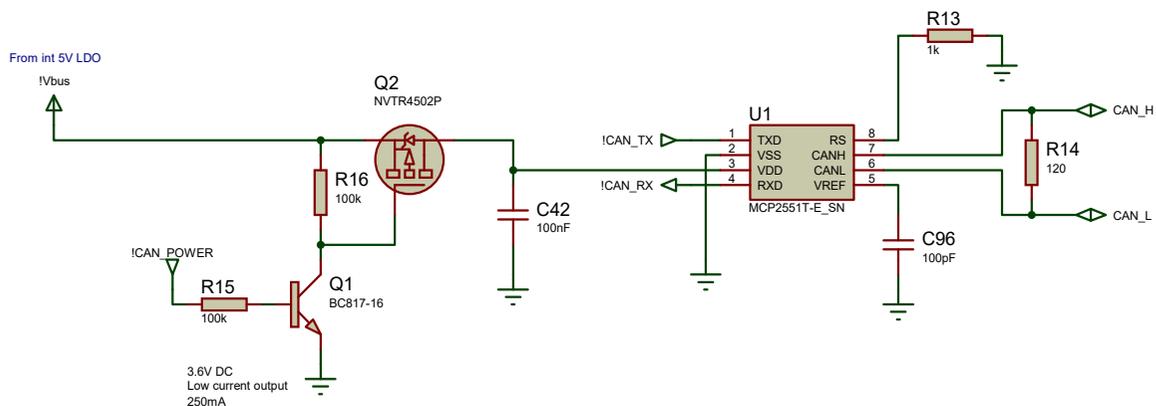


DESIGNED FOR	AMSAT-F - Electrolab	DATE:	15/12/2021
PROJECT:	Spino Com System	REV:	0A
SHEET:	General sheet	PAGE:	1/9
REFERENCE:	YA-1904-006	BY:	YA

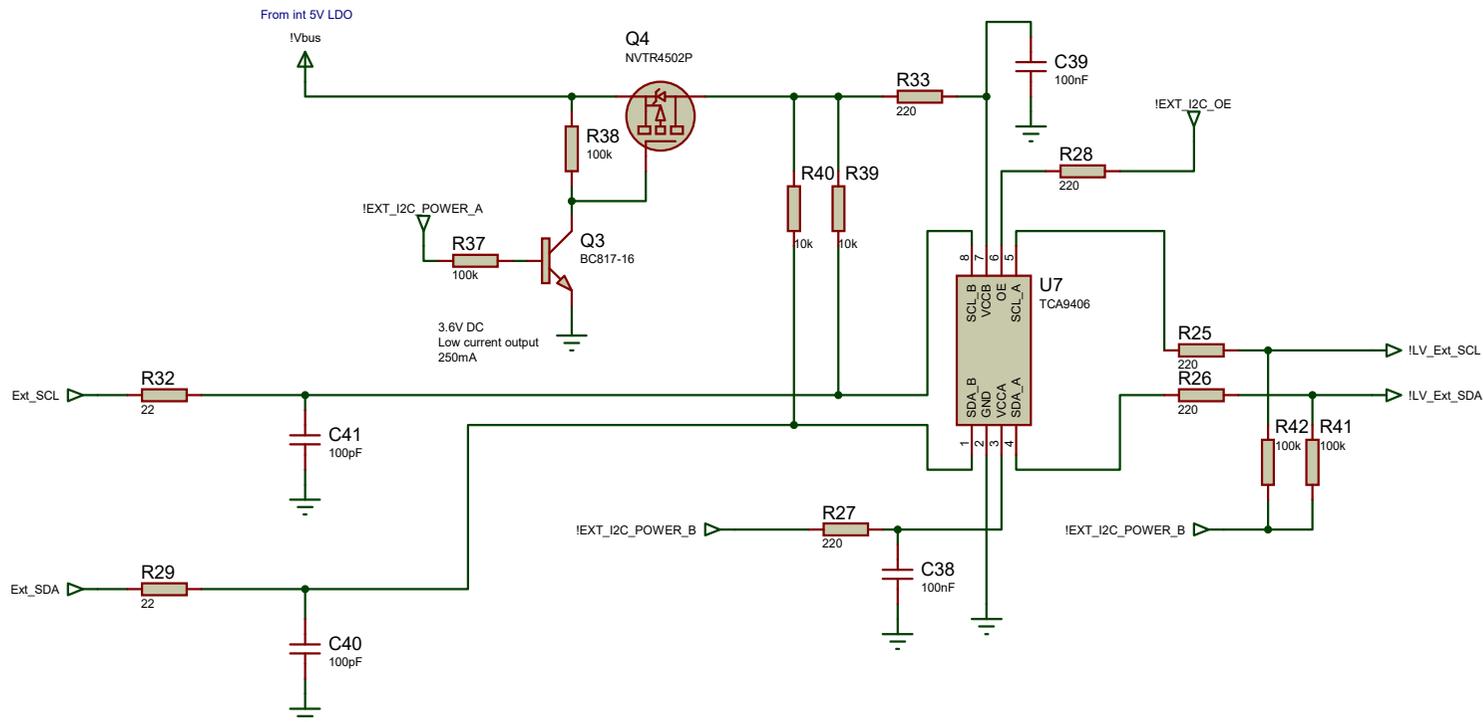
https://wiki.librecube.org/index.php?title=Librecube_Board_Specification

CAN



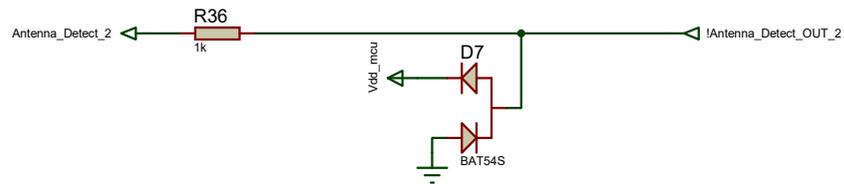
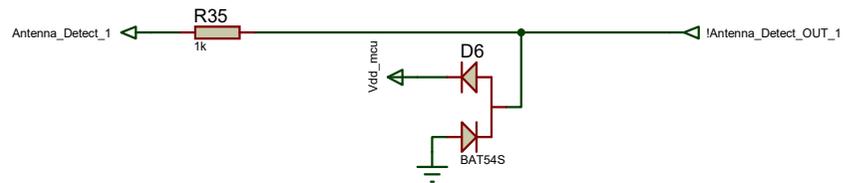
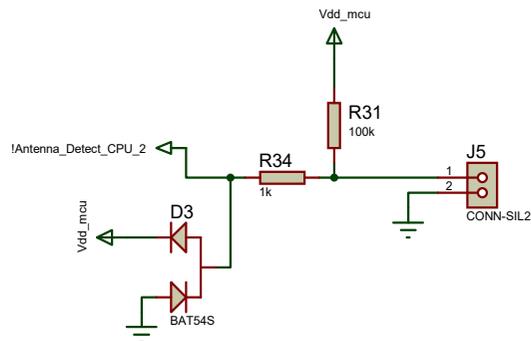
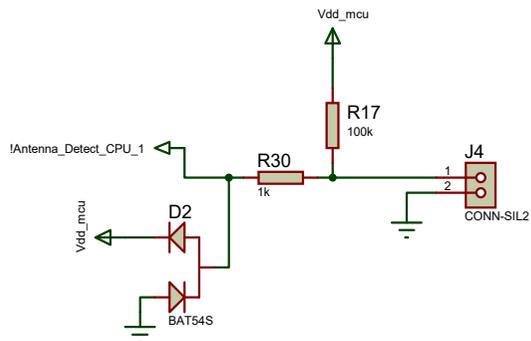
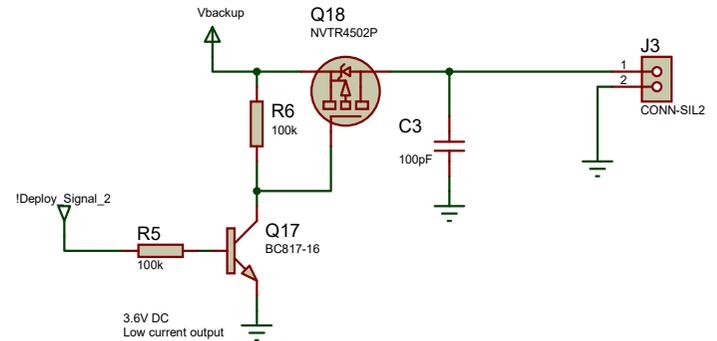
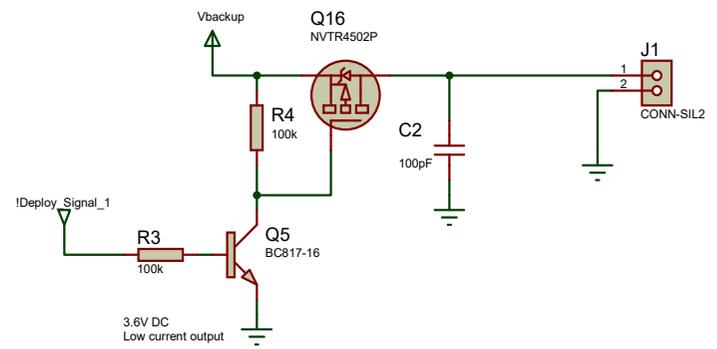
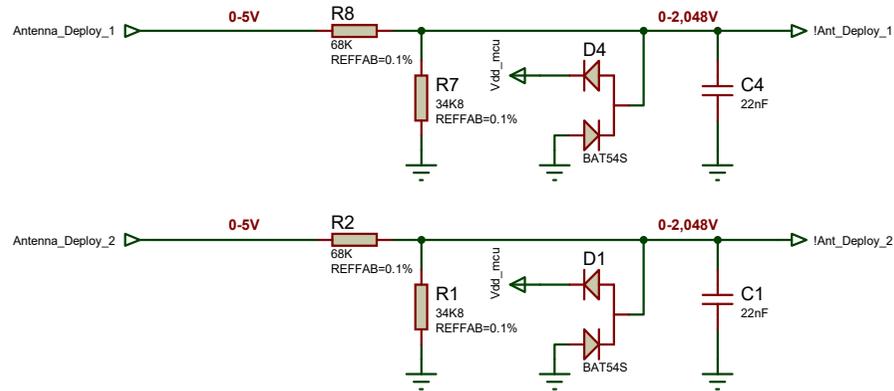
+/- 80V fault-protected
ESD protection 8kV
Human Body Model

I2C

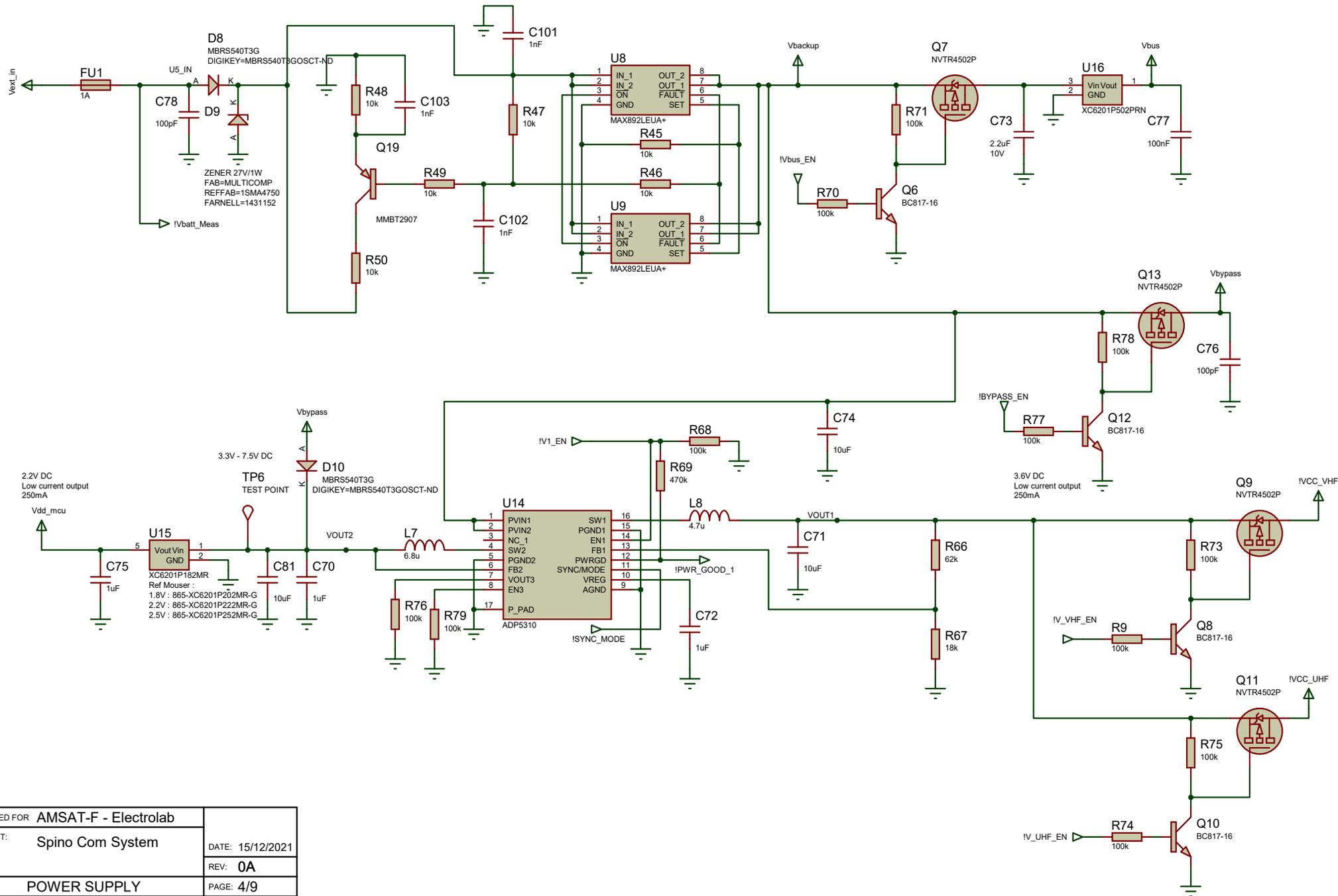


DESIGNED FOR	AMSAT-F - Electrolab	DATE	15/12/2021
PROJECT:	Spino Com System	REV:	0A
SHEET:	DIGITAL SERIAL	PAGE:	2/9
REFERENCE:	YA-1904-006	BY:	YA

$I_{max} = 3000\mu A$ recommended input current
 $f = 1.25V \rightarrow 2'4.7k = 200\mu A$ for 3.3V device, add $3000\mu A$ for 30V device

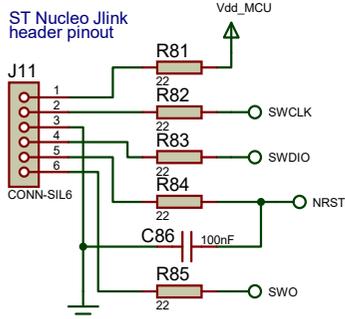


DESIGNED FOR: AMSAT-F - Electrolab	DATE: 15/12/2021
PROJECT: Spino Com System	REV: 0A
SHEET: DIGITAL IO	PAGE: 3/9
REFERENCE: YA-1904-006	BY: YA

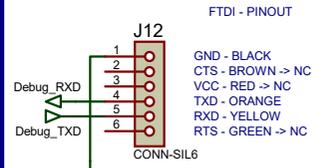


DESIGNED FOR	AMSAT-F - Electrolab	DATE:	15/12/2021
PROJECT:	Spino Com System	REV:	0A
SHEET:	POWER SUPPLY	PAGE:	4/9
REFERENCE:	YA-1904-006	BY:	YA

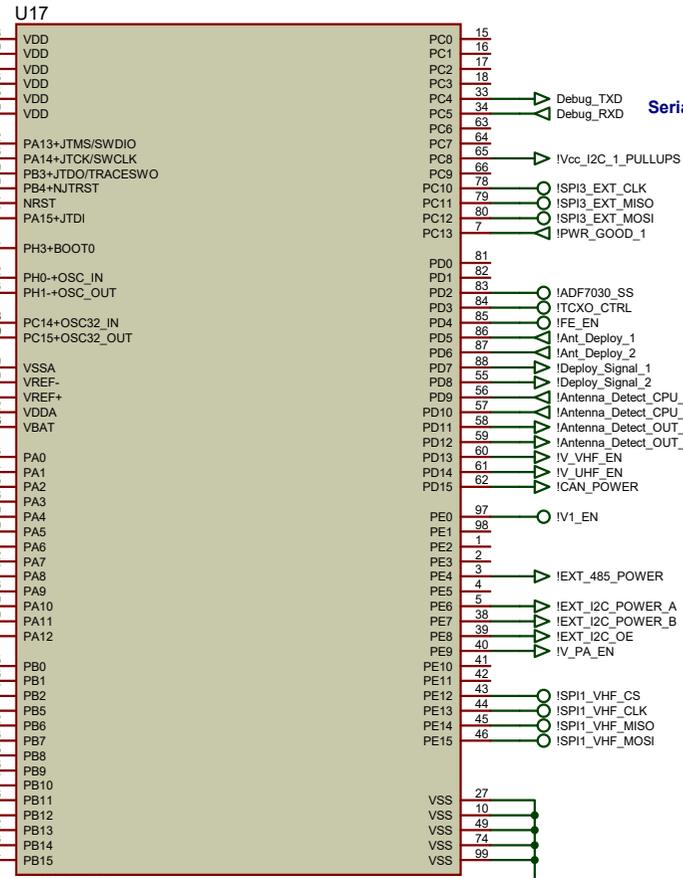
SWD



UART DEBUG



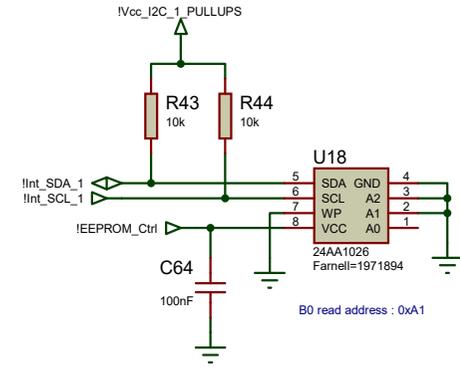
MCU



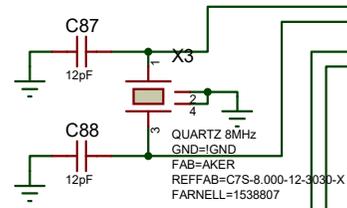
Serial debug BUS

External SPI Bus

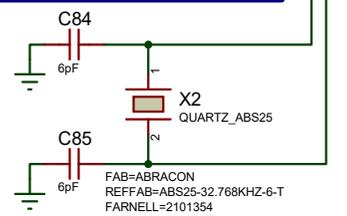
Antennas Management



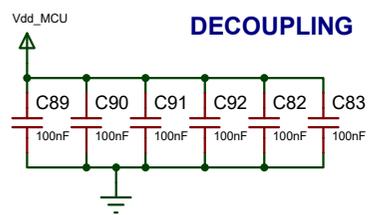
MAIN CLOCK



RTC CLOCK



DECOUPLING



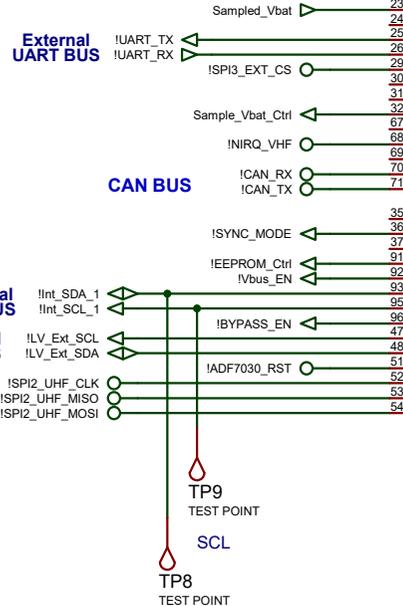
External UART BUS

CAN BUS

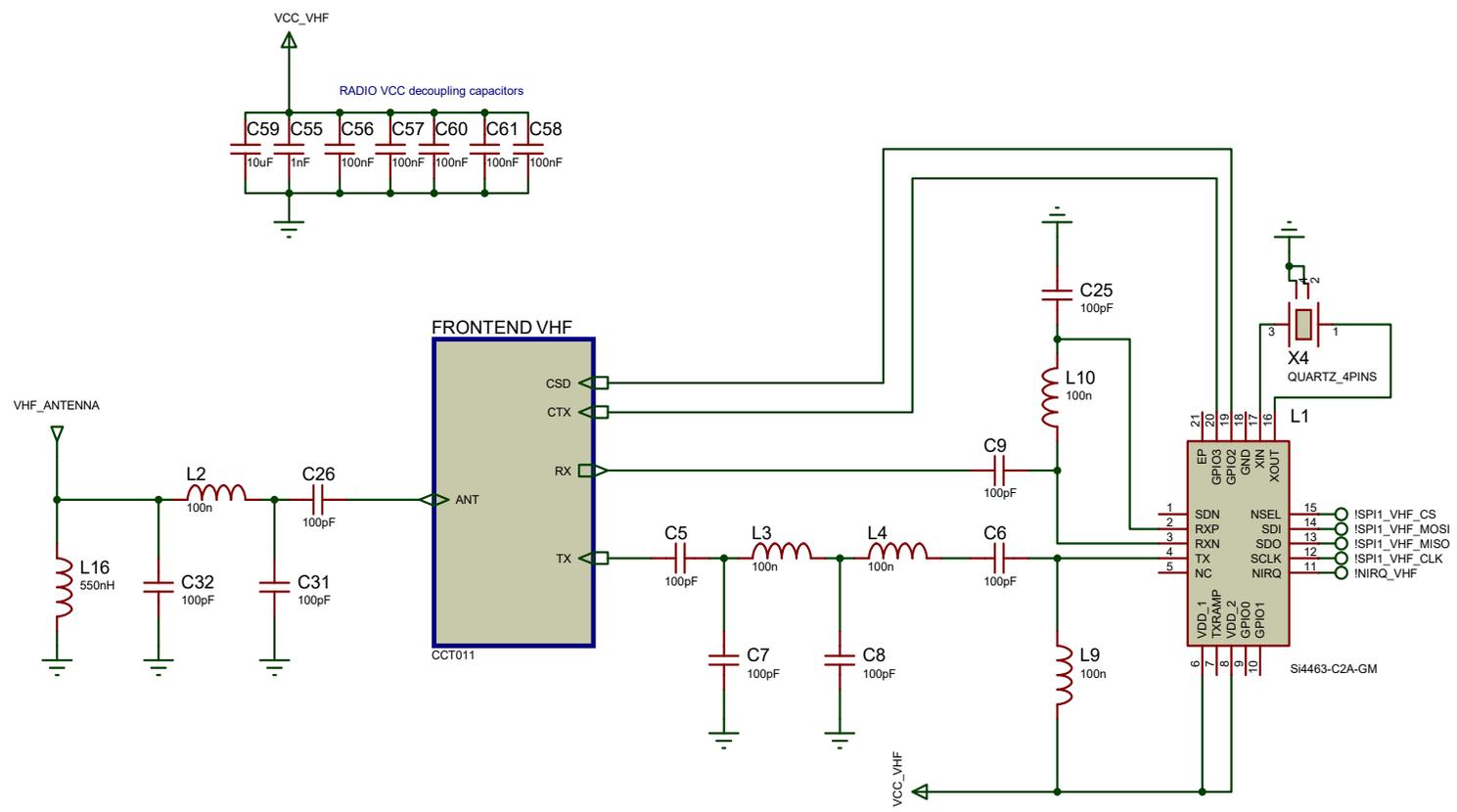
Internal I2C BUS

External I2C BUS

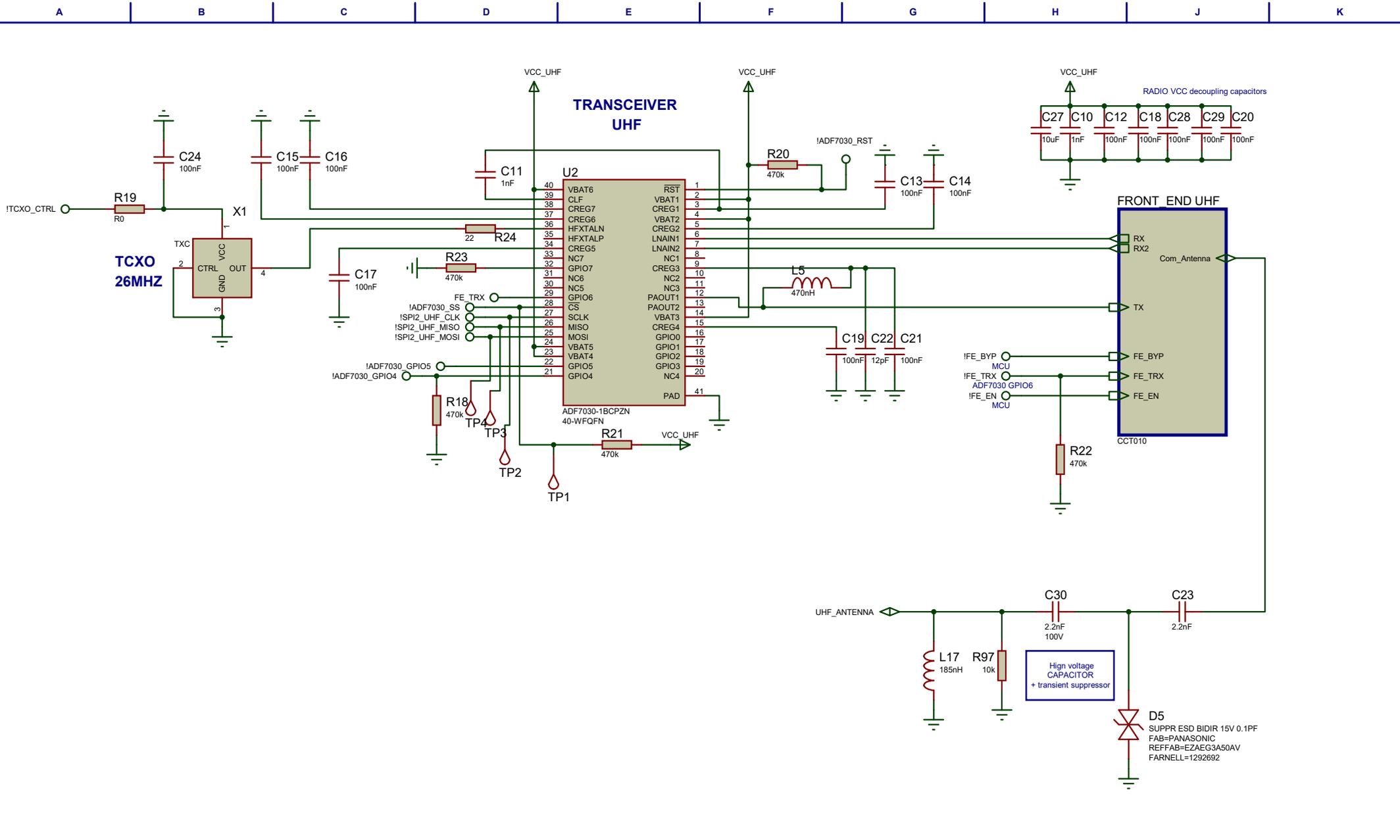
UHF Bus



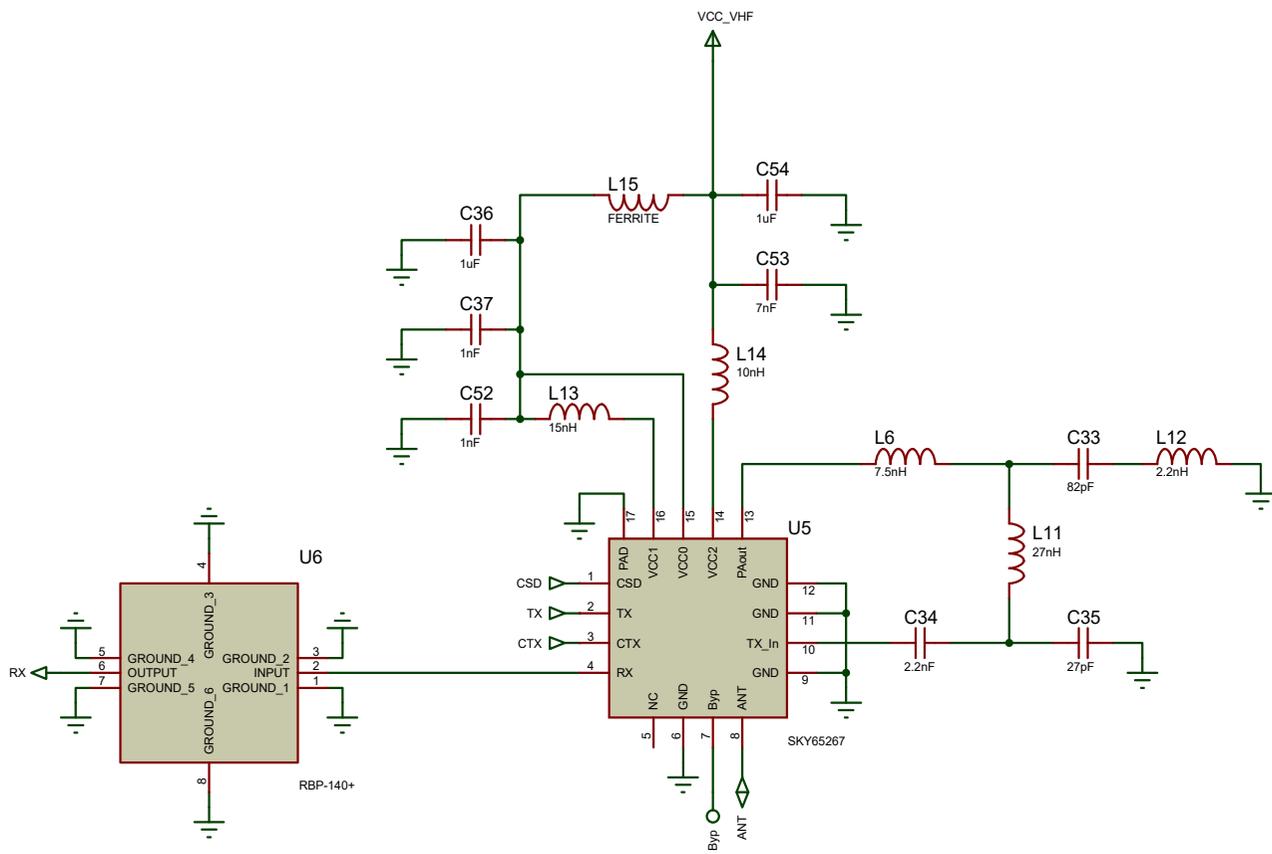
DESIGNED FOR	AMSAT-F - Electrolab	DATE:	15/12/2021
PROJECT:	Spino Com System	REV:	0A
SHEET:	CPU	PAGE:	5/9
REFERENCE:	YA-1904-006	BY:	YA



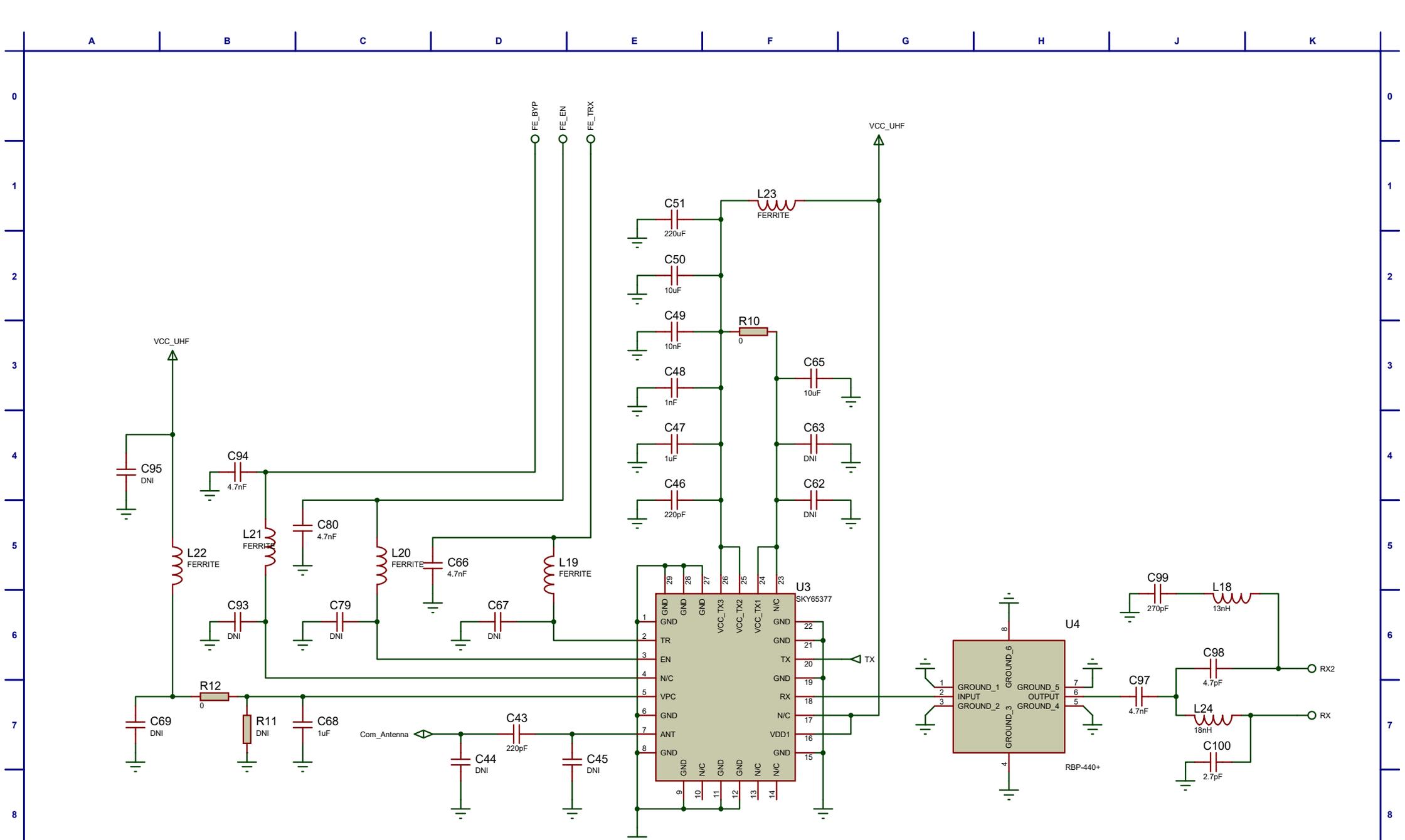
DESIGNED FOR	AMSAT-F - Electrolab	DATE:	15/12/2021
PROJECT:	Spino Com System	REV:	0A
SHEET:		PAGE:	6/9
REFERENCE:	YA-1904-006	BY:	YA



DESIGNED FOR	AMSAT-F - Electrolab	DATE:	15/12/2021
PROJECT:	Spino Com System	REV:	0A
SHEET:	RF RX + ANTENNA	PAGE:	7/9
REFERENCE:	YA-1904-006	BY:	YA



DESIGNED FOR	AMSAT-F - Electrolab	DATE:	15/12/2021
PROJECT:	Spino Com System	REV:	0A
SHEET:		PAGE:	8/9
REFERENCE:	YA-1904-006	BY:	YA



DESIGNED FOR	AMSAT-F - Electrolab	DATE:	15/12/2021
PROJECT:	Spino Com System	REV:	0A
SHEET:		PAGE:	9/9
REFERENCE:	YA-1904-006	BY:	YA