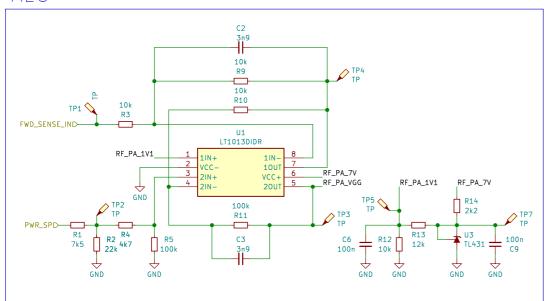
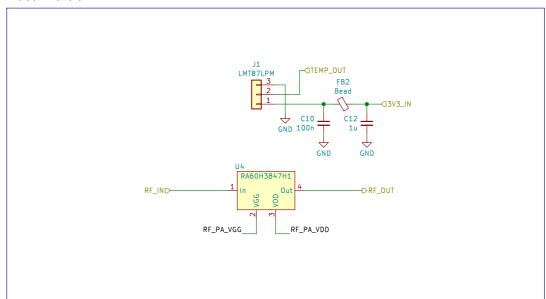
Low power RF tracks: coplanar waveguide Er=4.4, height=0.2104mm 0.25mm track width 0.052mm conductor gap High power RF tracks: coplanar waveguide RF PA RF coupler Exciter Circulator Er=4.5, height=1.4858mm 2mm track width RF_OUT >RF_IN RF_OUT[>RF_IN RF IN RF_OUTD 0.52mm conductor gap >PA_EN_A >PA_EN_B FWD_SENSE_IN< □40M_0UT >PWR_SP TEMP_OUT OREF_RF >13.8V_IN >3.3V_IN 3V3_IN< DFWD_RF File: rf_pa.kicad_sch File: rf_cpl.kicad_sch File: circ.kicad_sch TX_nCS RX_nCS TX_nCSD RX_nCSD SPI_SCK SPI_MOSI SPI_MISO SPI_SCKD SPI_MOSID RF detectors >REF_RF_IN TEMP_SENSE FWD_RF_IN PA_ENG REF_SENSE_OUT REF_SENSE REF_SENSE< FWD_SENSE OFWD_SENSE_OUT FWD_SENSE FWD_SENSE 3V3_IN< >5V_IN File: rf_det.kicad_sch MCU_TXC MCU_RXD File: interface.kicad_sch MCU_TXD-MCU_RX< Power supply TEMP_SENSE< PA_ENG 15V_0UT RF_PWR_SP[013.8V_0UT 3V3_IN 13.3V_0UT REF_SENSE REF_SENSE< File: psu.kicad_sch FWD_SENSE FWD_SENSE nRST nRST< RF input filter >40M_IN 3.3V_IN< -DRSI -DSPL_nCS -DSPL_SCK -QSPL_MISO -DSPI_MOSI File: mcu.kicad_sch File: rx.kicad_sch File: rf_in_flt.kicad_sch Mechanical Wojciech Kaczmarski, SP5WWP M17 Project Sheet: / File: m17-rru-rf.kicad_sch Title: Remote Radio Unit - RF board Size: A3 Date: 30-10-2023 KiCad E.D.A. kicad 7.0.8 File: mech.kicad_sch

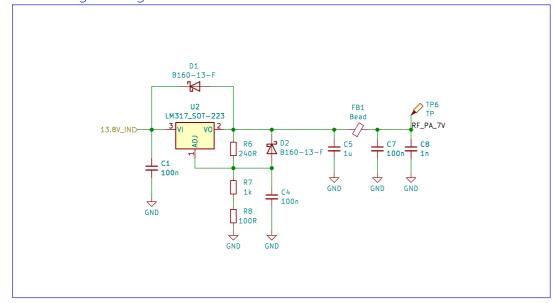
ALC



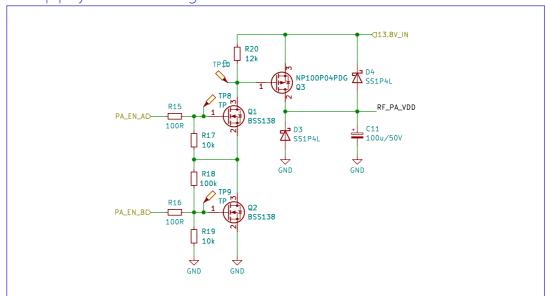
RF PA



Voltage reg.



Supply switching



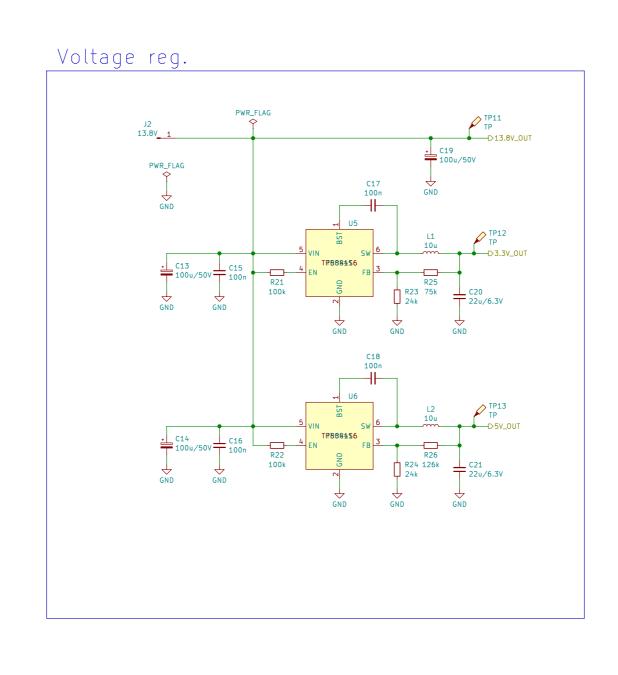
Wojciech Kaczmarski, SP5WWP

M17 Project
Sheet: /RF PA/
File: rf_pa.kicad_sch

Title: Remote Radio Unit — RF board

Size: A3 Date: 30-10-2023 Rev: A

KiCad E.D.A. kicad 7.0.8



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M17 Project

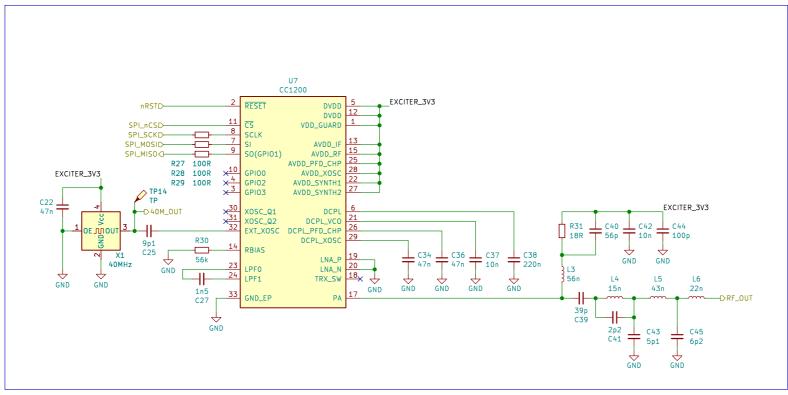
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Title: Remote Radio Unit — RF board

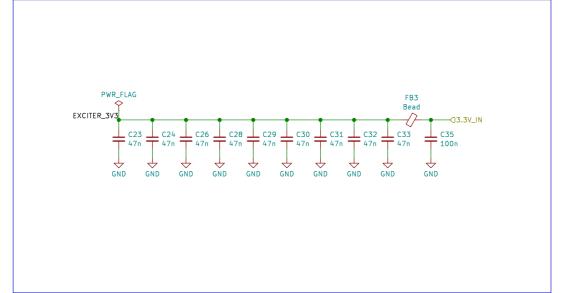
Size: A3 Date: 30-10-2023 Rev: A

KiCad E.D.A. kicad 7.0.8 Id: 3/12

Exciter



Decoupling



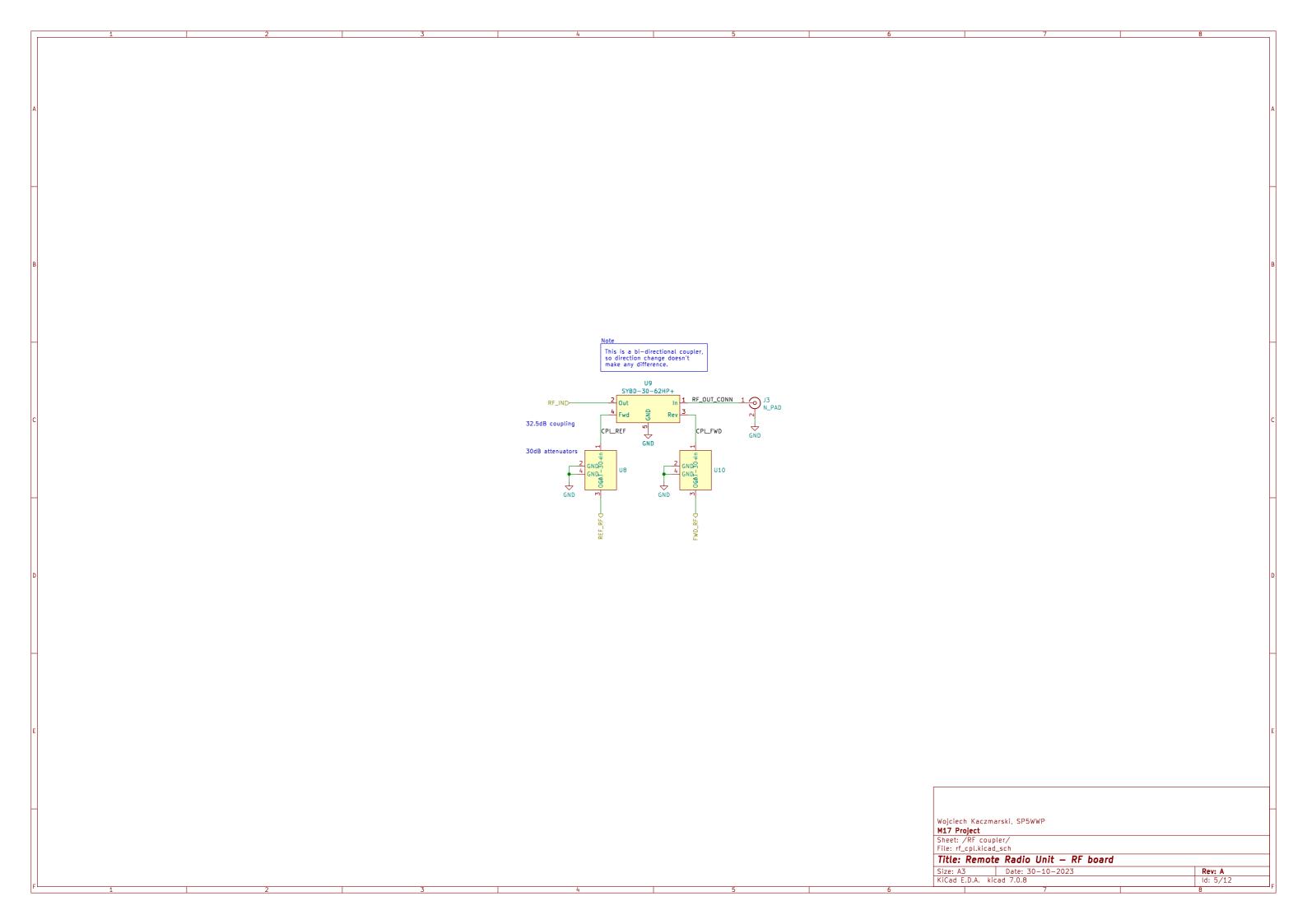
Wojciech Kaczmarski, SP5WWP

M17 Project
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File: exciter.kicad_sch

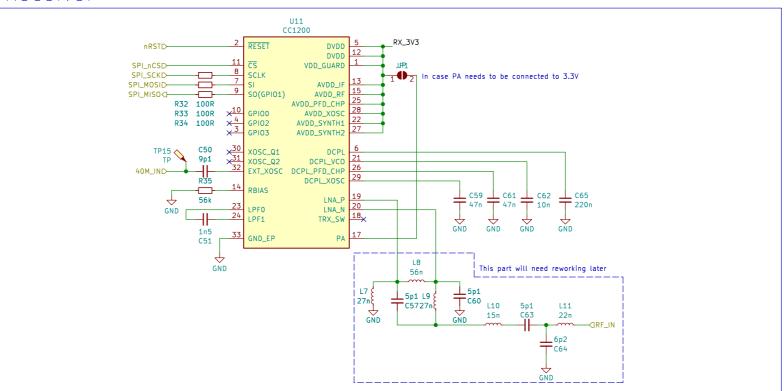
Title: Remote Radio Unit — RF board

Size: A3 Date: 30-10-2023

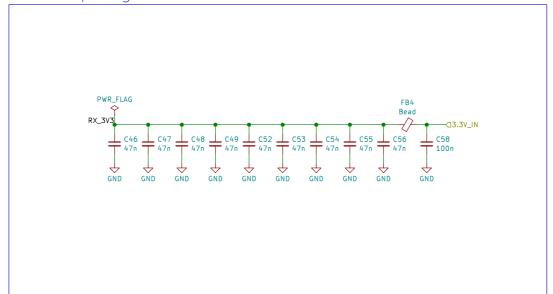
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Receiver



Decoupling



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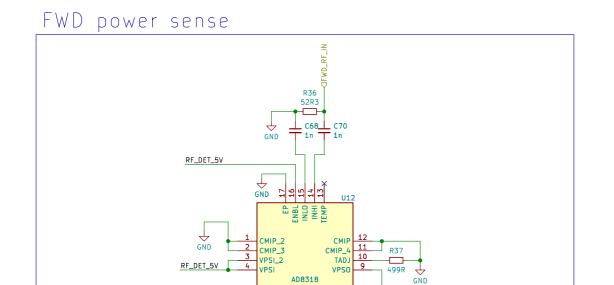
M17 Project

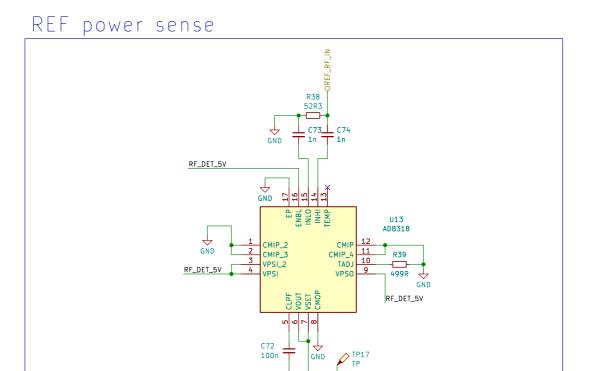
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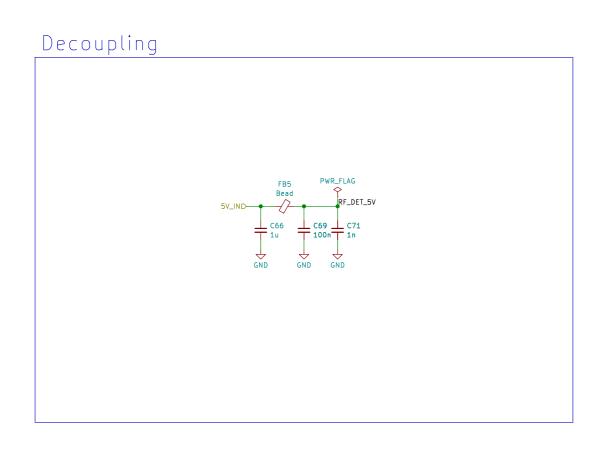
Title: Remote Radio Unit — RF board

Size: A3 Date: 30-10-2023 Rev: A

KiCad E.D.A. kicad 7.0.8







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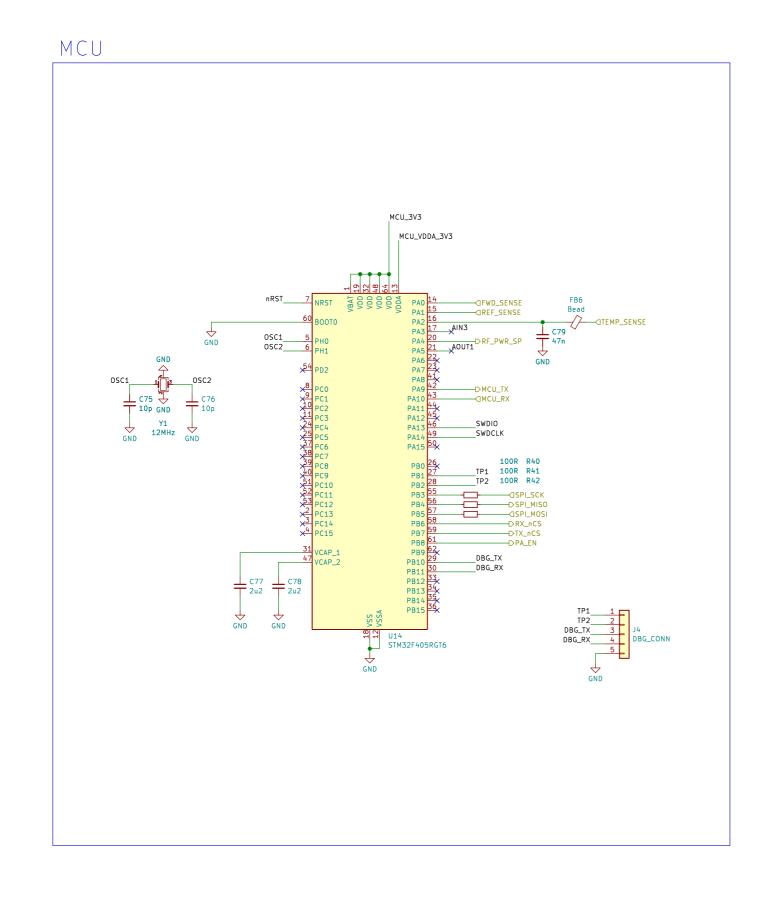
M17 Project

Sheet: /RF detectors/
File: rf_det.kicad_sch

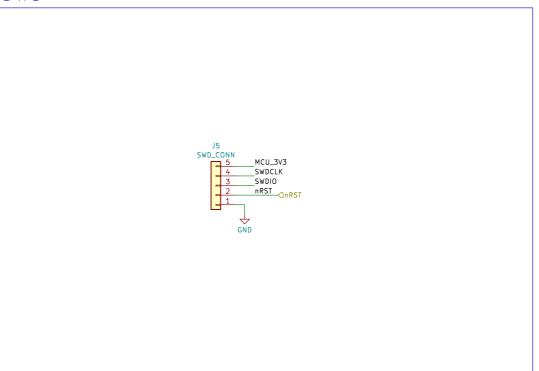
Title: Remote Radio Unit - RF board

Size: A3 Date: 30-10-2023 Rev: A

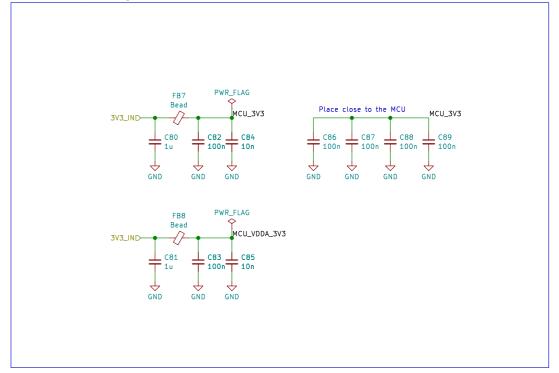
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Decoupling



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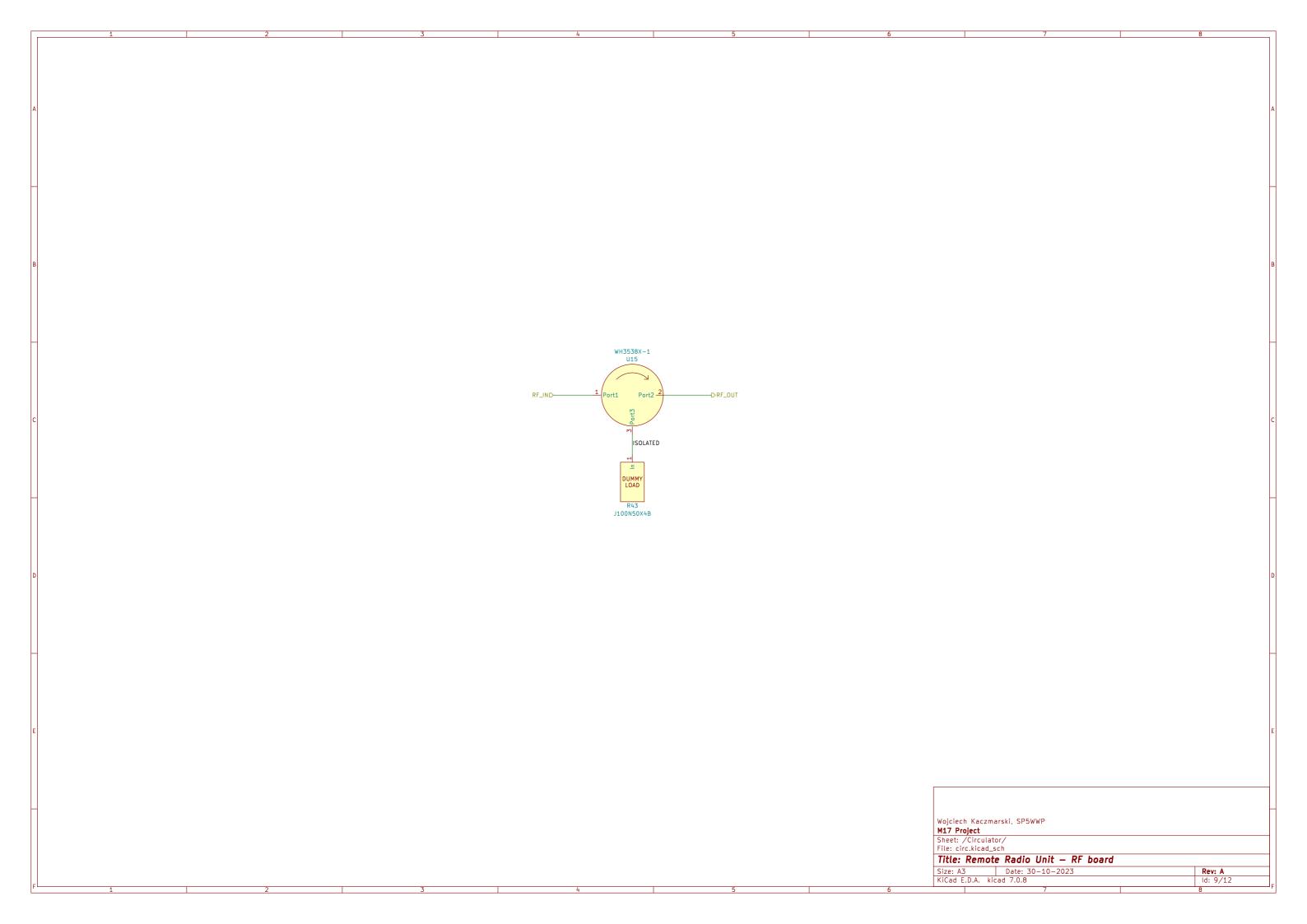
M17 Project

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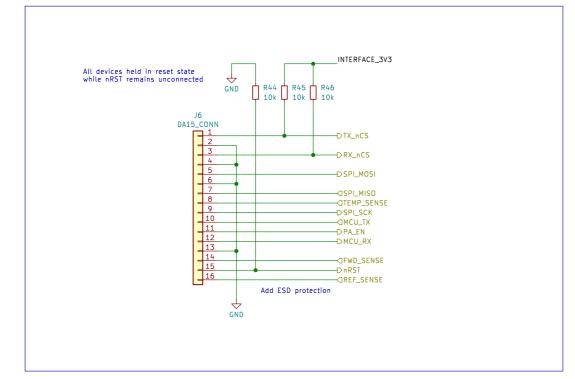
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Size: A3 Date: 30-10-2023 Rev: A

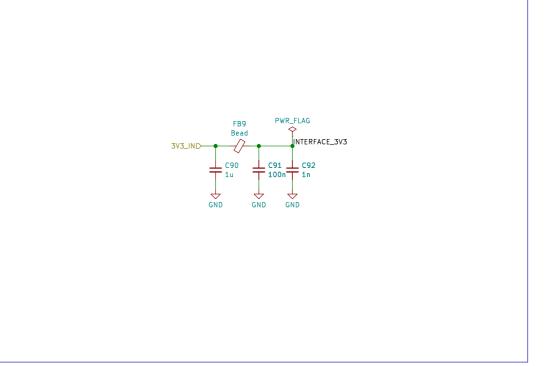
KiCad E.D.A. kicad 7.0.8 Id: 8/12



External connector



Decoupling



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M17 Project
Sheet: /Interface/
File: interface.kicad_sch

Title: Remote Radio Unit - RF board
Size: A3 Date: 30-10-2023
KiCad E.D.A. kicad 7.0.8

