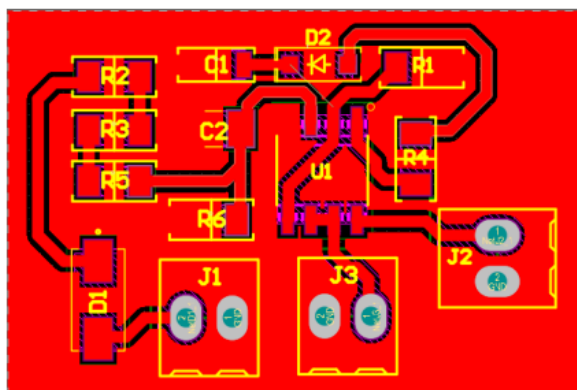


$$V_{buffer\ in} = V_{sine} \times \frac{R4}{R1 + R2 + R3 + R4} = \frac{5.36K}{100k + 100k + 100k + 5.36k} \times 220 = 3.86V$$

**Figure-8: Voltage Reading Circuit from the Mains**



**Figure-10: Board Design**

