



Manufacturing specifications for the FMC_ADC_130M hardware

April 2016

Brazilian Synchrotron Light Laboratory Beam Diagnostics Group (DIG)

PCB Fabrication Specification

Design references						
Name	FMC_ADC_130M	Date:	04/27/2015			
File name						
Designers	Rafael Antonio Baron	Fernando Cambauva				
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E-mail		fernando.santanna@Inls.br				
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Mechanical characteristics				
77 x 69 mm				
1.4 mm				
8				
3mils				
FR-4				
FR-4				
Finish Copper				
35 μm				
25 μm				
35 μm				
35 μm				
Board finishing requirements				
Red for prototype and Blue for production				
White				
White				
ENIG – Electroless Nickel / Immersion Gold according to IPC-4552				
Ni: 3 μm min, 6 μm máx. Au: 0.05 μm min, 0.125 μm máx				

Additional Information						
Impedance test	No					
Packaging requirements	No					
Documentation to be delivered	No					
Additional control quality	No					
requirements						

		Board Stackup Information					
	Name:		Laminate/pre-	Thickness			
			preg	(mm/mils)			
Layer 1	Top Layer	RF signals					
Layer 2	GND1	RF Ground Plane	FR-4	0.11mm			
Layer 3	L3	Digital signals	FR-4	0.1mm			
Layer 4	GND2	RF Ground Plane + Digital Ground plane	FR-4	0.29mm			
Layer 5	L5	Digital signals	FR-4	0.1mm			
Layer 6	GND3	RF Ground Plane + Digital Ground plane	FR-4	0.29mm			
Layer 7	Power	Power	FR-4	0.1mm			
Layer 8	Bottom Layer	Digital signals	FR-4	0.11mm			
Total			Total	1.481 mm			

