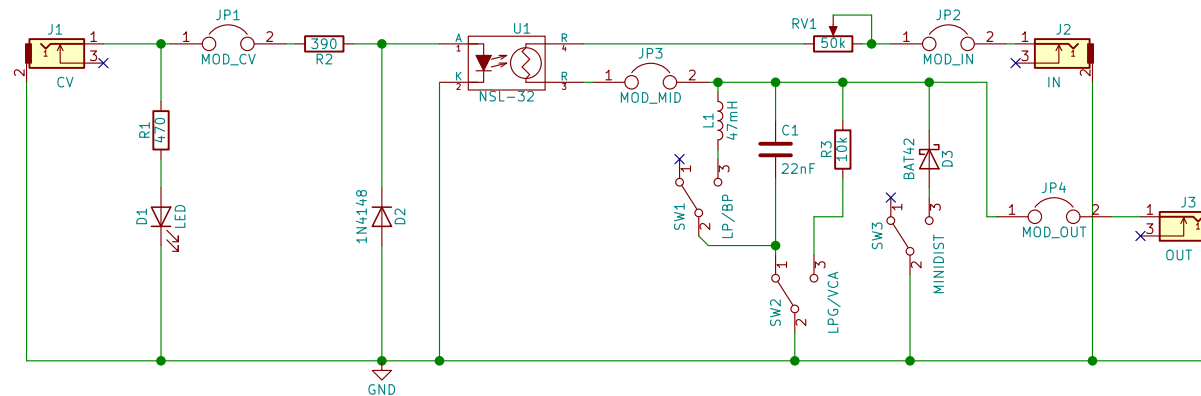


Adding the coil is an attempt to get a band pass filter as well, and it does work, but could be better - maybe with a larger coil (for a lower cutoff). Again, skip this and the accompanying switch if you're on a budget - or throw in yet another capacitor for even more low pass options.



Similarly, the components on the audio side are chosen to work OK with the optocoupler I chose (it has 500 ohms as its lowest possible value). For other optocouplers, you'd probably want to change C1, L1, and R3 as well (and probably RV1 too).

- The dist connoiseur mod: Put a diode (Schottky or Germanium, since those have lower voltage drop => less loss) directly after the audio in jack, for another type of dist. The diode will clip (half) the waveform.
- The filter mod: Put another capacitor (of significantly higher (or lower) value) instead of the VCA resistor (R3), for different filter response.
- The lofi envelope mod: To get a decay thing going, from a gate pulse on CV_IN, add a capacitor where JP1 is. You would probably also want to have a switch there, short circuiting the capacitor to disable it. Given the low impedance in the rest of the circuit, you will need a fairly high value on the capacitor - I tried with 10uF, getting a pretty fast decay - and also possibly bipolar (since you don't know what kind of voltage to expect).
- The spartan mod: If you're into simplicity (or tight budgets), skip everything extra on the audio side, just keep the capacitor (and the optocoupler, obviously). Just put jumpers (e.g. cut off resistor legs) across the skipped components (between pin 1-2 on SW1, 1-3 on SW2, the two end points of the pot, and across the diode).

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