Hermippe 12db Analog Filter

HERMIPPE VCF

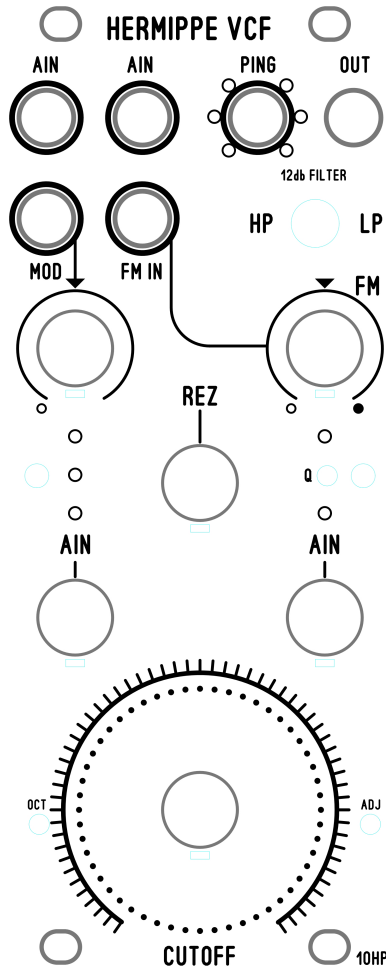AIN AIN PING OUT

12db FILTER

HP LP

MOD FM IN FM

REZ

AIN Q AIN

OCT ADJ

CUTOFF 10HP

Jacks:

AIN: Audio INput. This is used with the AIN Level Knob. The knob determines the sound level going to the filter. There are two channels. There is an internal audio mixer so that you can mix in two audio sources.

PING: This is a trigger conditioner circuit that converts a gate into a spike that 'PINGS' the filter. This is used with the REZ knob. The result is a percussive drippy sound. You want to momentarily turn down, or remove any sound sources on the AIN channels.

OUT: Audio Output. This is where you will hear either High Pass or Low Pass filtering. This is used with the toggle switch.

MOD: 0-full input CV for the cutoff knob. This is used with the MOD knob right below it.

FM: Frequency Modulation. This is used with the FM knob. The circuit is BI-POLAR. So you can have a non inverting or inverting effect.

The REZ knob will self oscillate when turned fully clockwise. If you are picky about when exactly that happens or how strong, there is a trimmer labeled 'Q'.

The 1v/OCT trimmer adjusts or attempts to have the filter track like a vco. 1V per Octave. Please don't expect precision tracking, the circuit does not use expensive parts. The goal was VCF first, not VCO.

ADJ trimmer moves the CUTOFF Range.

Information from the webpage:

Model: Hermippe 12db VCF

width: 10hp

Current: +20mA, -20mA

SKU: BLMHRMVCF

Color: Black

Style: Vintage OTA analog Filter.

Modes: High pass and low pass filtering

Technical: JRC13700 OTA IC, saturation IC JRC 4558.

What does this do?

This is an analog filter with a lot of low end. The design uses a JRC 13700 OTA dual vca chip to produce 12db Low pass and 12db high pass filtering. The module can easily self oscillate. There is a trimmer to adjust how much sine wave you want. There is a 2 channel internal mixer, so that you can patch two sound sources. There is a bi polar FM input, and a 'MOD' input with level control. These are used to voltage control the Cutoff knob.

The 'ping' input is a unique trigger conditioner that will send a spike to the filter. This is used to produce percussion type sounds from the output. This is used in combination with the Rez knob. The cutoff knob determines the sine wave frequency.

Patches to try: Feedback Over drive.

Required modules: Buffer Multiple.

The patch: VCF out to Multiple input. Output1 of multiple to your method of monitoring (hearing) the sound. Output2 of multiple to AIN channel 2.

Patch a vco into AIN channel 1. Use the AIN2 to adjust a new parameter called 'FEEDBACK'. You will hear the filter over drive even harder. You can also instead patch the output2 from the multiple to 'PING'. This will require some attenuation or level adjustment.