E157 Lecture 25 Day Plan

Any questions before quiz

Quiz + Team Quiz + Talk through solution

Guest Lecturer Wednesday

Review board designs and data below

Gradebook cleanup if time

0.062” 4 Layer

One Sheet 2113 & One Sheet 2116

0.039” Core

One Sheet 2113 & One Sheet 2116

1 Oz Cu
All Layers

(note 1oz Cu is 1.4mil. Implies 2113+2116 is 10mil. Really: 2113 is ~2.9mil and 2116 is ~4.7)
Features: RO4350B substrate, SMA keepouts, exposed copper traces, tapered SMA interfaces

Figure 9: (a) Common to IF Transmission, (b) Common to LO Transmission
ROGERS stackup w/ custom SMA landing pattern

Figure 9. 3D render of Fall Prototype board showing functional blocks

Figure 11. S21 of Fall Prototype trace overlaid with S21 of Tx line on Signal Microwave sample board