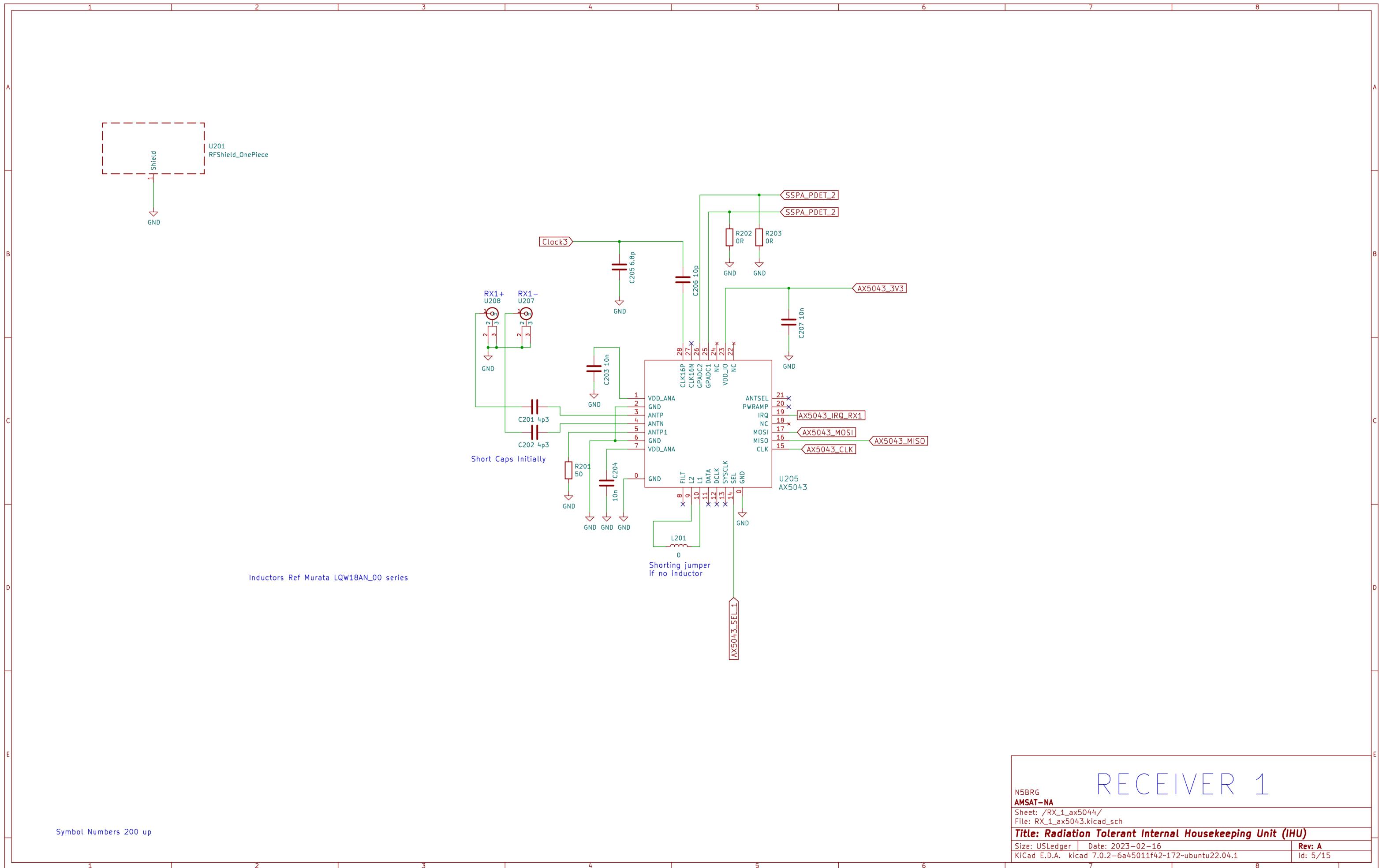
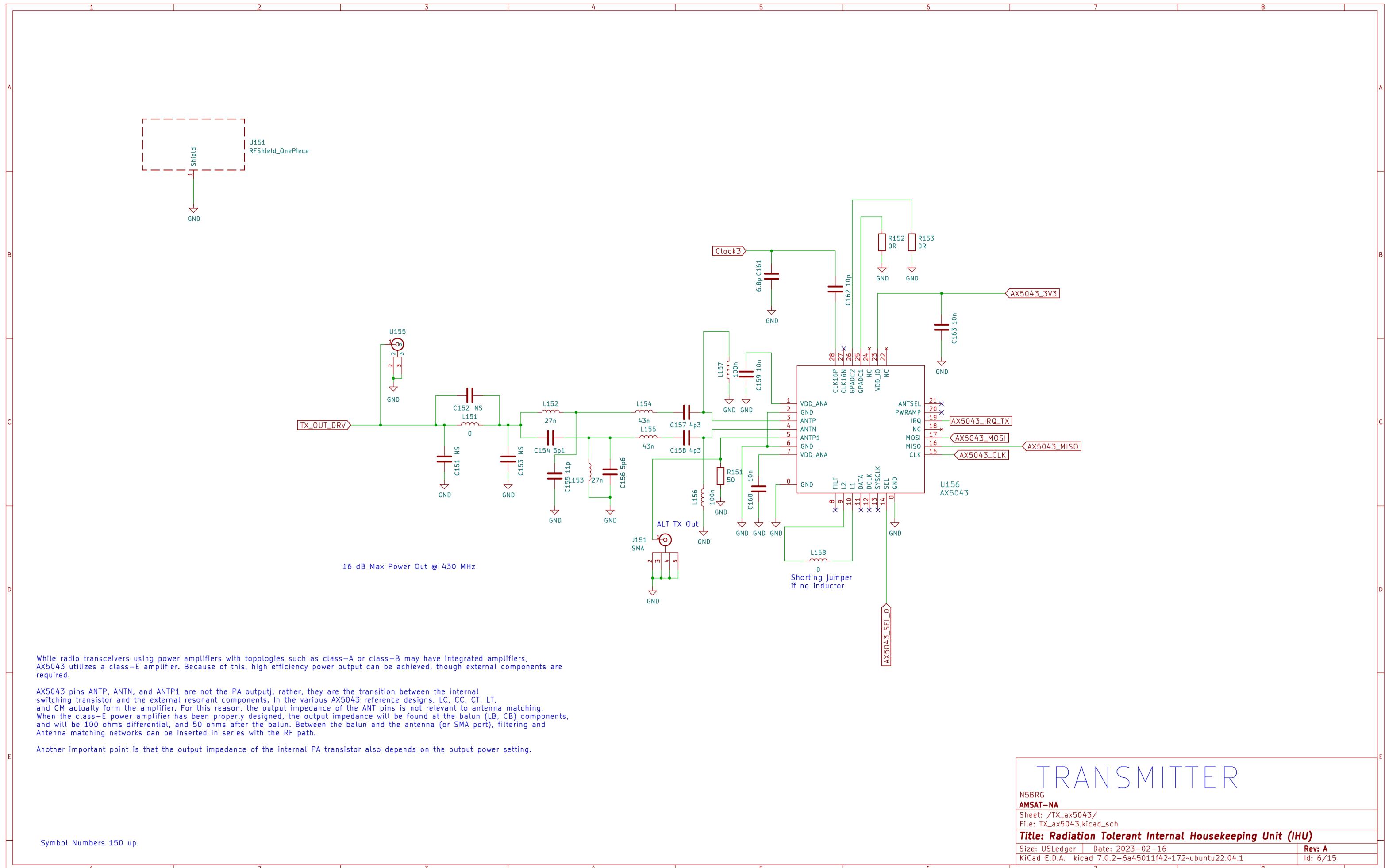
**Note:**

1. Review FILT voltage node and adjust current if needed per ap note AND9315-D.PDF
2. Select best resistor values after assembly and use one percent resistors to put frequency at 16 MHz.

Symbol Numbers 650 up

N5BRG	
AMSAT-NA	
Sheet: /Clocks/	
File: Clocks.kicad_sch	
Title: Radiation Tolerant Internal Housekeeping Unit (IHU)	
Size: USLedger	Date: 2023-02-16
KiCad E.D.A. kicad 7.0.2-6a45011f42-172-ubuntu22.04.1	Rev: A
	Id: 4/15





TRANSMITTER

N5BRG

AMSAT-NA

Sheet: /TX_ax5043/
File: TX_ax5043.kicad_sch

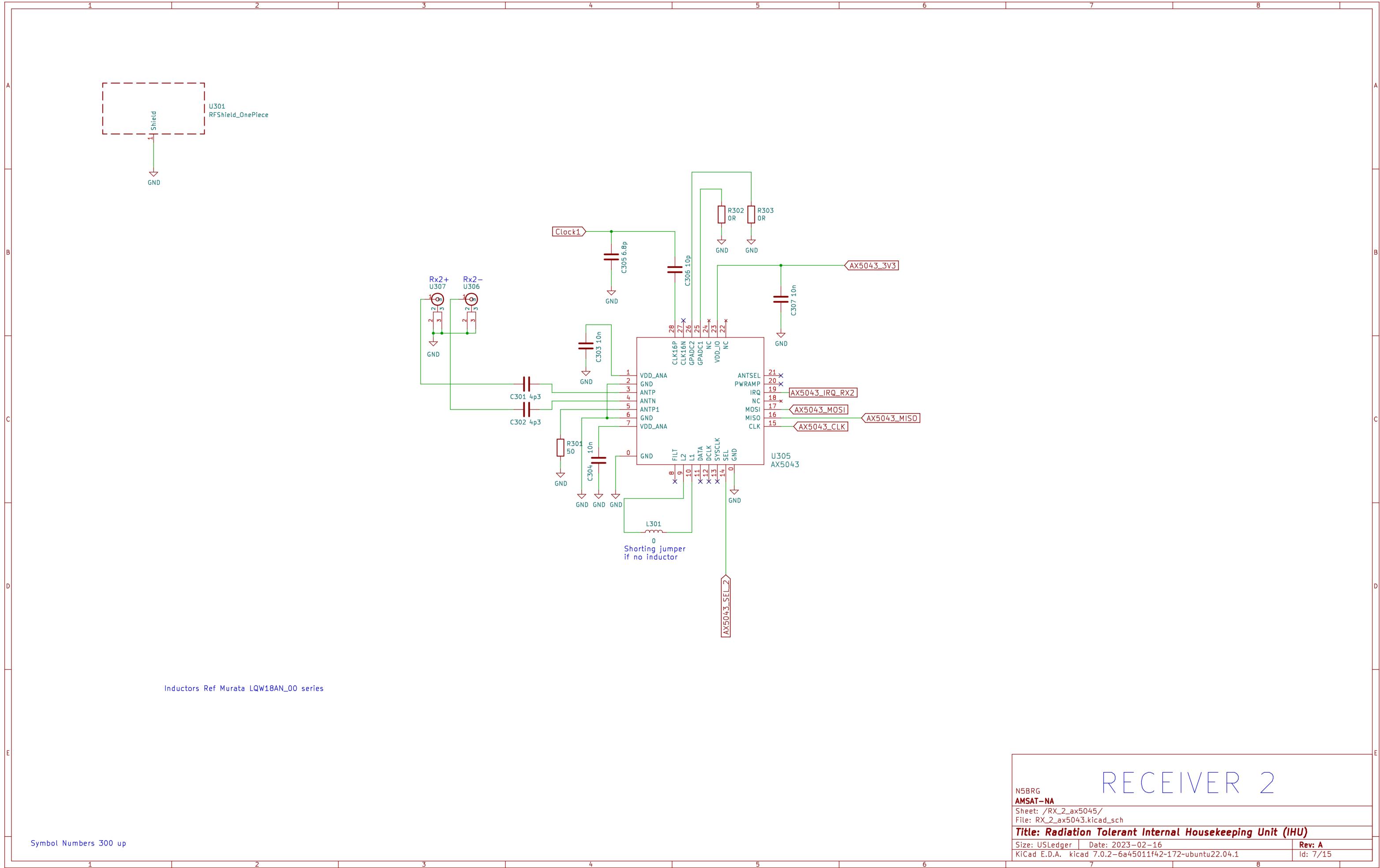
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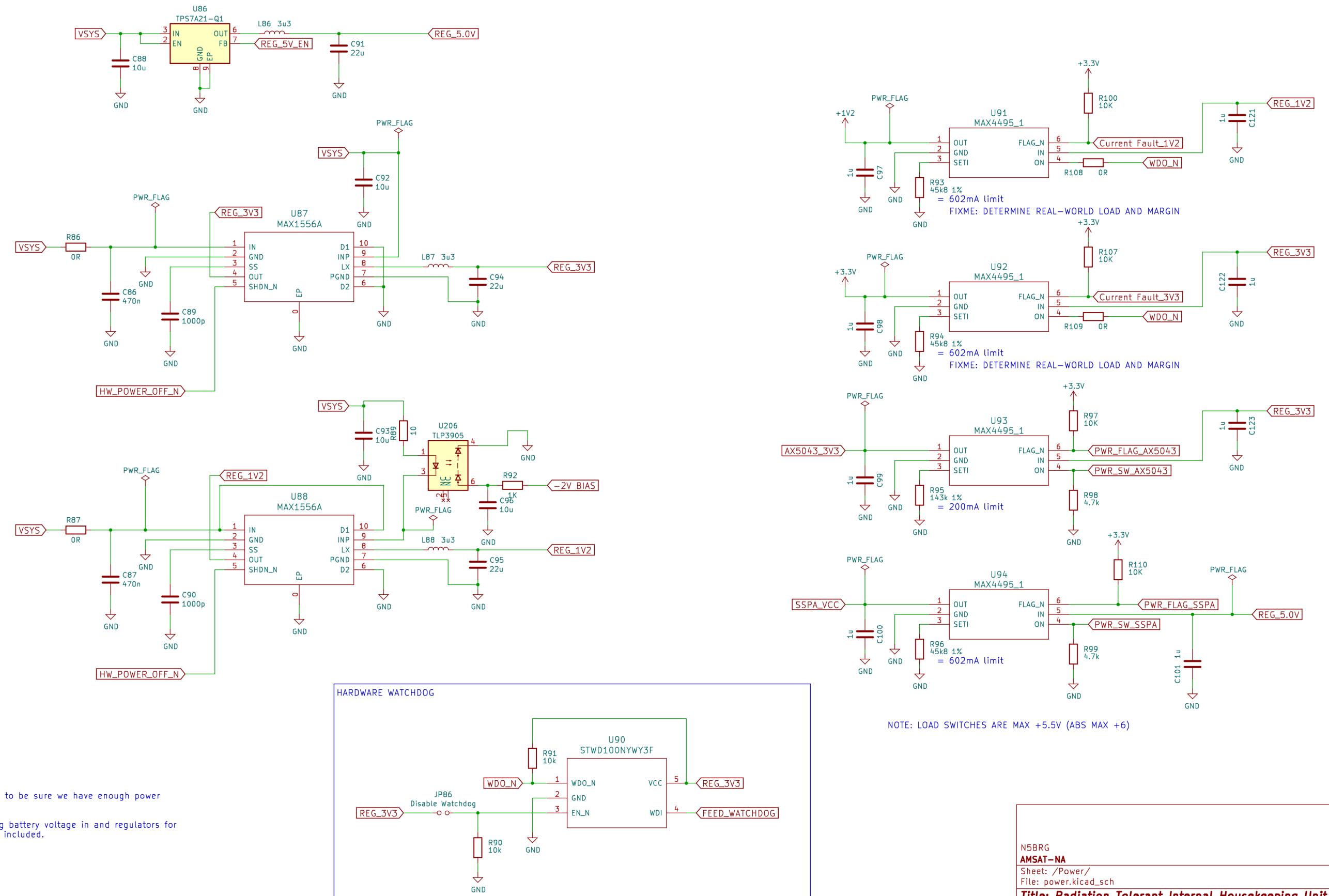
Size: USLedger Date: 2023-02-16

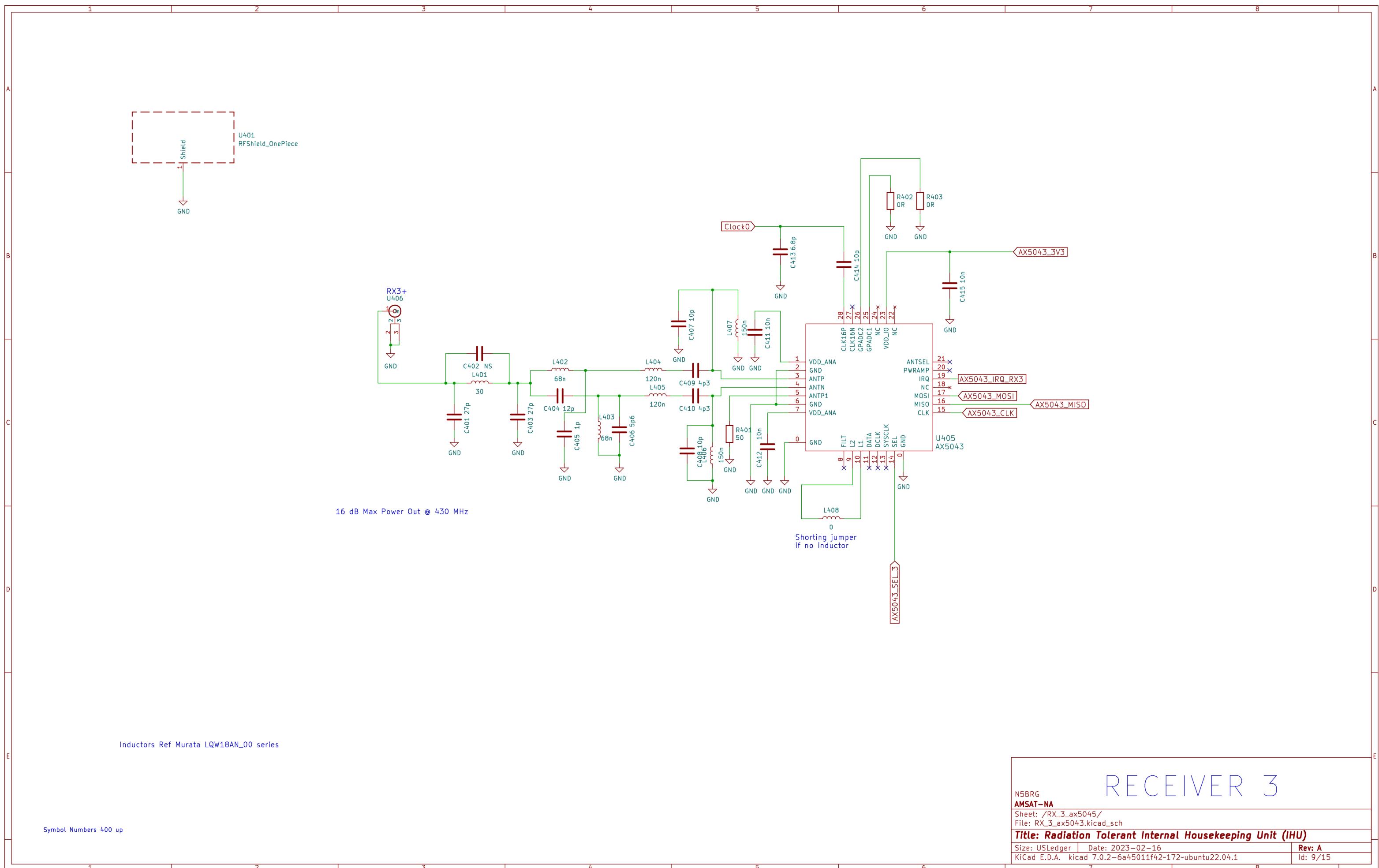
KiCad E.D.A. kicad 7.0.2-6a45011f42-172-ubuntu22.04.1

Rev: A

Id: 6/15







RECEIVER 3

N5BRG

AMSAT-NA

Sheet: /RX_3_ax5045/

File: RX_3_ax5043.kicad_sch

Title: Radiation Tolerant Internal Housekeeping Unit (IHU)

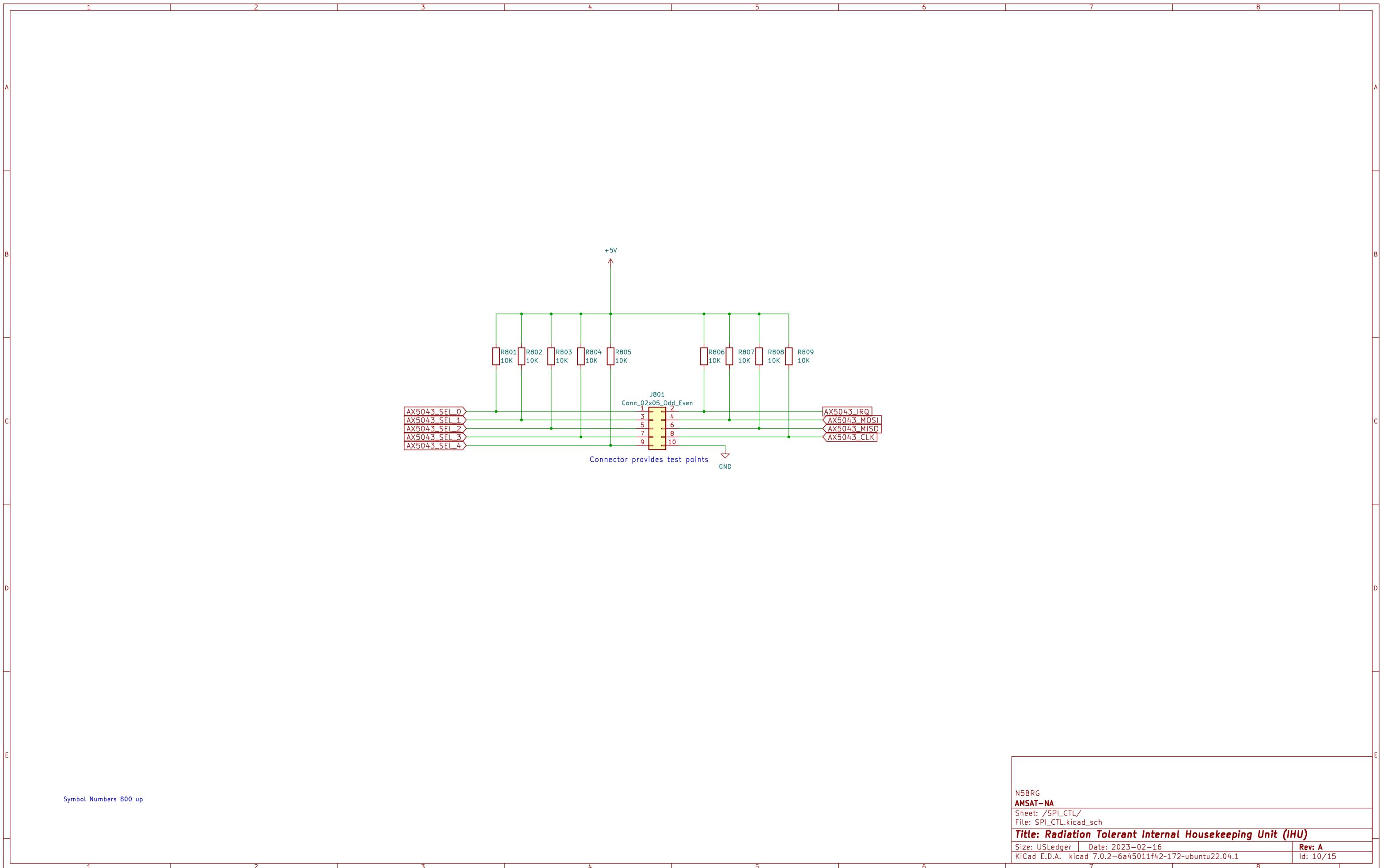
Size: USLedger Date: 2023-02-16

KiCad E.D.A. kicad 7.0.2-6a45011f42-172-ubuntu22.04.1

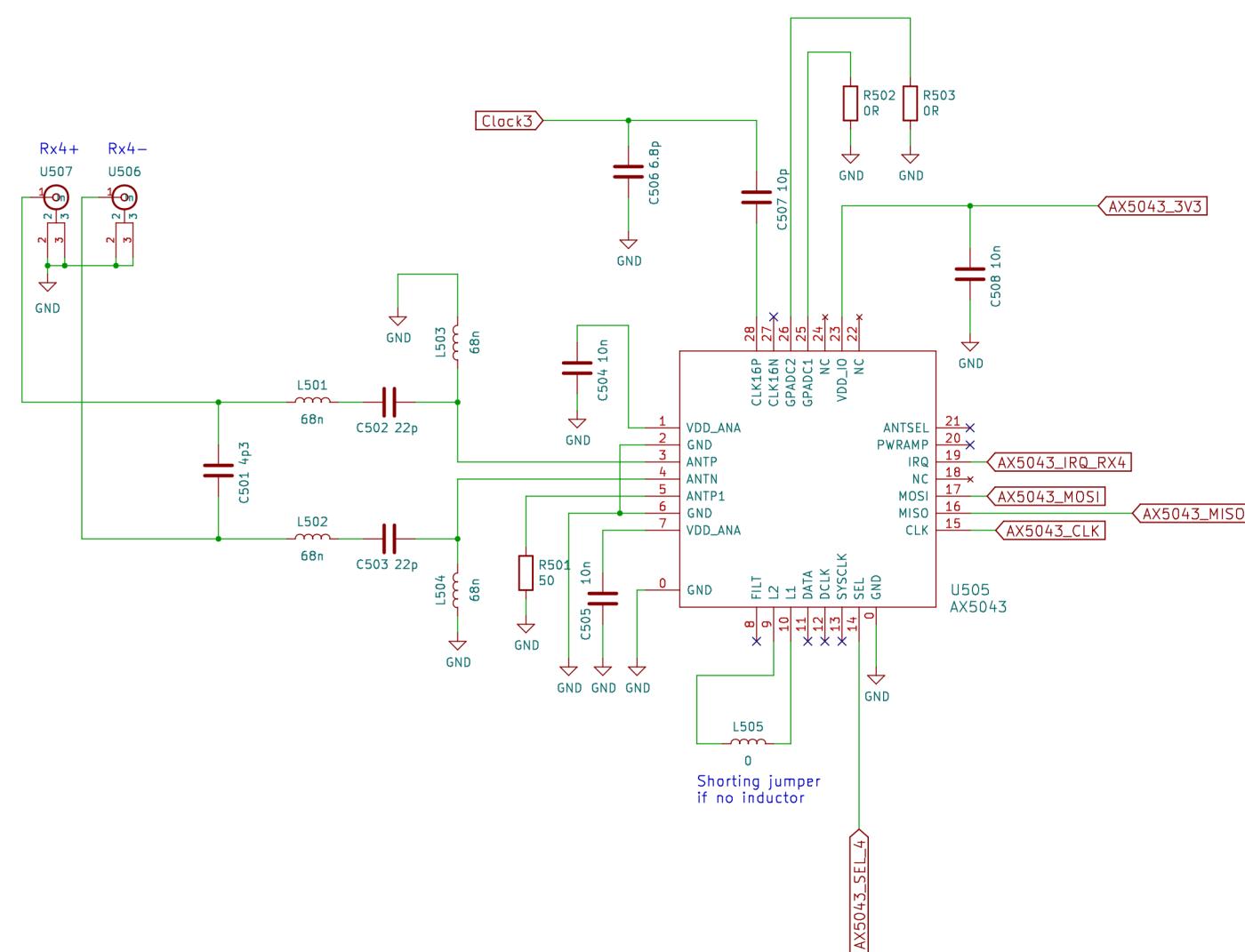
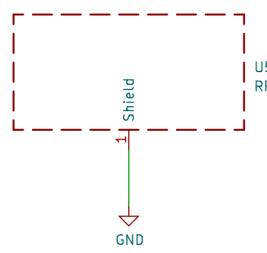
Rev: A

Id: 9/15

1 2 3 4 5 6 7 8



1 2 3 4 5 6 7 8



Inductors Ref Murata LQW18AN_00 series

Symbol Numbers 500 up

N5BRG
AMSAT-NA

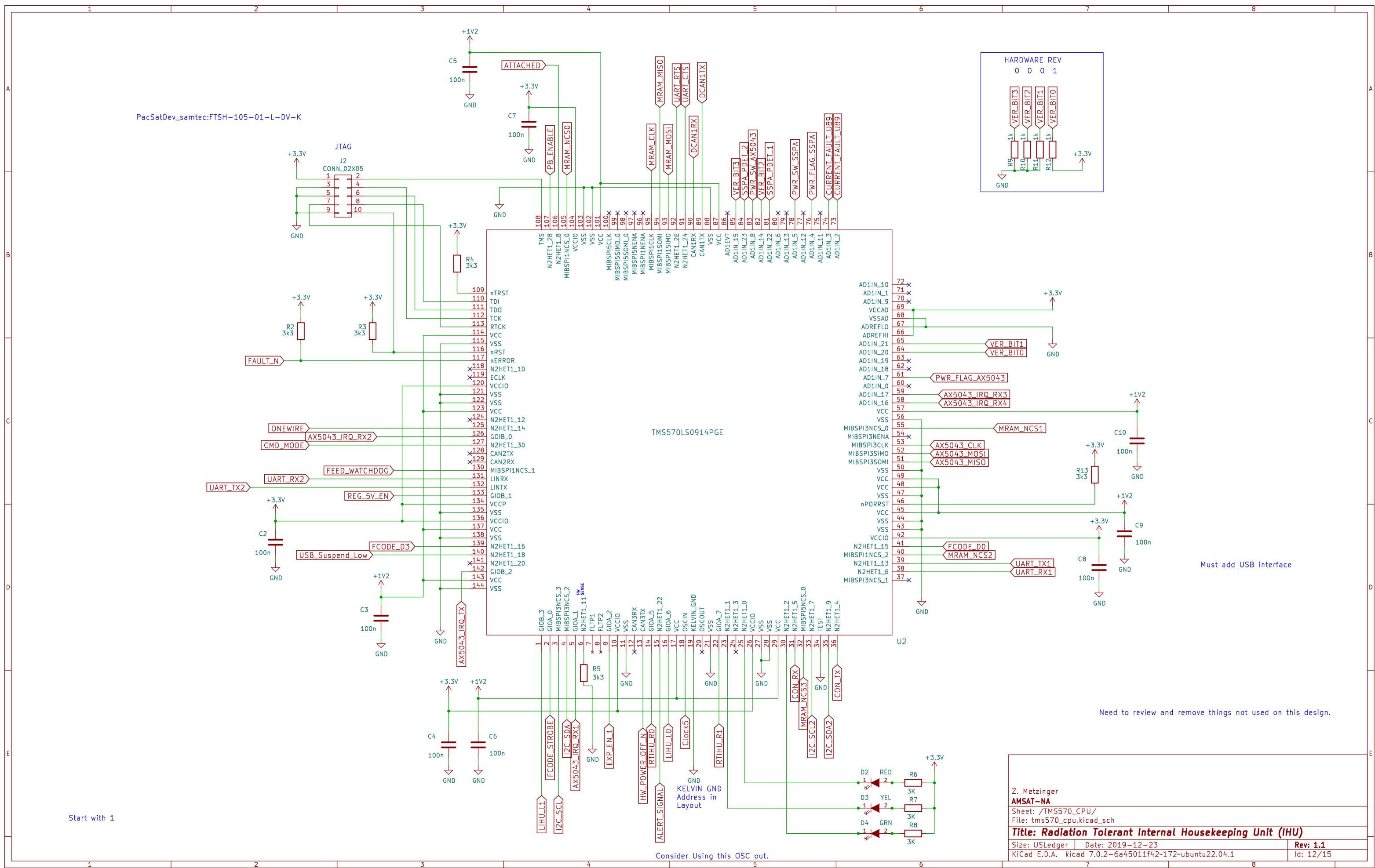
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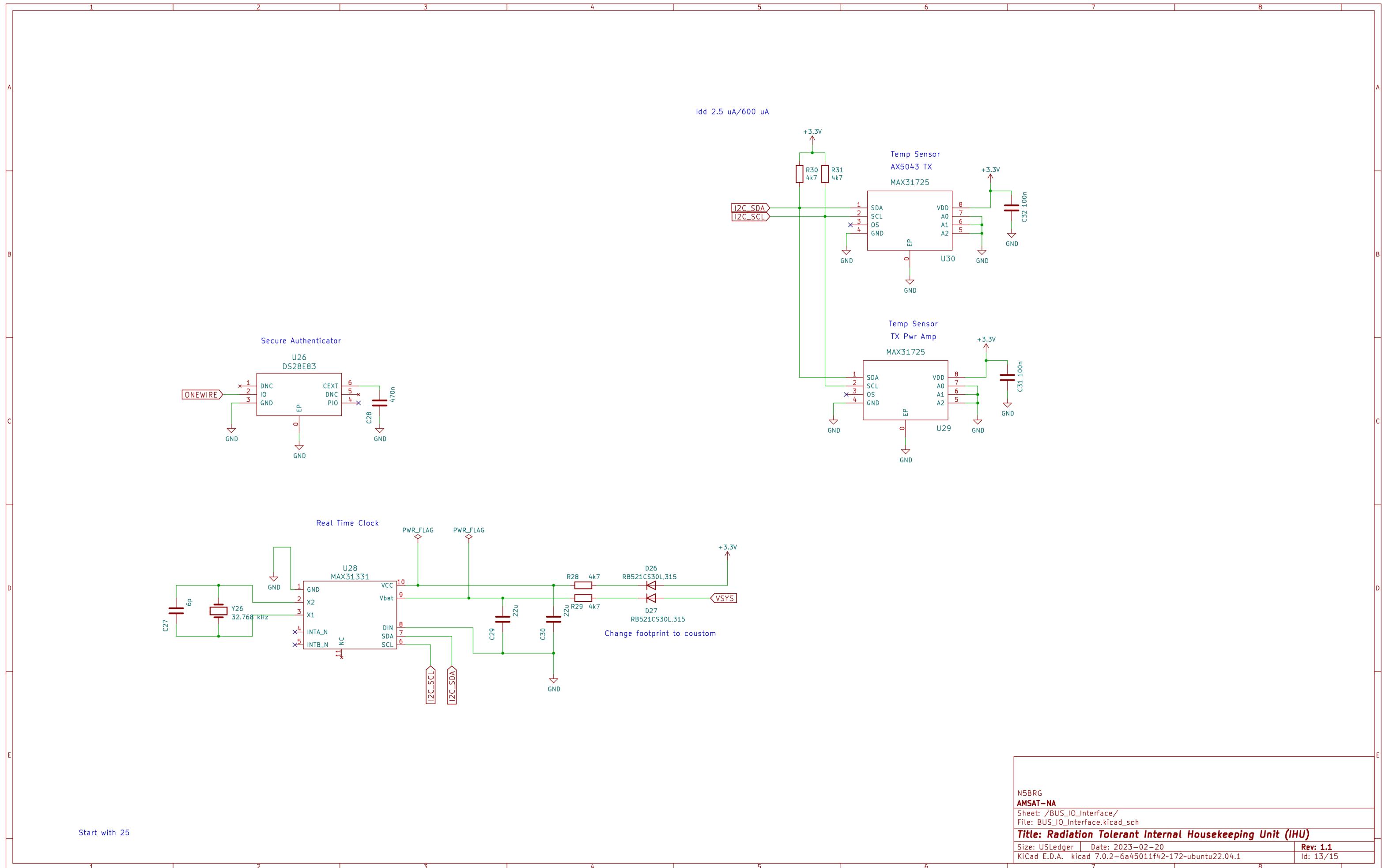
Title: Radiation Tolerant Internal Housekeeping Unit (IHU)

Size: USLedger Date: 2023-02-16
KiCad E.D.A. kicad 7.0.2-6a45011f42-172-ubuntu22.04.1

Rev: A
Id: 11/15

RECEIVER 4





N5BRG
AMSAT-NA

Sheet: /BUS_IO_Interface/
File: BUS_IO_Interface.kicad_sch

Title: Radiation Tolerant Internal Housekeeping Unit (IHU)

Size: USLedger Date: 2023-02-20

Rev: 1.1
KiCad E.D.A. kicad 7.0.2-6a45011f42-172-ubuntu22.04.1

Id: 13/15

