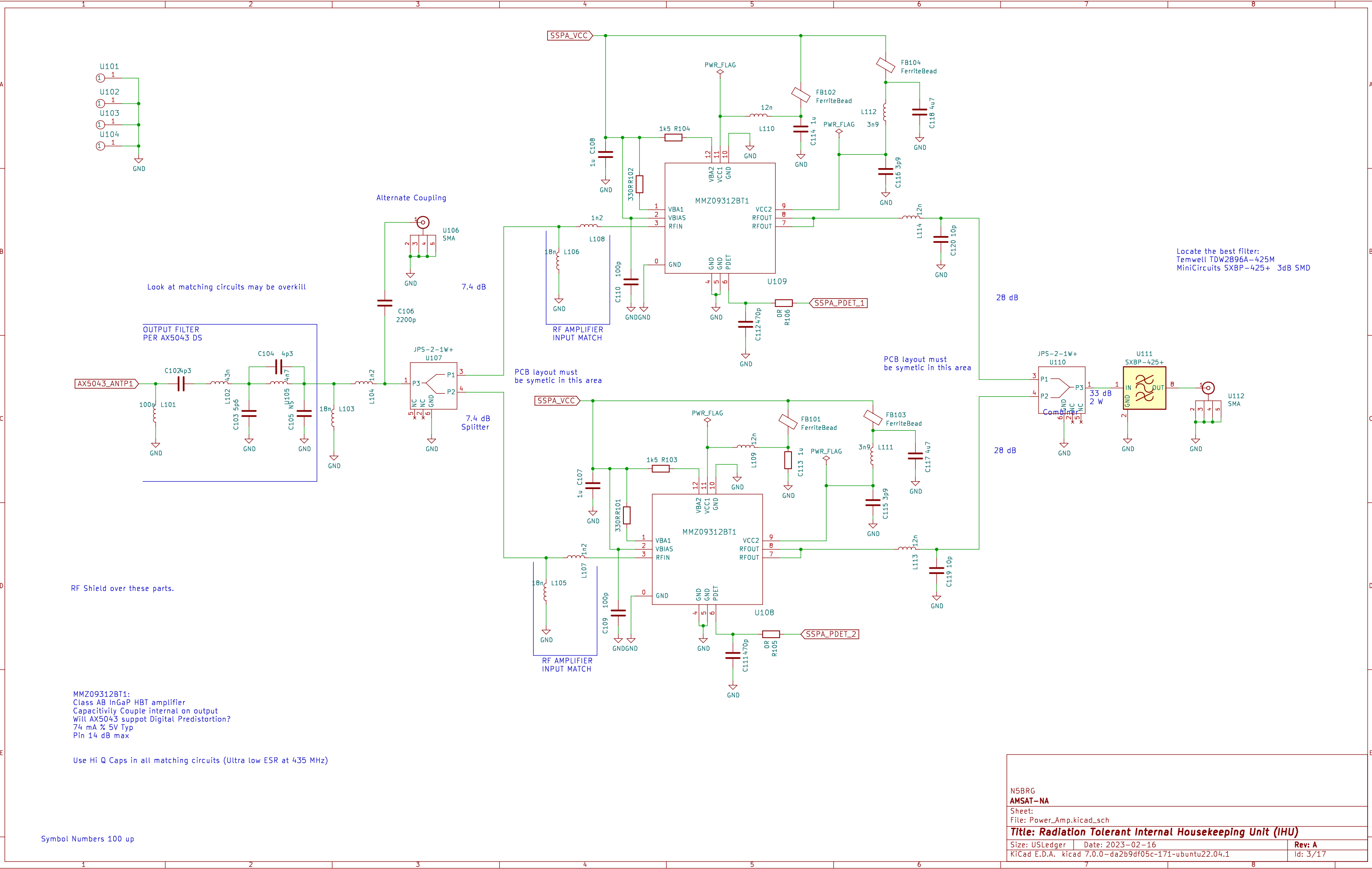
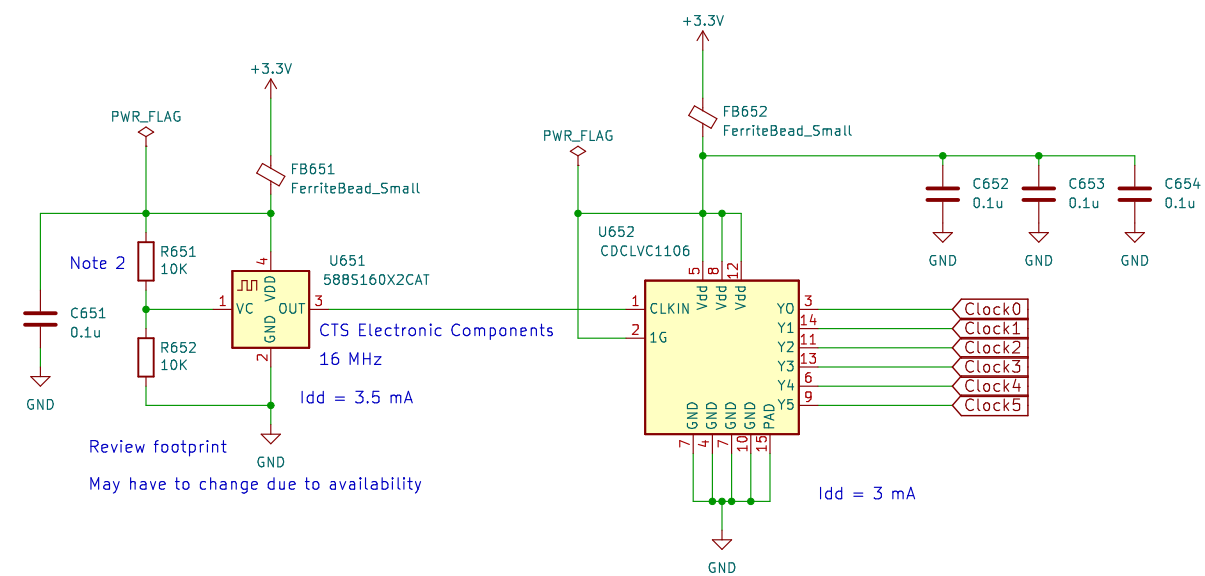


Symbol Numbers 600 up



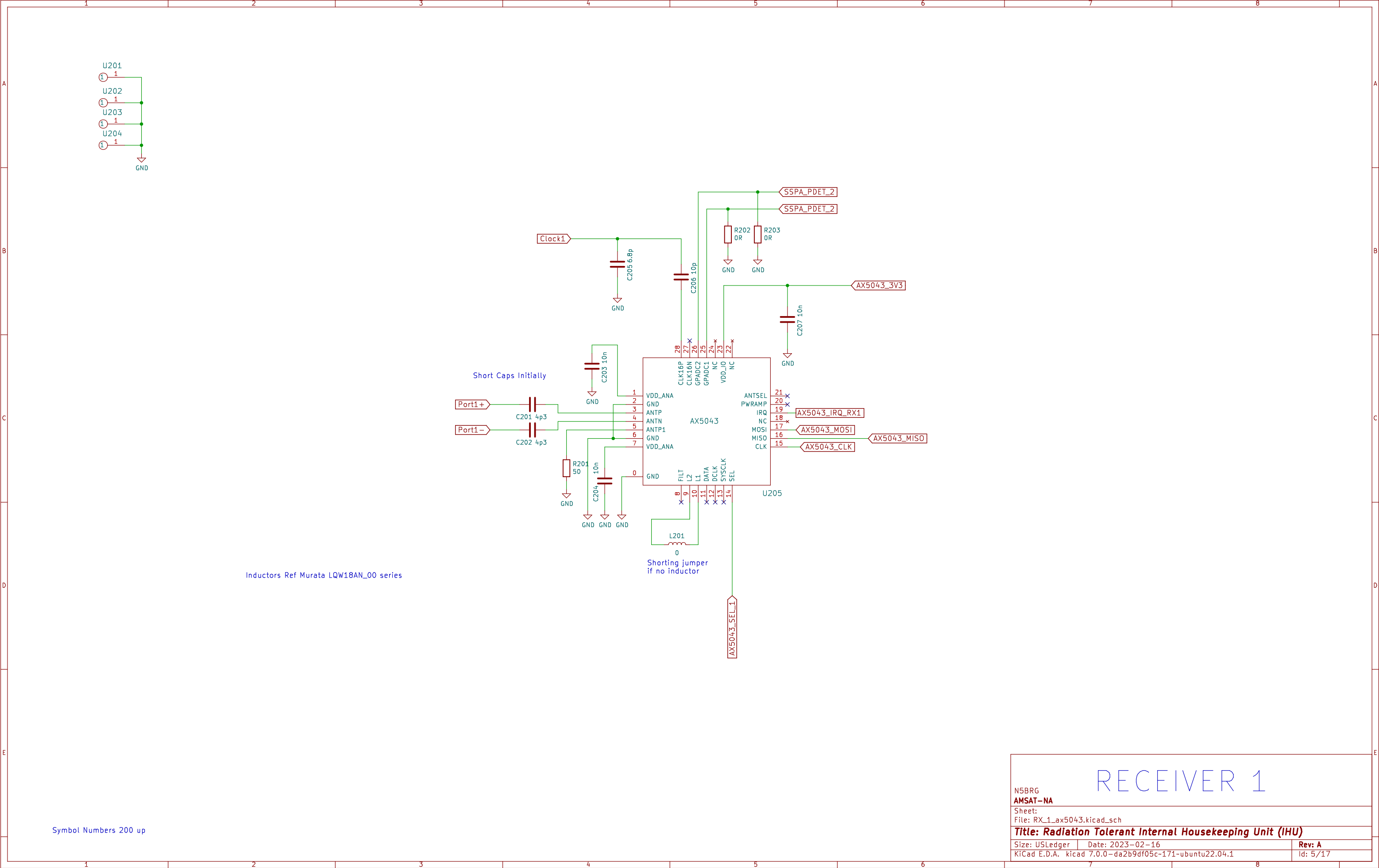
N5BRG		
AMSAT-NA		
Sheet:		
File: Power_Amp.kicad_sch		
Title: Radiation Tolerant Internal Housekeeping Unit (IHU)		
Size: USLedger	Date: 2023-02-16	Rev: A
KiCad E.D.A. kicad	7.0.0-da2b9df05c-171-ubuntu22.04.1	Id: 3/17



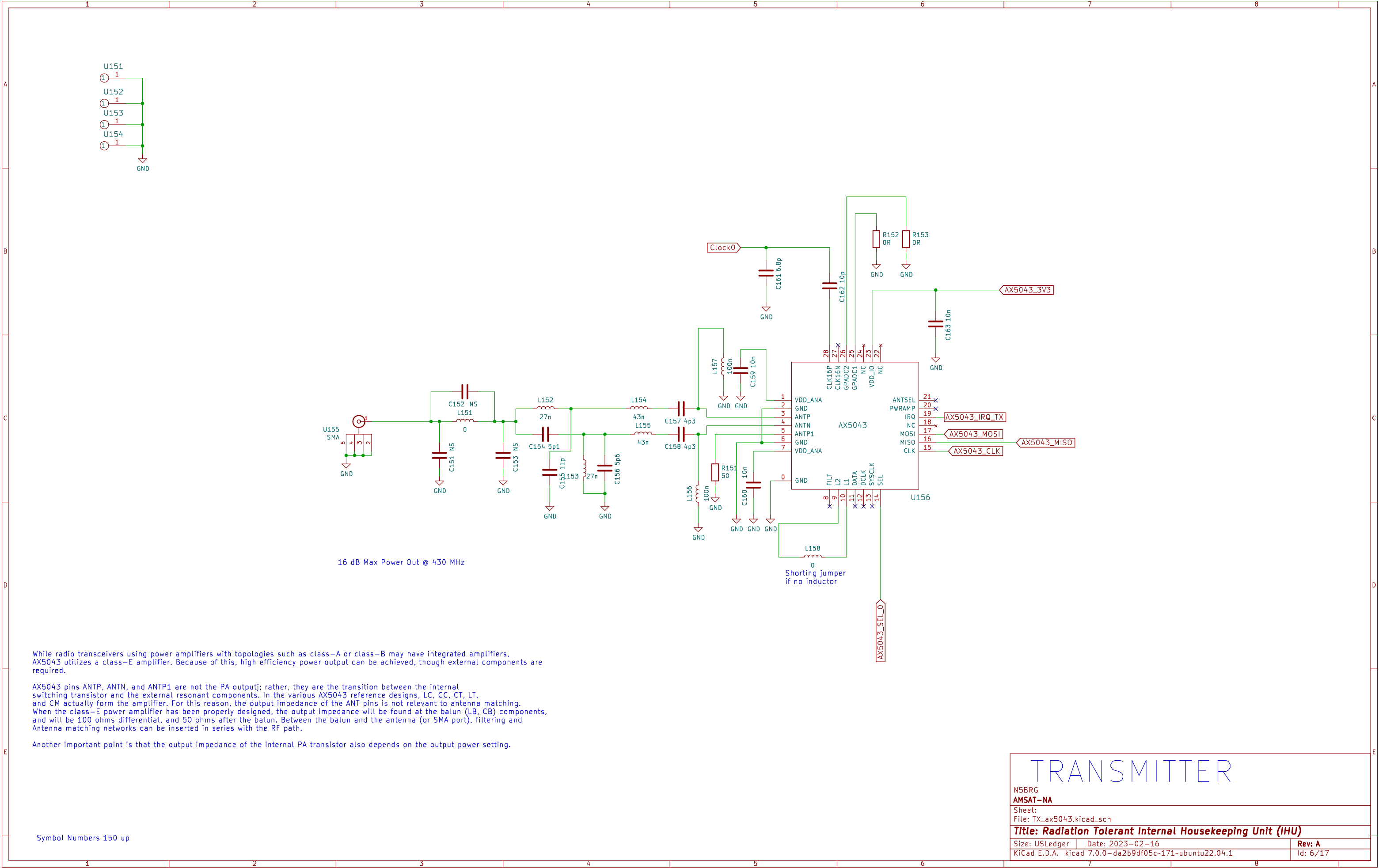
Note:

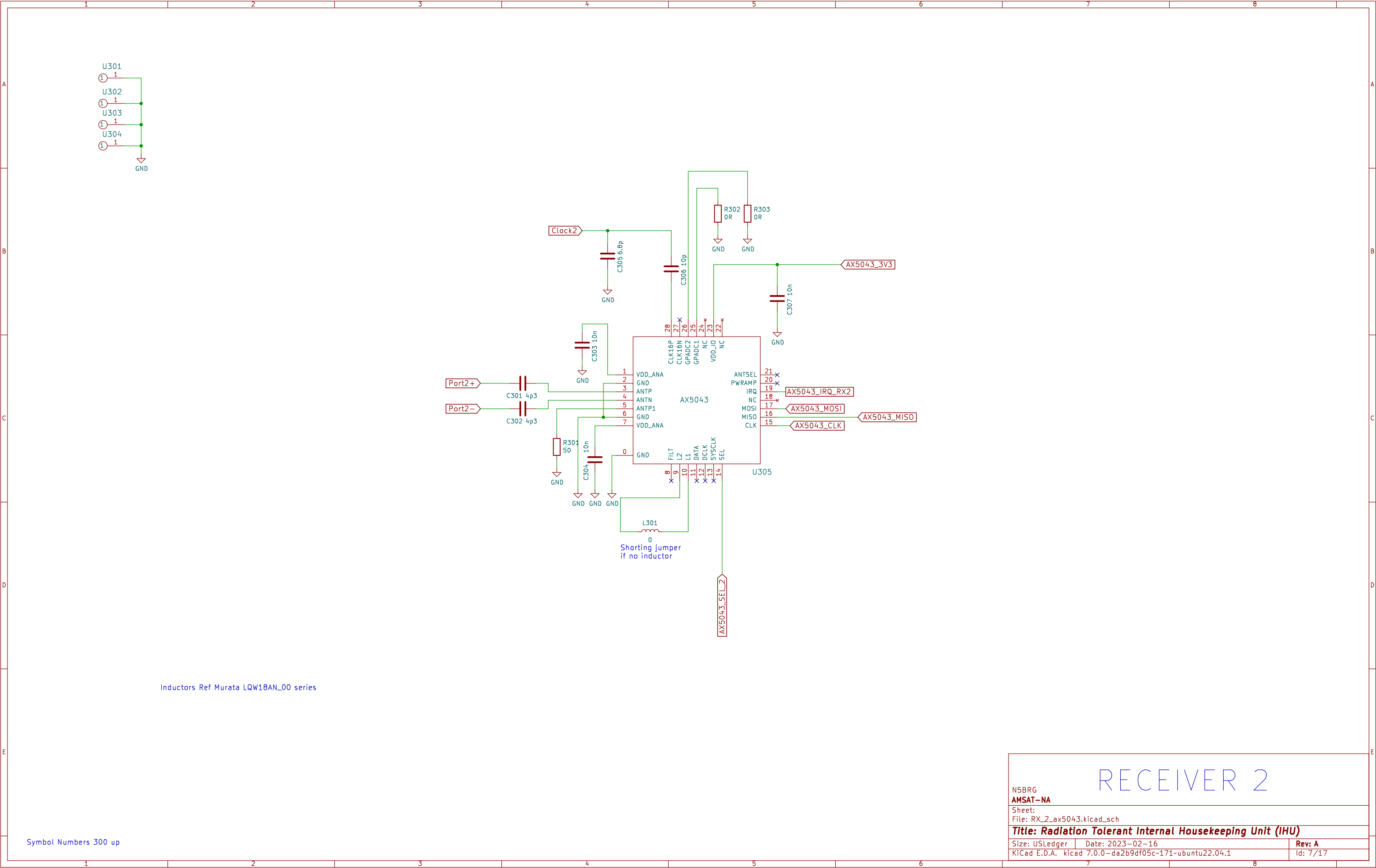
1. Review FILT voltage node and adjust current if needed per ap note AND9315-D.PDF
2. Seletec best resitor values after assembly and use one percent resistors to put frequency at 16 MHz.

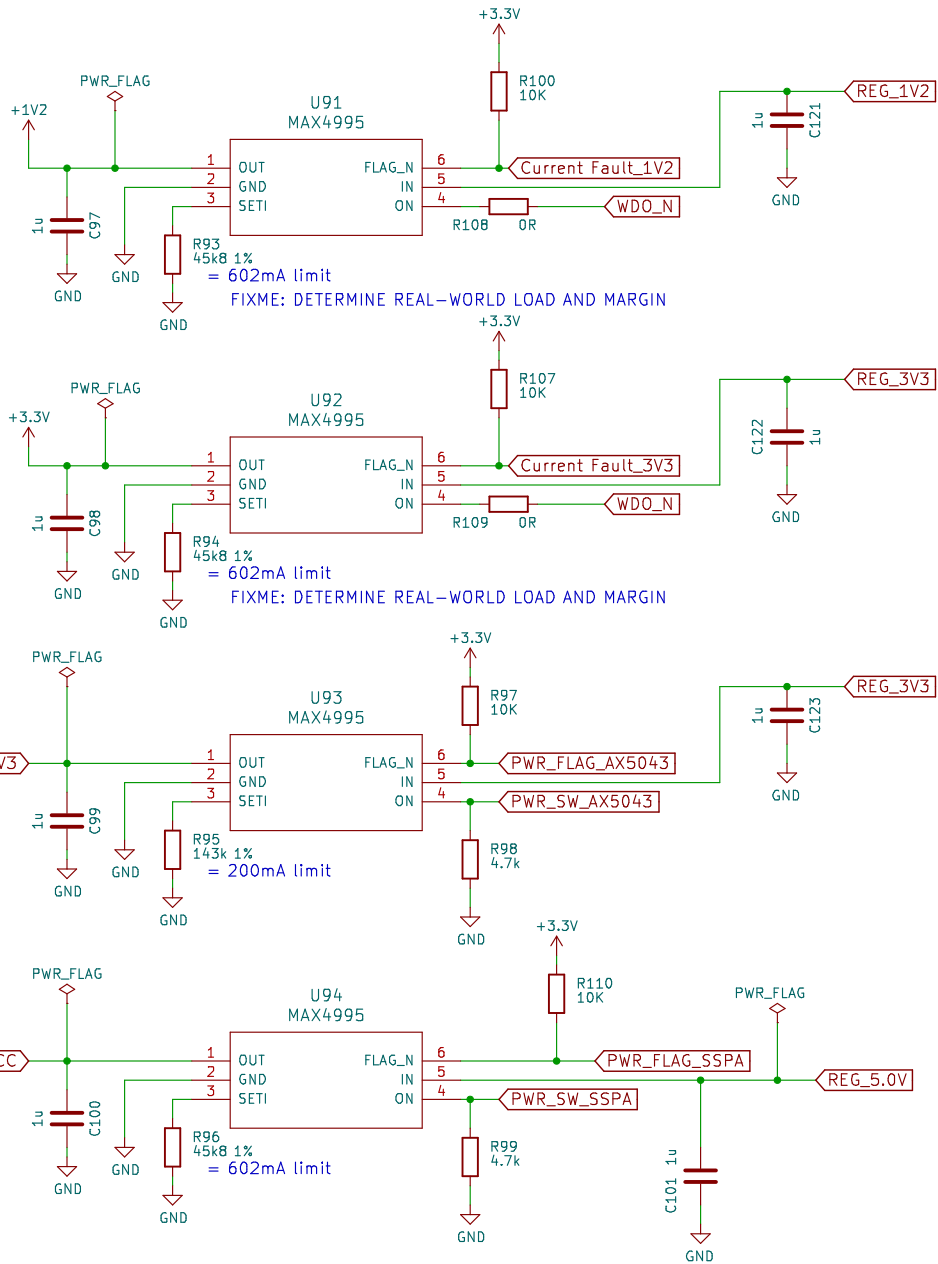
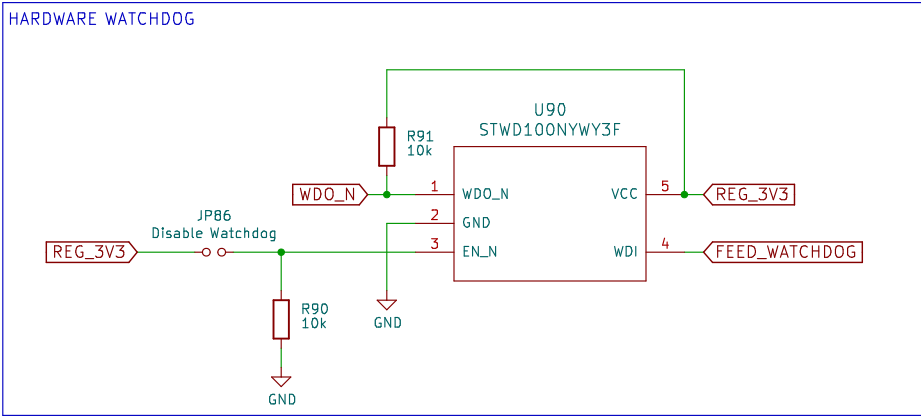
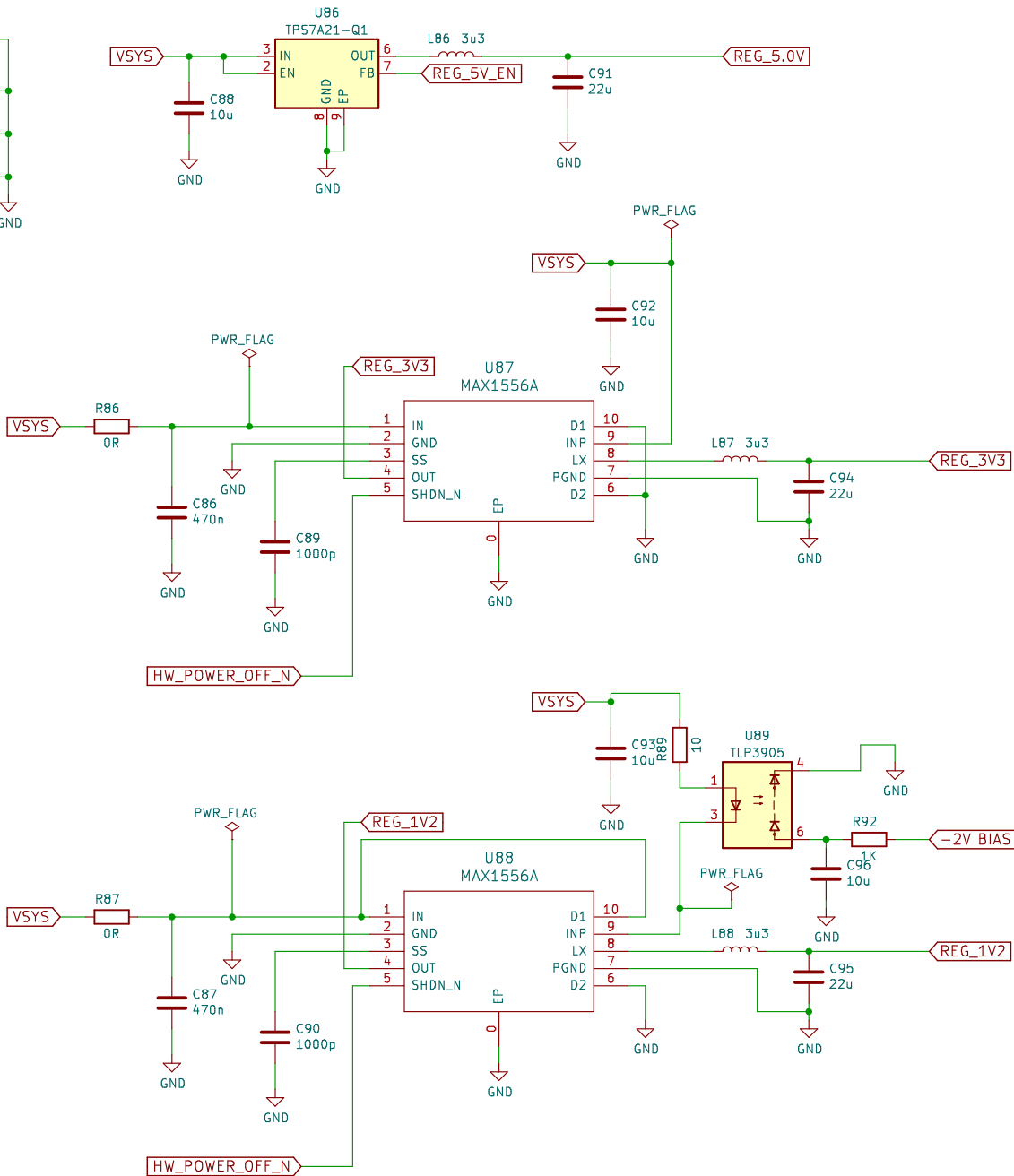
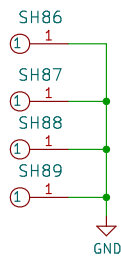
Symbol Numbers 650 up



Symbol Numbers 200 up



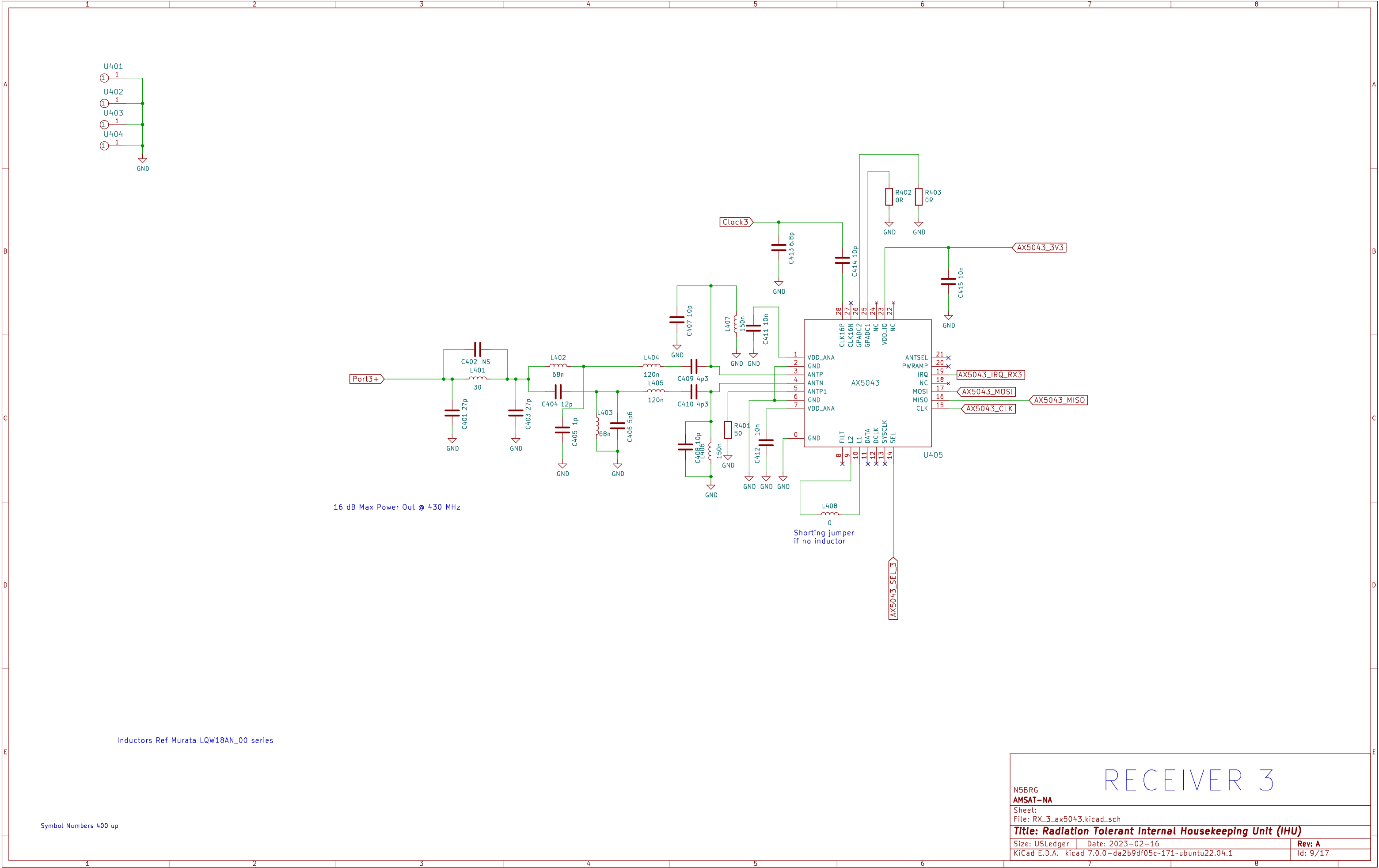


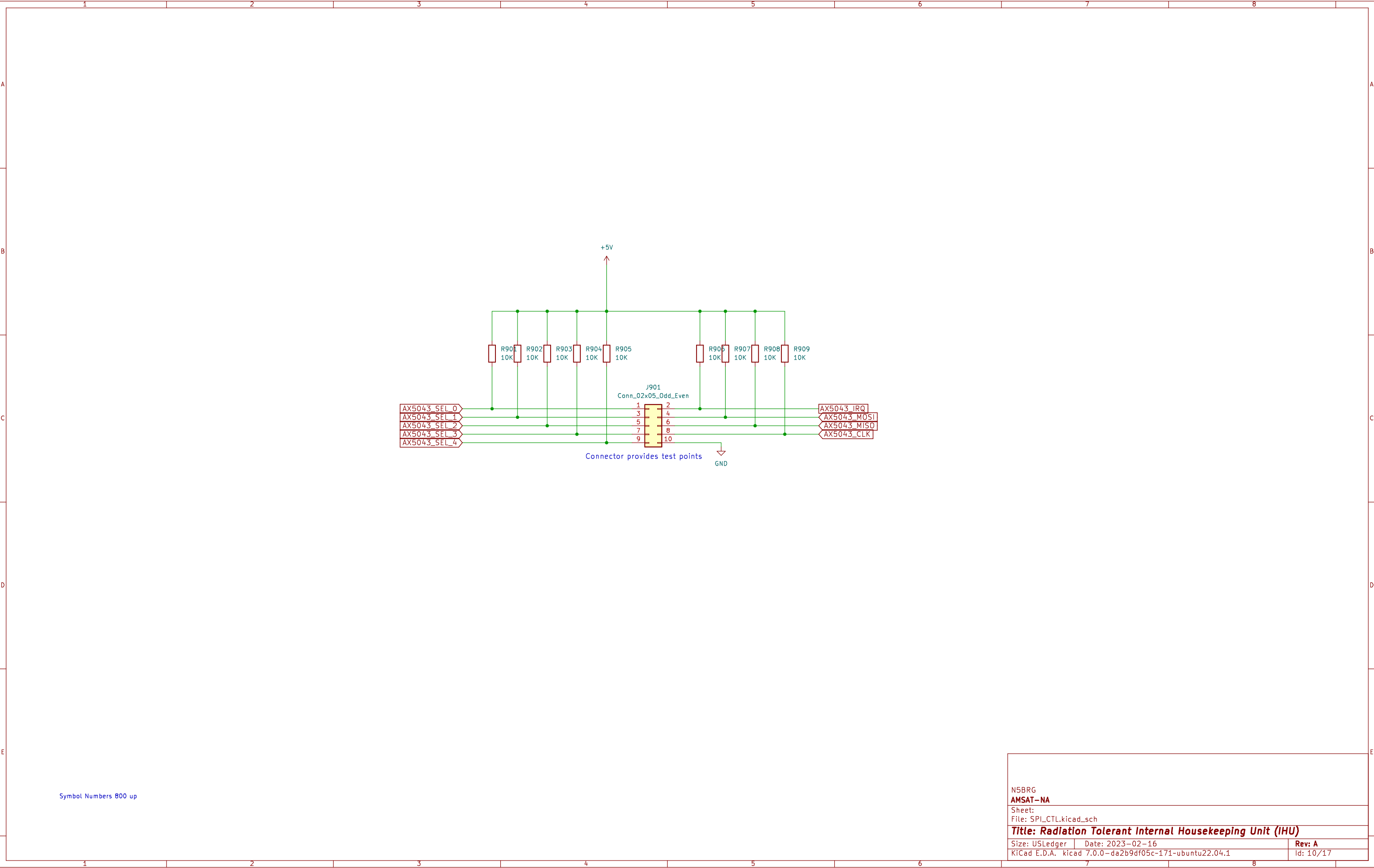


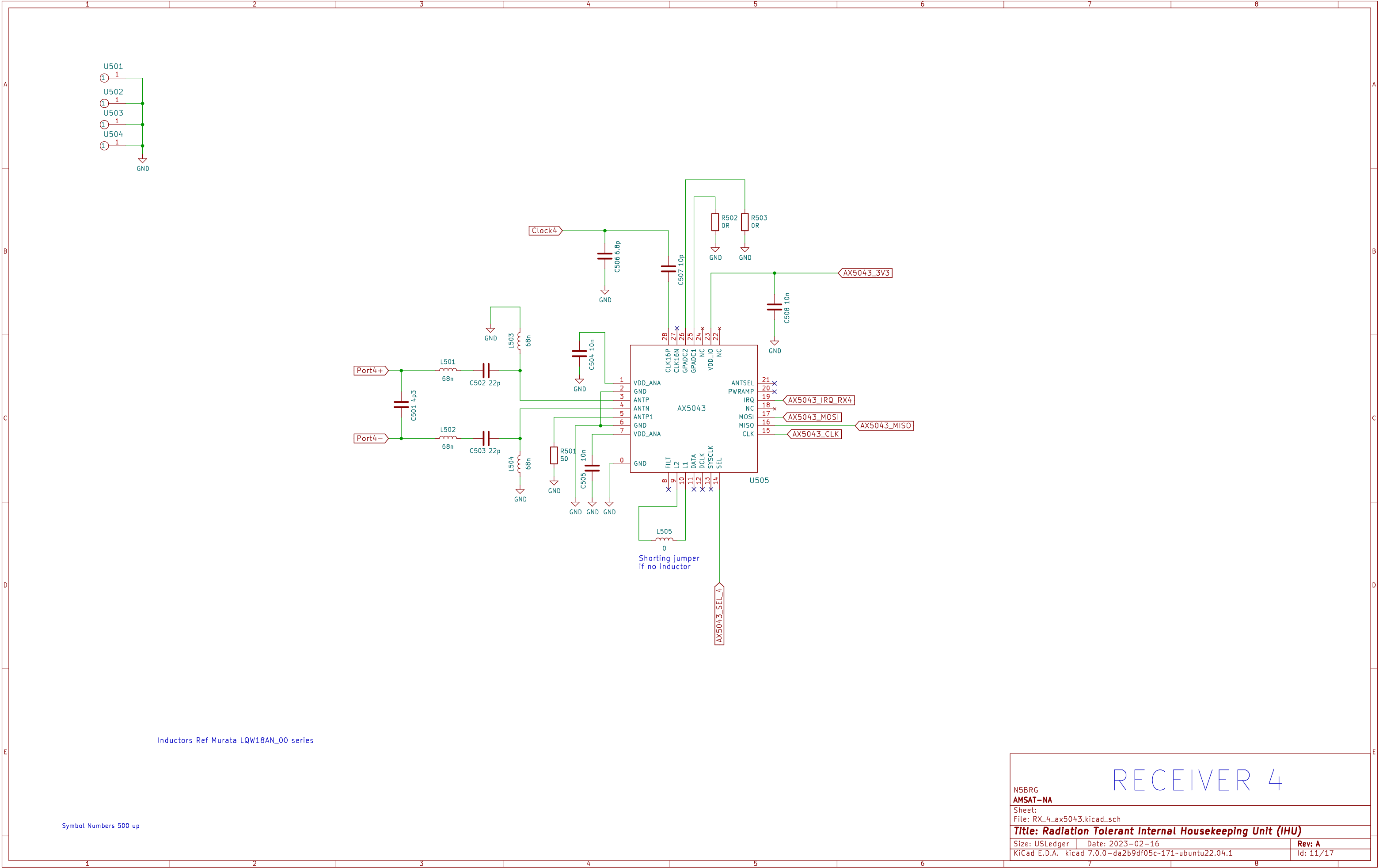
NOTE: LOAD SWITCHES ARE MAX +5.5V (ABS MAX +6)

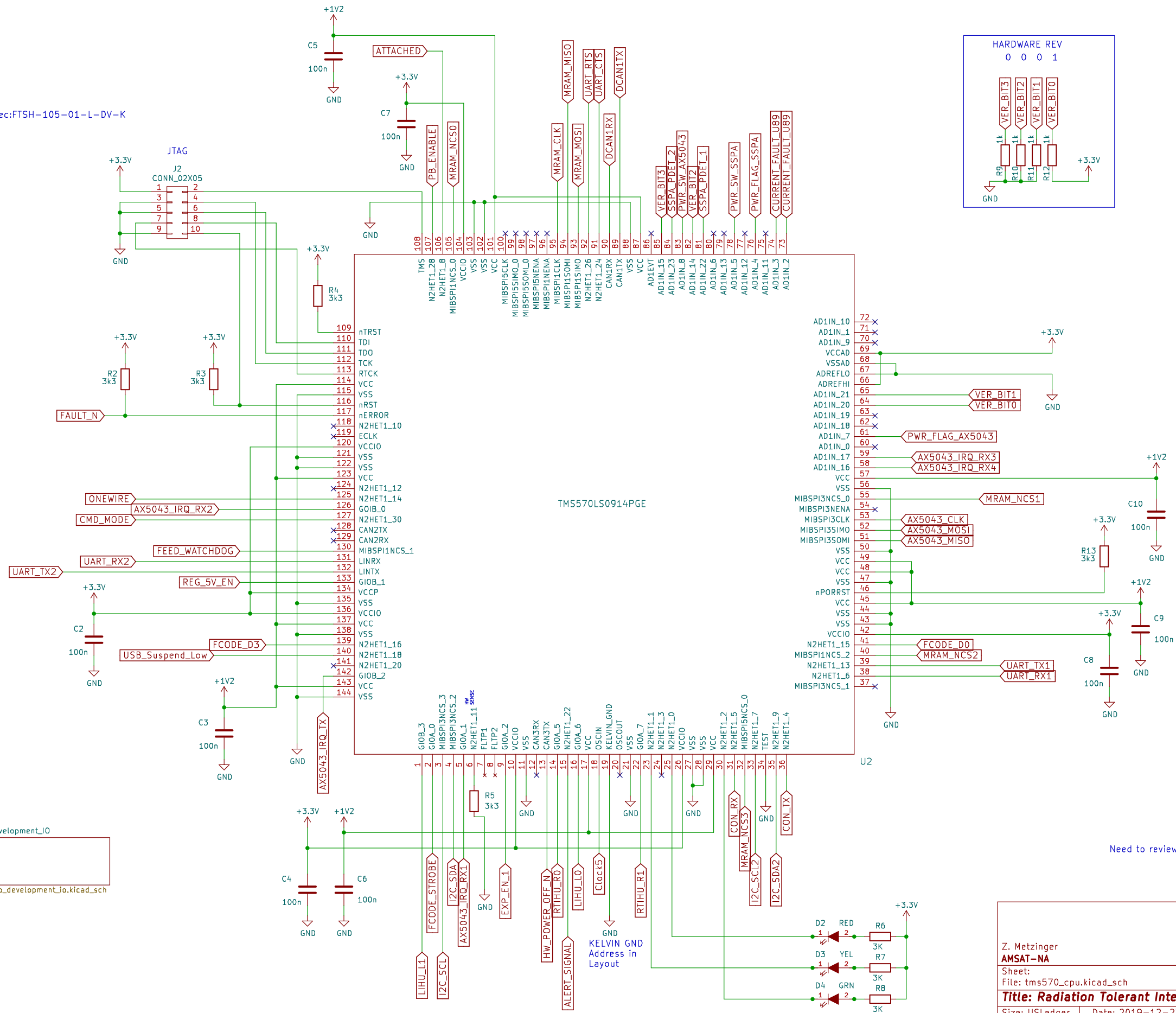
Must review this to be sure we have enough power for the board.
We are assuming battery voltage in and regulators for all voltages are included.

Start with 85









Consider Using this OSC out.

Z. Metzinger

AMSAT-NA

Sheet:

File: tms570_cpu.kicad_sch

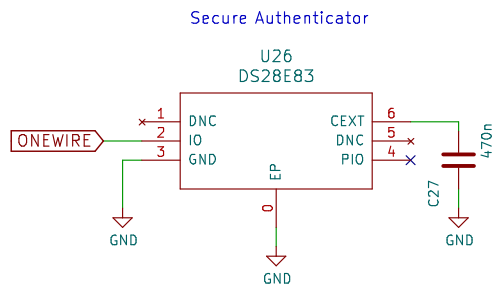
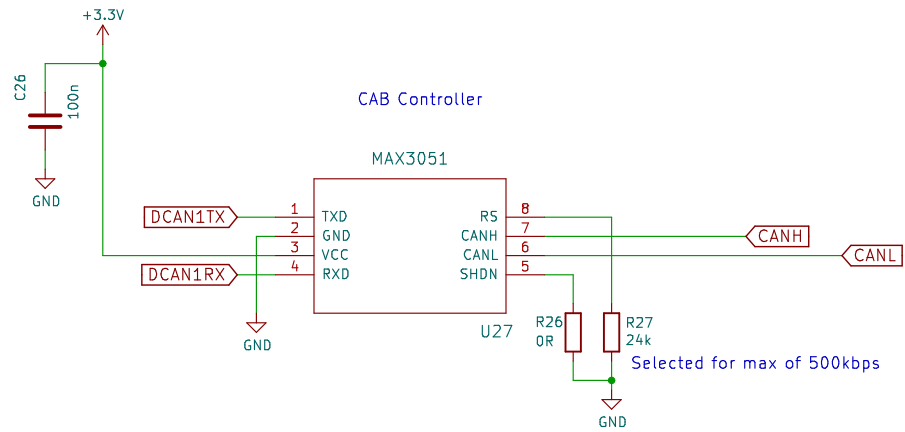
Title: Radiation Tolerant Internal Housekeeping Unit (IHU)

Size: USLedger | Date: 2019-12-23

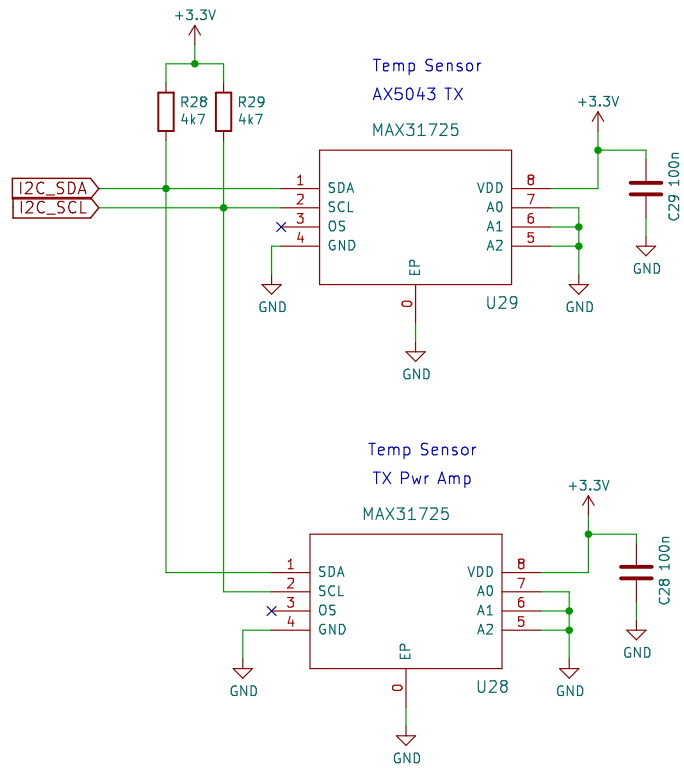
KiCad E.D.A. kicad 7.0.0-da2b9df05c~171-ubuntu22.04.1

Rev: 1.1

Id: 12/17



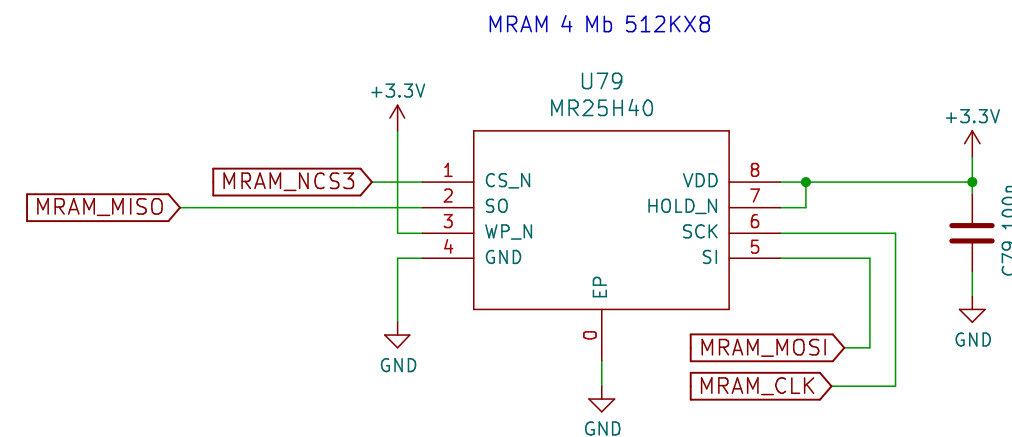
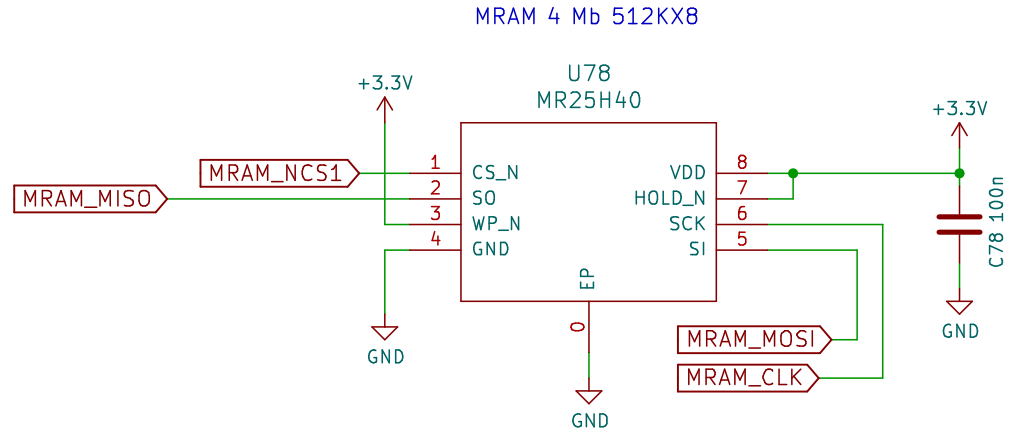
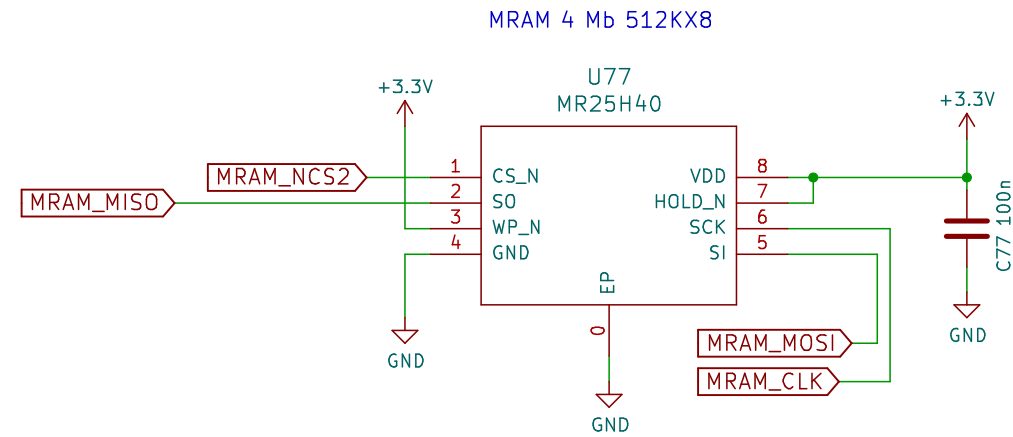
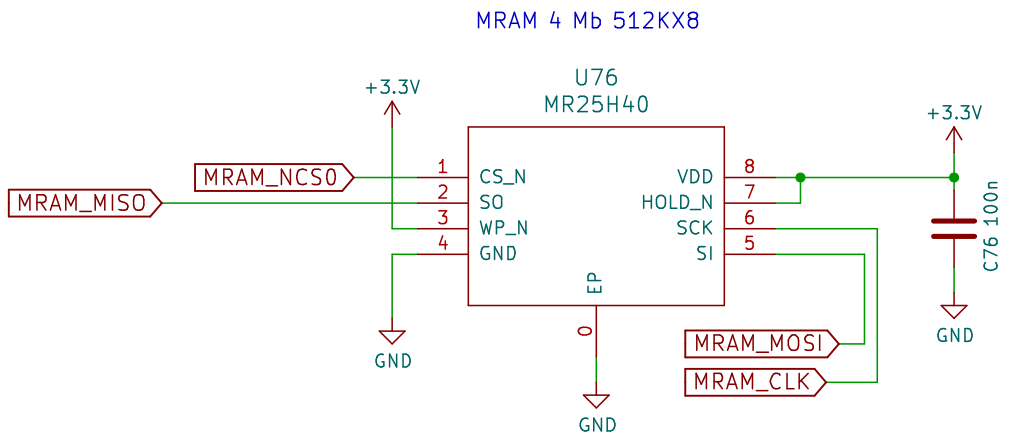
Idd 2.5 uA/600 uA





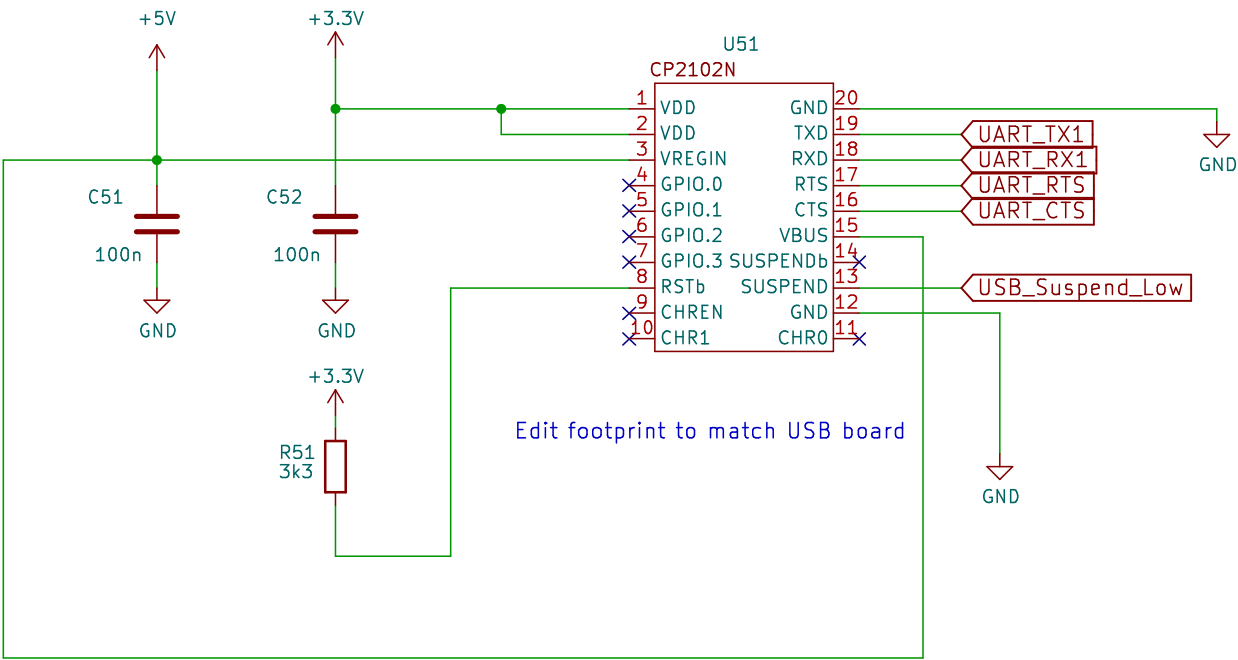
Samtec Q Series Connectors
QSS mates with QTS
This cinconnector accomidates stacking PCBs

N5BRG		
AMSAT-NA		
Sheet:		
File: PC104_io_conn.kicad_sch		
Title: Radiation Tolerant Internal Housekeeping Unit (IHU)		
Size: USLedger	Date: 2023-02-16	Rev: A
KiCad E.D.A. kicad	7.0.0-da2b9df05c-171-ubuntu22.04.1	Id: 15/17



Memory Chips
400 uA standby
11 to 18.5 mA active

Start with 75



No Battey Charging Implimented
No remote USB wake implimented

Start with 50

Sheet:		
File: usb_development_io.kicad_sch		
Title:		
Size: A4	Date:	Rev:
KiCad E.D.A. kicad 7.0.0-da2b9df05c~171-ubuntu22.04.1		Id: 18/17