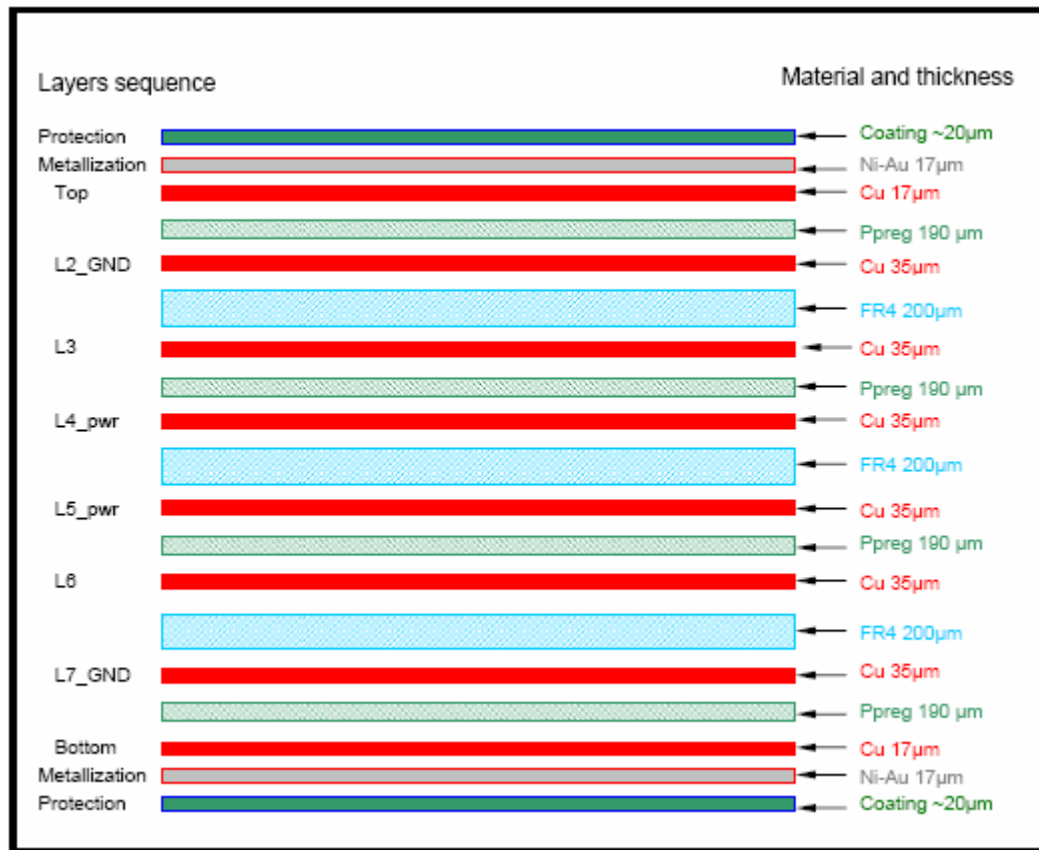


ALICE TPC RCU Printed-Circuit Board

The dimensions of the ALICE TPC RCU PCB are: W=230mm, H=135mm and T=1.68mm.

The PCB has to be manufactured in class 6. As sketched in the picture below, the PCB stack-up shows 8 layers of copper interleaved with Halogen free laminates with different thickness. 4 layers are for the routing of the signals and the other 4 are dedicated to the distribution of the supply voltages (2 ground layers and 2 supply layers). The 4 power layers have a similar geometry.



Cross section of the RCU printed circuit board. The PCB has a thickness of 1678 μ m and it is the manufactured in class 6. The 8 layers of copper are interleaved with different Halogen -free dielectric materials. Note that some of the signal traces have to be implemented respecting characteristic impedance rules.
