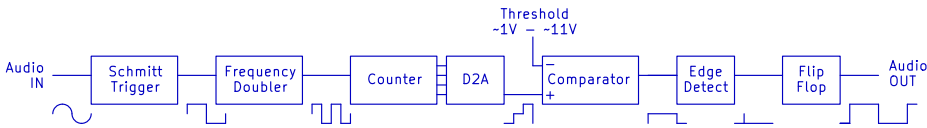


# Subharmolizer

Eurorack Module to generate a square wave subharmonic of an input audio signal

## Block Diagram



Issues with rev1

- 1. needs frontend filter to remove freqs > ~4kHz  
(or: the frequency doubler needs tweaking to support higher freqs)
- 2. output vol seems v low
- 3. need to add CV override to Threshold input
- 4. phase of output is unpredictable – freq doubler can see a –ve change before a +ve one
- 5. bonkersness when Threshold set very close to an exact level coming from D2A  
maybe need some hysteresis?
- 6. might be nice to add a second counter to allow for more subharms  
or perhaps use a CD4024 or such instead of CD4516 – we’re not using the preset
- 7. output square wave has a significant spike on the leading edge

Schematic



File: subharmolizer–schem.kicad\_sch

molen, inc.

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File: subharmolizer–rev3.kicad\_sch

### Title: Subharmolizer Overview

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