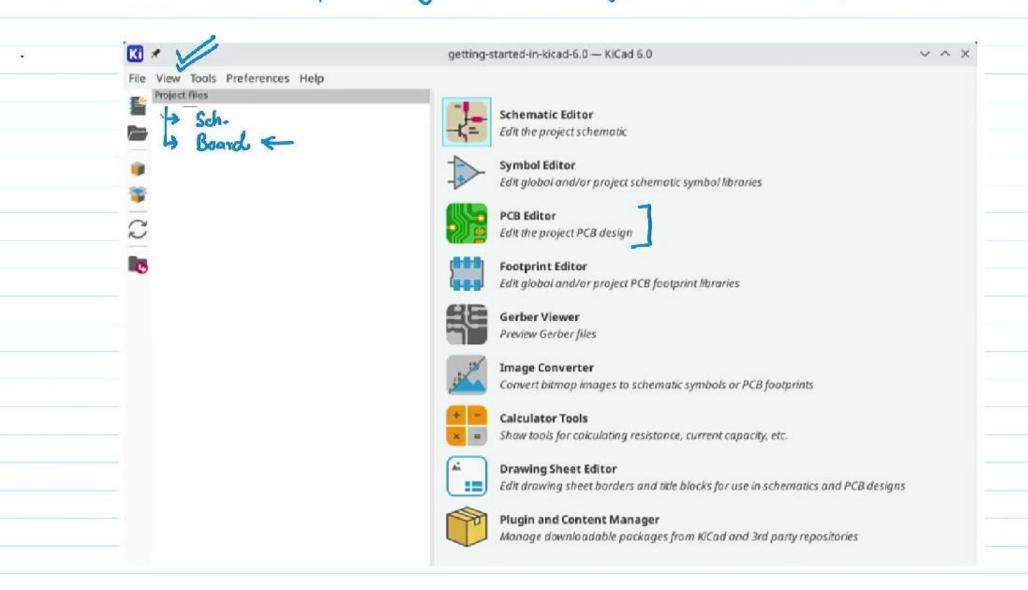
Circuit Board:

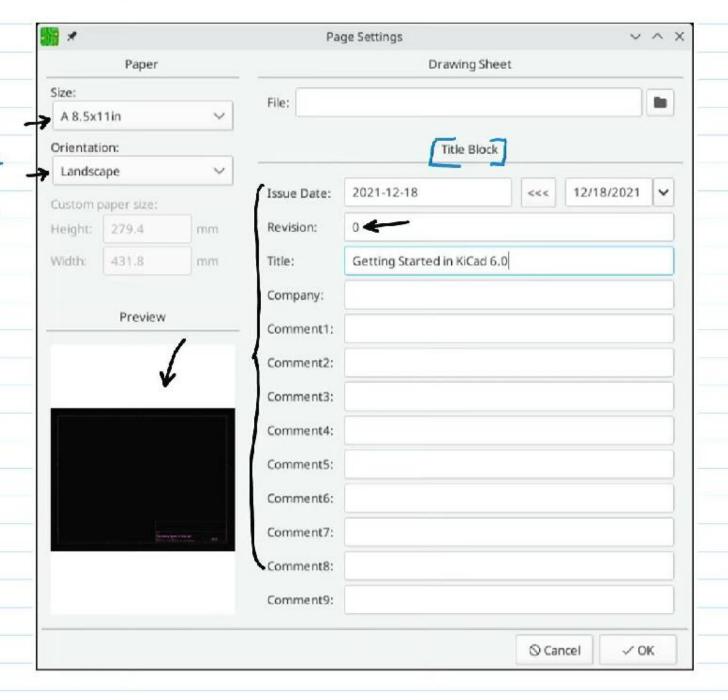
With the schematic completed, go back to Project window and open the PCB Editor.



Board Setup and Stack-up:

Before designing the board, set the bage size and add information to the little block.

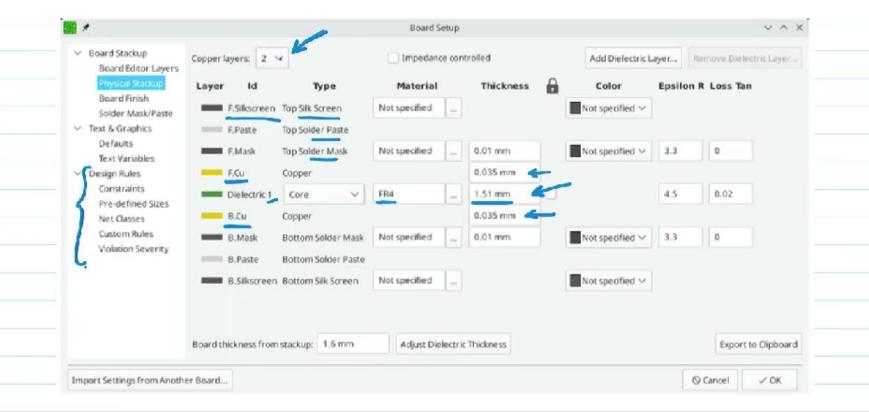
File -> Page settings.





Very important settings.

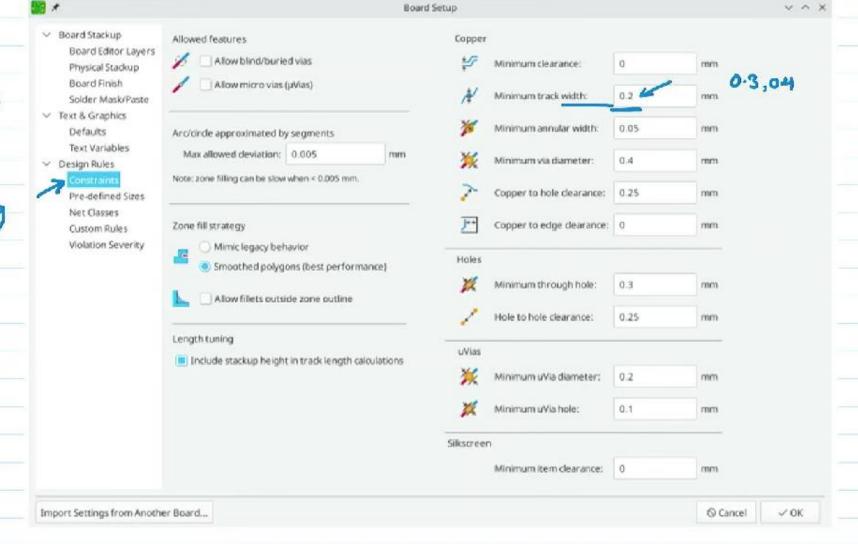
What copper and dielectric layers PCB will have and their thickness.



Design Rules:

Design Rules -> Constraints.

The settings on this page specify the overriding design rules for everything in the board design.





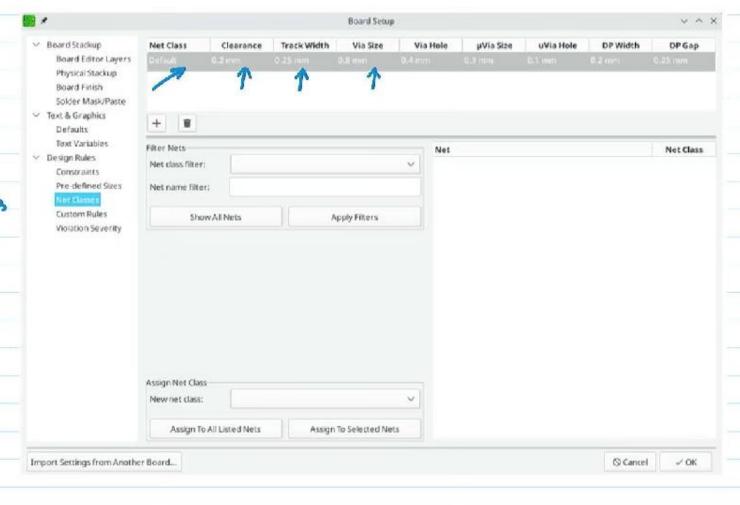
Design rules -> Net classes.

- The net class is a set of

design rules associated with a specific group of nets.

This page lists the design rules for each net class in the design and allows assigning nets to each net class.

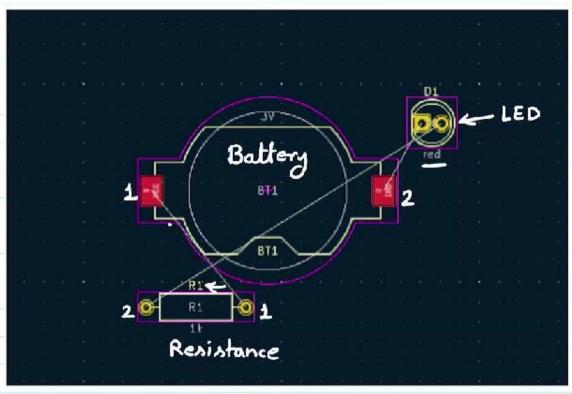




Import Changes from Schematic:

Toals -> Updale PCB from schematic.



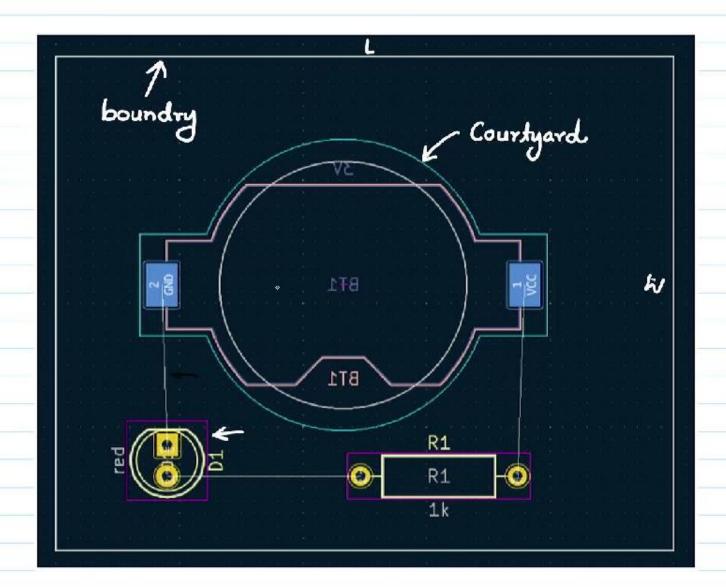


Drawing a board outline: Click on Edge. cuts in the layers tob and draw the PCB boundry. Layers Objects Nets F.Cu B.Cu F.Adhesive B.Adhesive F.Paste B.Paste M F.Silkscreen 0 B.Silkscreen F.Mask many types of shapes B.Mask User.Drawings designed. User.Comments User.Eco1 User.Eco2 Contract Edge Cuts Margin F.Courtyard

Place Footprints:

- -> Almost all components have a "Courtyard".
- -> These countyards should not intersect.

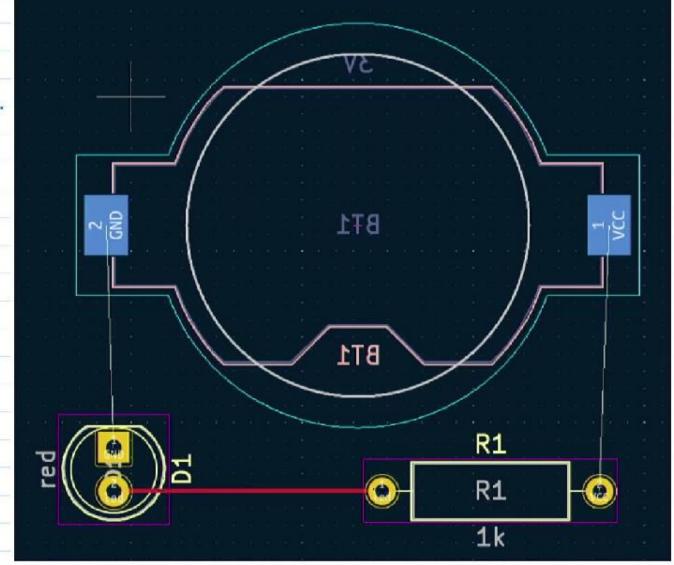




Routing Tracks:

we connect the foods with Copper trace.

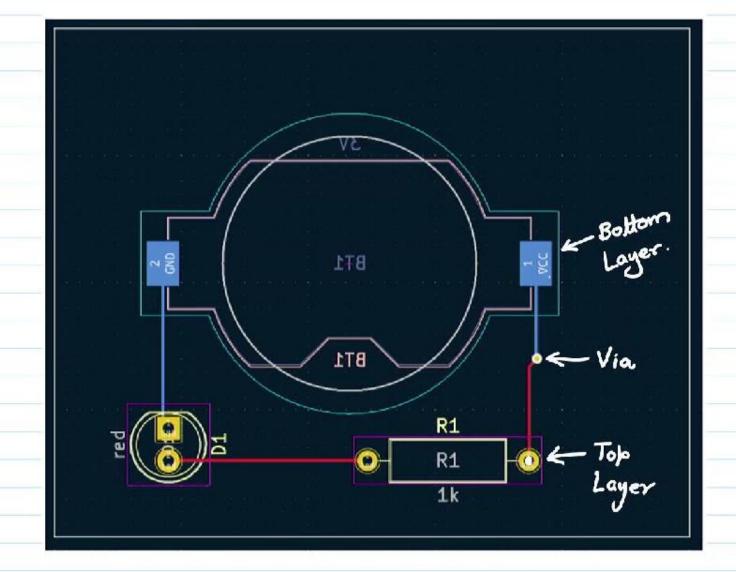
→ Change the active layer to F.Cu
in the layer tab.





Routing tracks:

Notice that the active layer automatically changed from F.Cu to B.Cu.

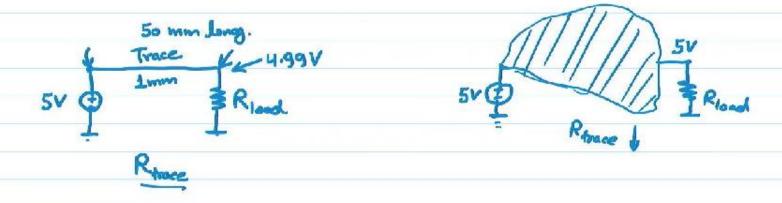




Placing Copper Zones:

Copper zones are often used for ground and power connections became they provide lower impedance path compared to traces.

"Add a filled zone" Button.

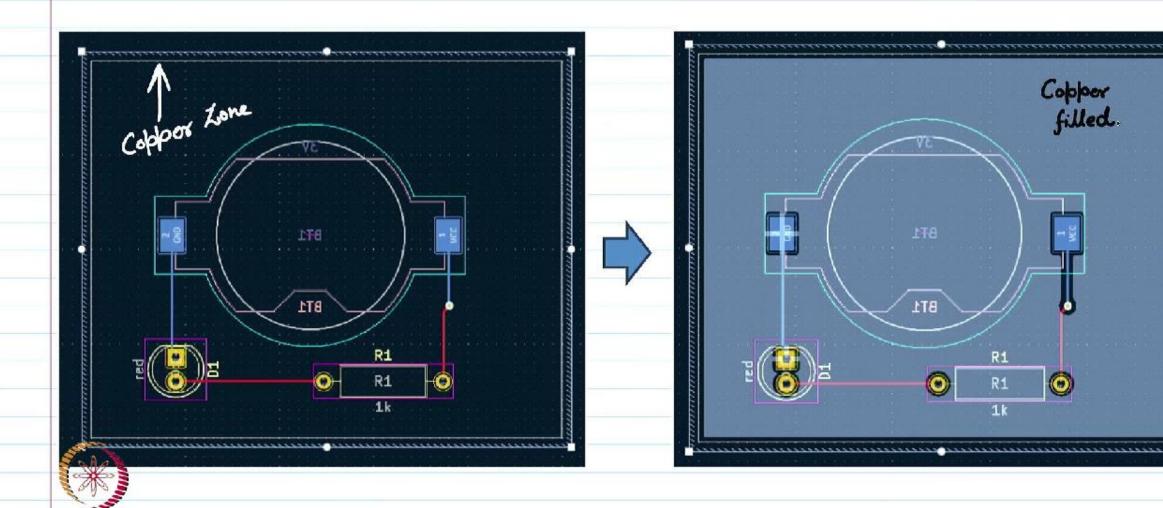




Placing the Copper Zone:

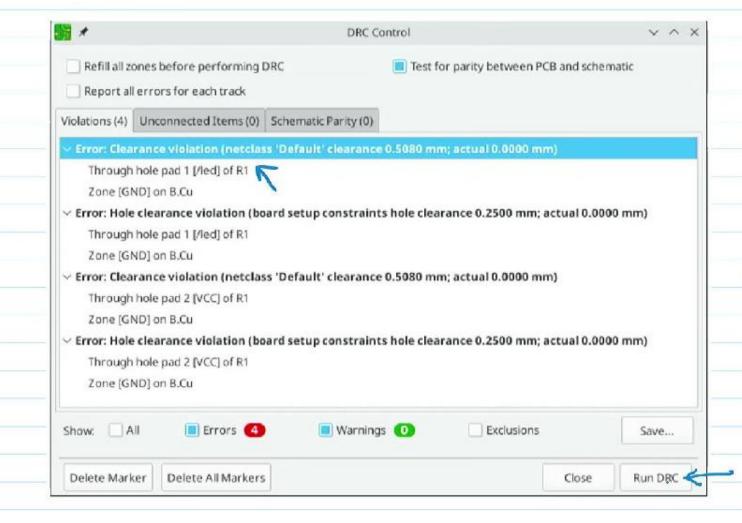
Edit - Fill all Zones.

NPTEL



Design Rule Check (DRC):

Inspect -> Design Rule Checker





Fabrication Output:

Generate drill file.

