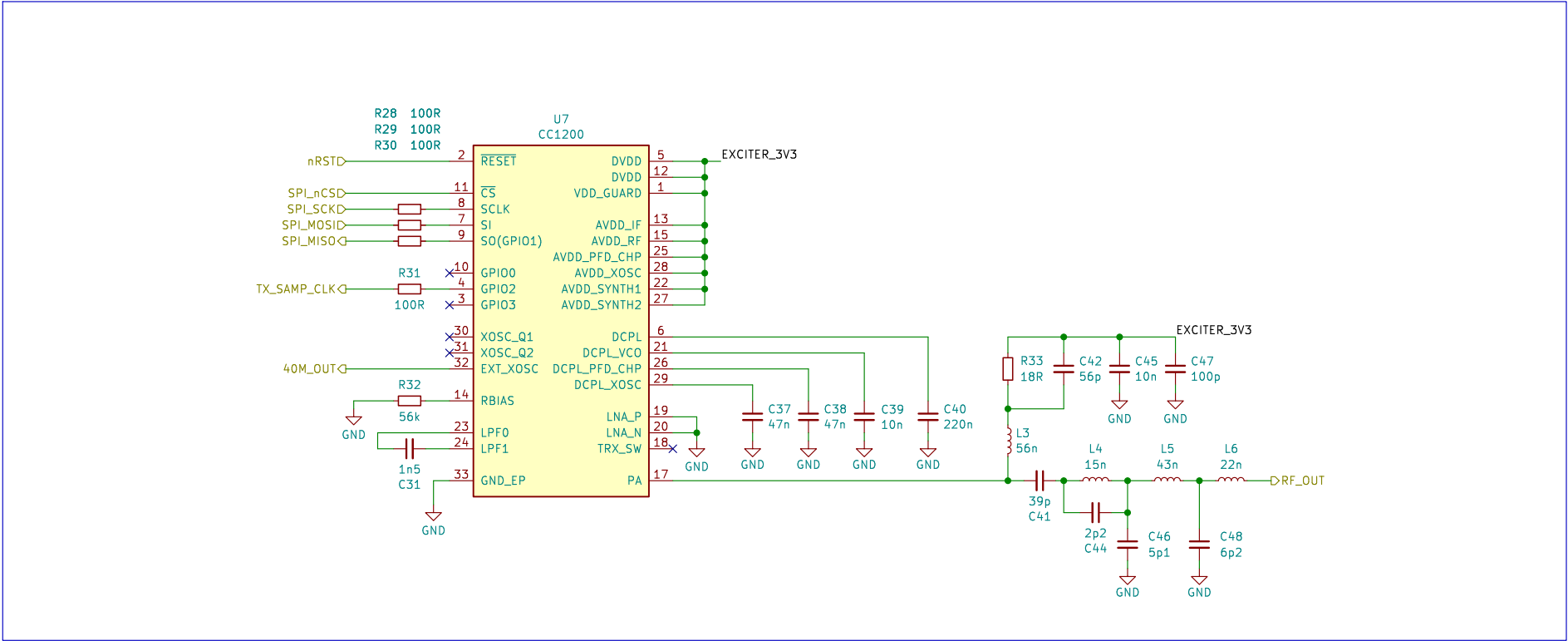
KiCad E.D.A. kicad 7.0.8

Id: 2/12

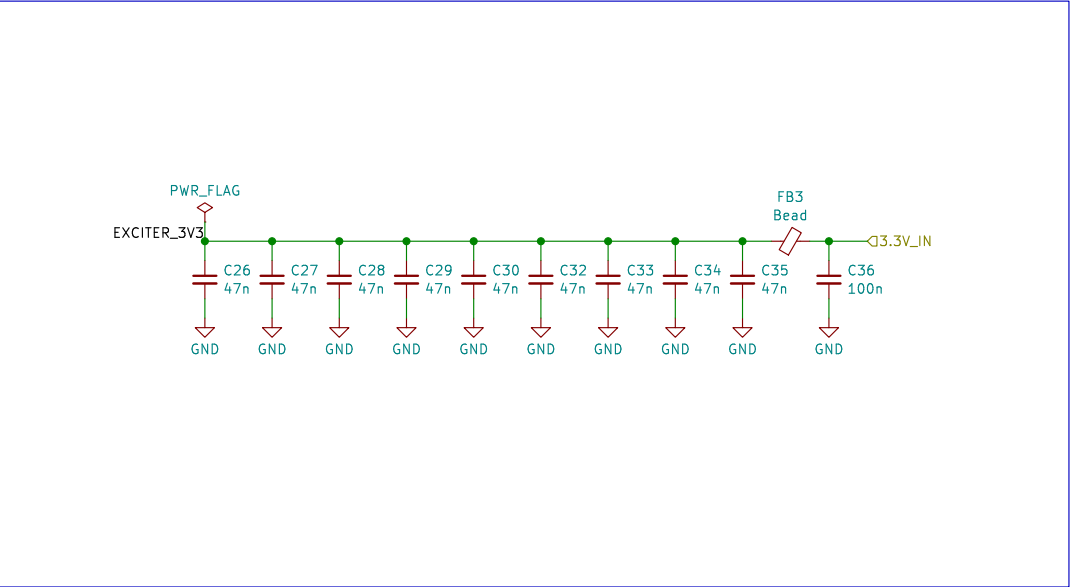
Voltage reg.



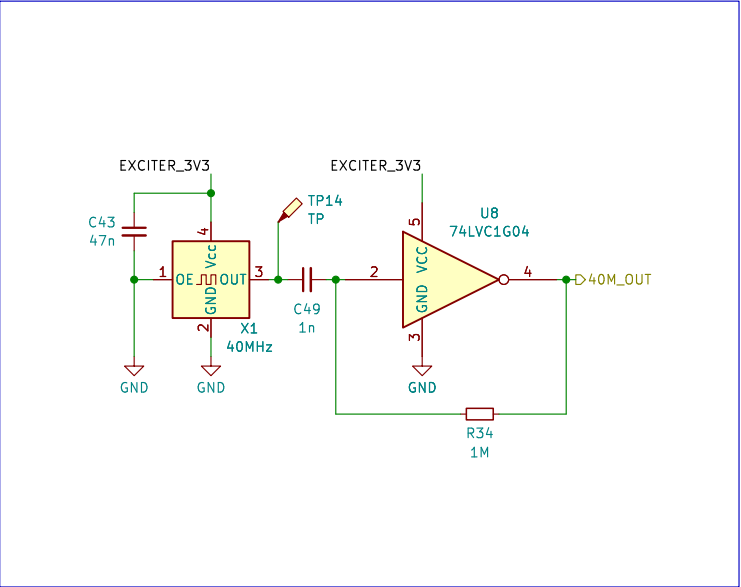
Exciter



Decoupling



40MHz reference



Wojciech Kaczmarek, SP5WWP

M17 Project

Sheet: /Exciter/

File: exciter.kicad_sch

Title: Remote Radio Unit – RF board

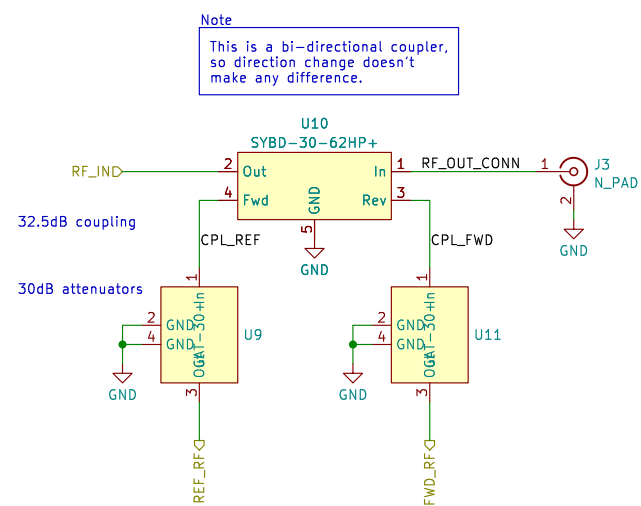
Size: A3

Date: 18-01-2024

Rev: B

KiCad E.D.A. kicad 7.0.8

Id: 4/12



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M17 Project

Sheet: /RF coupler/

File: rf_cpl.kicad_sch

Title: Remote Radio Unit – RF board

Size: A3

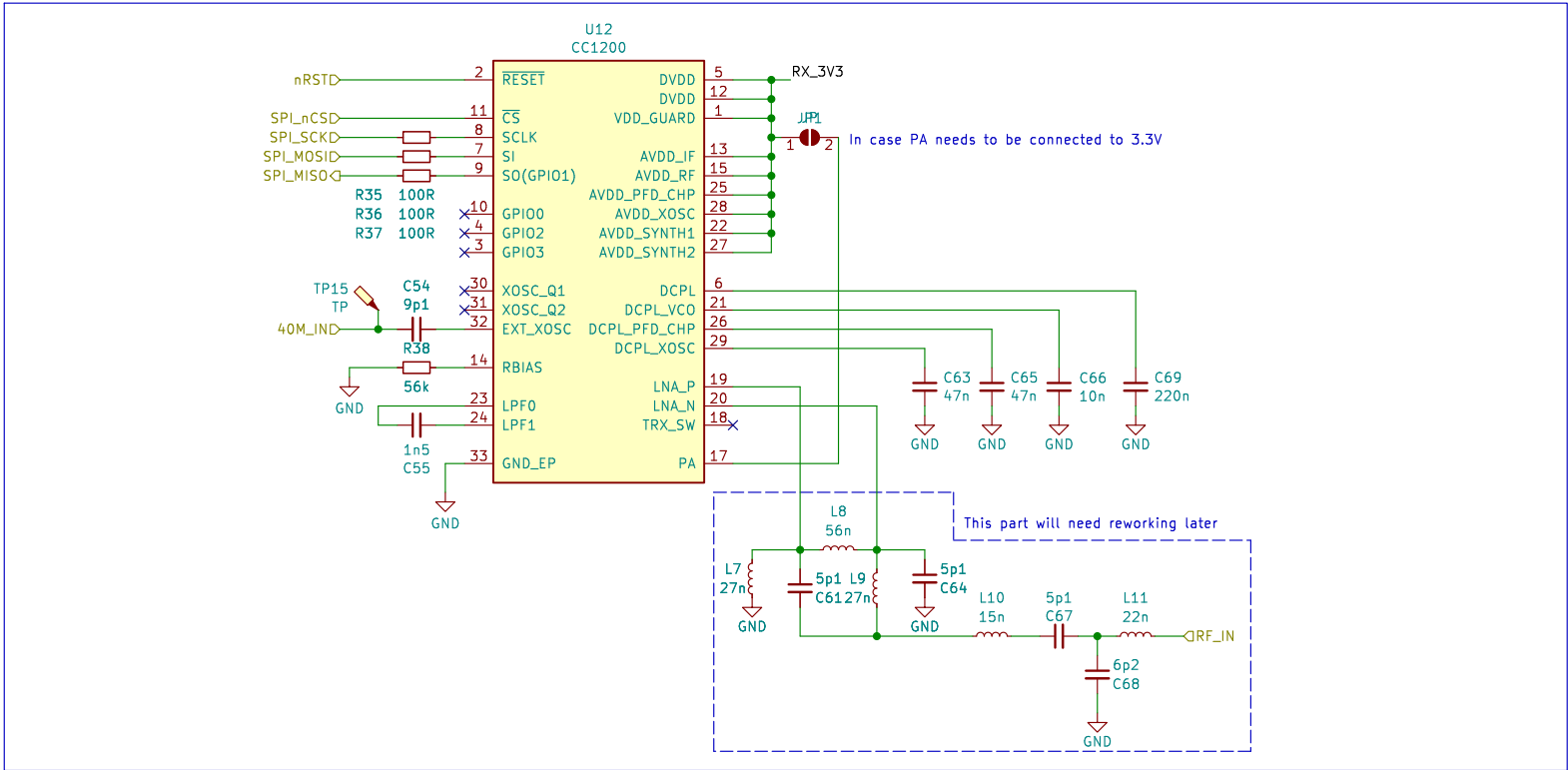
Date: 18-01-2024

Rev: B

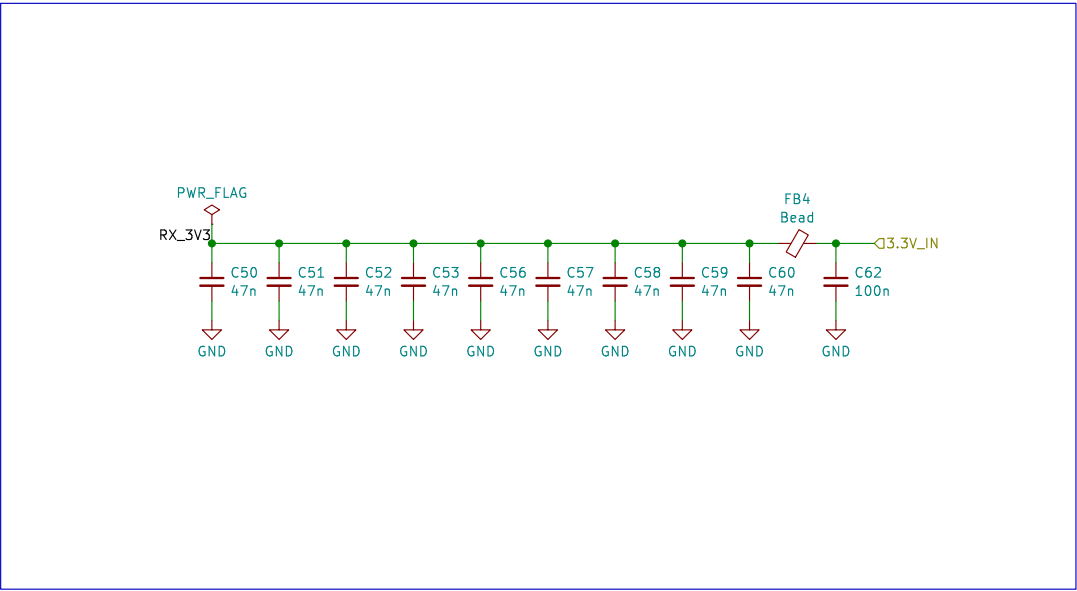
Size: A5	Date: 1
KiCad E.D.A.	kicad 7.0.8

Id: 5/12

Receiver



Decoupling



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M17 Project

Sheet: /Receiver/

File: rx.kicad_sch

Title: Remote Radio Unit – RF board

Size: A3

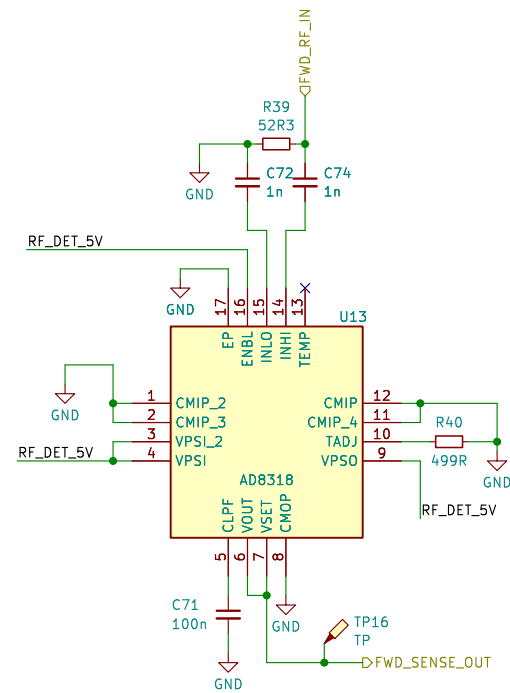
Date: 18-01-2024

Rev: B

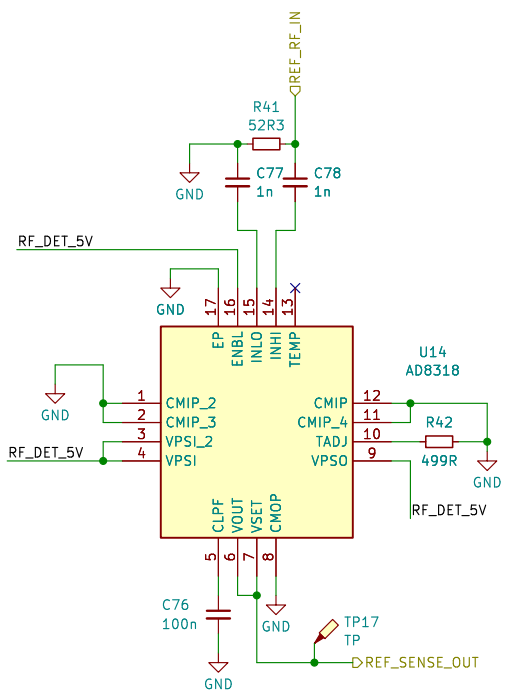
KiCad E.D.A. kicad 7.0.8

Id: 6/12

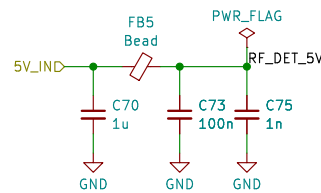
FWD power sense



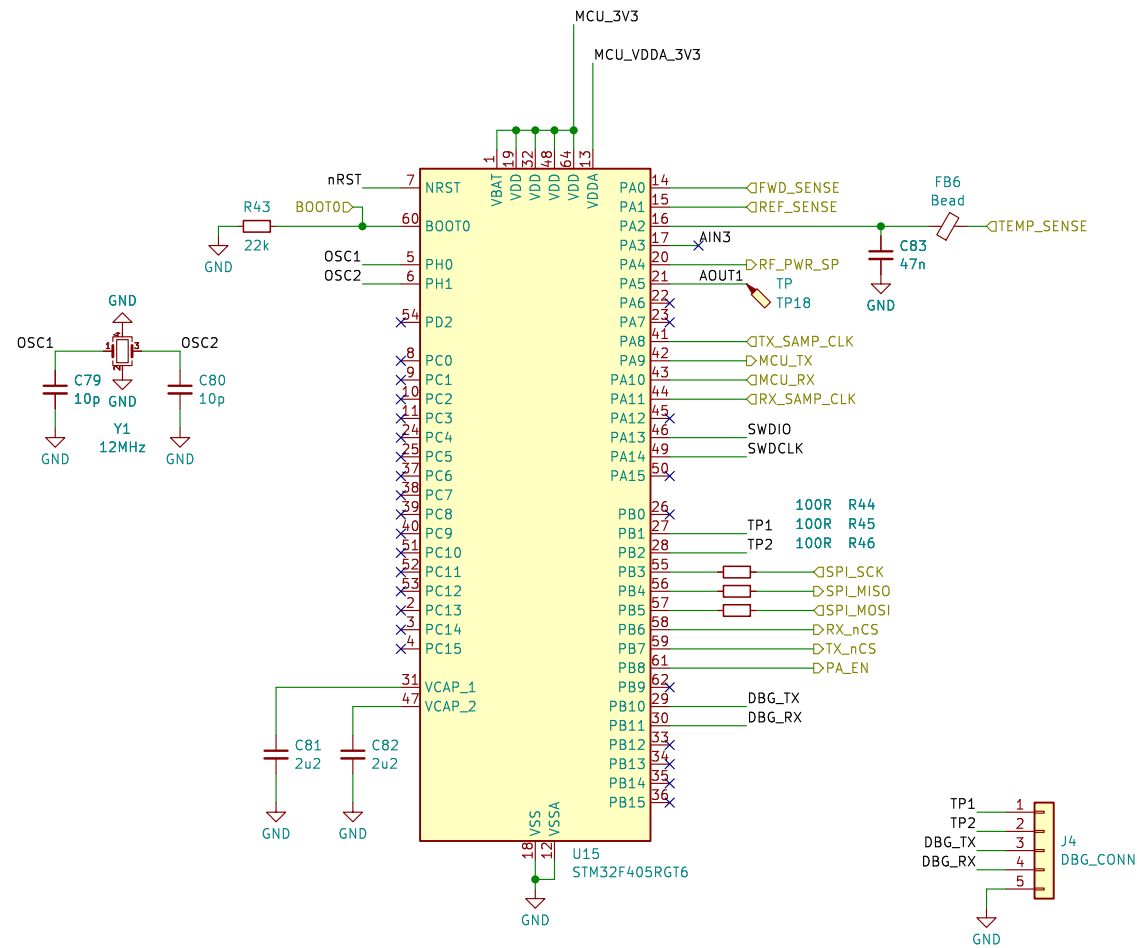
REF power sense



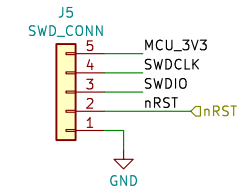
Decoupling



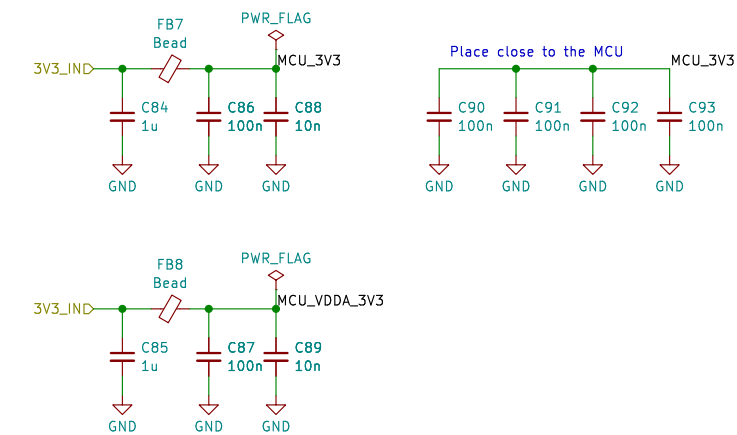
MCU



SWD



Decoupling



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M17 Project

Sheet: /MCU/

File: mcu.kicad_sch

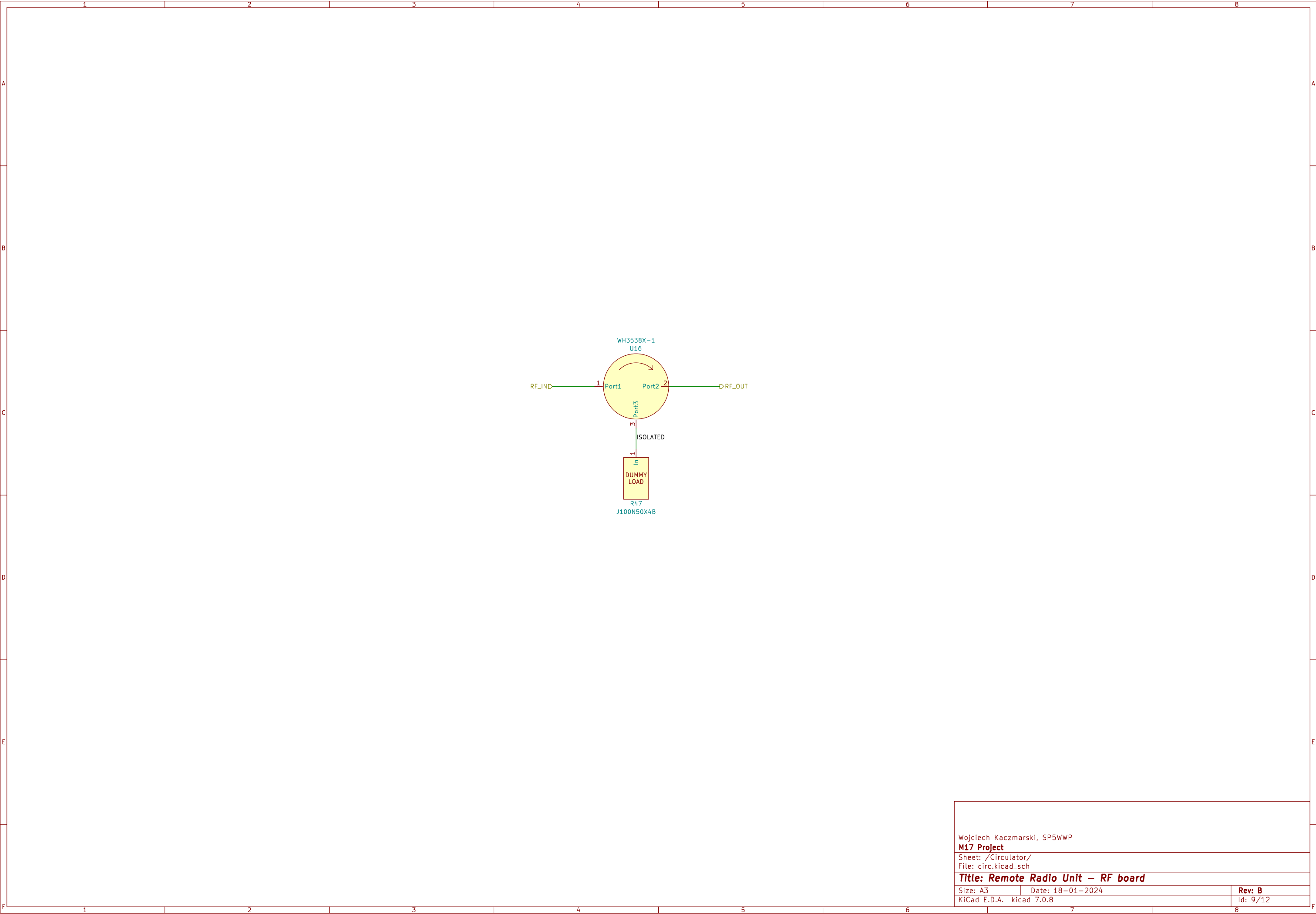
Title: Remote Radio Unit – RF board

Size: A3 Date: 18-01-2024

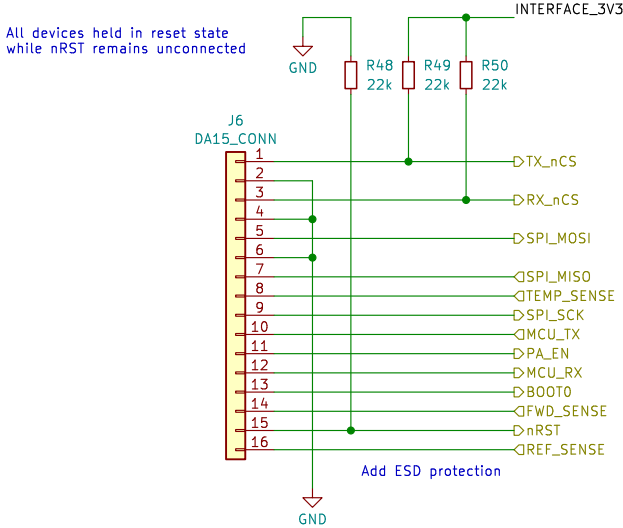
Rev: B

KiCad E.D.A. kicad 7.0.8

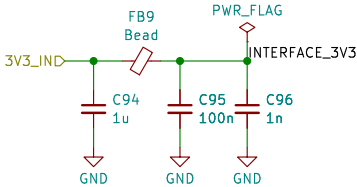
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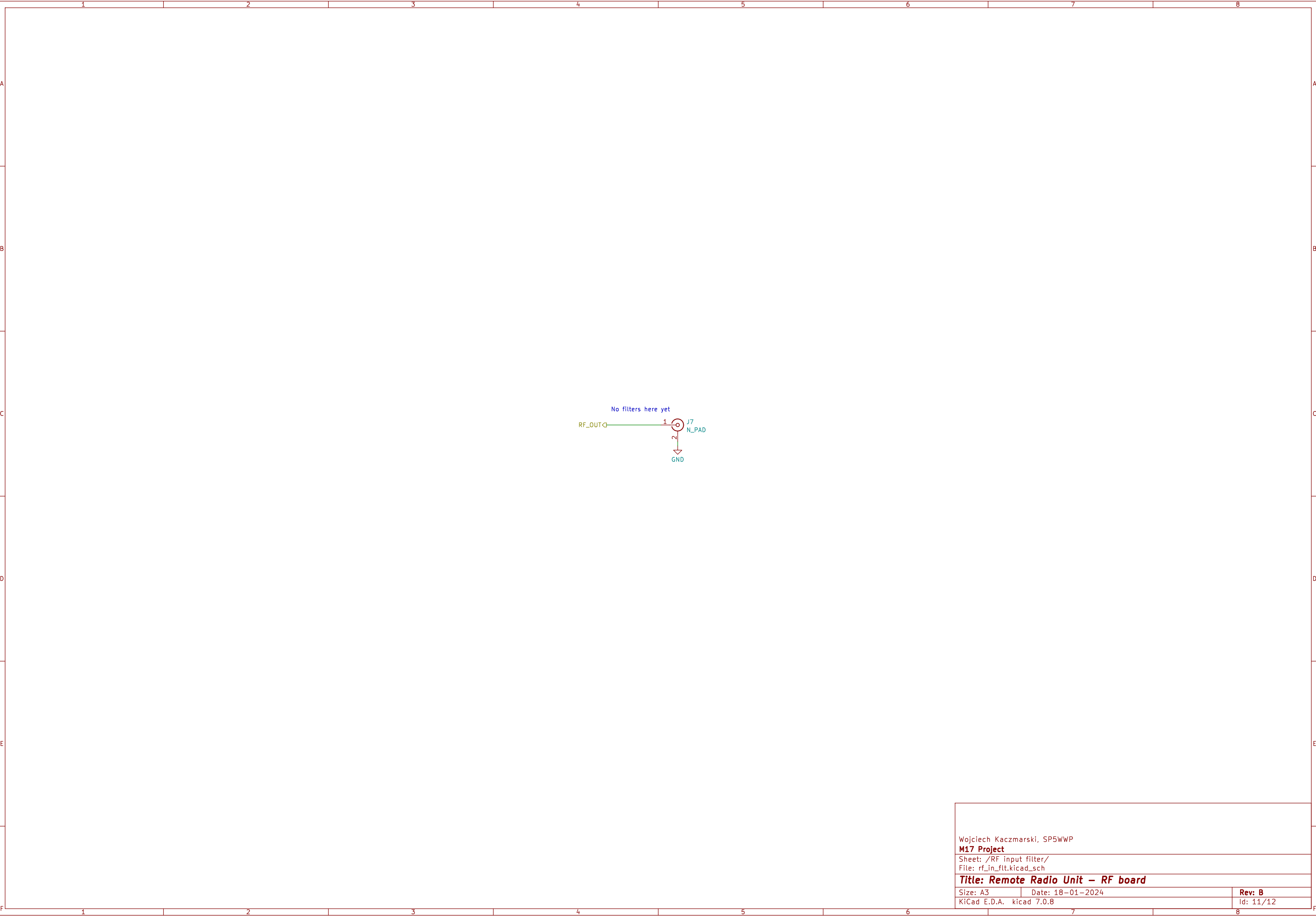


External connector



Decoupling





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M17 Project

Sheet: /RF input filter/
File: rf_inflt.kicad_sch

Title: Remote Radio Unit – RF board

Size: A3

Date: 18-01-2024

Rev: B

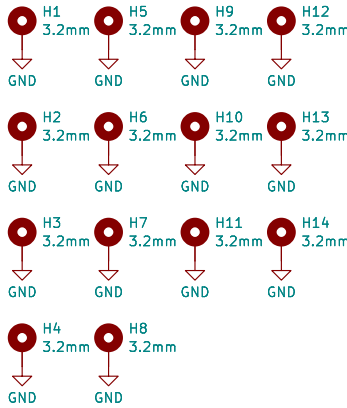
KiCad E.D.A. kicad 7.0.8

Id: 11/12

Fiducials



Mounting holes



Graphics



Wojciech Kaczmarek, SP5WWP
M17 Project
Sheet: /Mechanical/
File: mech.kicad_sch

Title: Remote Radio Unit – RF board

Size: A3	Date: 18-01-2024	Rev: B
KiCad E.D.A. kicad 7.0.8		Id: 12/12