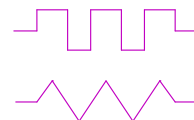
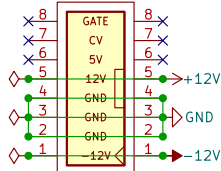


# Voltage Controlled Oscillator (VCO)



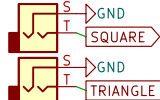
IDC Power Connections 16p



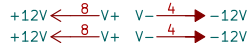
Mounting Holes



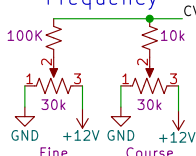
3.5mm Output



Opamp Power

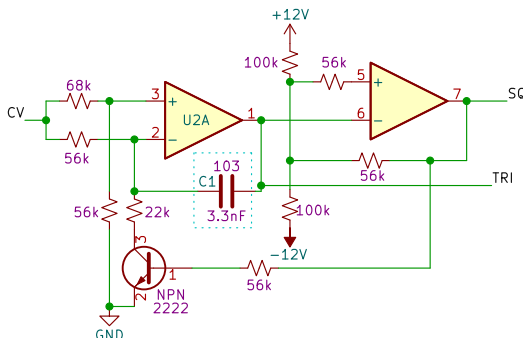


Frequency

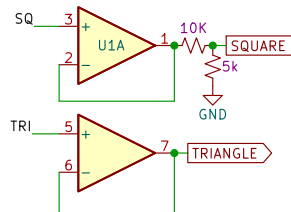


Control Voltage (CV) ranges from 0-12V based on the output from the voltage divider. There is a course and a fine tune adjustment potentiometer.

Waveform Generators



Buffers



(C1) Capacitor Values <> Frequency Ranges

1nf: 475-4.1k  
2.2nf: 216-2.1k  
3.3nf: 144-1.4k  
4.7nf: 101-1k  
10nf: 47-475Hz

\*Frequencies will vary based on components used and their rating/tolerances

Simulation: <https://tinyurl.com/29n8x5j6>



Modular Synth  
**theWickedWebDev**

Sheet: /  
File: VCO.kicad\_sch

**Title: Voltage Controlled Oscillator**

Size: User Date: 2022-11-14  
KiCad E.D.A. kicad (6.0.0-0)

Rev: v1  
Id: 1/1