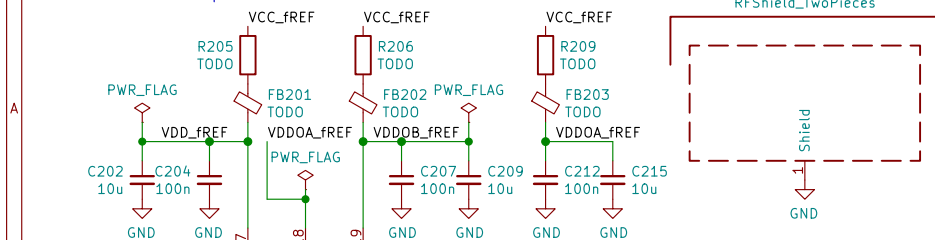
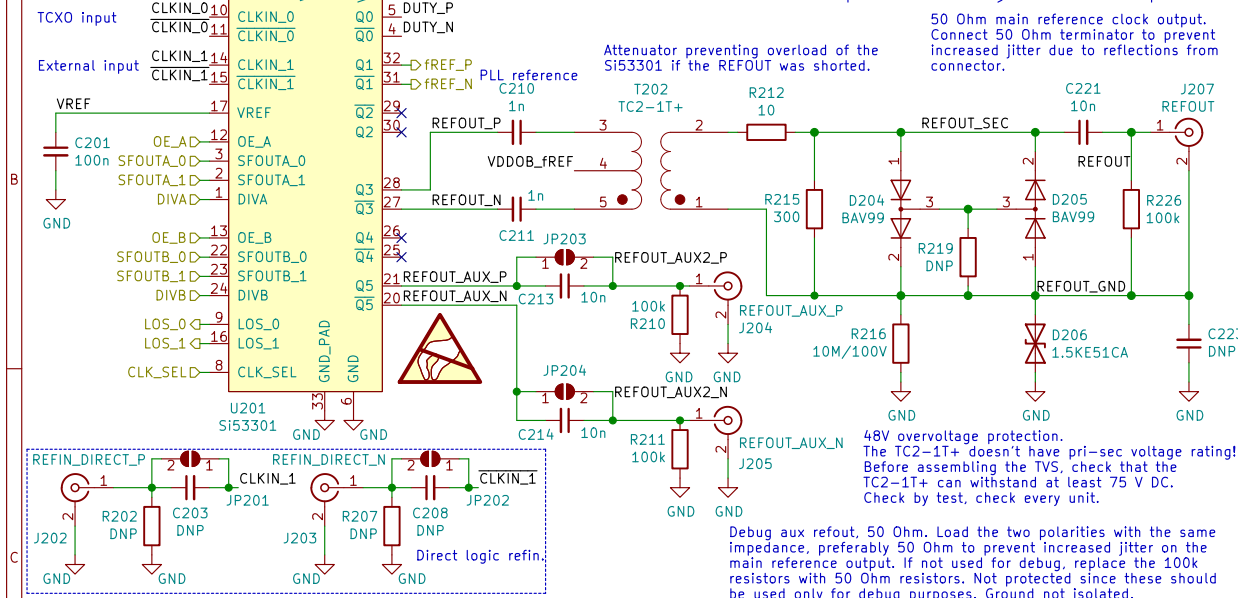


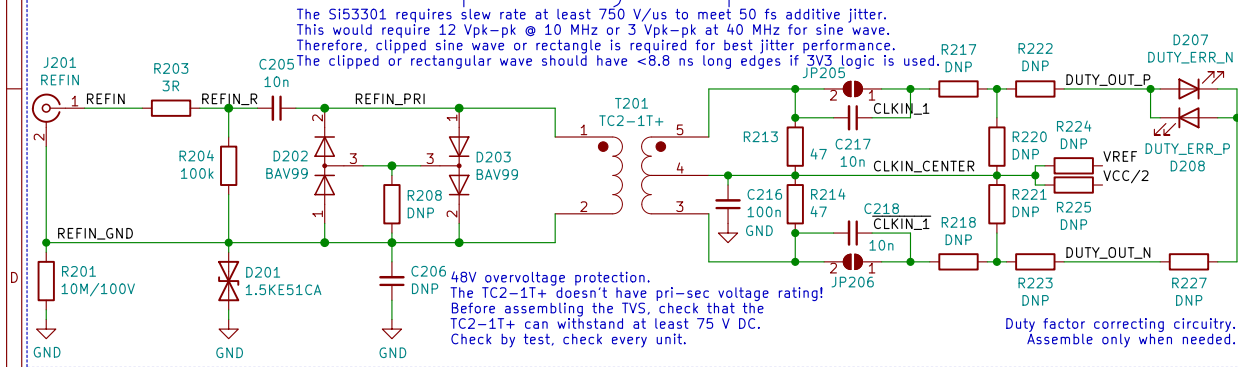
Multiplexer / buffer



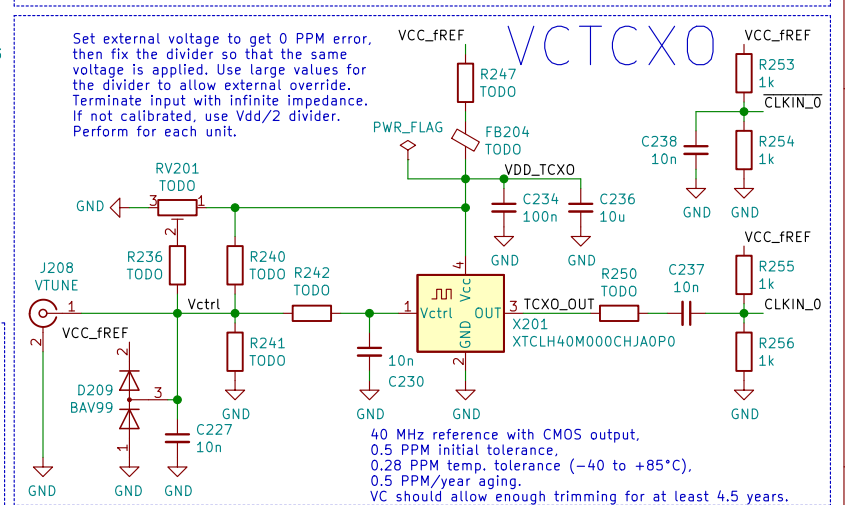
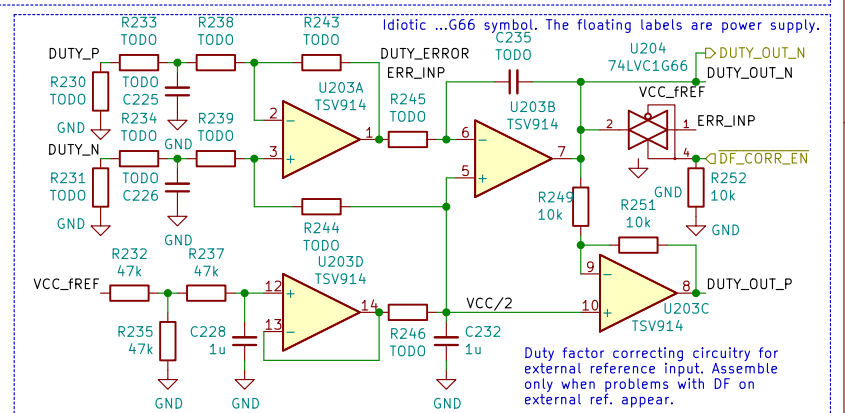
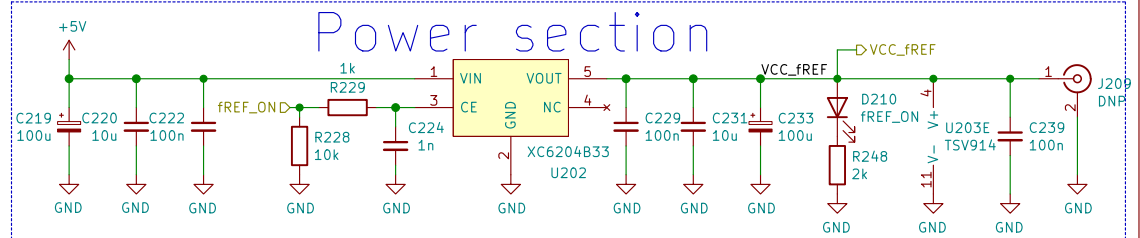
Reference frequency output



Reference frequency input



Power section



Dual channel symmetric outputs
TCXO / external input, LMX2572/LMX2592
001, 2021-02-21 22:46

Petr Polasek

Sheet: /Clock reference/
File: clock_reference.kicad_sch

Title: Generator 0.0125 - 6.4 GHz (0.02 - 9.8 GHz)

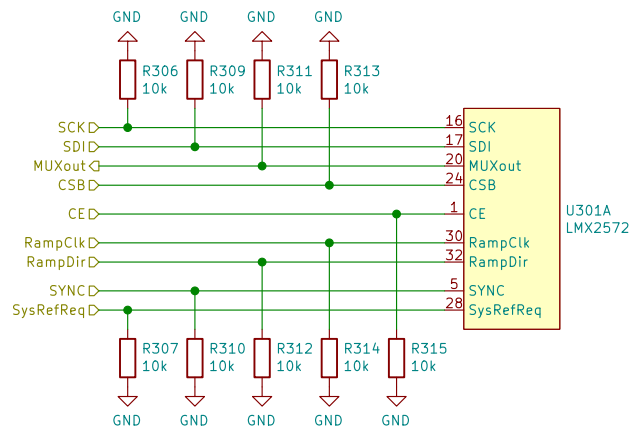
Size: A4 Date: 2021-02-21

KiCad E.D.A. kicad 5.99.0-unknown-507ca9bc73117ubuntu20.04.1

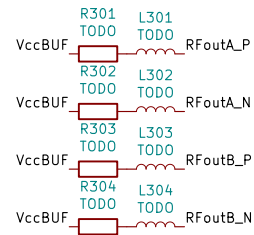
Rev: 210221-001

Id: 2/3

Communication section

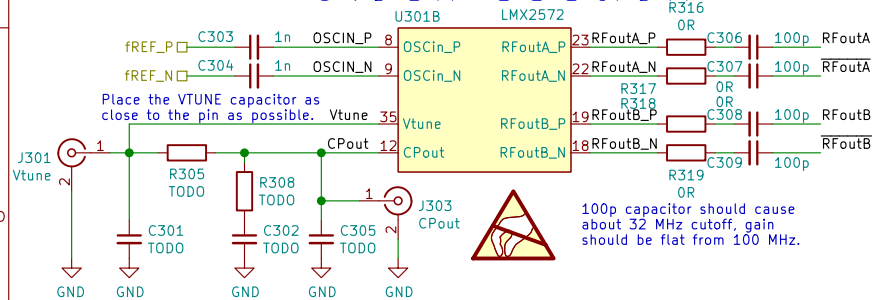


Place these pullups only in case LMX2592 is used.
Do not place them when LMX2572 is used!

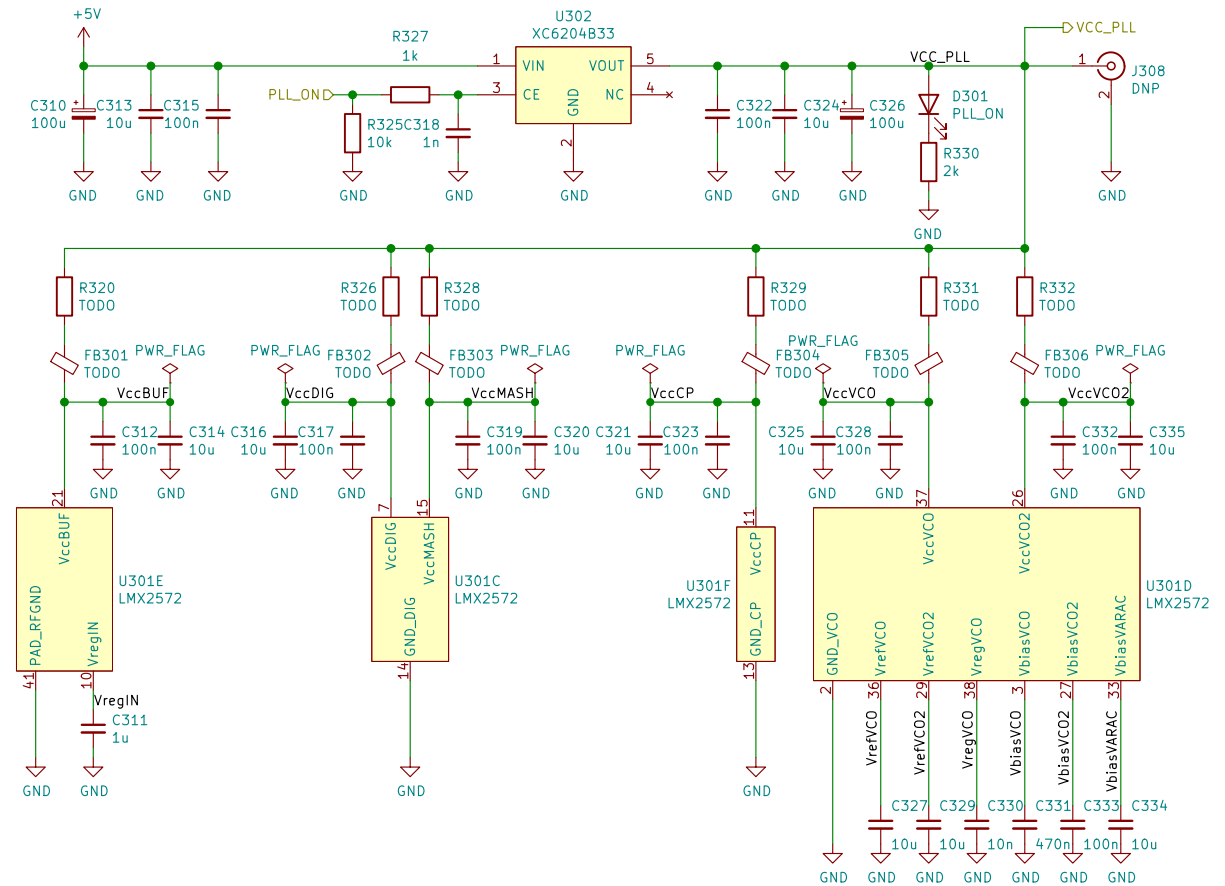


The output impedance of LMX2572 is "... just a few ohms." (citation).
The impedance should be measured and according series resistors should be placed to get 50R output. Place the resistors as close as possible to the PLL.
<https://e2e.ti.com/support/clock-and-timing/f/48/t/833789?LMX2572-LMX2572-RF-output-impedance->
For LMX2592, place 0R resistors.

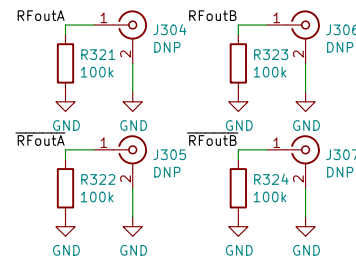
Clock section



Power section



Be careful as the outputs have no protections and can be sensitive to ESD or devices with DC offset.
Before connecting anything, first be sure to discharge any charge present on the core of the connecting cable and on the connected device!



Dual channel symmetric outputs
TCXO / external input, LMX2572/LMX2592
001, 2021-02-21 22:46

Petr Polasek

Sheet: /PLL/
File: PLL.kicad_sch

Title: Generator 0.0125 - 6.4 GHz (0.02 - 9.8 GHz)

Size: A4 Date: 2021-02-21

KiCad E.D.A. kicad 5.99.0-unknown-507ca9bc73117ubuntu20.04.1

Rev: 210221-001

Id: 3/3