

GNSS Firehose

Wideband front end for GPS, GLONASS, Galileo, BeiDou

placeholder for
block-diagram graphics

RF channel 1



firehose_01_ch1.sch

RF Channel 2



firehose_02_ch2.sch

RF Channel 3



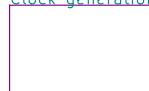
firehose_03_ch3.sch

RF Channel 4



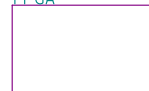
firehose_04_ch4.sch

Clock generation



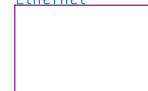
firehose_05_clock.sch

FPGA



firehose_06_fpga.sch

Ethernet



firehose_07_ethernet.sch

Power

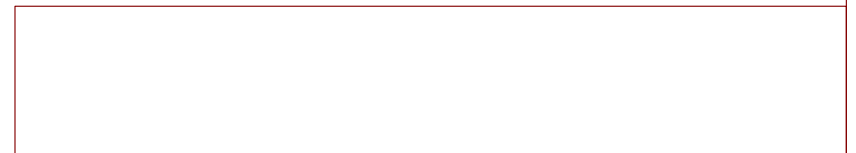


firehose_08_power.sch

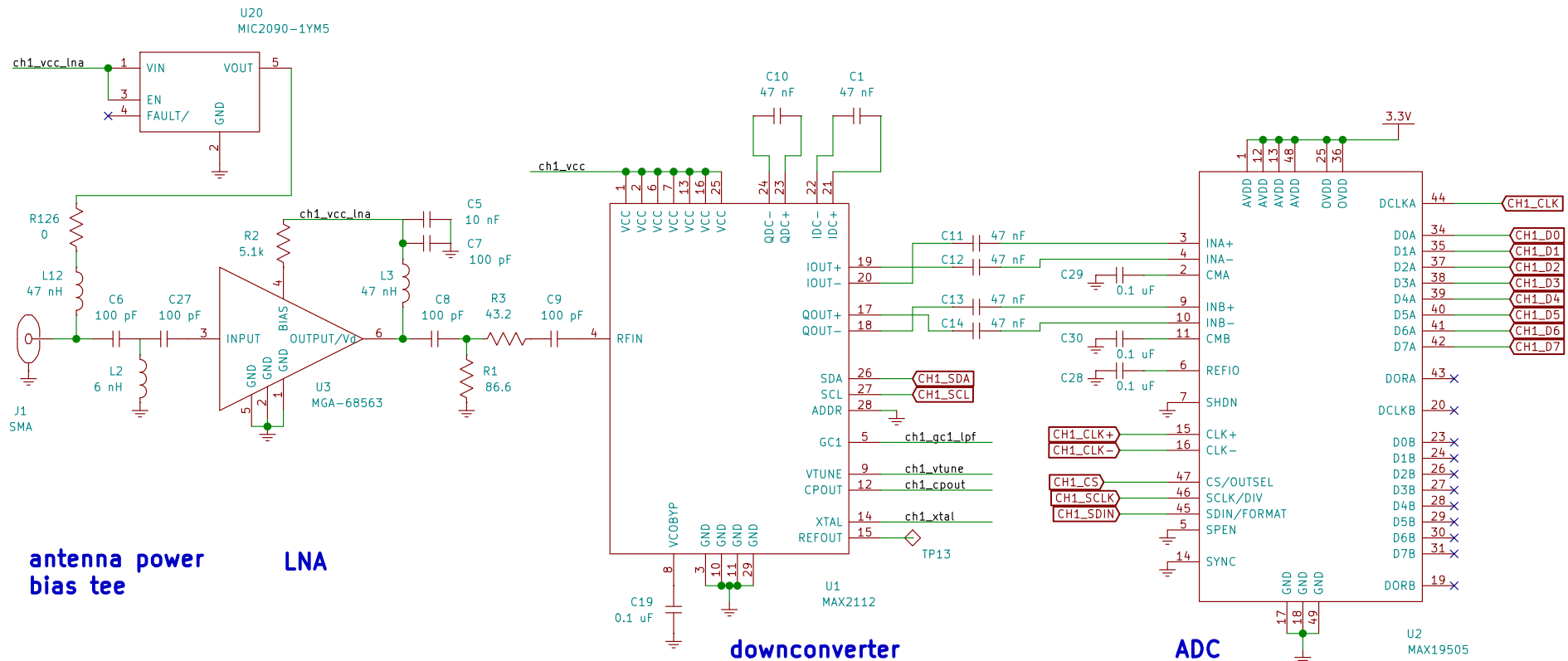
Mechanical



firehose_09_mechanical.sch



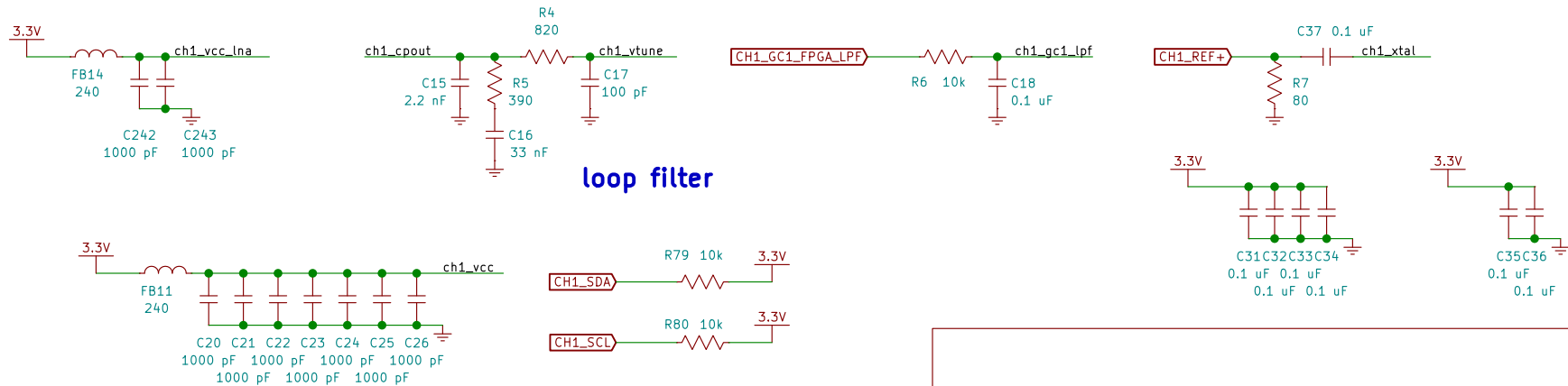
RF channel 1



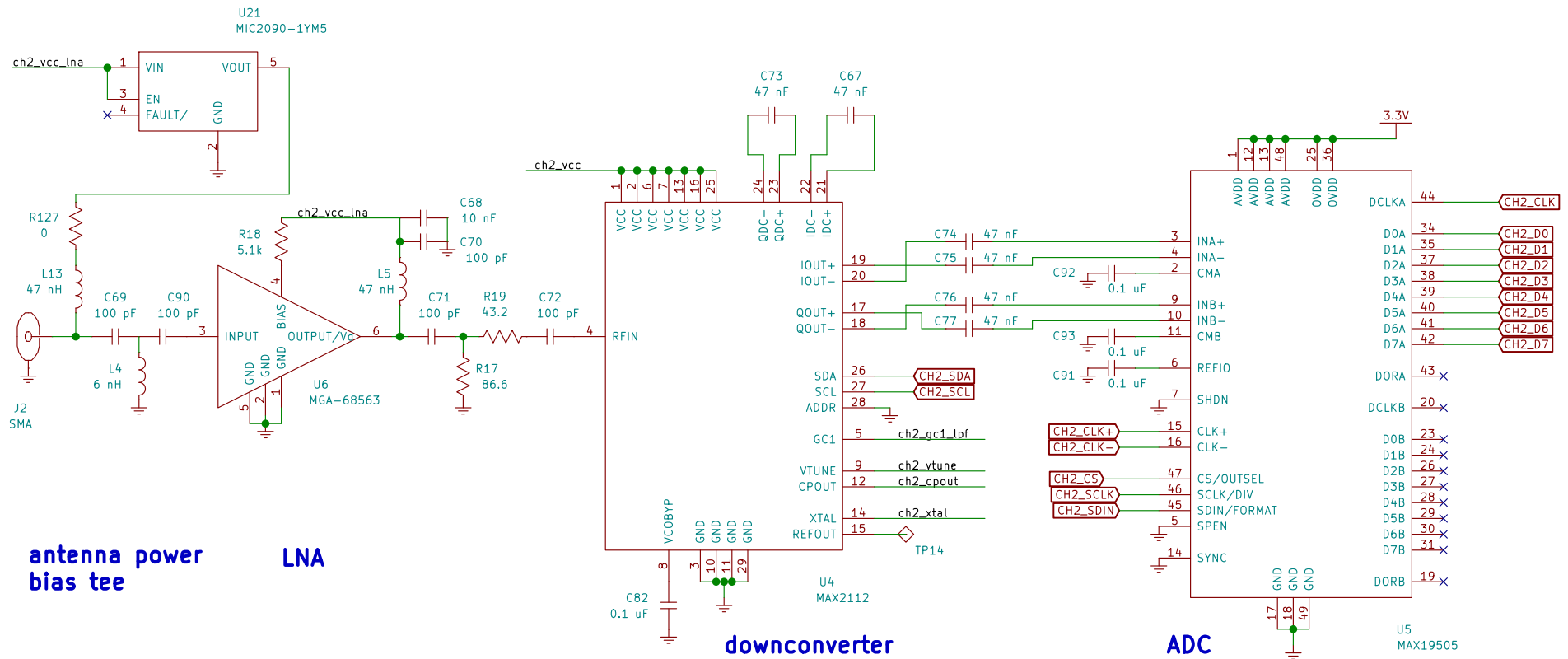
downconverter

ADC

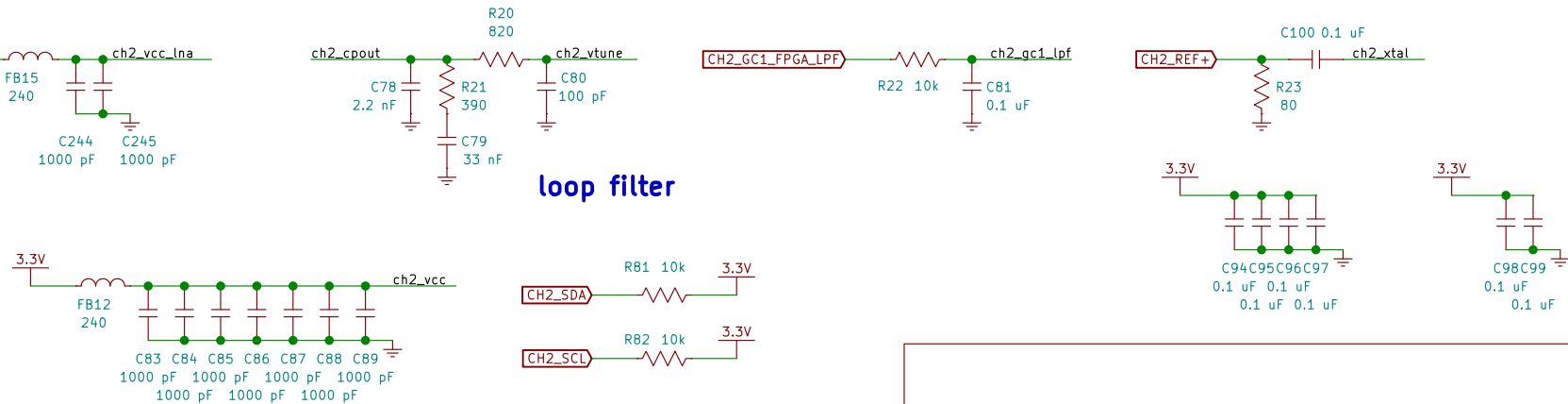
loop filter



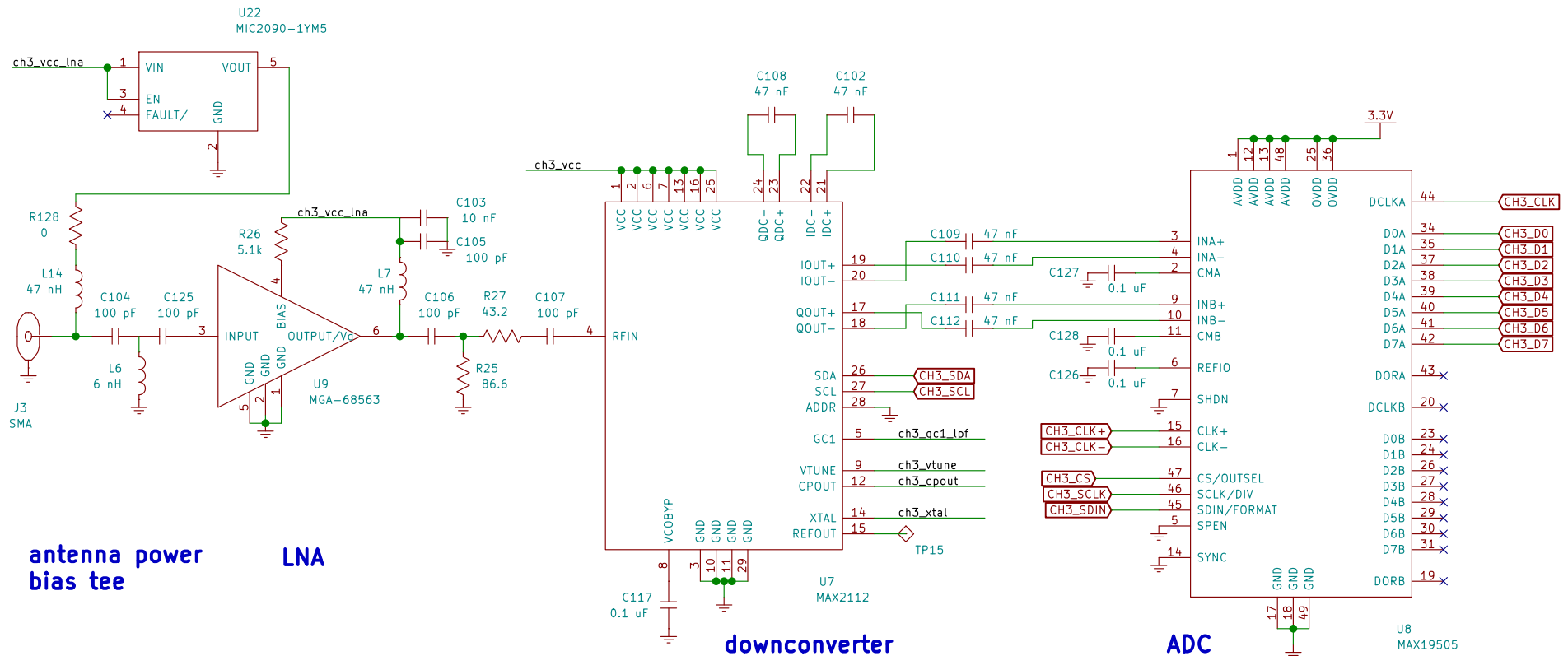
RF channel 2



loop filter



RF channel 3

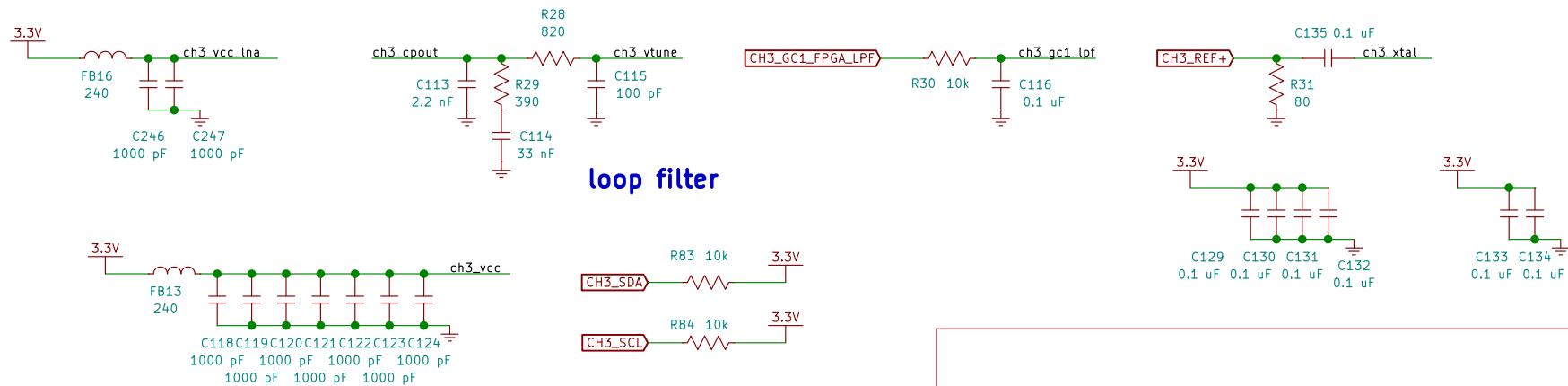


antenna power
bias tee

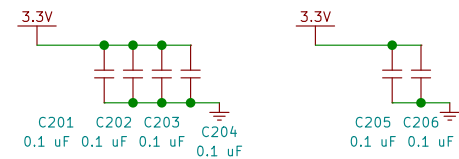
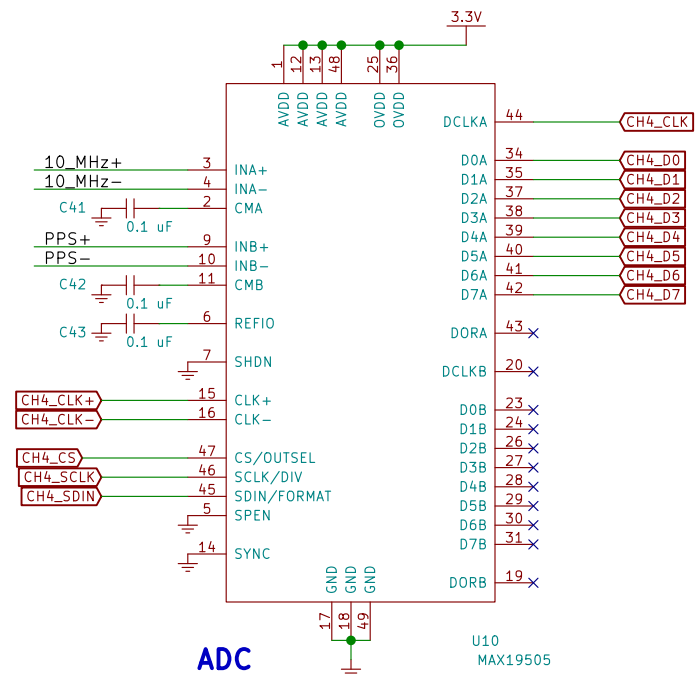
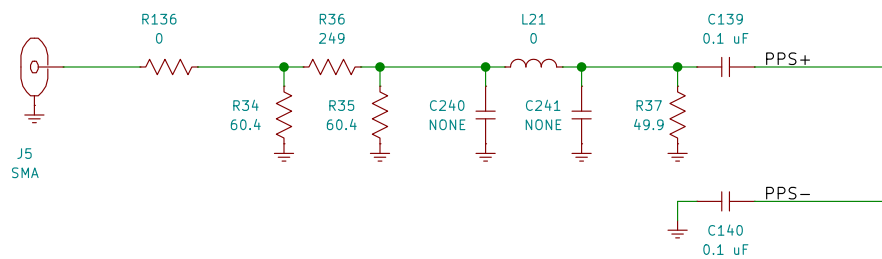
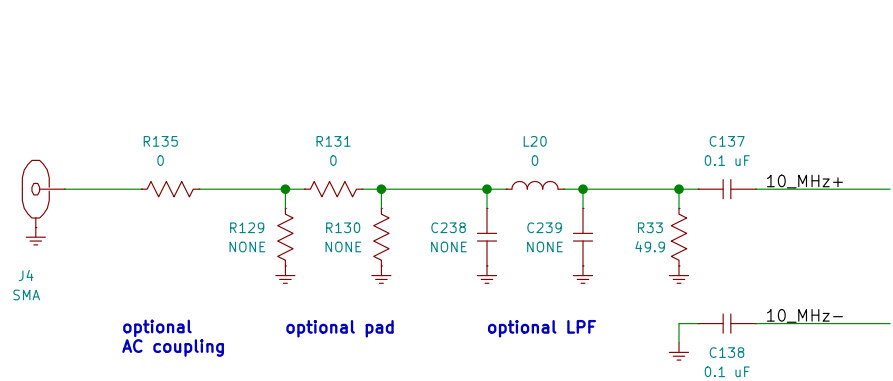
LNA

downconverter

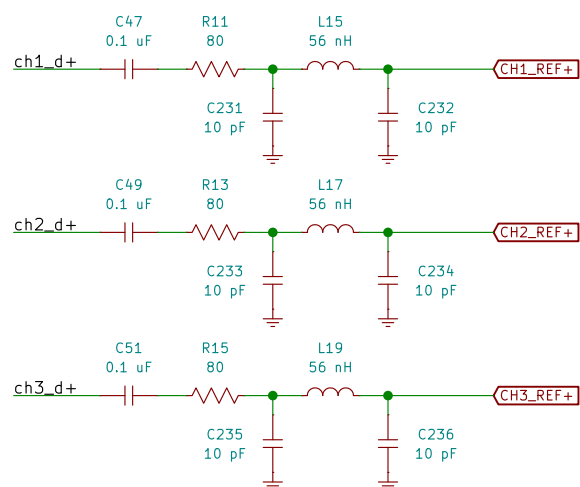
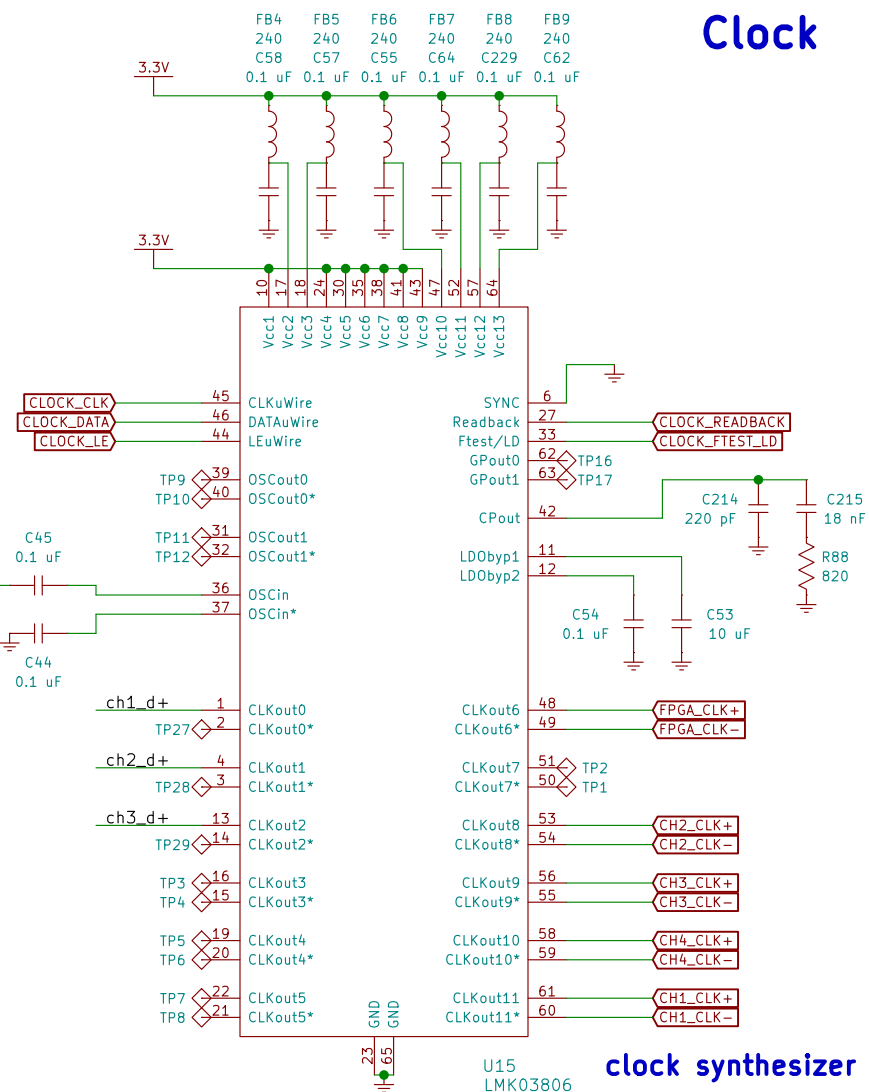
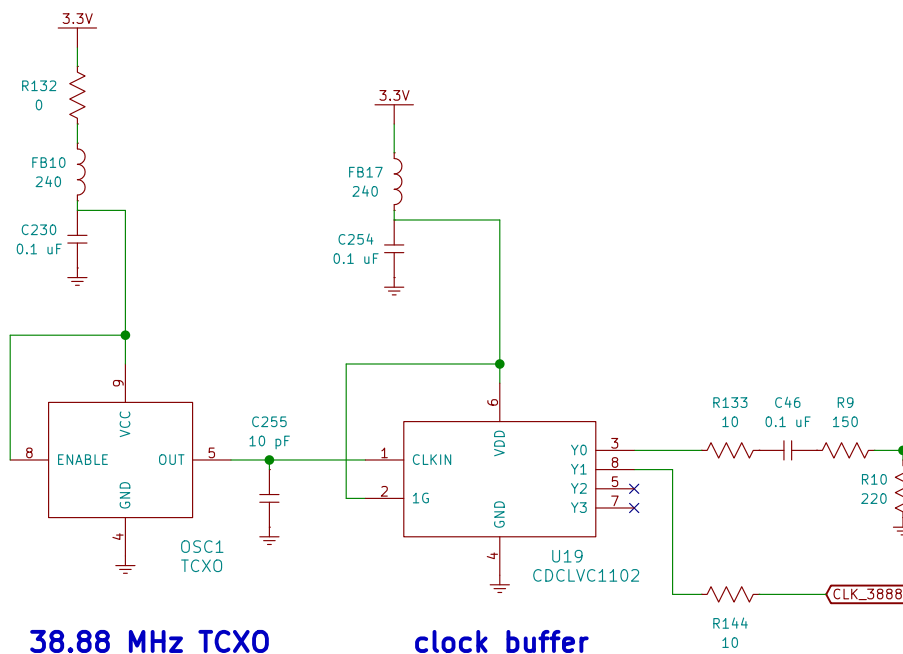
ADC



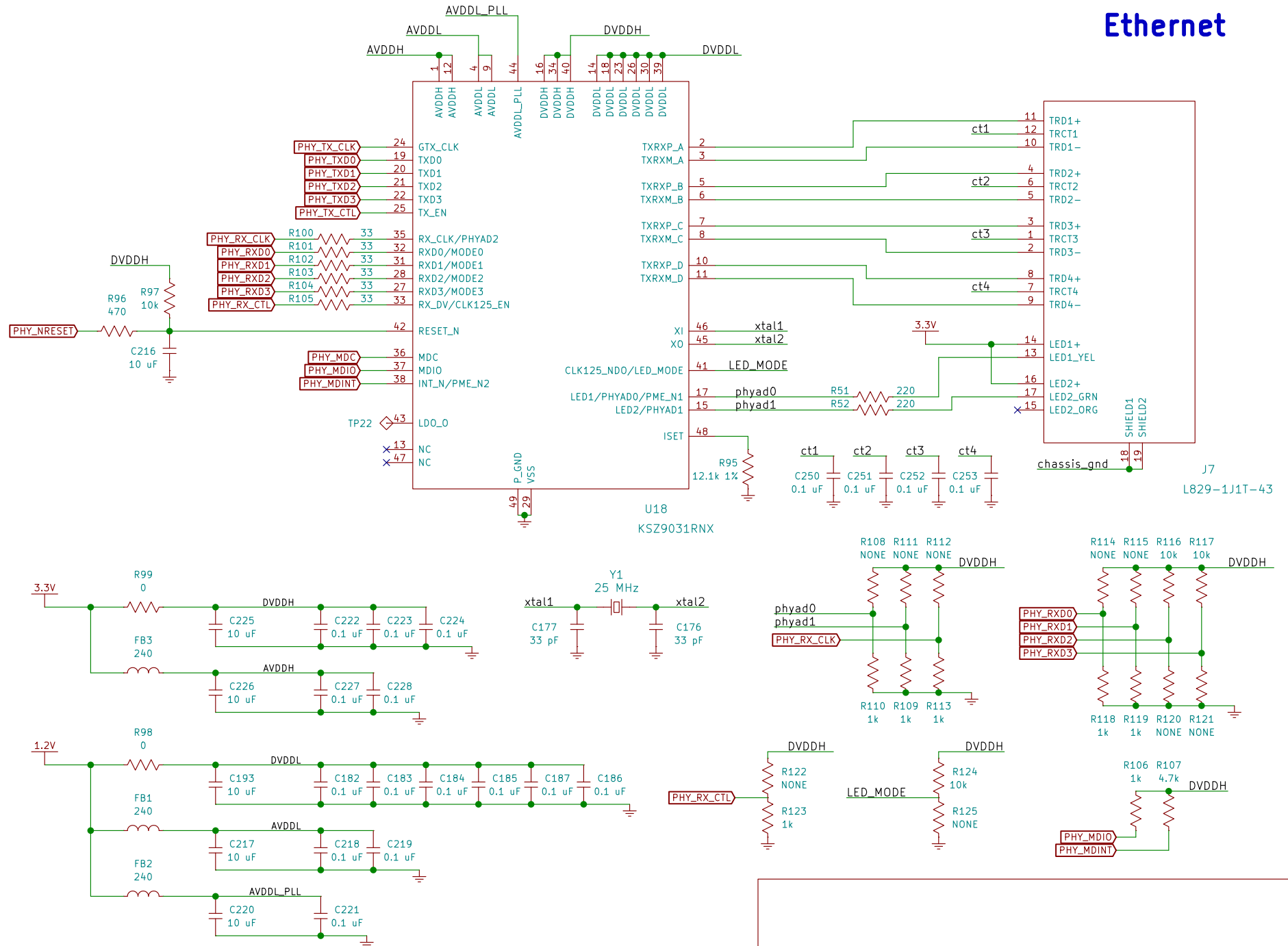
loop filter



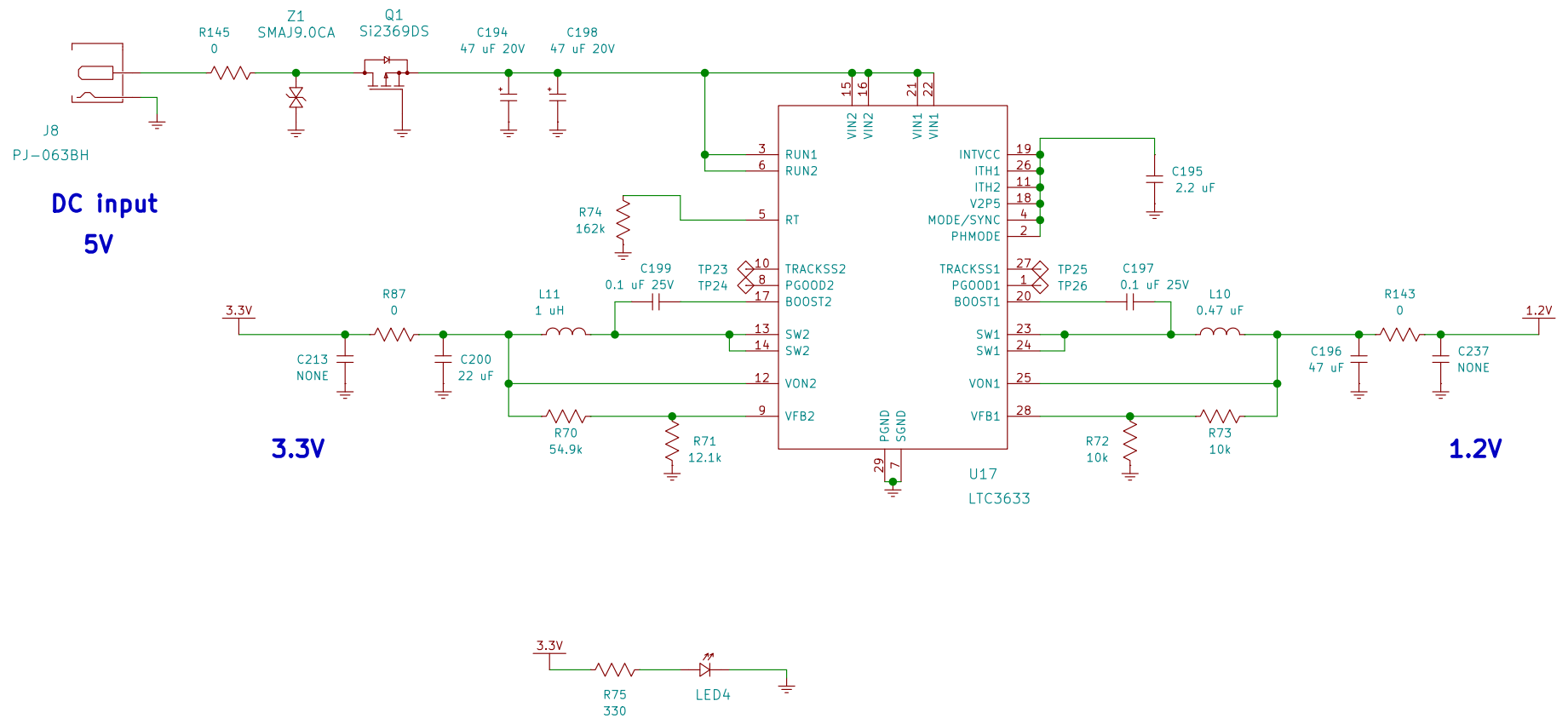
Clock



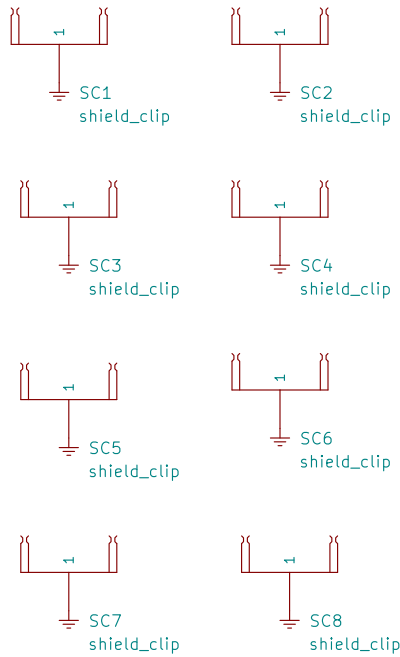
Ethernet



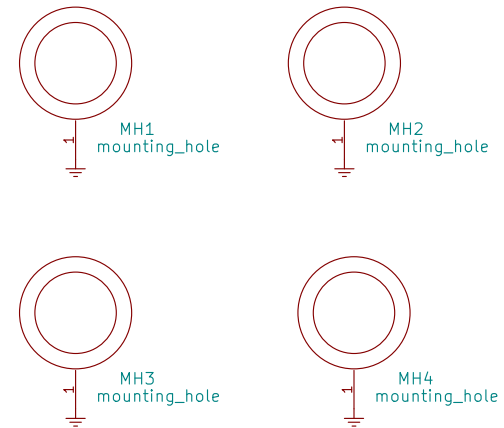
Power



Mechanical



shield clips for RF channels



mounting holes



fiducials