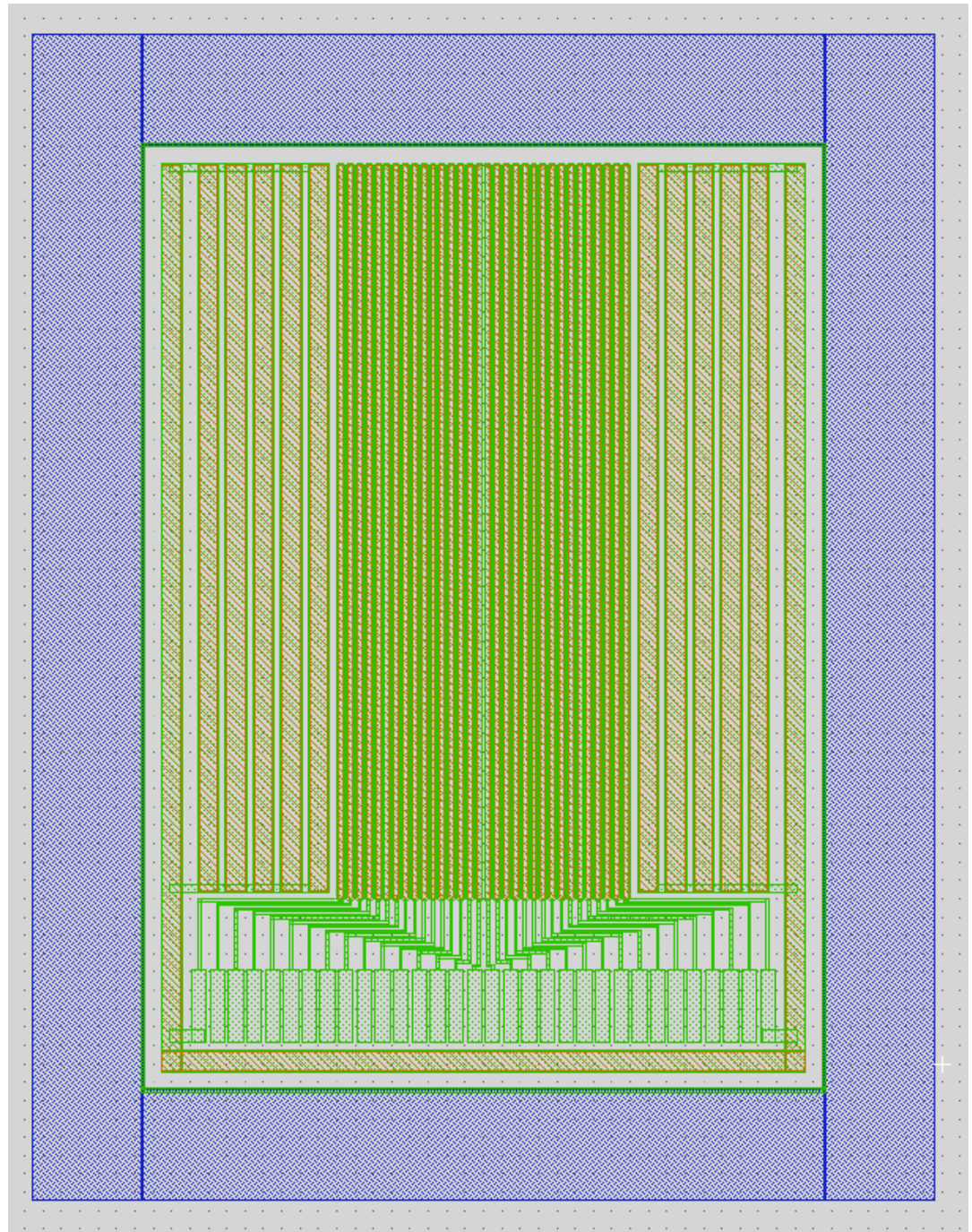
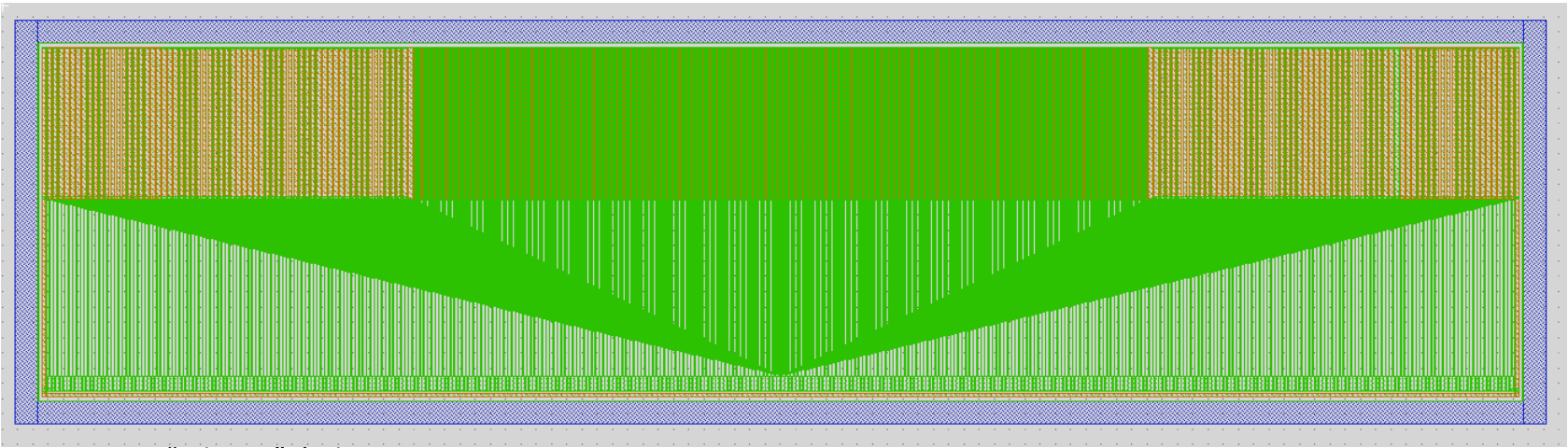


Preliminary Layout on Active Edge strip Detector: Rev2

- Completed guard ring
- Changed pad length to 200um
- Added extra-pad-distance version for stacked sensors
- Metal Capacitance calcs

In this example, only 32 strips generated to show detail





“Primary” design:

- 384 Strips
- strips are 2mm long
- Strip pitch = 25 μ m, pad pitch=50 μ m
- Metal interconnect pitch = 12 μ m (7 μ m line)
- Total device dimensions: 19.5mm x 4.7mm
- Imaging region: 9.55mm

Metal capacitance

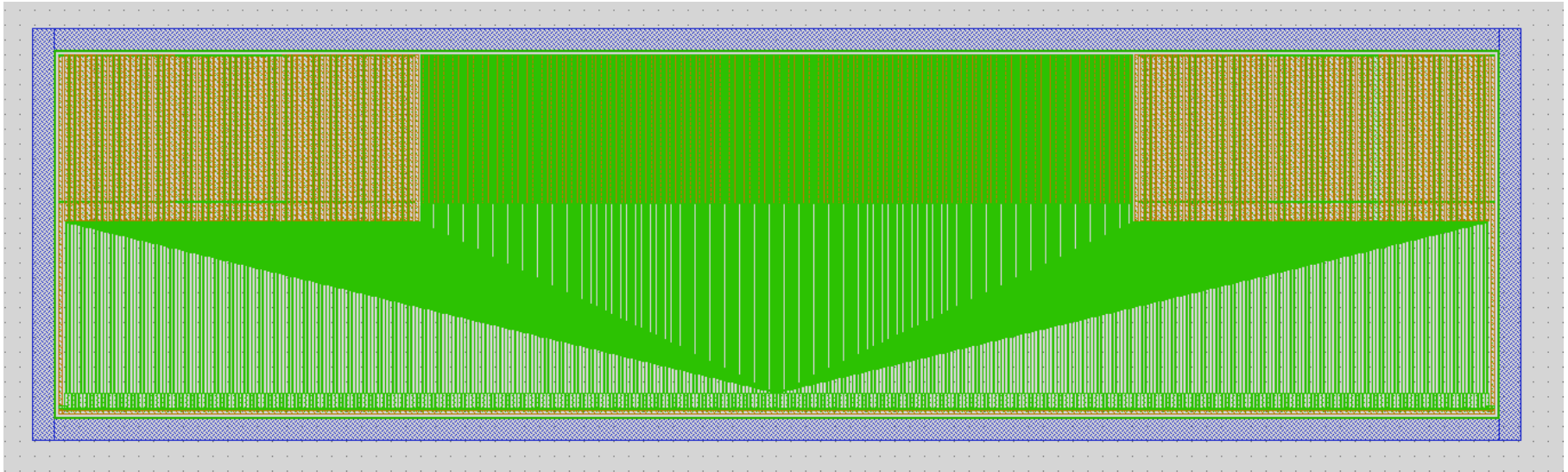
Assume 5000Å field oxide

Vertical line: 1.1pF

Horizontal line: 0pF-4.6pF

Pad: 0.55pF

Total per channel: 1.7pF-6.3pF



Same as above, but with pad offset for stacking. Offset = 250 μ m