

SS capacitors:  
4.7nF corresponds to a soft start of about 1ms.  
This value can be changed if we want to reduce  
the number of different components in the BOM

Buck 1:  
L: optimised for  $V_{out}=3.3V$ ,  $I_{out}=0.35A$ ,  $f_{sw}=500kHz$   
 $C_{out}$  must be  $> 0.56\mu F$  (optimised for  $dV=30mV$ )  
 $R_{lim}$ : set to max value (correspond to 1.2A)

Buck 2 has higher low-load efficiency and should  
thus be selected to provide the rail with the lesser  
load.

1.8V and 1.0V rails feed the FPGA. See with  
SP5WWP for the details on FPGA's current  
consumption

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**M17 Project**

Sheet: /Power supply/

File: pwr.kicad\_sch

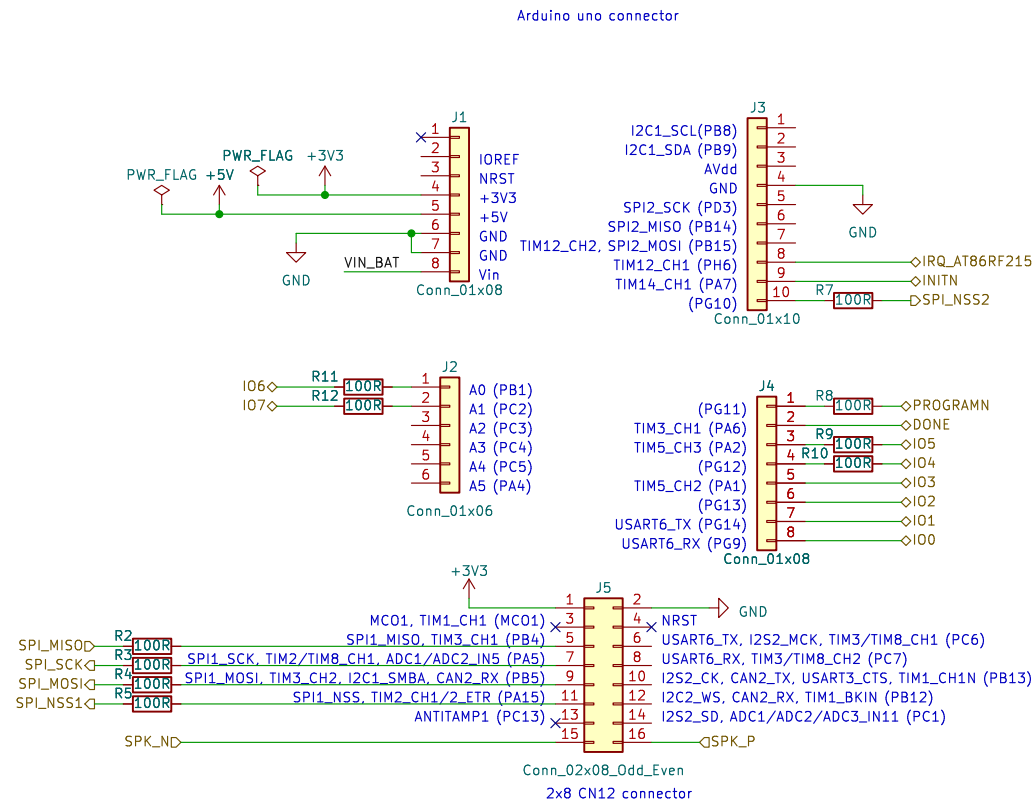
**Title: OpenHT – open source SDR handheld**

Size: A4 Date: 2023-02-17

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Id: 2/5



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**M17 Project**

Sheet: /Connectors/

File: conn.kicad\_sch

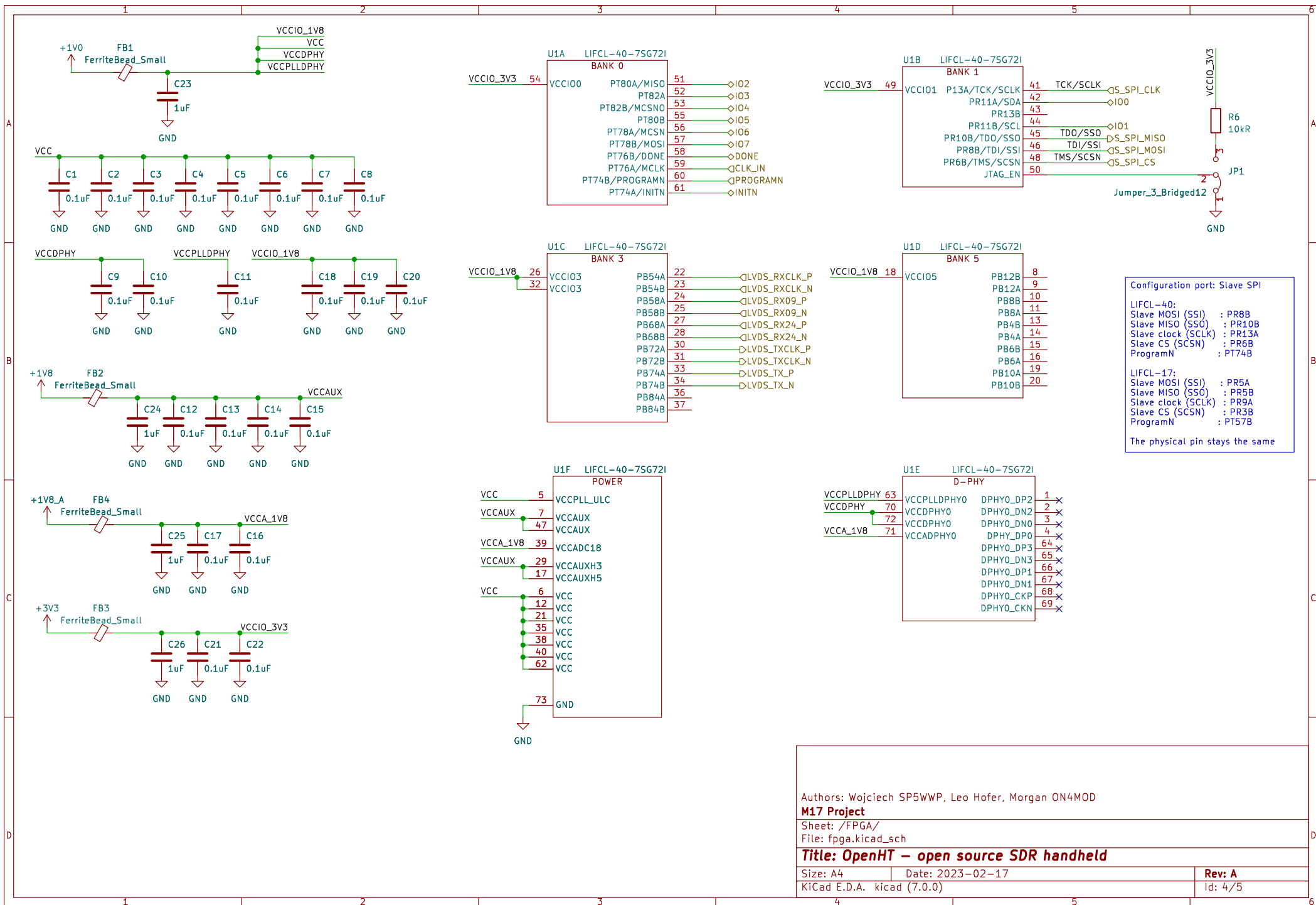
**Title: OpenHT – open source SDR handheld**

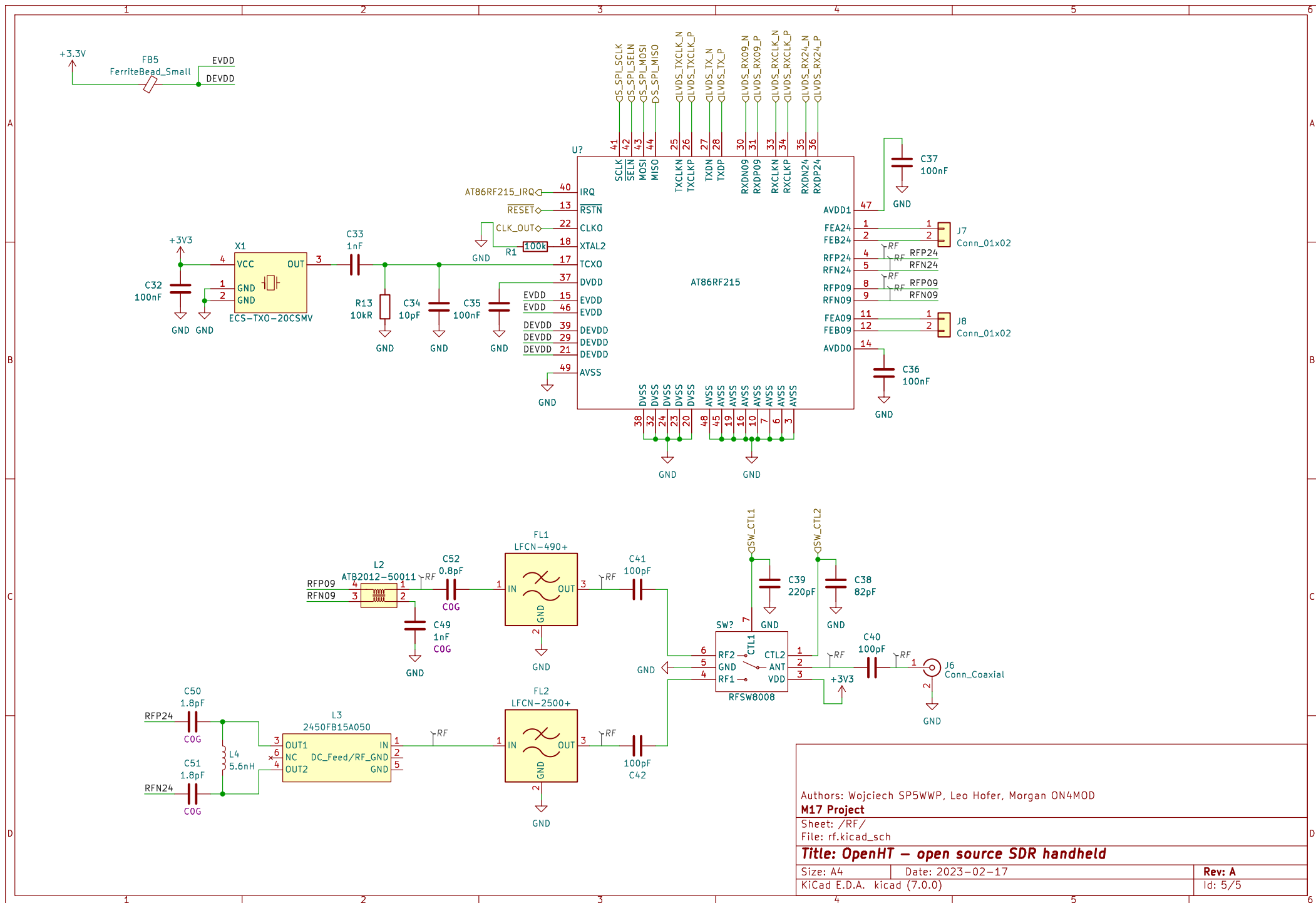
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**M17 Project**

Sheet: /RF/

File: rf.kicad\_sch

**Title: OpenHT – open source SDR handheld**

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