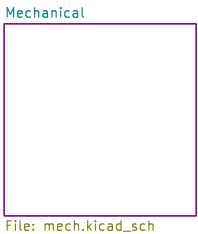
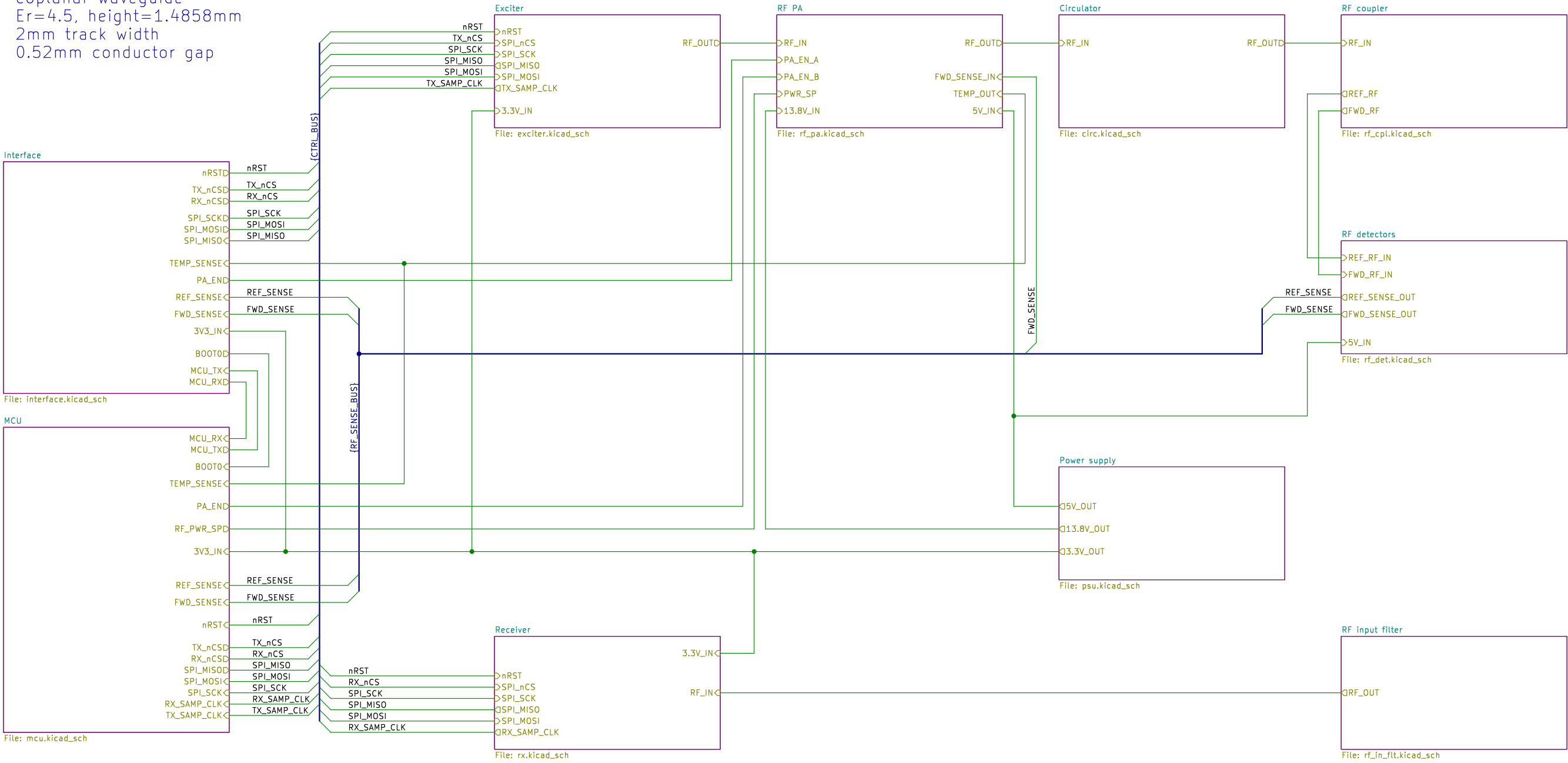


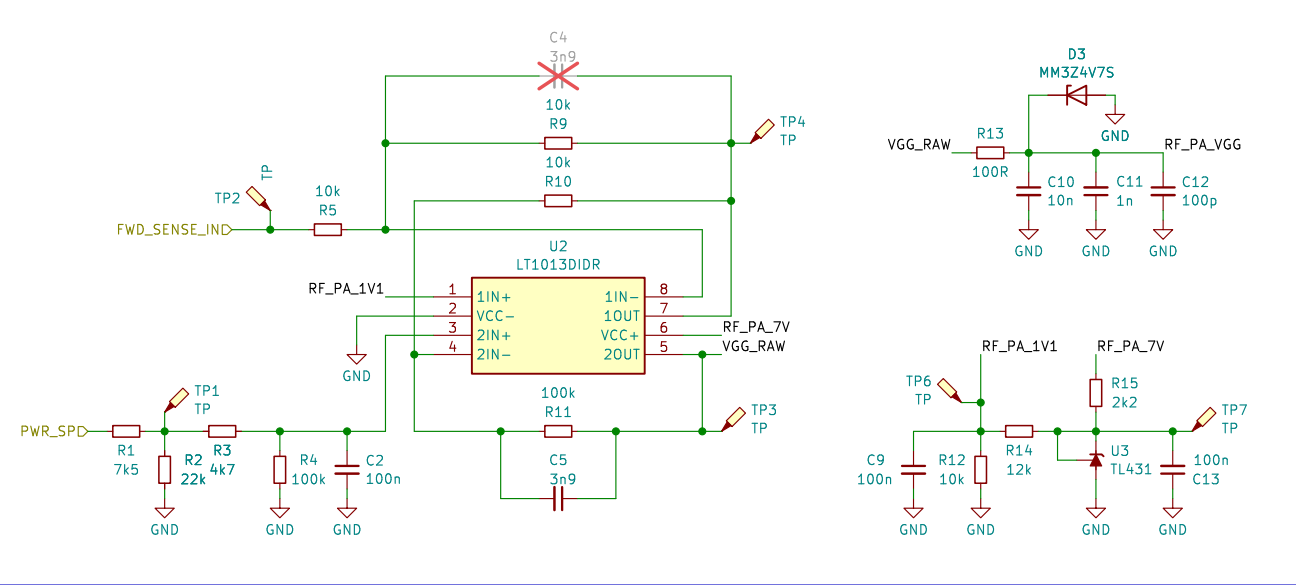
Low power RF tracks:
coplanar waveguide
Er=4.4, height=0.2104mm
0.25mm track width
0.052mm conductor gap

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

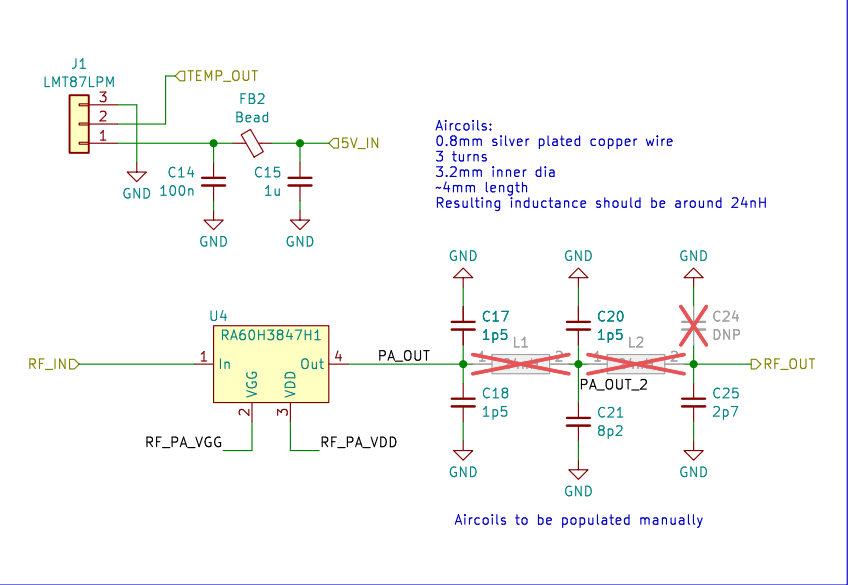


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M17 Project		
Sheet: /		
File: m17-rru-rf.kicad_sch		
Title: Remote Radio Unit – RF board		
Size: A3	Date: 05-04-2024	Rev: C
KiCad E.D.A. 8.0.4		Id: 1/12

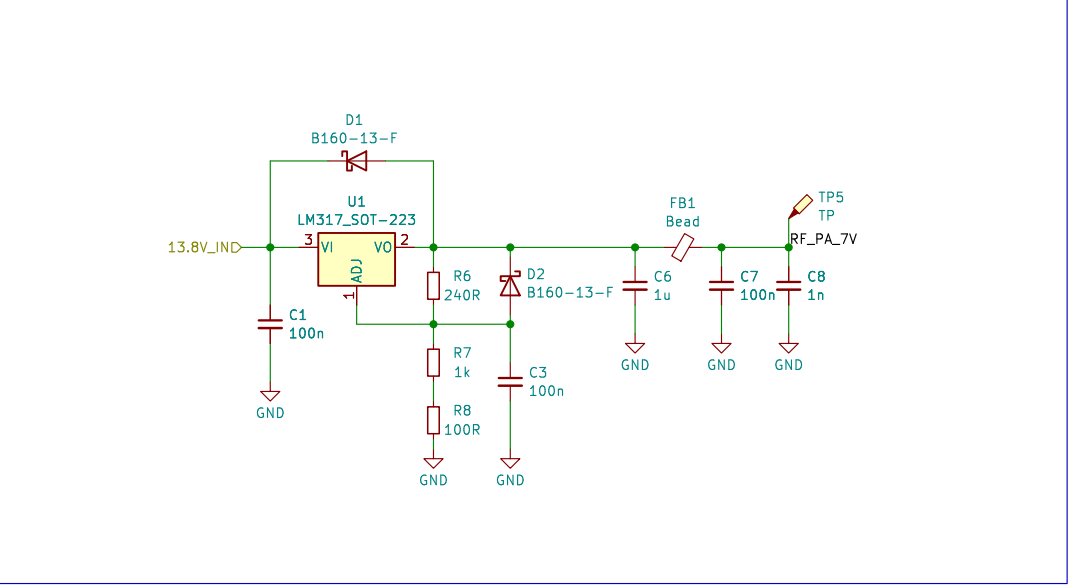
ALC



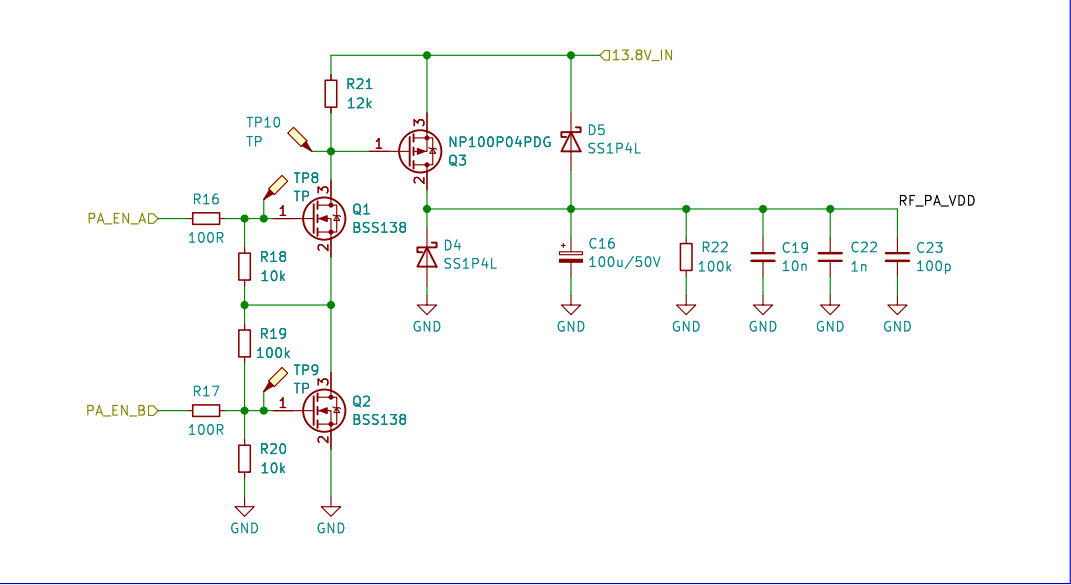
RF PA



Voltage reg.



Supply switching



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Sheet: /RF PA/

File: rf_pa.kicad_sch

Title: Remote Radio Unit – RF board

Size: A3

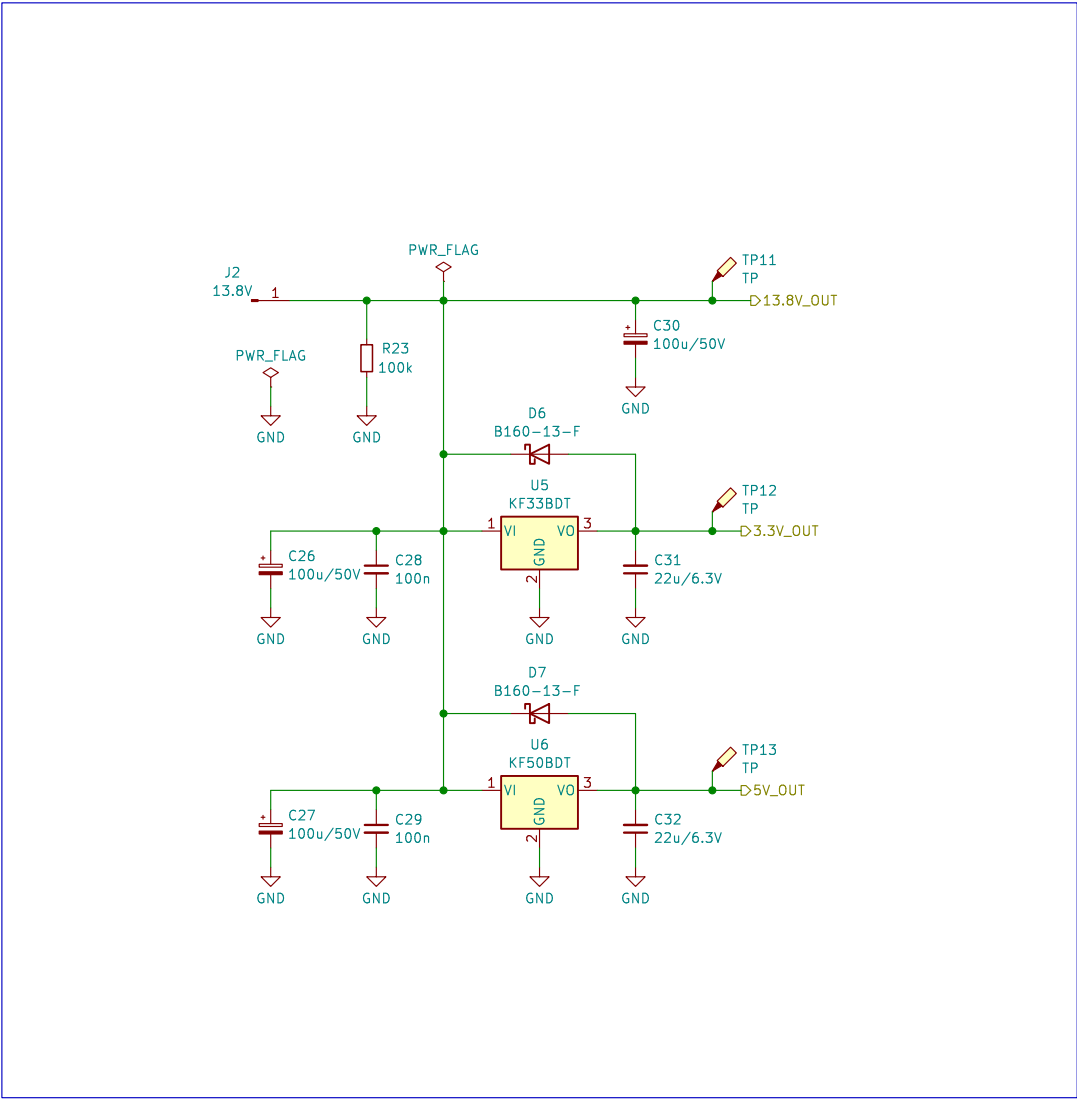
Date: 05-04-2024

Rev: C

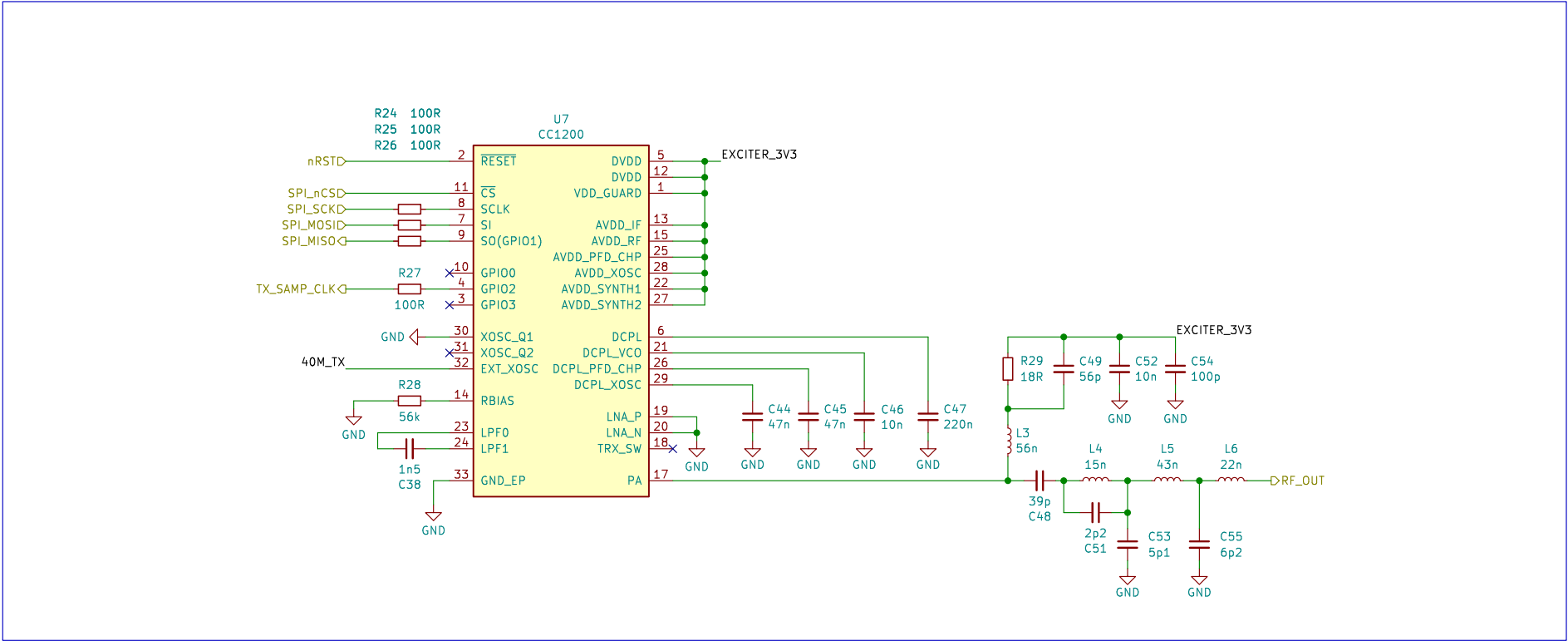
KiCad E.D.A. 8.0.4

Id: 2/12

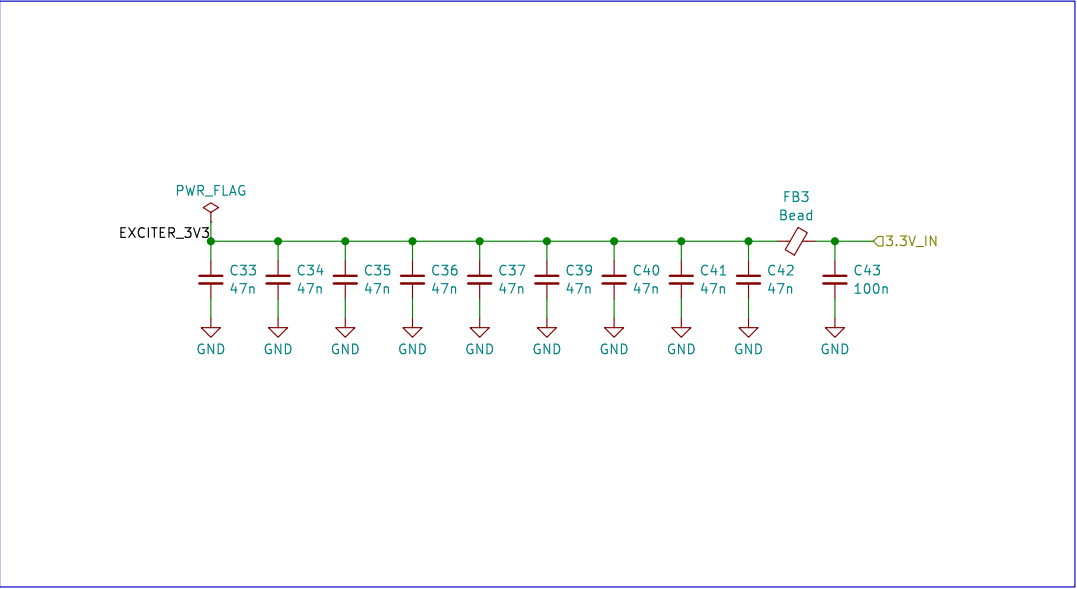
Voltage reg.



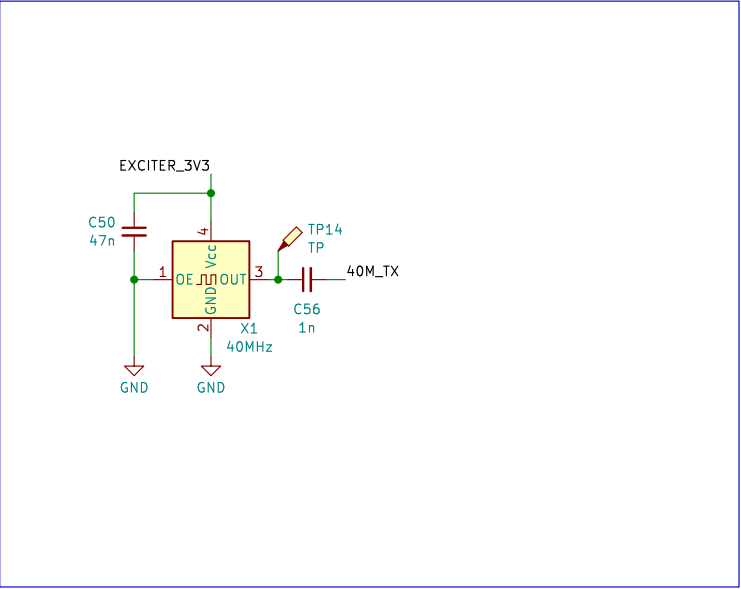
Exciter

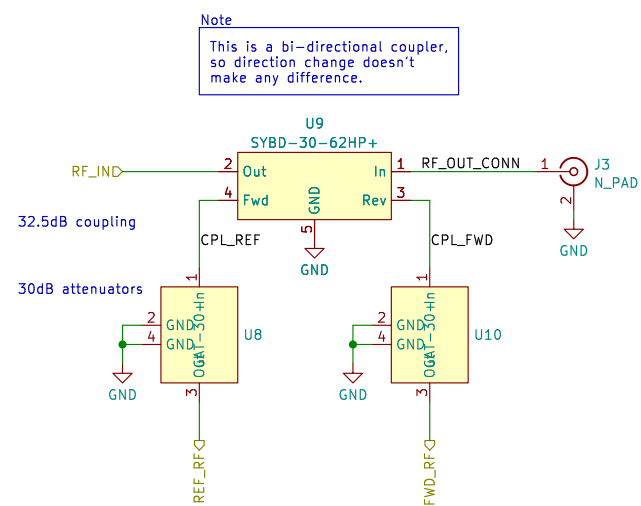


Decoupling



Local 40MHz reference





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Sheet: /RF coupler/

File: rf_cpl.kicad_sch

Title: Remote Radio Unit – RF board

Size: A3

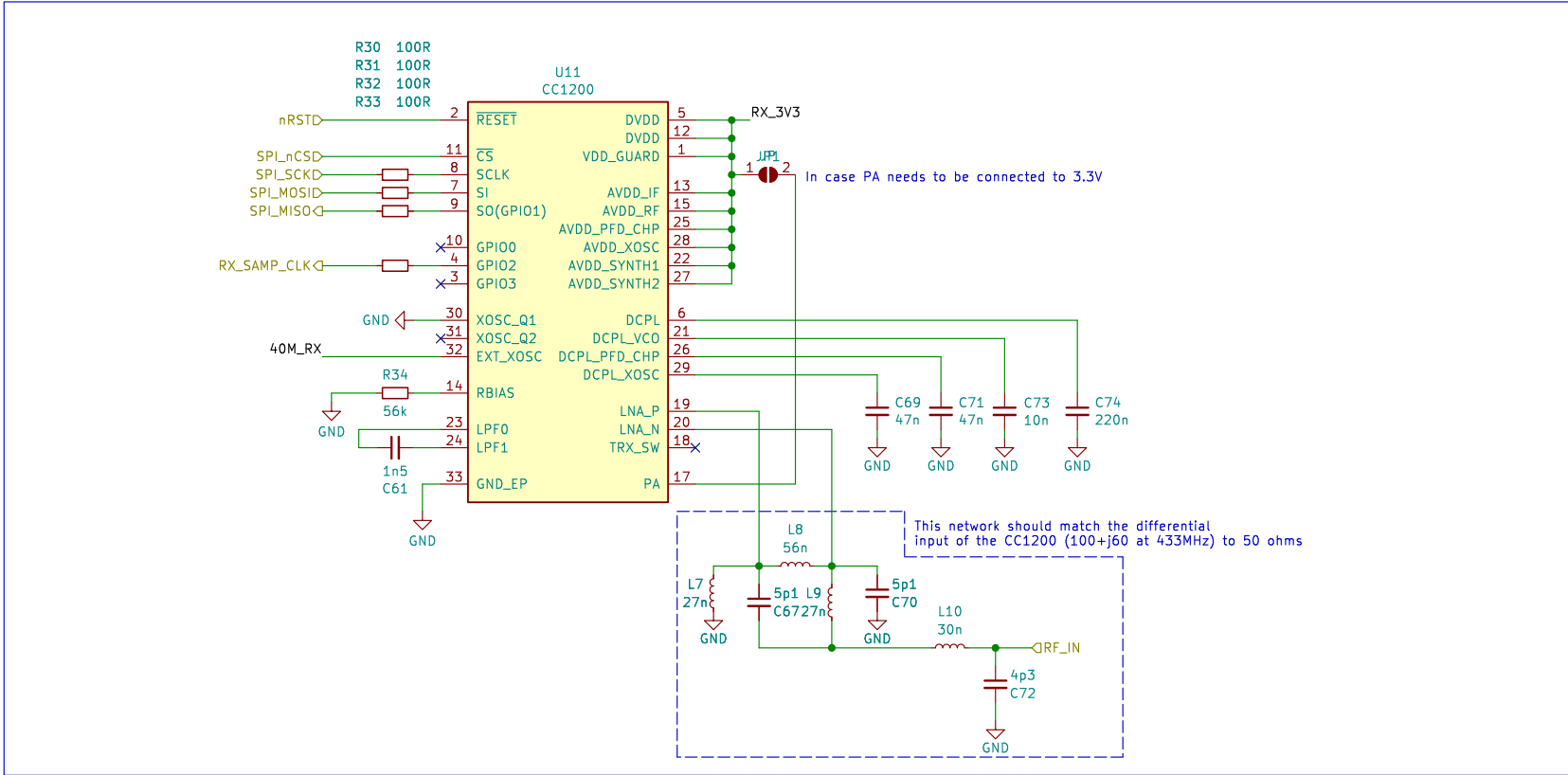
Date: 05-04-2024

Rev: C

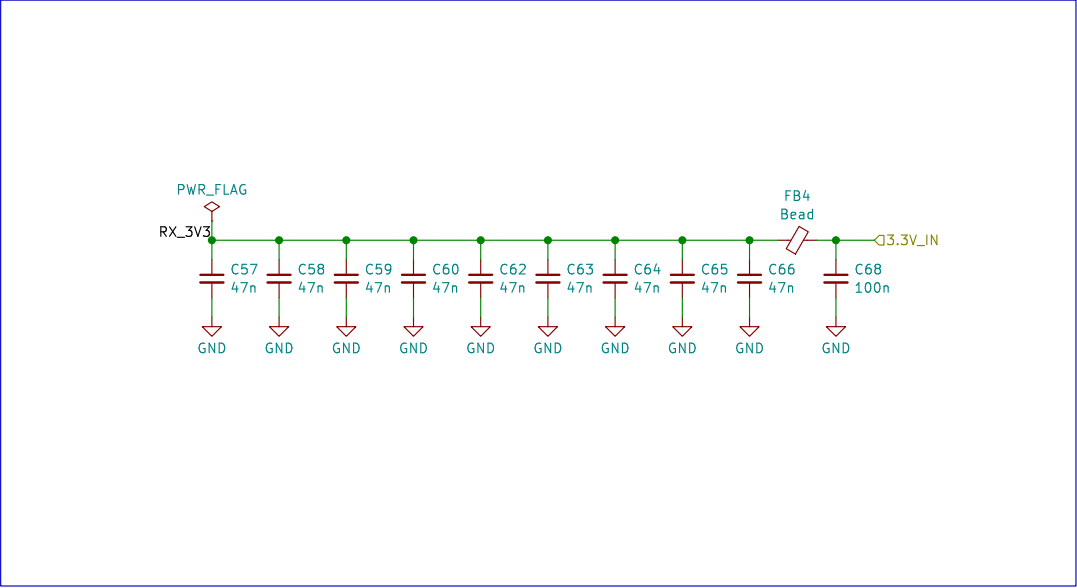
KiCad E.D.A. 8.0.4

Id: 5/12

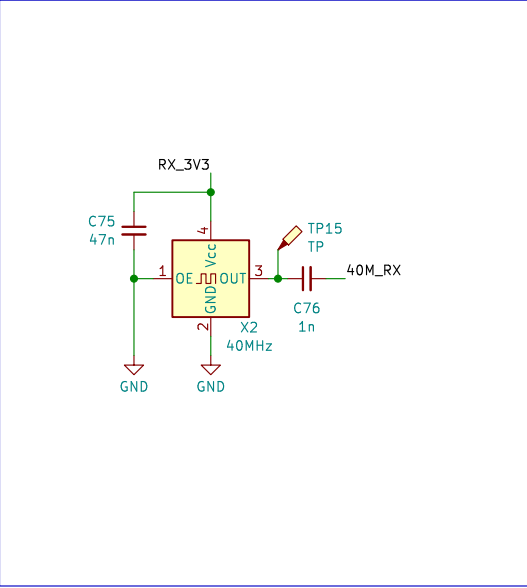
Receiver



Decoupling



Local 40MHz reference



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M17 Project

Sheet: /Receiver/

File: rx.kicad_sch

Title: Remote Radio Unit – RF board

Size: A3

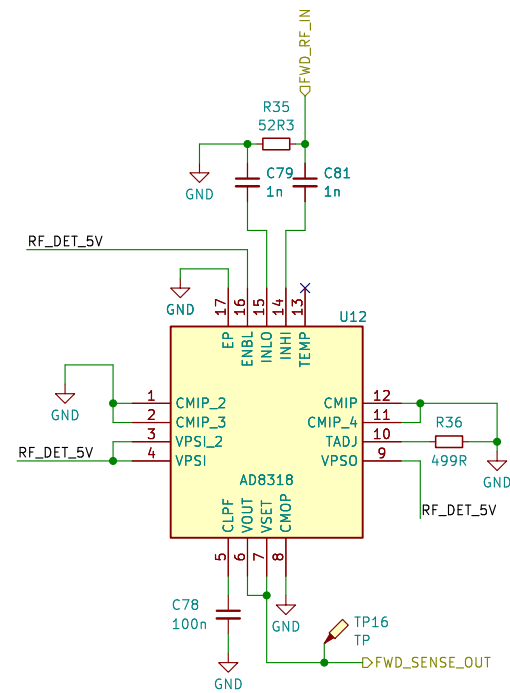
Date: 05-04-2024

Rev: C

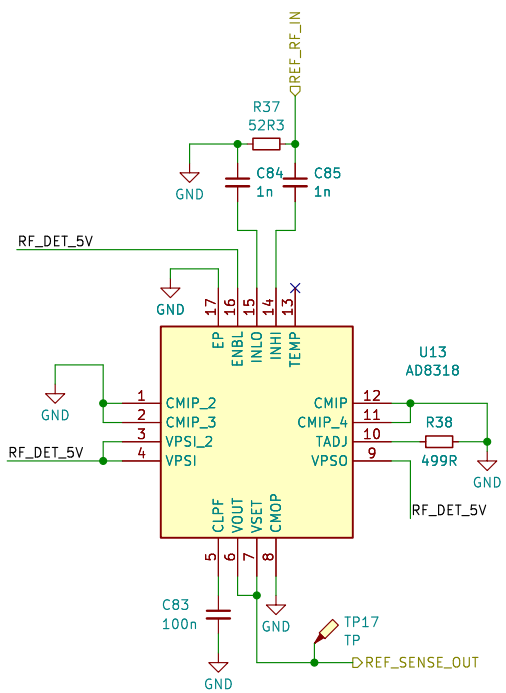
KiCad E.D.A. 8.0.4

Id: 6/12

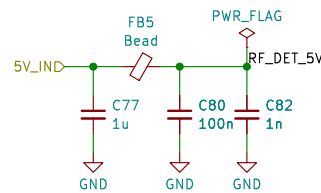
FWD power sense



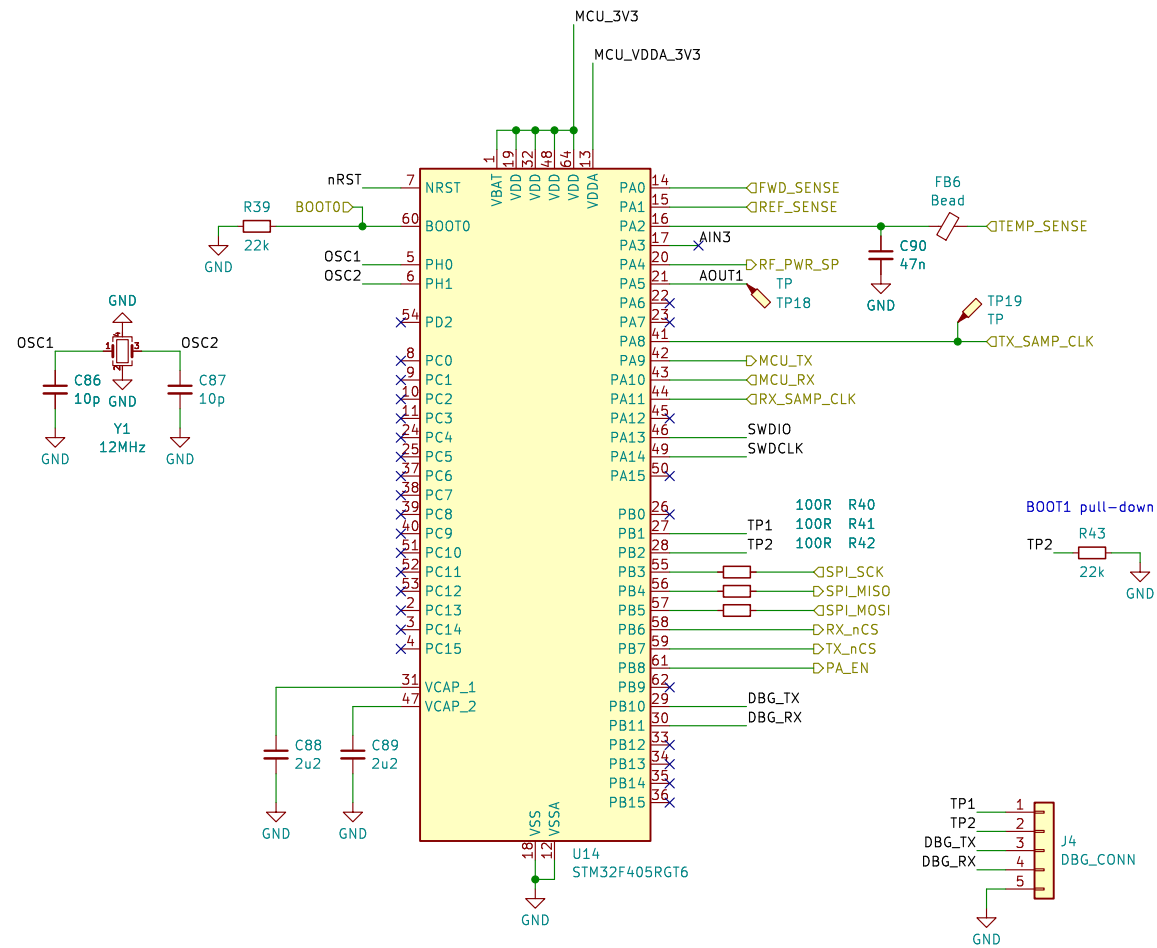
REF power sense



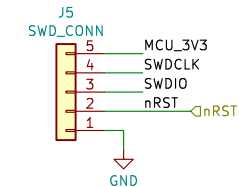
Decoupling



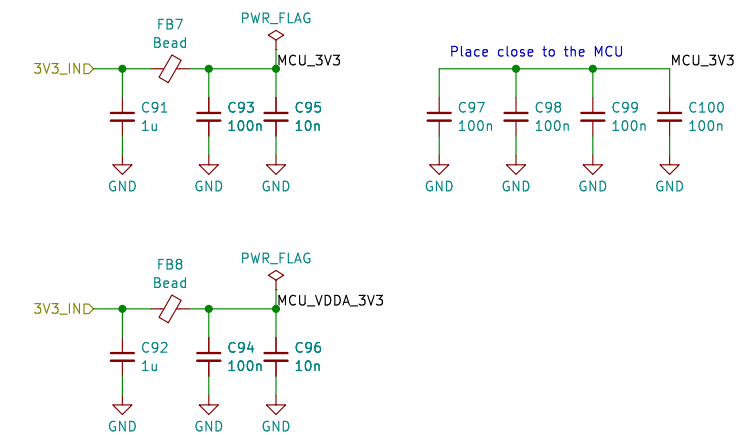
MCU



SWD



Decoupling

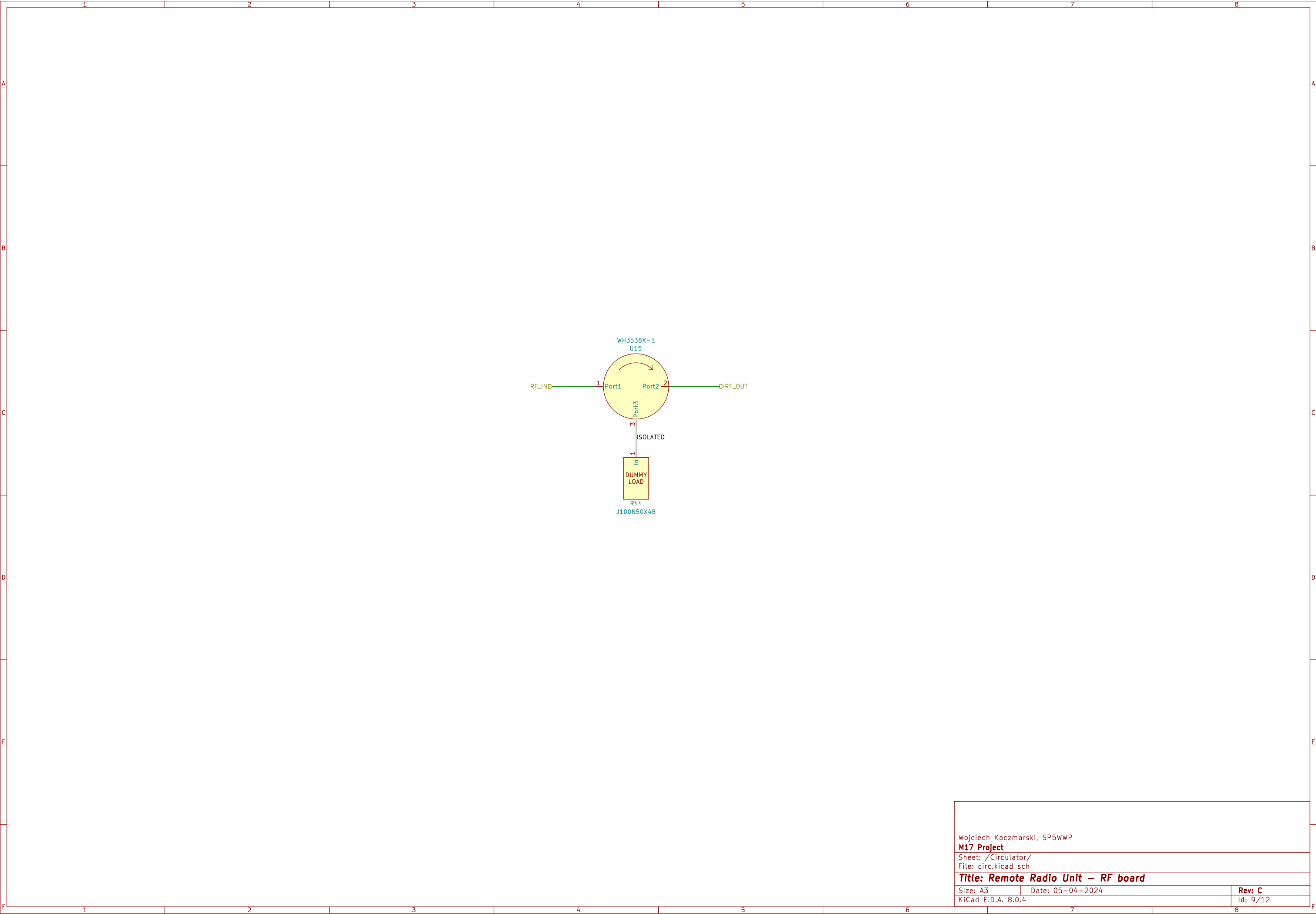


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Sheet: /MCU/
File: mcu.kicad_sch

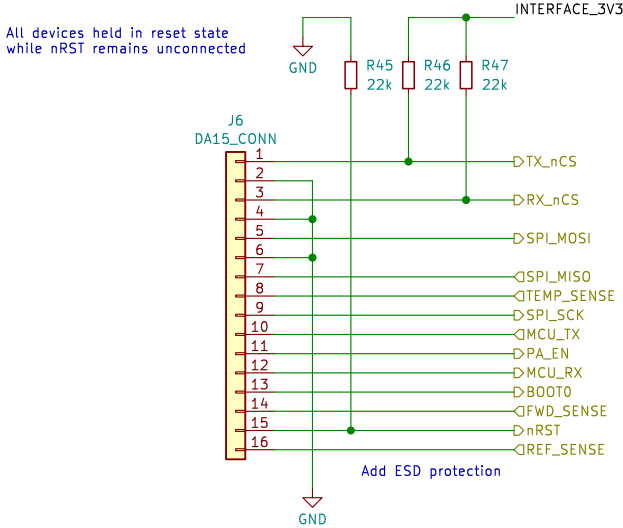
Title: Remote Radio Unit – RF board

Size: A3
Date: 05-04-2024
KiCad E.D.A. 8.0.4

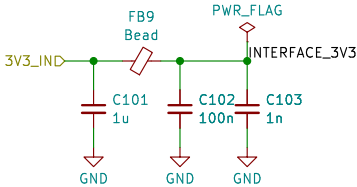
Rev: C
Id: 8/12



External connector



Decoupling



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Sheet: /Interface/
File: interface.kicad_sch

Title: Remote Radio Unit – RF board

Size: A3 Date: 05-04-2024

KiCad E.D.A. 8.0.4

Rev: C

Id: 10/12

M17 Project

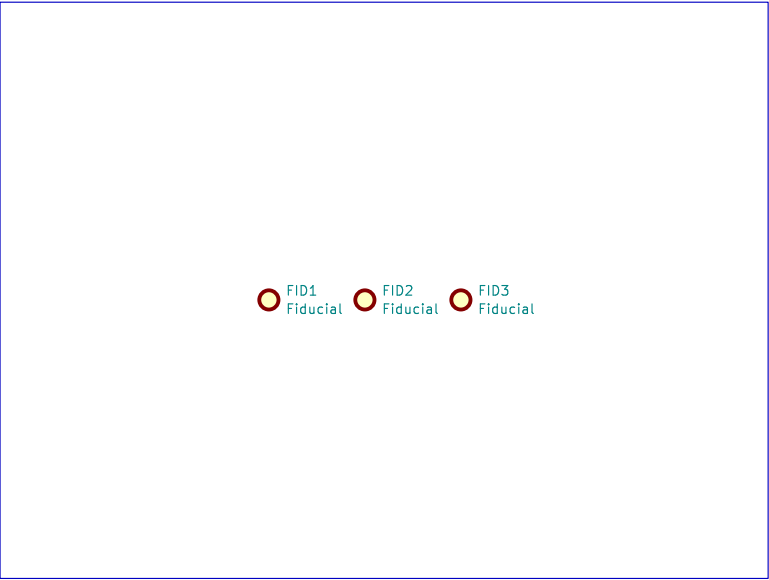
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Size: A3	Date: 05-04-2024
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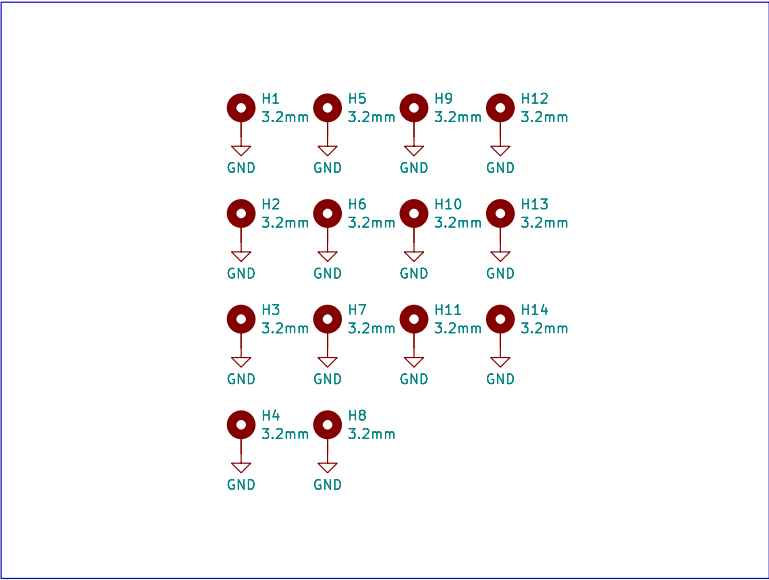
Rev: C

Id: 11/12

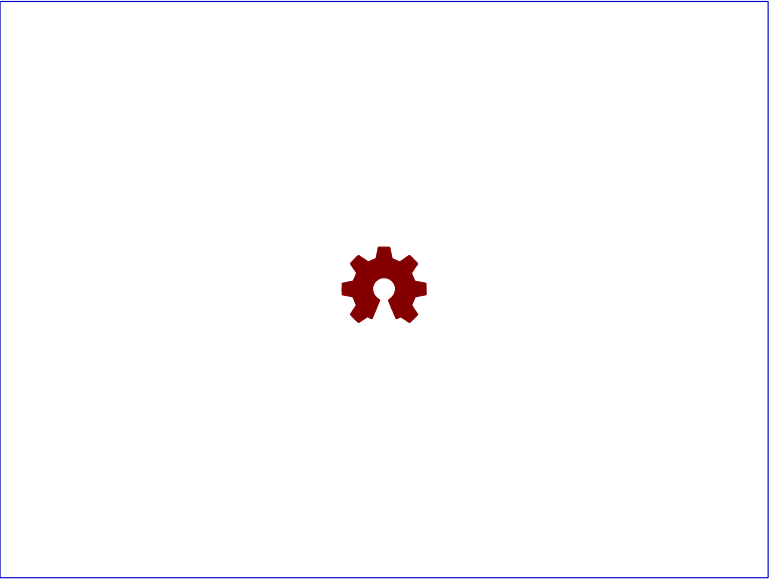
Fiducials



Mounting holes



Graphics



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M17 Project
Sheet: /Mechanical/
File: mech.kicad_sch

Title: Remote Radio Unit – RF board

Size: A3	Date: 05-04-2024	Rev: C
KiCad E.D.A. 8.0.4		Id: 12/12