Laboratory of Electronics
Antennas and Telecommunications

UFL Connector tutorial

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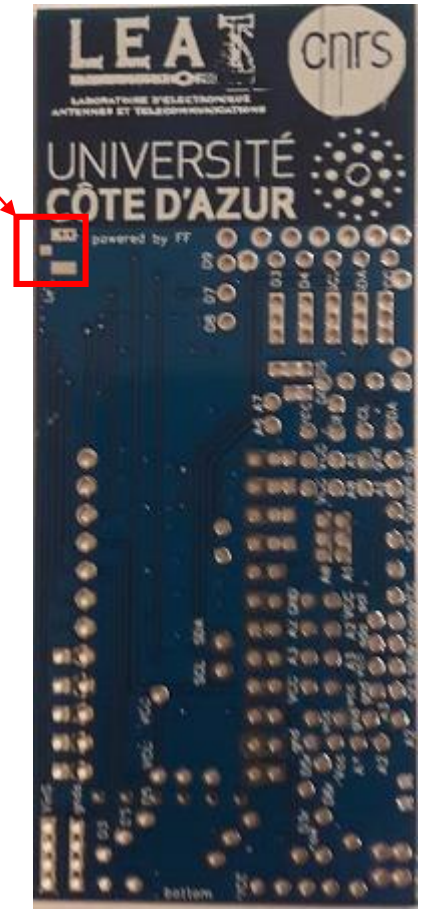
Adding a RF connector

- You may need to add a connector
  - to connect you board to a spectrum analyzer
  - to connect an external antenna
- A UFL connector can be soldered on the bottom part of the board
  - Compare to electronic components, antenna is strongly influenced by its surrounding environment
- If you just solder the connector, the UFL will be in shunt with the existing « UCA » antenna
  - If you leave the UFL unconnected, your board will work as usual (the UFL effect is negligeable)
  - If you connect a load (antenna or spectrum) on the UFL, rougly half of the power will be captured by the UFL, and hal part of the power will be radiated (and a part of the power will be reflected to the source)



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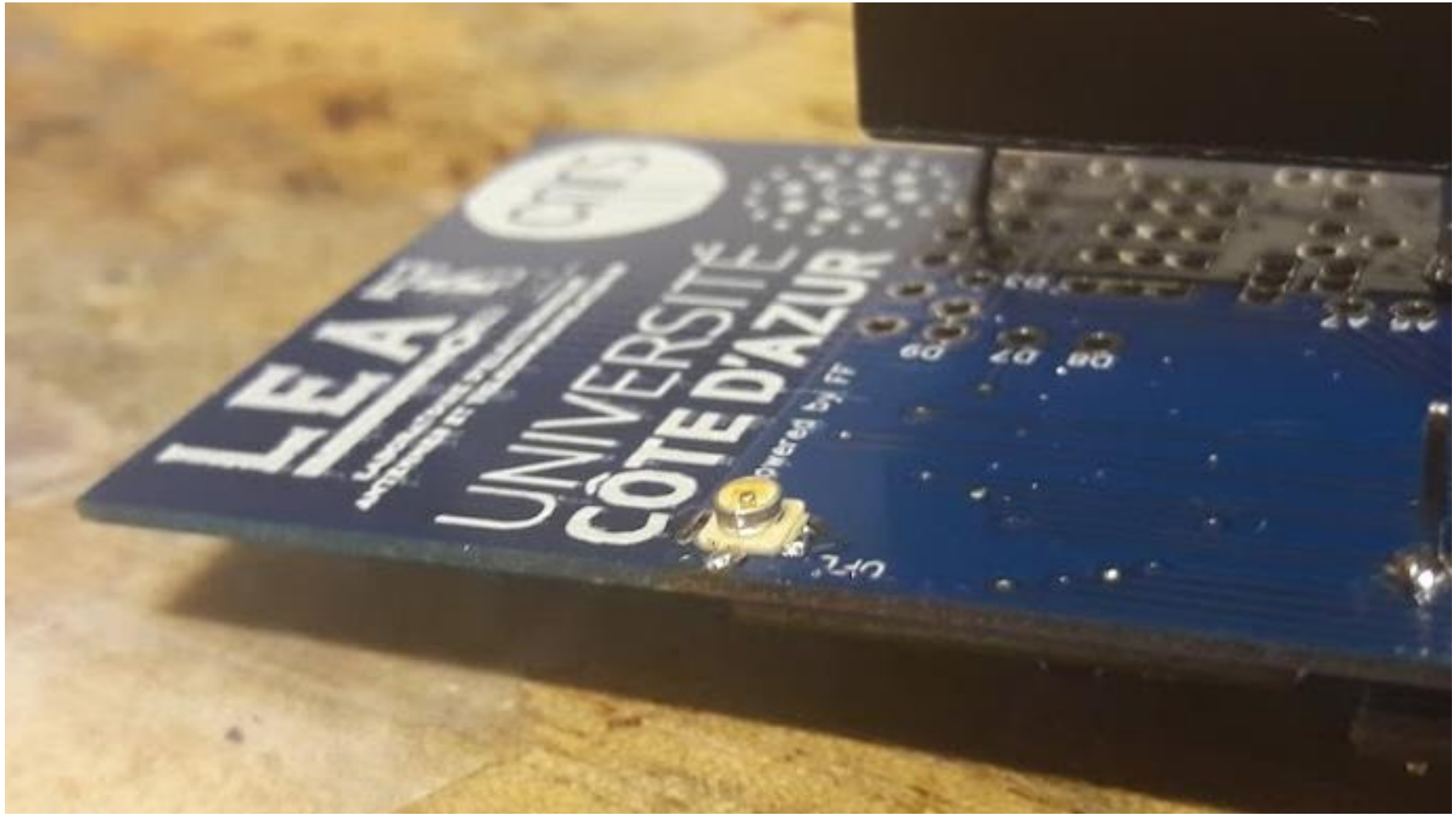

Adding a RF connector

- To have 100% of the power on the UFL connector
  - You need to cut the antenna feeding
  - If you do it be caution, you will be able to solder it again