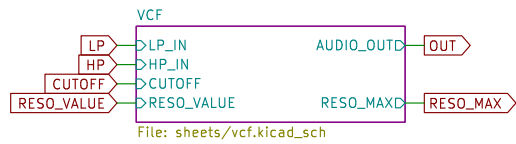
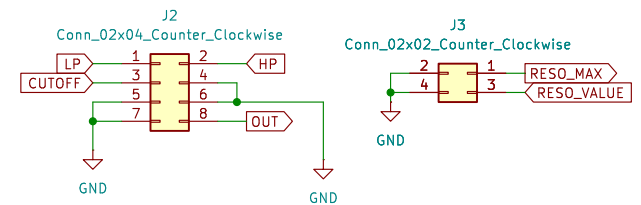
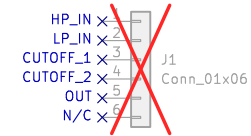


Filter

I/O



Default patch connector



Shielding pairs
DO NOT GROUND ON UI BOARD!

Power

Power

File: sheets/power.kicad_sch

H1 MountingHole H2 MountingHole H3 MountingHole H4 MountingHole

Shmøergh

Sheet: /
File: vcf-core.kicad_sch

Title: Moduleur VCF

Size: A4 Date: 2026-02-21

KiCad E.D.A. 9.0.6

Rev: v1.0

Id: 1/3

I never really needed RV_BALANCE1.
What if R13 and R22 are 2k and we
don't use the trimmer at all
(ie. 1,2,3 legs are all connected)?
Once tested, R13 and R22 can be SMDs.

-> result: WORKS but better to
doublecheck again on another
test

The value of this cap balances between these:
1. The time the output needs to settle around
0V. If it's too big then it's going to take
longer time which results in the signal going
too much in the extremes (around +/-10V) that
can lead to distortion.
2. The lower the value of this cap the more it's
going to skew the original signal (square horizontals
start falling/skewing).
Experiments show that 10u is a good compromise.

Diode network is prone to picking up hum.
Must be shielded.

Usually around 10k

If you need you can solder
a shield around the diodes
which is the most noise-prone
part of the circuit.

ALL OPAMP POLARITY
DOUBLECHECKED

H = Hand soldered

Shmørgh

Sheet: /VCF/
File: vcf.kicad_sch

Title: Module VCF

Size: User	Date: 2026-02-21	Rev: v1.0
KiCad E.D.A. 9.0.6		Id: 3/3

