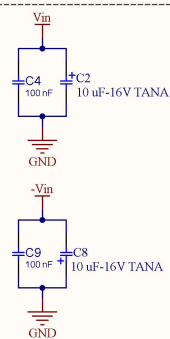


By default "VCC SEL"
jumper is shorted to the 5V

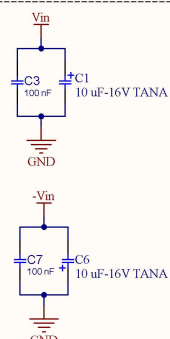
VCC SEL

Oscillator Decoupling Capacitors

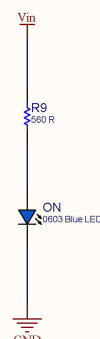


DECOUPLING CAPACITORS

EC Circuit Decoupling Capacitors

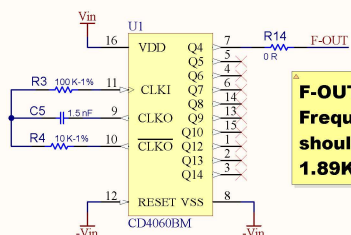


POWER LED

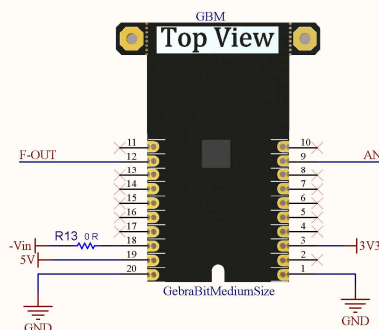


Conductivity is the ability of a solution to pass an electric current. The amount of current flowing is roughly proportional to the number of ions present in the conducting solution. Despite the fact that the measuring of conductivity is non-specific, the technique is used heavily in analytical chemistry, especially in the characterization of water purity and to measure the efficiency of water treatment systems. A conductivity measurement is also used to determine the concentration of chemicals because it gives a well-defined, though not always linear, conductance-concentration plot over a wide concentration range. It is a rapid and inexpensive way of determining the ionic strength of a solution.

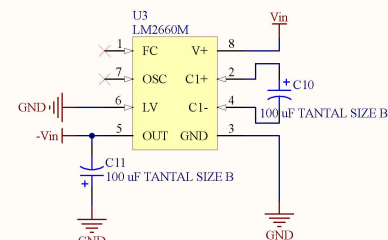
In Figure 1, two plates of a given material are placed in a solution. The geometry is given by the length, L , of the liquid column between the plates and the cross sectional area, A , of the liquid column. If an AC voltage, U , is connected across the two plates (electrodes) placed in a solution containing ions, the ions will move between the electrodes and an electric current, I , will start to flow



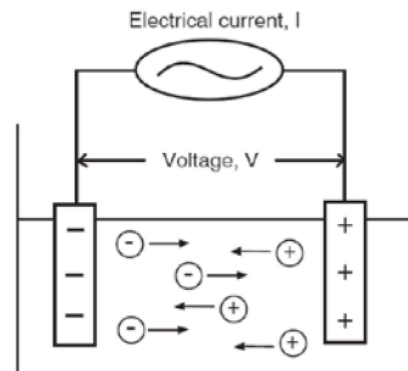
OSCILLATOR CIRCUIT



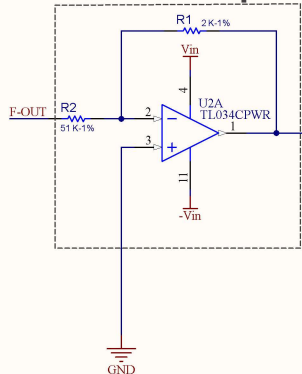
GEBRABIT PINOUT



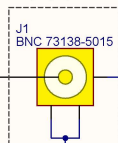
VOLTAGE CONVERTER



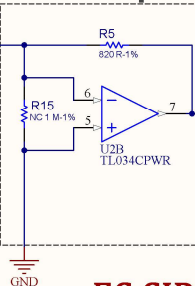
Oscillator Amplifier



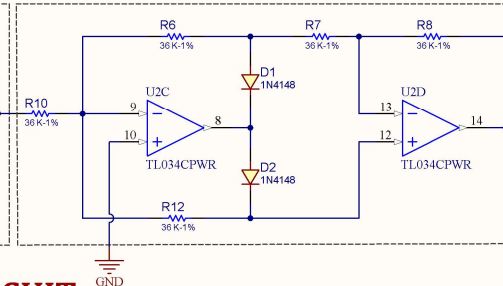
Probe BNC



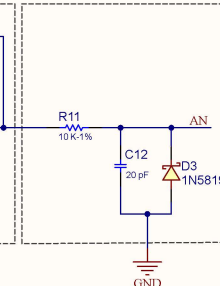
Probe Amplifier



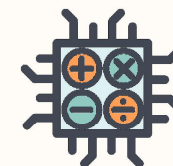
Half Bridge Rectifier



Output Filter



EC CIRCUIT



GebraBit

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Title:	GebraBit Conductivity Probe Schematics	Variant:	[No Variations]
Page Contents:	GebraBit Conductivity Probe Circuits	Checked by:	R. A
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