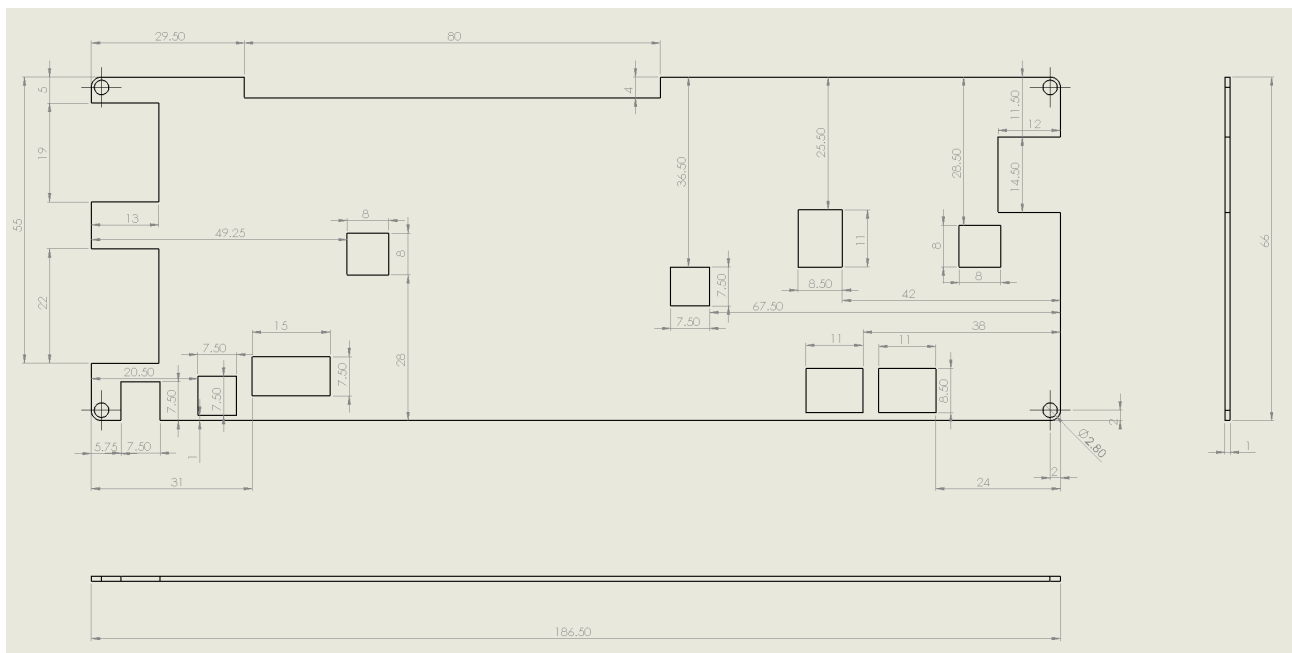


McHF shielding plate

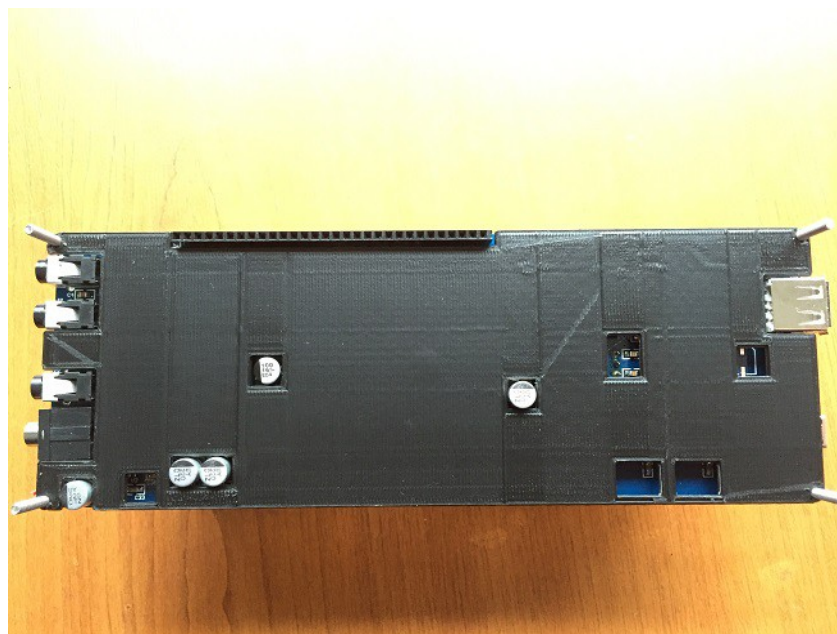
It is a very good idea to have shielding plate inserted between the UI and RF boards of the mcHF. This allows to greatly reduce noise entering the very sensitive audio stage, also protect digital circuits on the UI board from high energy RF fields affecting it's operation.

The .stl file describing such shielding plate is provided. To manufacture it there are two options – 3D printing with plastic and then attaching adhesive copper sheet or CNC machining an aluminium sheet. The latter option is preferred, but is time taking and requires great preparation and care. In either case the STL file needs to be processed into g-code (either for printing or machining) via specialized software, for example ReplicatorG Salifish.

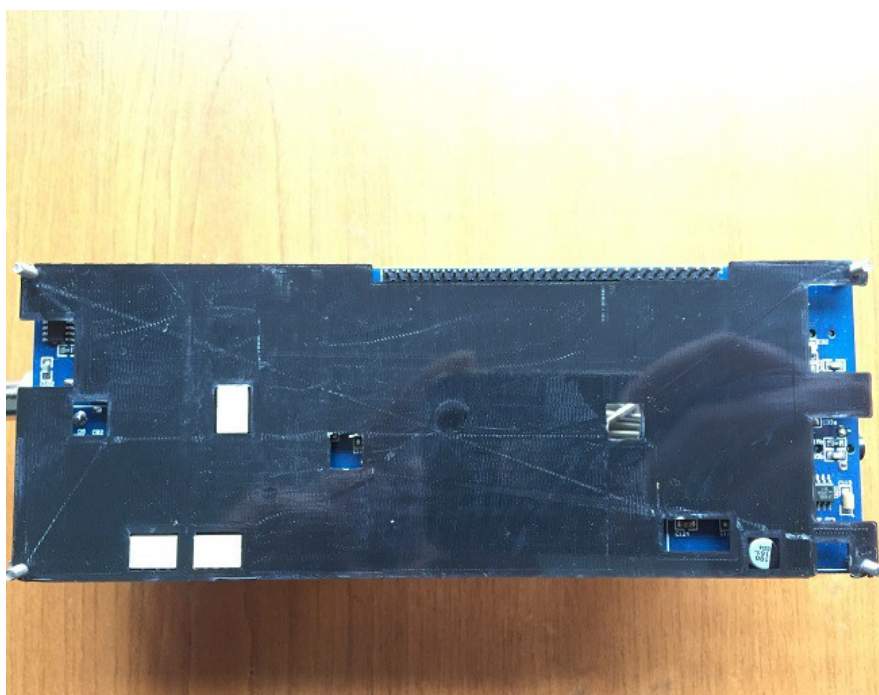


Let's see how to make one, using cheap 3D printer and bit of copper sheet.

Plate fitting



After printing, make sure the plate fits on both boards.



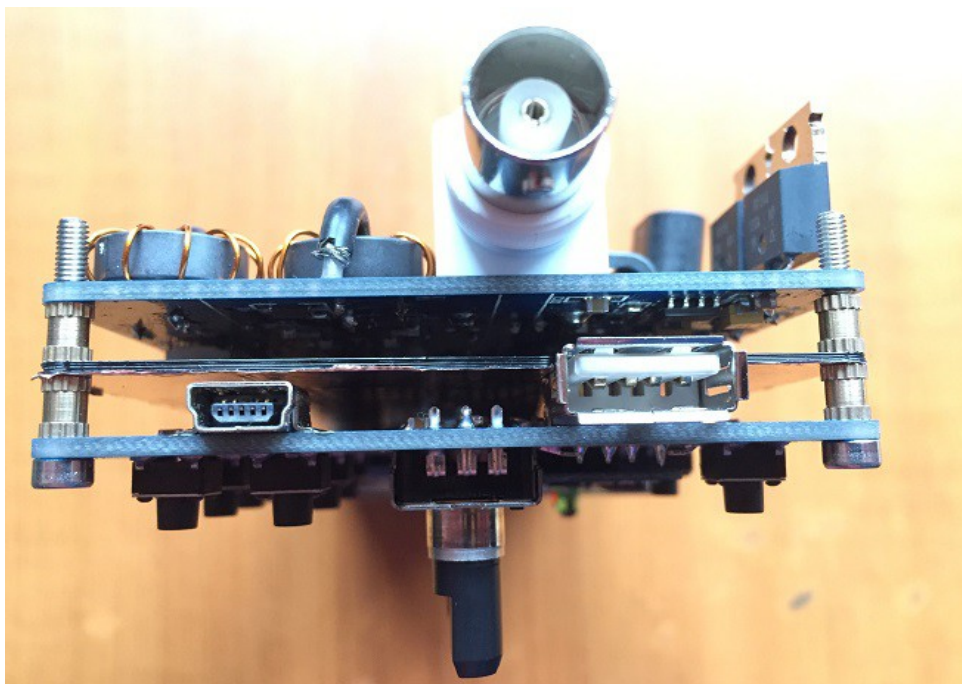
Next step is to remove the protective paper from the foil and glue the plate to the foil (attach the shiny side of the plate)



Carefully remove excess foil around caps and connectors, be careful around the audio connectors on the UI board, those could be easily shorted as the exposed pads are the L/R signals, not GND!



Installation



Installation requires 4x bolts M2.5x20mm, and eight M2.5x5mm knurled spacers. The plate sits in the middle.

