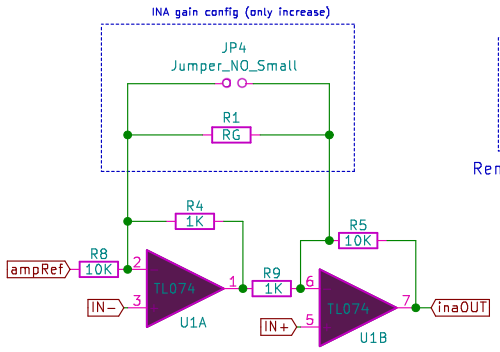
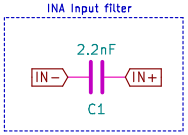
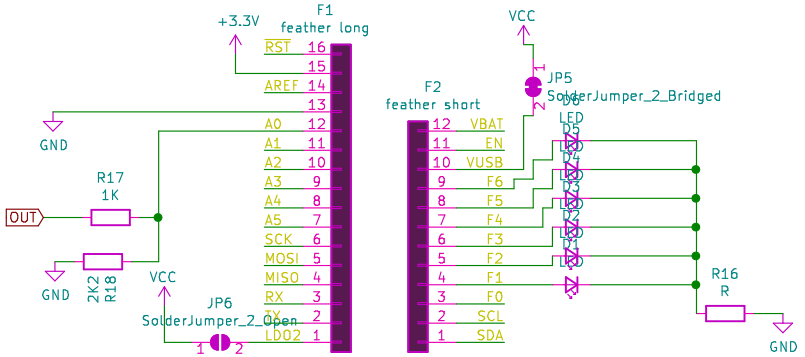




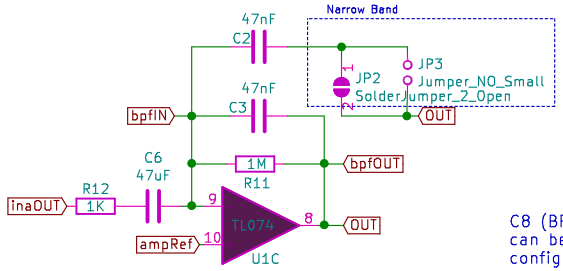
Removes high freqency noise.

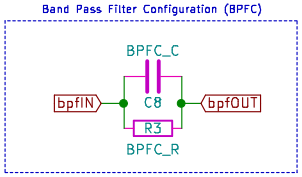
Instrumentation Amp (INA)



FeatherBoard / LEDs

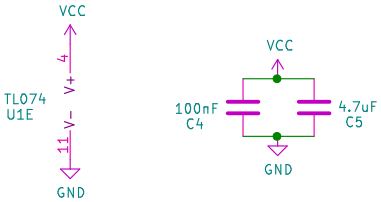
Create solder joint on JP2 to narrow the Band Pass freqnecny range
Default: Wide input frequency band, use when recording EMG, EOG
Configured: Narrow input frequency band, use for EEG, EOG, and ECG



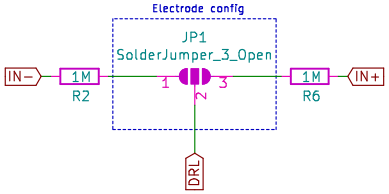


C8 (BPFC_C) & R3 (BPFC_R) on the back side of the PCB can be used to configure the bandpass filter. Use them to configure output Gain (decrease) & Band (frequency range).

1000x Gain (Bandpass)



Power supply filtering



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!

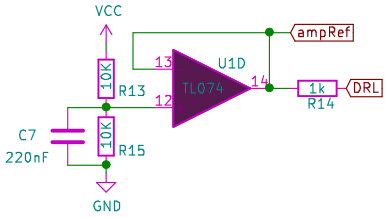
Electrode reference

LOGO1
LOGO_UDLABS
Upside Down Labs LOGO

LOGO2
LOGO_Coconut

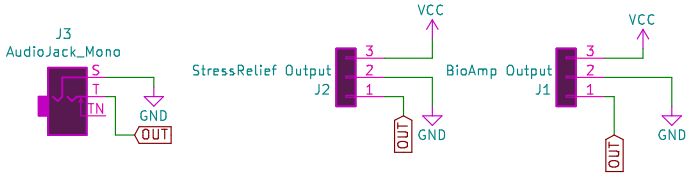
BOARD1
FeaterWing Board

LOGO3
CoconutResearch



Amp Ref + Driven Right Leg (DRL)

Jack Input



Header pins / Connectors

TL074H based BioAmp
Single chip biopotential amplifier
5v compatible EXG hardware
Records EMG, ECG, EOG, and EEG
Upside Down Labs / dusjagr

Sheet: /
File: BioAmp-EXG-Pill_1206.sch

UPlabs: contact@upsidedownlabs.tech
dusjagr: marc@dusseiller.ch

Title: BioAmp EXG FeatherWing

Size: A4	Date: 2022-10-01	**Rev: 1.0f**
KiCad E.D.A.	eeschema 5.1.10-88a1d61d5890ubuntu20.04.1	Id: 1/1