µVCF Manual

Overview

The µVCF state variable filter features 3 simultaneous filter outputs: a 2-pole 12 dB/octave low pass, a 2-pole 12 dB/octave high pass, and a 1-pole bandpass. It tracks 1 V/octave pitch input over a wide range and can be used as a low-distortion sine VCO when self-resonating.

Installation

See the Module Installation Guide for instructions on installing the module in your Eurorack modular system.

Front Panel

Controls

1. **FREQ**
   Sets the cutoff frequency of the filter. The knob position is combined with the **FM1** and **FM2** inputs.
2. **Q**
   Sets the resonance of the filter.
3. **FM2**
   Controls the amount and polarity of the **FM2** input. The input passes unmodified when the knob is fully clockwise, inverted when fully counter-clockwise, and has no effect when at the 12 o'clock position.
4. **Input Attenuator**
   Attenuated the level of the filter input signal. The signal is unattenuated when the knob is fully clockwise.
5. **FM1 Attenuator**
   Attenuates the control voltage of the **FM1** input. When fully clockwise the input is unattenuated and tracks 1V / octave.

Inputs & Outputs

A. **INPUT**
   Audio input to the filter.
B. **FM1**
   CV input for the cutoff frequency. Attenuation is controlled by the **FM1 Attenuator**.
C. **LPF**
   2-pole (12 dB / octave) lowpass filter output.
D. **FM2**
   Another CV input for the cutoff frequency. Attenuation / inversion is controlled by the **FM2** knob.
E. **BPF**
   1-pole (12 dB / oct) bandpass filter output.
F. **HPF**
   2-pole (12 dB / oct) highpass filter output.