

### 3.2 Amplifier electronics

- U1            This component is amplifier.
- U2            This component is voltage reference.
- C1            This component is used as an EMI/RFI filter to reduce interference.
- C2-C5        These components are used as a decoupling or as an energy storage to reduce fluctuation?????
- R2-R3        These resistors are used to make voltage division from reference source U2 so U1 will get correct voltage reference.
- Rg            This component is used to choose G=10 pins open because INA155 Rg = INF That means high bandwidth selection.

### 3.3 Soldering of surface-mount components

- Where to apply the heat with the soldering iron?

Apply the heat to the board and the component leg so heat spreads both contact surfaces.

- Where to apply the solder after the heating?

The solder is then applied to the spot where board and leg touch each other so that the component will attach itself to the board

- How long can the heating be done to avoid overheating the components and the circuit board?

That depends on used temperature and components. Usually time is only a few seconds.

- What does a good solder joint look like?

A good solder joint looks like a round little nice looking, smooth and shiny. It also must be proper size so it will not connect anything extra. ?Picture maybe?