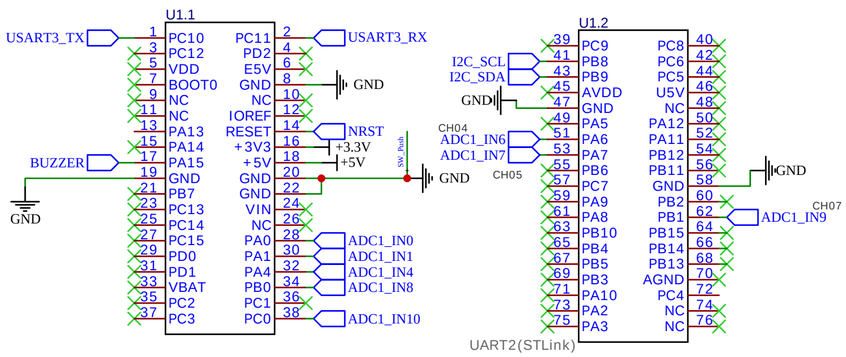
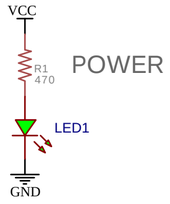
NUCLEO 64 CONNECTOR

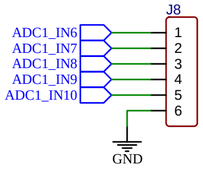


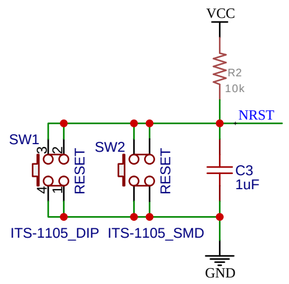
ADC1_IN2/3 (PA2/3): ST-LINK UART2
ADC1_IN5(PA5) : LD2(Nucleo USR LED)

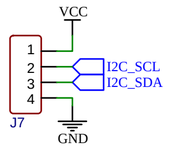
ADC1_IN0 : Ch01
ADC1_IN1 : Ch02
ADC1_IN4 : Ch03
ADC1_IN6 : Ch04
ADC1_IN7 : Ch05
ADC1_IN8 : Ch06
ADC1_IN9 : Ch07
ADC1_IN10 : Ch08

POWER

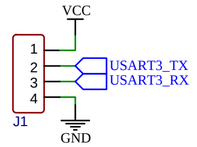




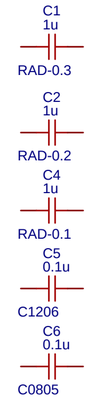




I2C

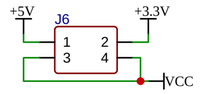


USART3

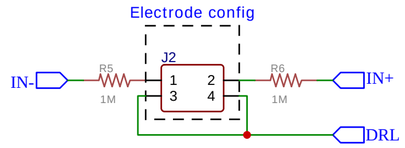


Sample Package Footprint

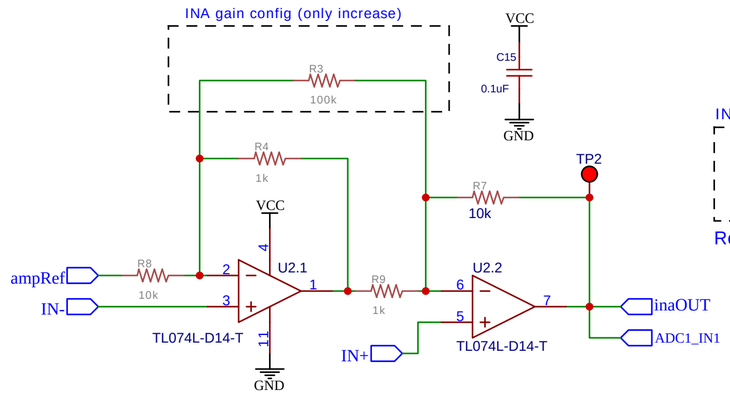
Power(Vcc)Selection

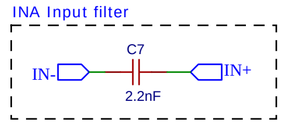


Electrode reference



Bridge all three pads of the solder jumper to configure
for 2 Electrode operations instead of the 3 electrodes
Note: 2 electrodes will give noisier output than 3 electrodes!

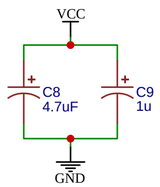




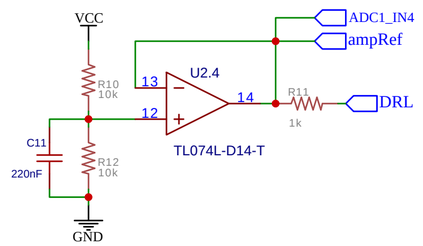
Removes high freqency noise.

Instrumentation Amp (INA)

Power Supply Noise Filtering

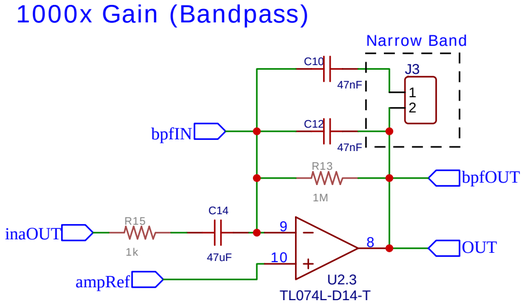


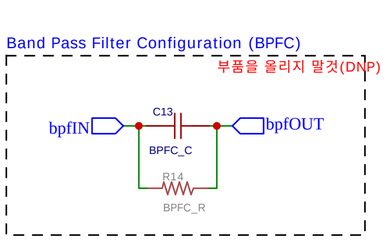
Amp Ref + Driven Right Leg (DRL)



Create solder joint on J3 to narrow the Band Pass freqnecny range
Default: Wide input frequency band, use when recording EMG, EOG
Configured: Narrow input frequency band, use for EEG, EOG, and ECG

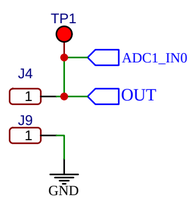
1000x Gain (Bandpass)

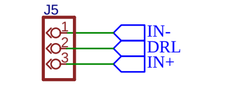




* C8 (BPFC_C) & R3 (BPFC_R) on the back side of the PCB
can be used to configure the bandpass filter.
* Use them to configure output Gain (decrease)
& Band (frequency range).

Header pins / Connectors





TITLE: Bioamp ExG Experiment Brd.[KKU-BME]	REV: 1.0
Company: KKU-BIMSRL	Sheet: 1/1
Date: 2023-12-01 Drawn By: jwlee95	