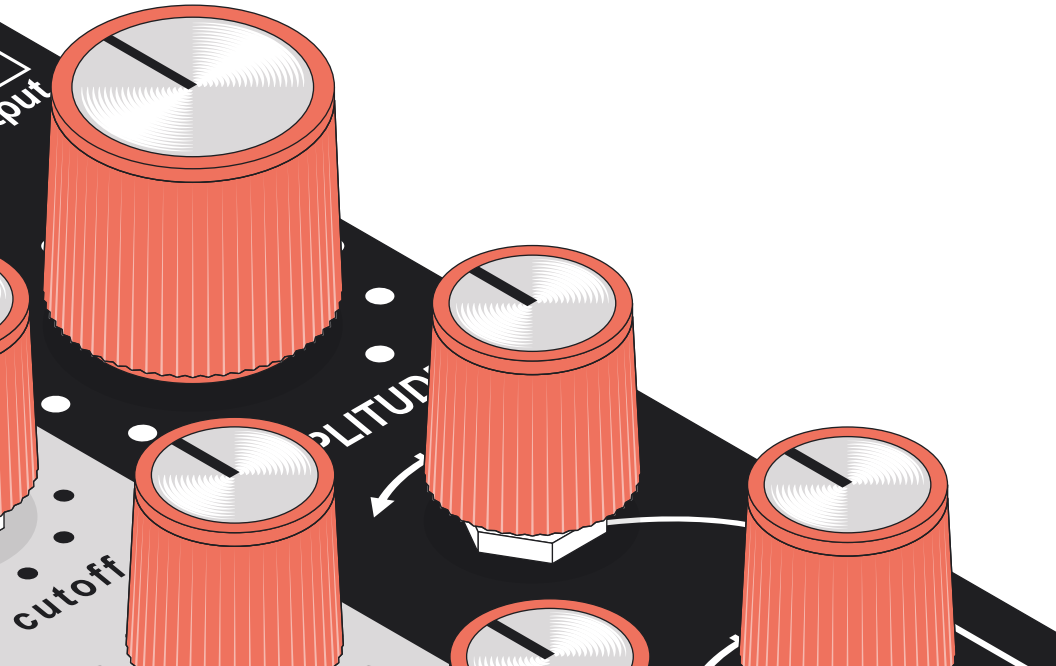




VERBOS ELECTRONICS

Amp & Tone



Congratulations on obtaining your new Verbos Electronics Amp & Tone. This module will act as the output section of a voice chain. It's all discrete signal path goes from an input gain stage to a Lowpass Filter and finally a Voltage Controlled Amplifier. Compared to the original, the module is now smaller, lighter and more responsive.

The Input Gain Stage

The “gain” control should initially be set to the middle position. It sets the gain of the signal going into the filter and can be used to set the desired amount of clipping on the signal.

The Lowpass Filter

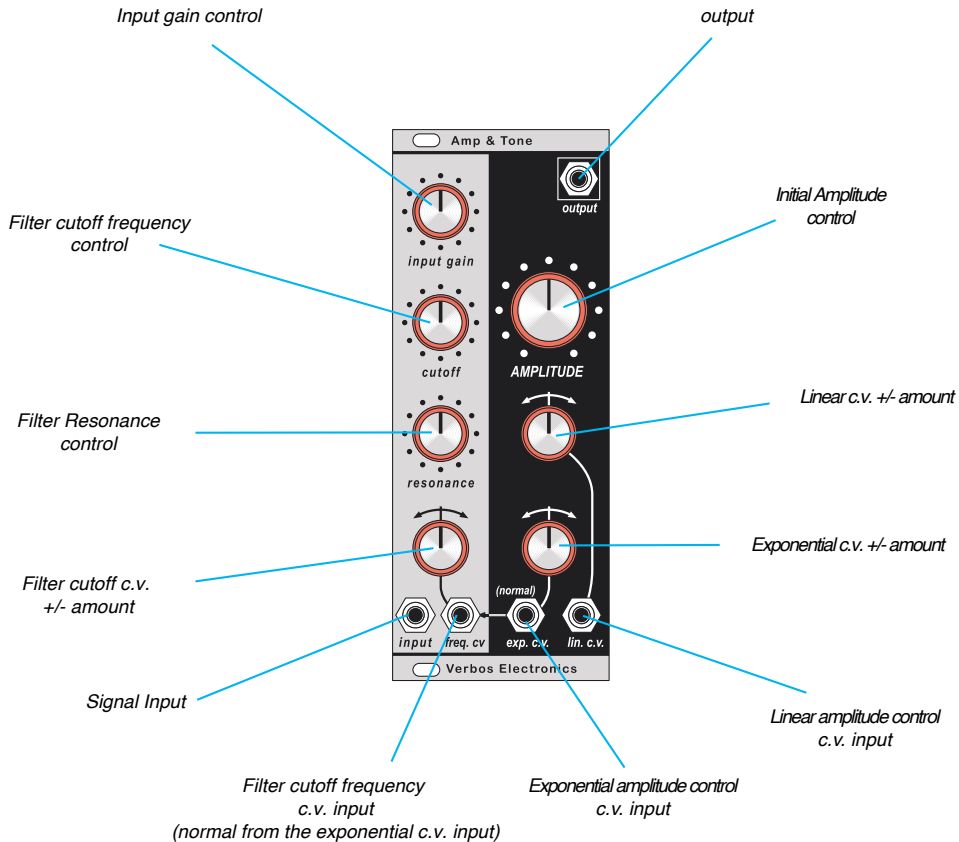
The lowpass filter section has a “cutoff” control for setting the filter’s initial cutoff frequency, and a reversing attenuator on the cv input. There is also a control to add resonance. This filter will self oscillate at higher settings and clip it’s output stage. Balancing the gain and resonance controls allows a variety of timbres. The filter is made from discrete transistors all the way through.

The Voltage Controlled Amplifier

The “Amplitude” control sets the initial level of the VCA. From external control voltage, both exponential and linear control can be used at the same time. Both of these inputs have reversing attenuators and unlike other “2600 style” VCAs, either can reduce the gain of the other.

The core of the VCA is built from discrete transistor pairs. The output gain stage is a discrete opamp. There are no integrated circuits anywhere in the signal path.

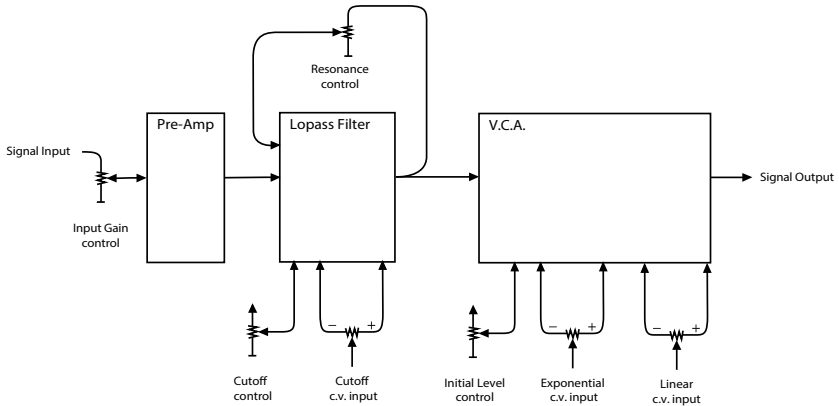
10HP • 180g • +12v 85mA • -12v 83mA





VERBOS ELECTRONICS

designed and assembled in Berlin, Germany



Verbos Electronics GmbH
info@verboselectronics.com
www.verboselectronics.com