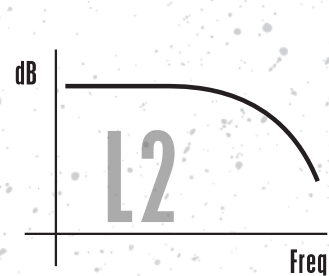


## Lamda is 20HP eurorack module.

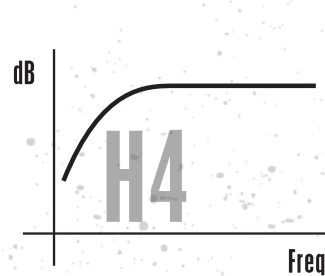
It is an 8-pole 48db/oct OTA based state variable filter.

1. Cut off: Sets the filter's cut off frequency
2. Post Cut: Sweeps through the cut off. Depending on the selected filter type.  
See the filter types for more info
3. Reson: Sets the filter's feedback. Depending on the post cut position you will be able to listen to 2 frequencies when is set to self oscillation.

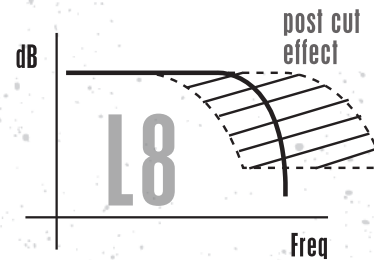
4. Filter Types: the following graphs will help you understand the filter types that are featured in the Lamda module.



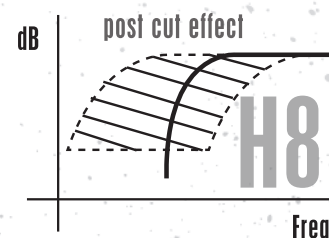
2pole Low Pass (single resonance frequency)



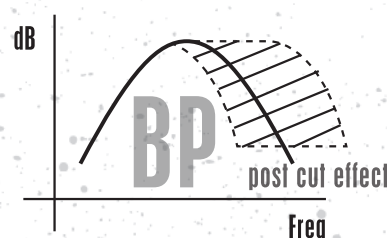
4pole High Pass (single resonance frequency)



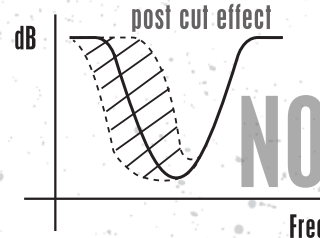
8pole Low Pass



8pole High Pass

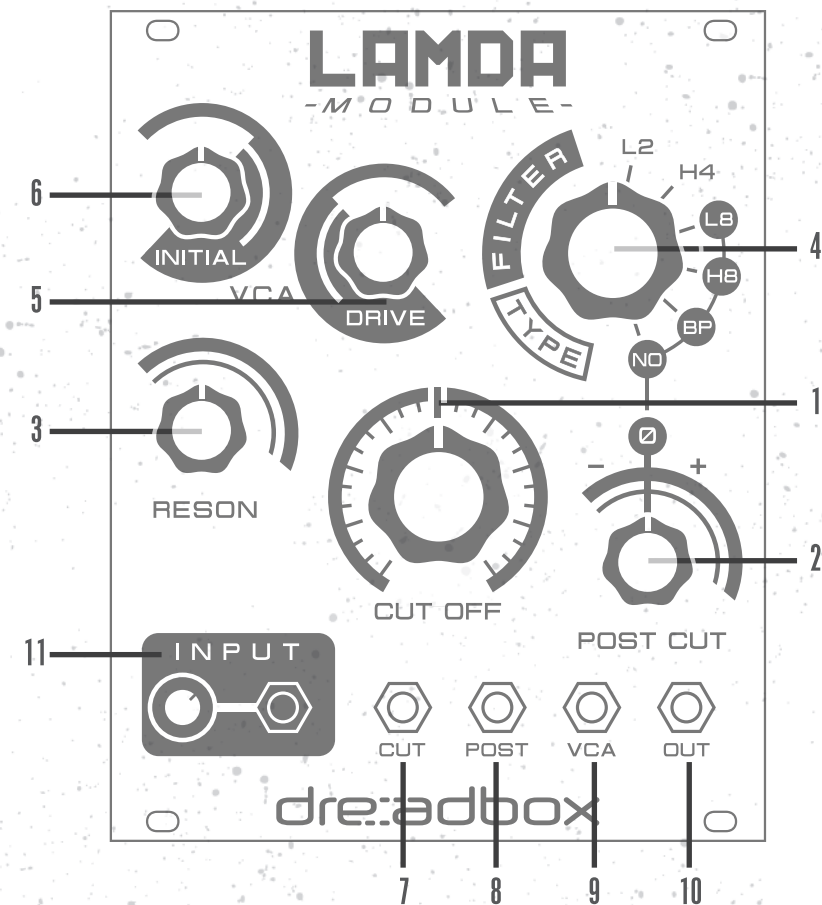


8pole Band Pass



Notch

5. Drive: Sets the distortion amount. This is a post filter OTA based drive circuit.
6. VCA Initial Amplitude: To bypass the VCA just set the Initial to maximum
7. Cut: CV input for the Cut off
8. Post: CV input for the Post Cut
9. VCA: CV input for the VCA
10. Out: Main signal output
11. Input: Main input, the micro knob sets its level



### ★ Specifications ★

Input: works best with 10Vpp signals

Cut Off Frequency Range: 20Hz – 20KHz

Cut Off CV: accepts +/-12V

Post: accepts +/-12V

VCA: accepts +/-12V, works best at +/-5V

Output: Maximum 12Vpp, depending on the setting  
20 HP



dreadbox

Trimmer located on the parts PCB

VCA FM noise

Trimmer located on the pots PCB

Post Cut Fine tuning

Set Post Cut at 0 (mid position)

Select the filter type NO

Set resonance at MAX

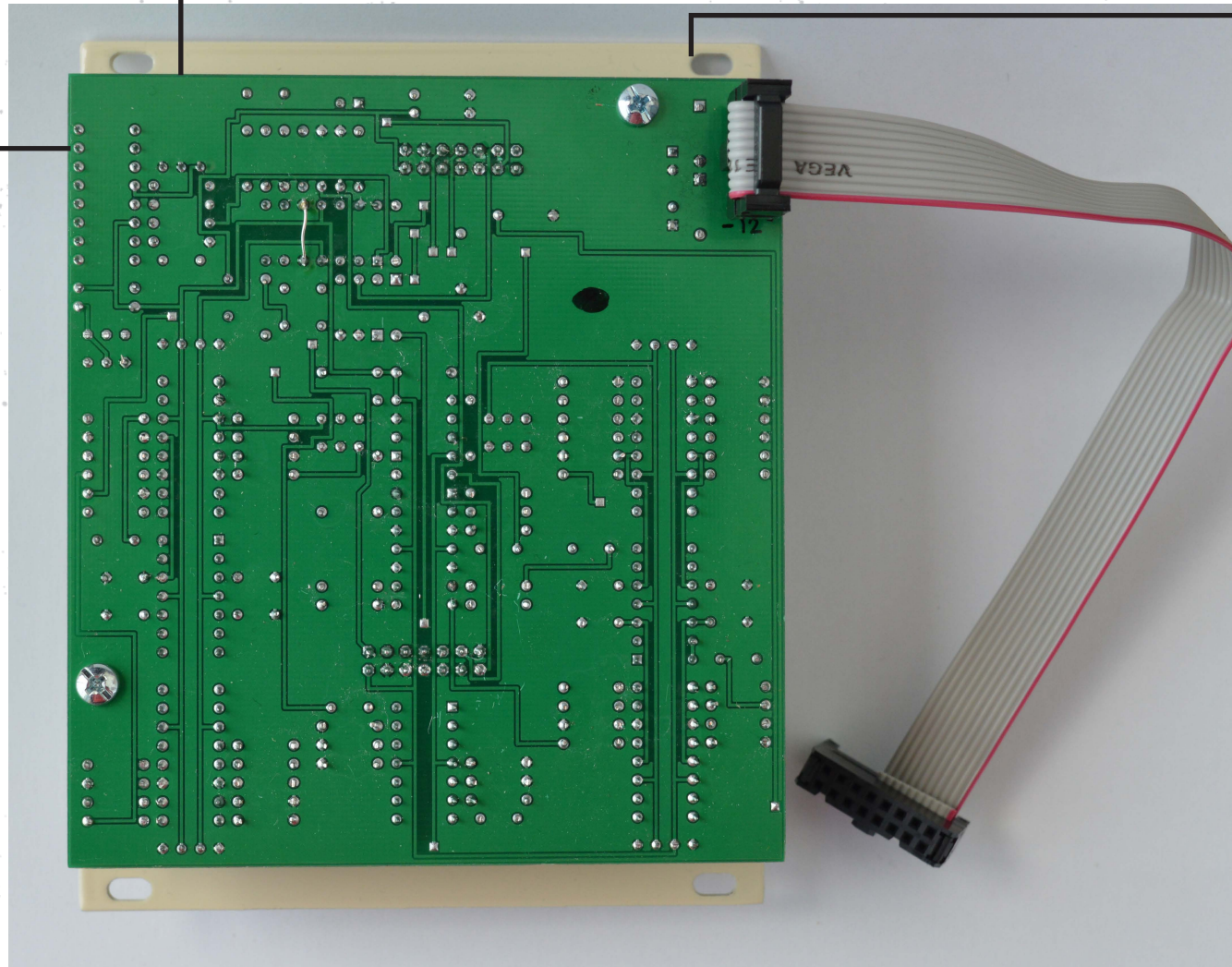
Set input at minimum

Set the initial VCA at MAX

Set Drive at minimum

Set the Cut Off frequency so that you can hear a clear resonance tone.

Turn the trimmer in order to achieve both resonance tones at the same frequency



Make sure you always plug the ribbon as shown.  
The red stripe indicates -12V