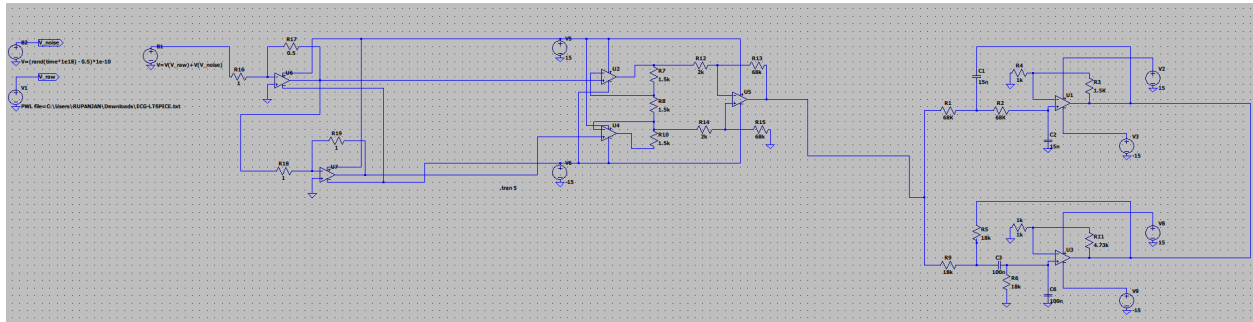
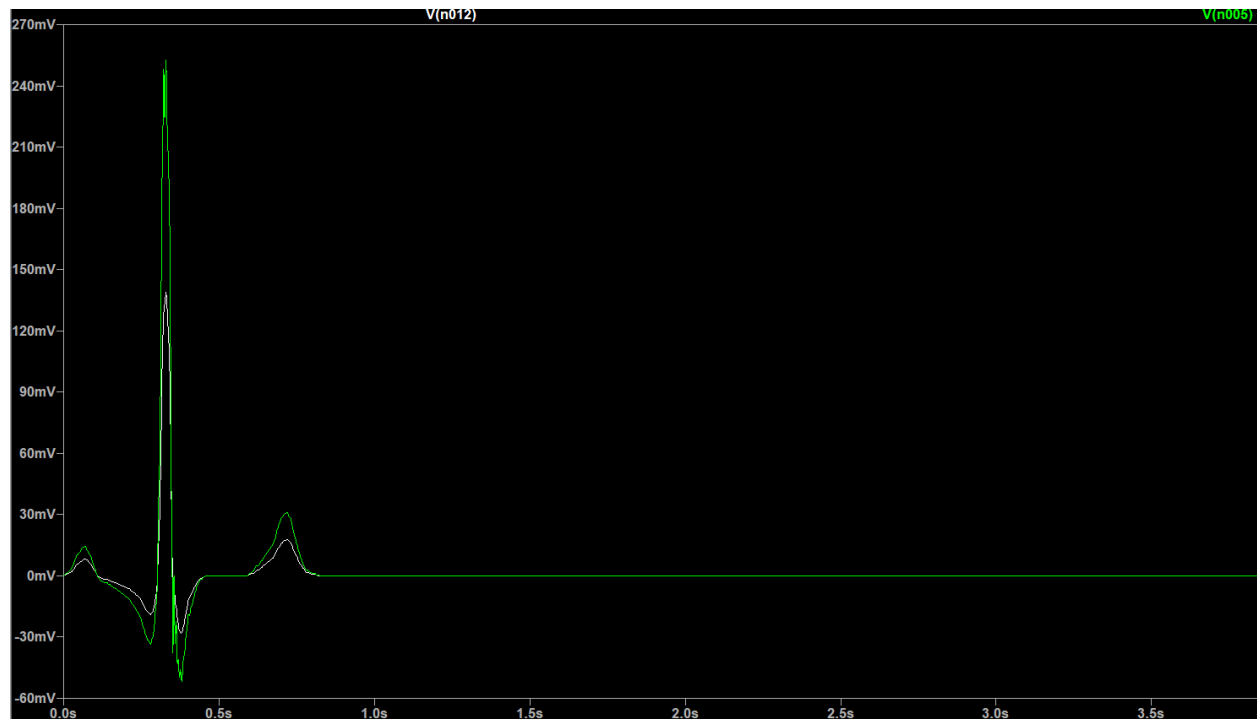


Sonagiri Thoshith Kautilya 23110316



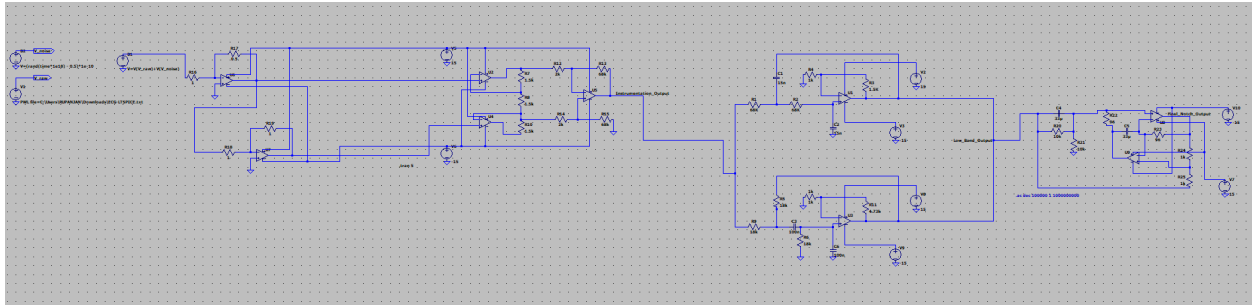
Operations performed(white noise addition, instrumentation, low pass and band pass implementation)



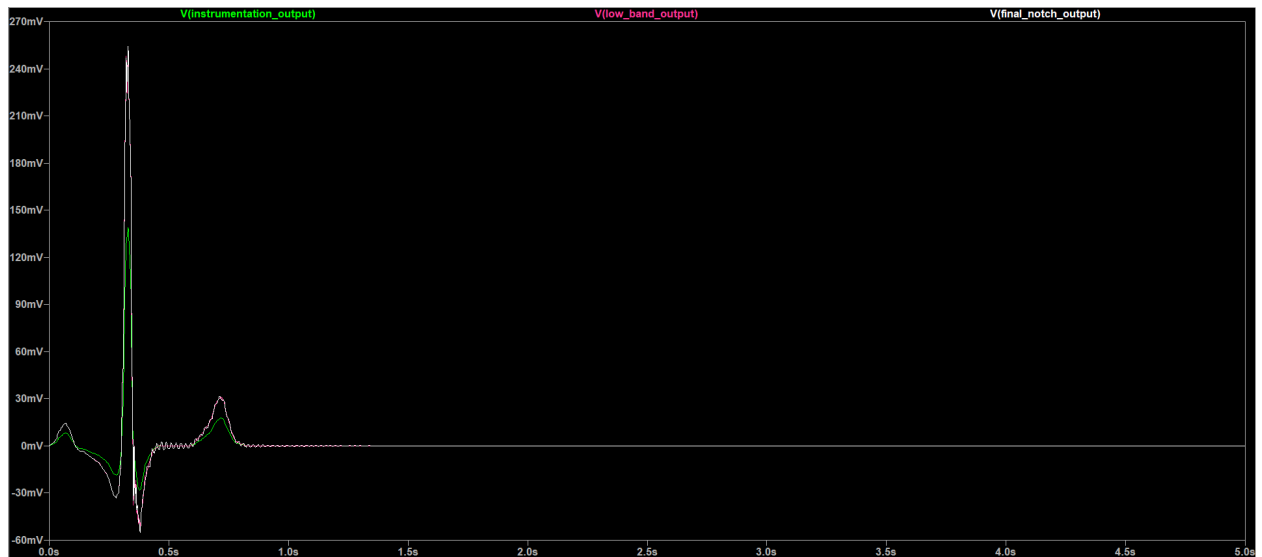
White - Raw Output

Observations:

- 1) Significantly Amplifies the very low amplitude signal
- 2) Attention is given to important regions such as the QRS, P and T complexes as in those regions even minor disruptions are captured which can be critical for diagnosis

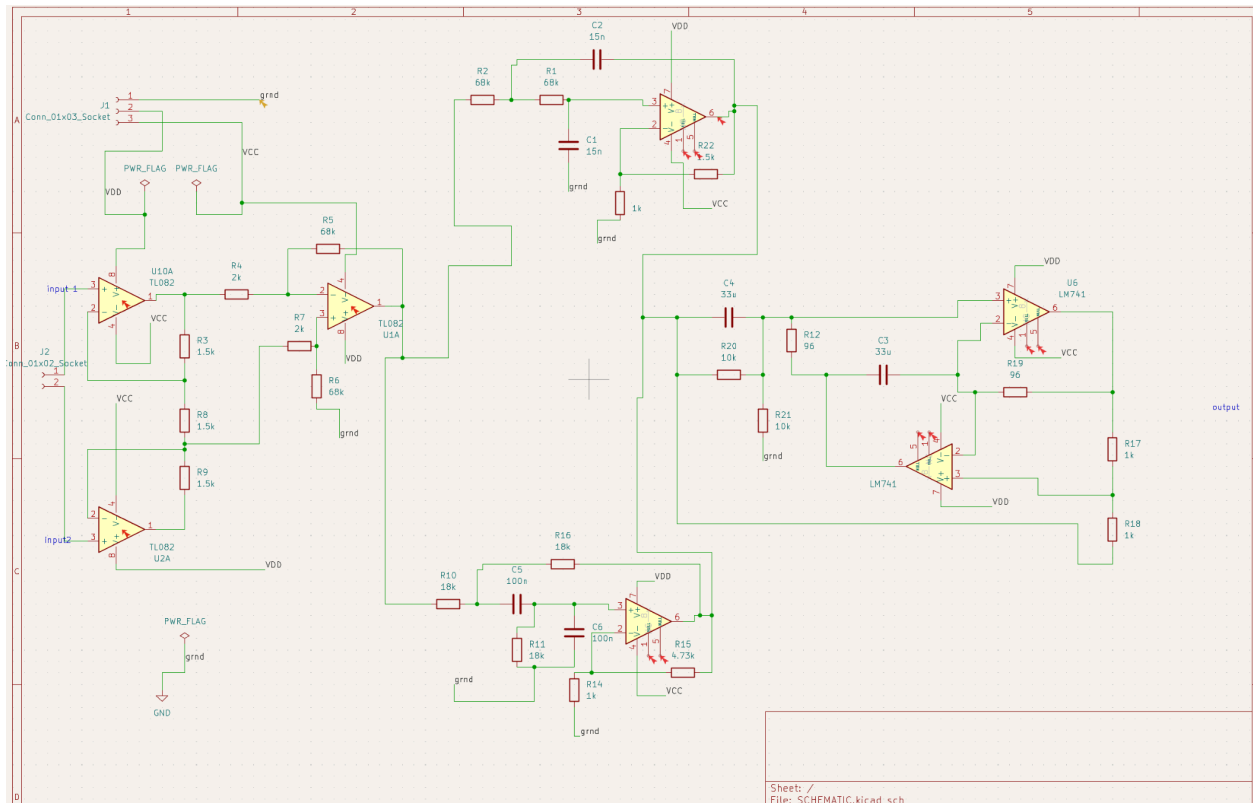


Spice Design with Notch Filter

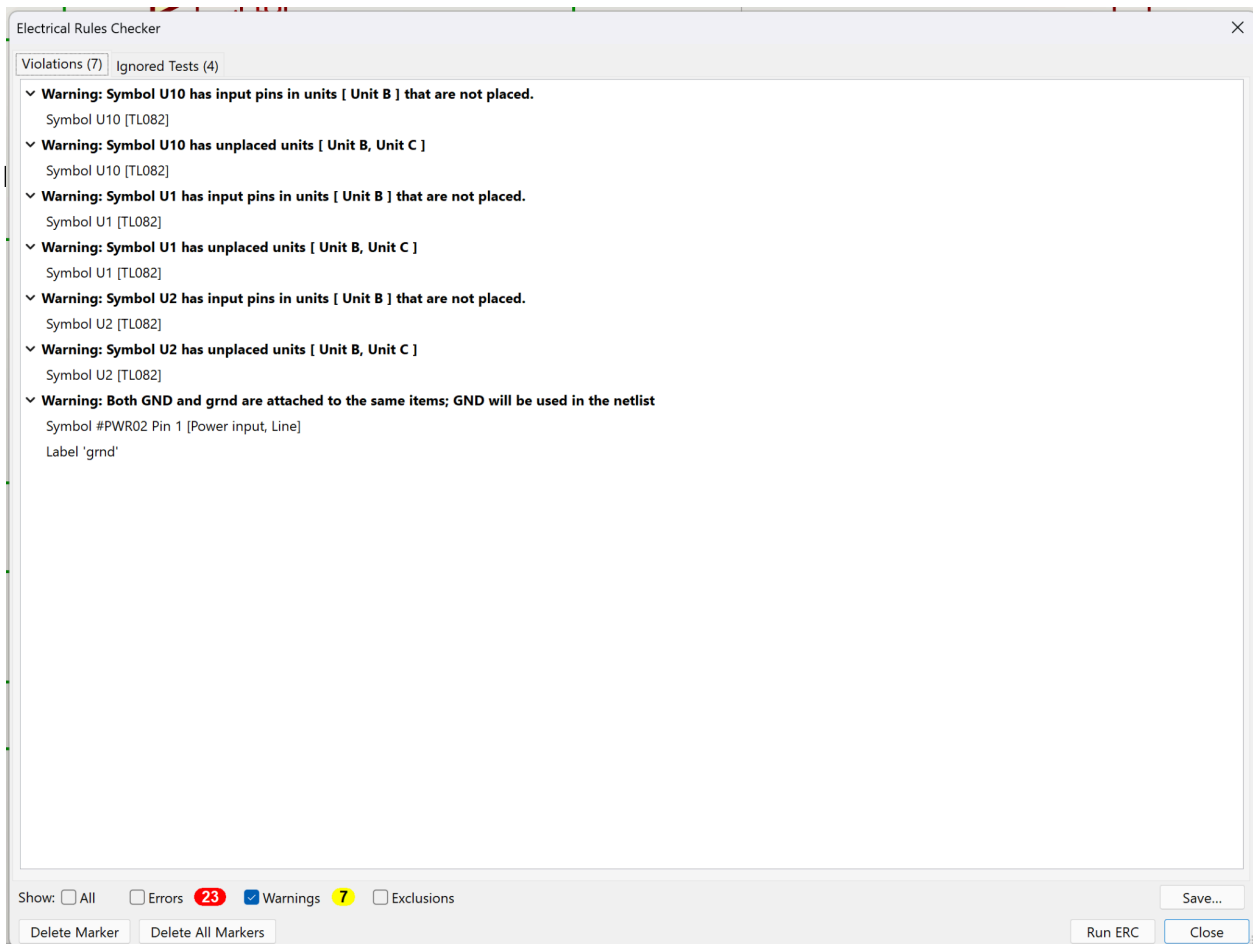


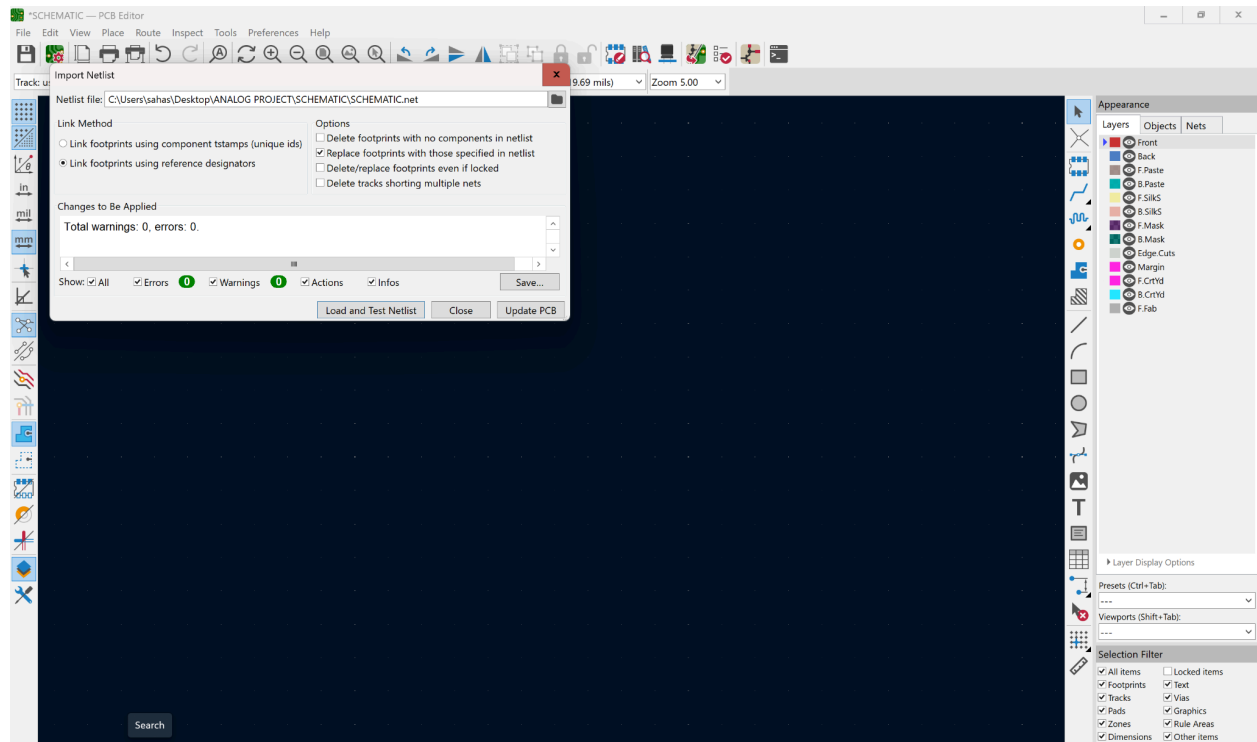
Final Output

SCHEMATIC:

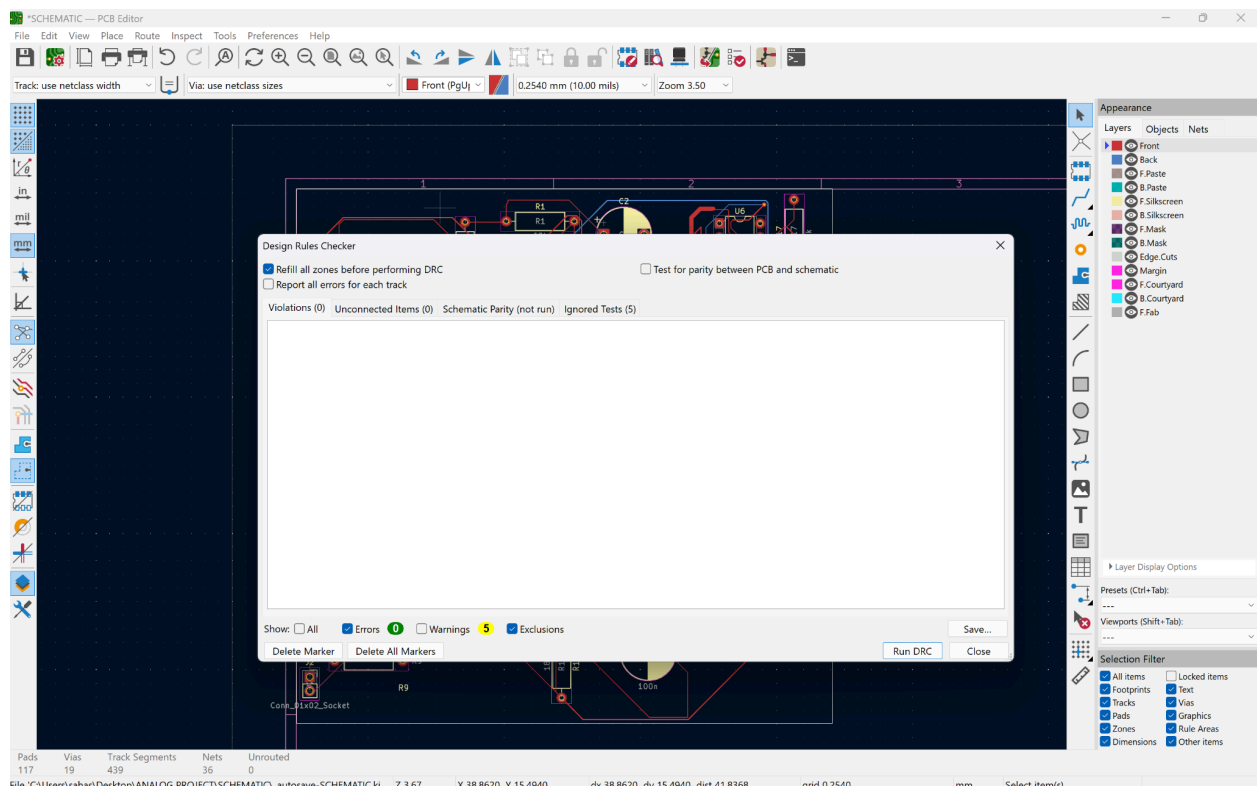


ERC error screenshot

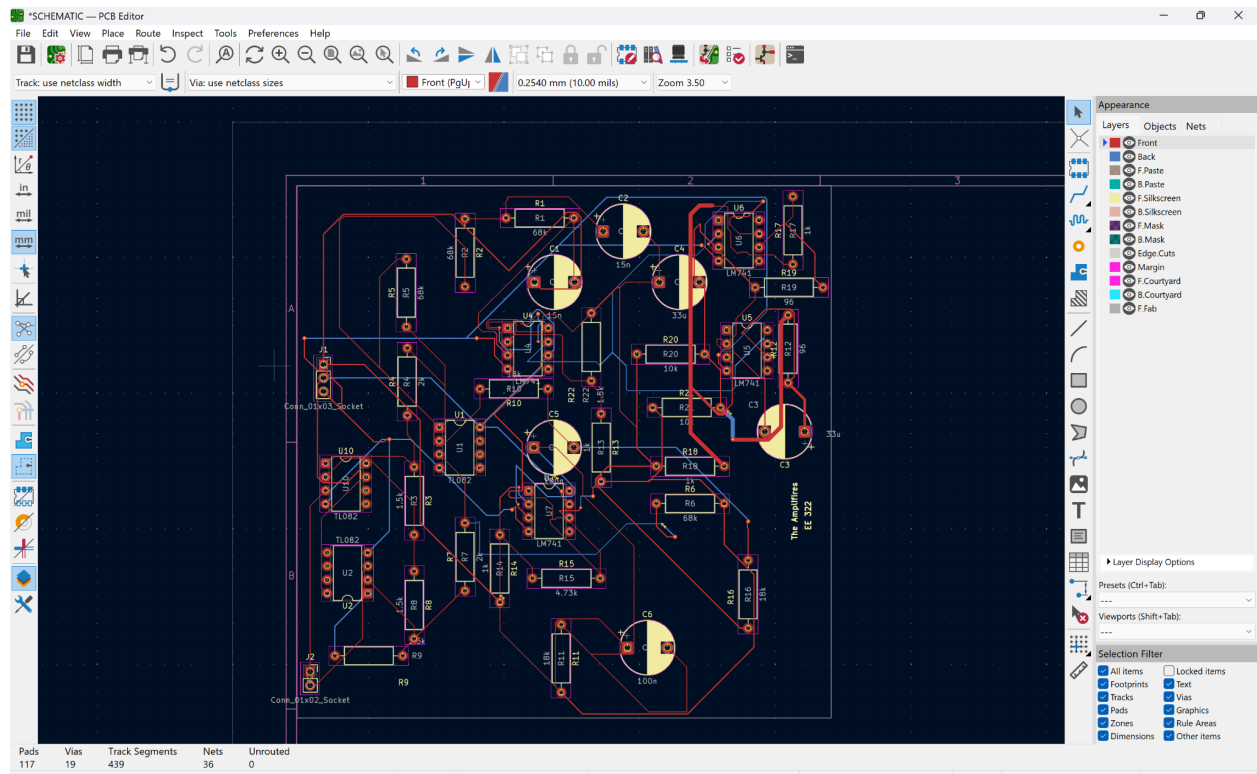




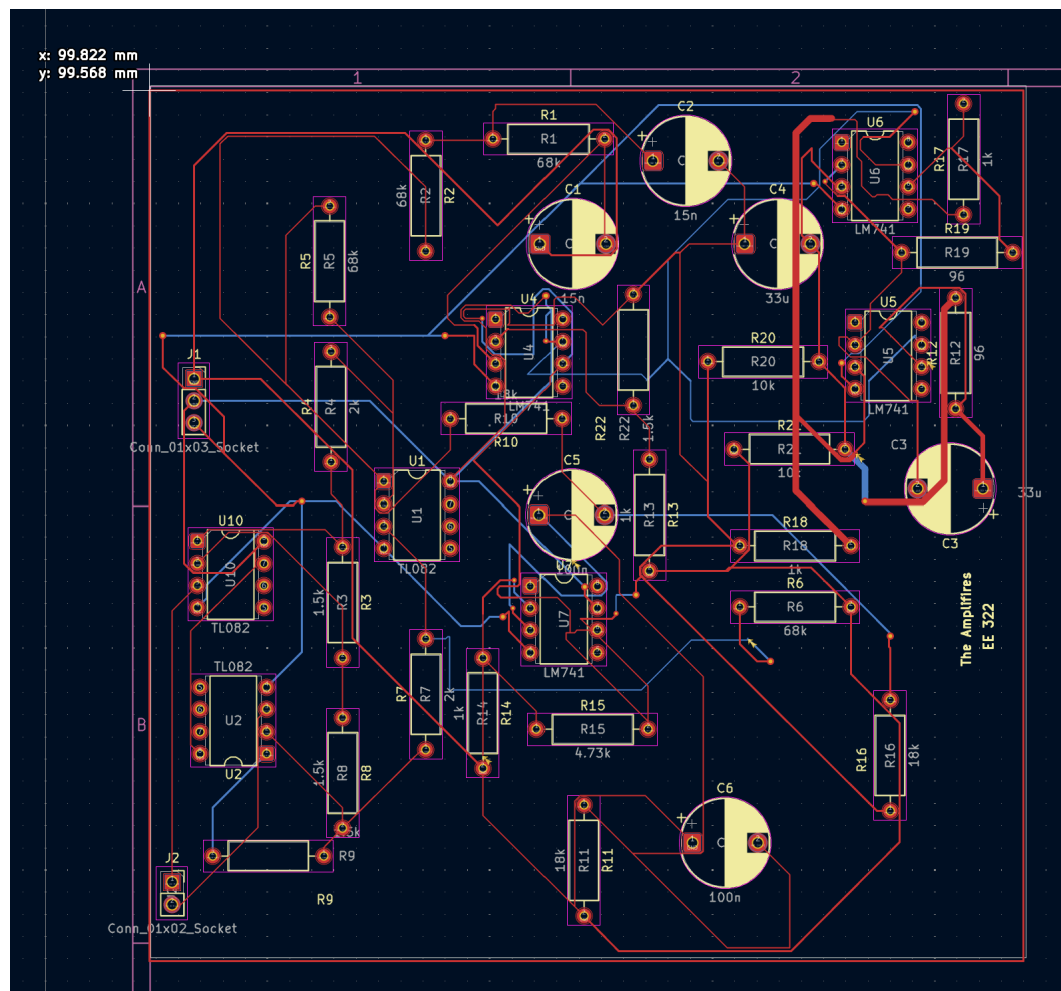
DRC error screenshot



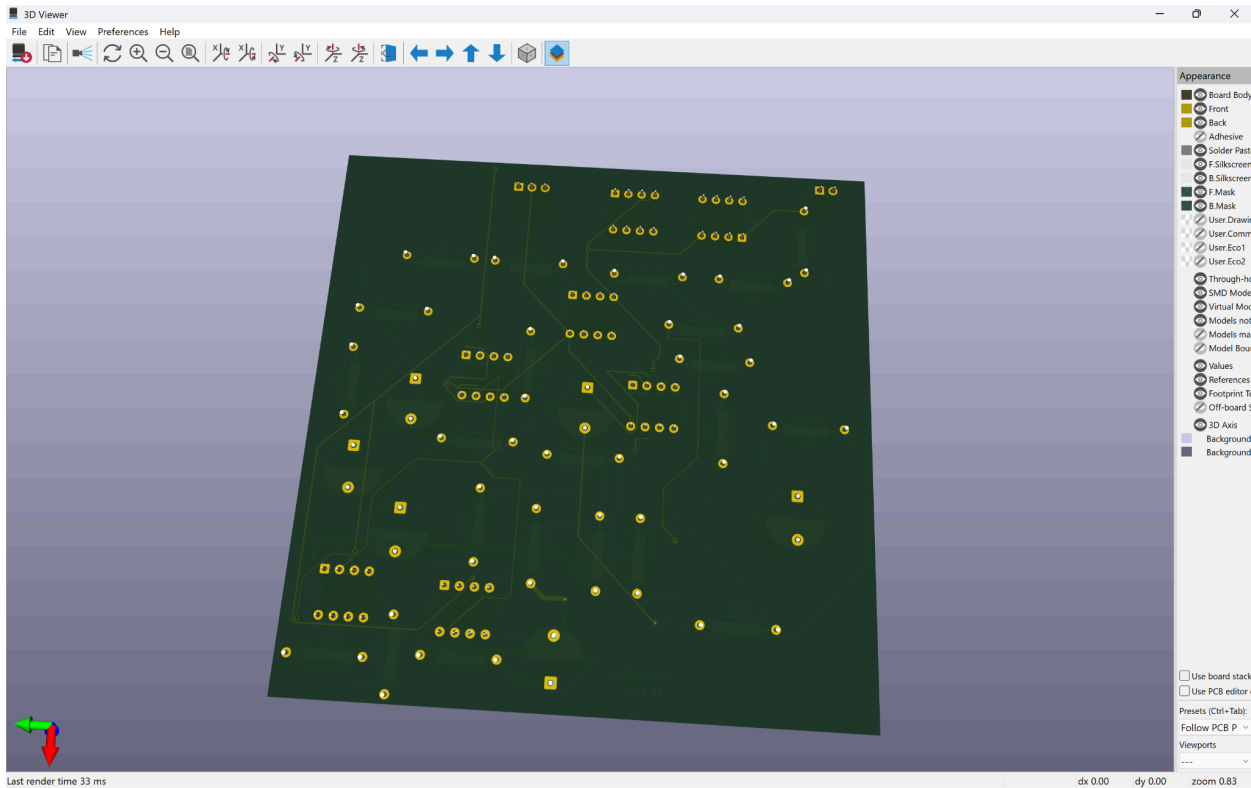
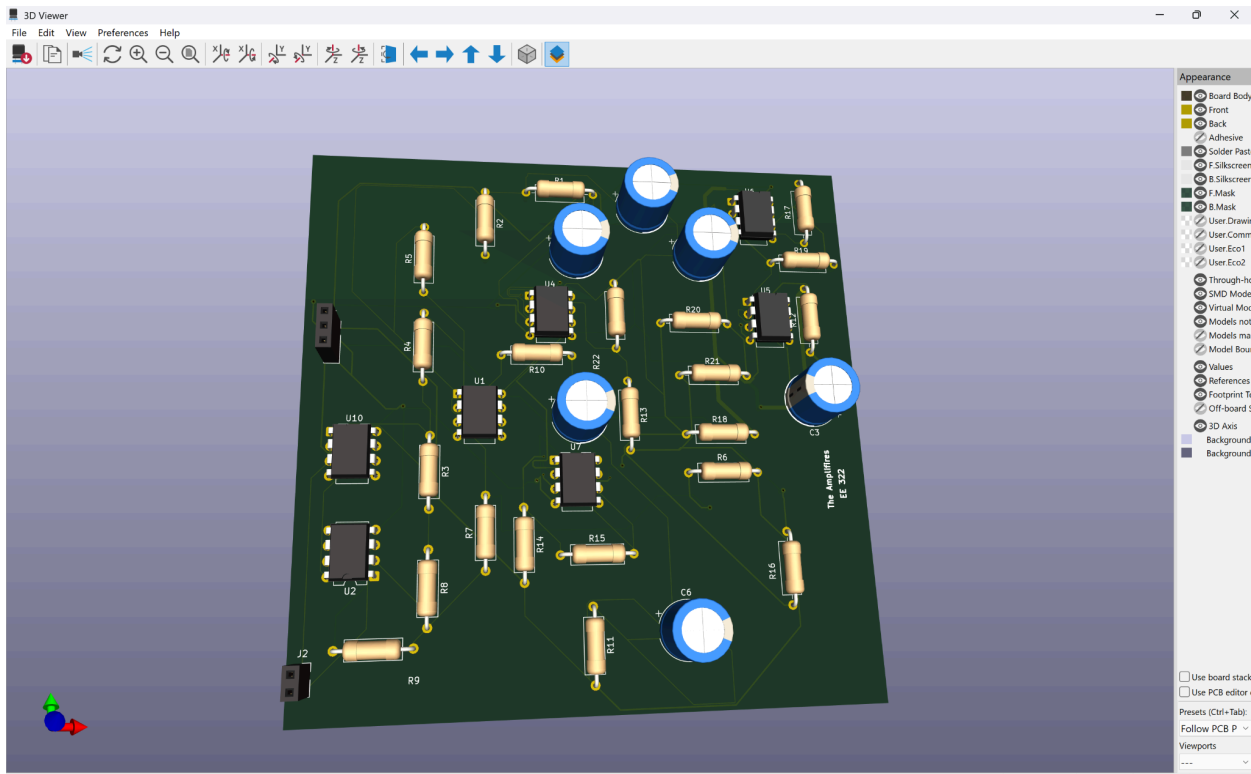
PCB LAYOUT



Length and Width



3D Render



Gerber Files uploaded on the Lions Circuit Portal:

LION CIRCUITS

Create New Project B2

My Account: My Account, Business Account

Orders: My Projects, My Cart, Buy Components

Resources: Capabilities, FAQs, User Guides, About LionCircuits

Project Name: analog_ecg_upda... PID: 186284

QUOTATION PROJECT DETAILS PCB IMAGE BOM VIEWER DFM FEEDBACK HELP TEAM MEMBERS UPDATE DESIGN

1 Fabrication > 2 Assembly > 3 Procurement > 4 Summary

Skip Fabrication Add & Proceed

Create a Billing Account to start placing orders.

Layers: 2

PCB Qty: 5

Board Dimension: X = 99.9500MM Y = 99.6900MM

Discrete Design: 1 2 3 4 5

Board Type: Single PCB Panel By Customer Panel By LionCircuits

PCB Thickness: 0.4 mm 0.8 mm 1.2 mm 1.6 mm 2.0 mm 2.4 mm

Copper Thickness: 1 oz (35 um) 2 oz (70 um) 3 oz (105 um)

PCB Finish: HASL Finish Lead Free HASL ENIG

Mask Color: Green Blue Black White Red

Charge Details

Fabrication Price: ₹1608

Make in India

Price Estimate

Per Unit Cost: ₹321.60 x 5

NRE Cost: ₹0

Sub total: ₹1608

Build Time

5-6 Days 4-5 Days

Apply Coupon Apply

Assembly Project Quote

Instrumentation amplifier lab demonstration

https://iitgnacin-my.sharepoint.com/:f/g/personal/23110064_iitgn_ac_in/EI-N_NPcWqRAvyx8hxCnB90BboAZx1keOxQ6lq6l21xUjQ?e=ts3OXK