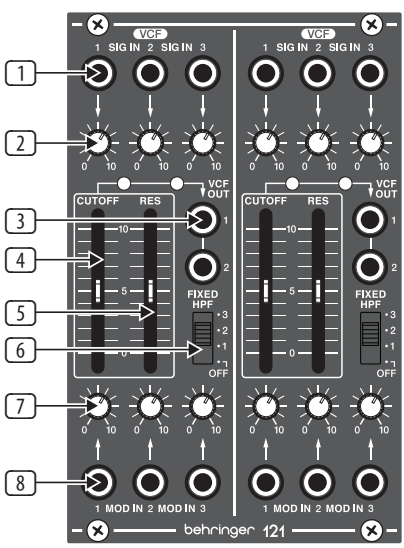


Quick Start Guide

121 DUAL VCF

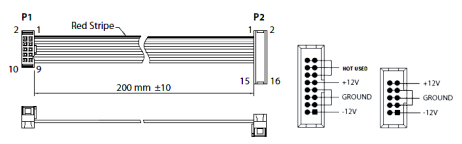
Legendary Analog Dual VCF Module for Eurorack

Controls



- 1 **SIG IN** – Connect incoming signals via 3.5 mm TS cable.
- 2 **SIG LEVEL** – Adjust the level of the signals connected to the inputs.
- 3 **VCF OUT** – Send the VCF signal to other modules via 3.5 mm TS cable.
- 4 **RES** – Boosts the resonance frequencies selected with the CUTOFF slider, potentially causing VCF oscillation.
- 5 **CUTOFF** – Adjust the cutoff frequency of the low-pass filter.
- 6 **FIXED HPF** – Adjust the high-pass filter from OFF, 1 (1 kHz), 2 (2 kHz), or 3 (5 kHz).
- 7 **MOD LEVEL** – Attenuate the voltage connected to the associated MOD IN jack.
- 8 **MOD IN** – Connect a voltage that controls the VCF LPF frequency.

Power Connection



Connect end P1 to the module socket
Connect end P2 to the power supply

The module comes with the required power cable for connecting to a standard Eurorack power supply system. Follow these steps to connect power to the module. It is easier to make these connections before the module has been mounted into a rack case.

1. Turn the power supply or rack case power off and disconnect the power cable.
2. Insert the 16-pin connector on the power cable into the socket on the power supply or rack case. The connector has a tab that will align with the gap in the socket, so it cannot be inserted incorrectly. If the power supply does not have a keyed socket, be sure to orient pin 1 (-12 V) with the red stripe on the cable.
3. Insert the 10-pin connector into the socket on the back of the module. The connector has a tab that will align with the socket for correct orientation.
4. After both ends of the power cable have been securely attached, you may mount the module in a case and turn on the power supply.

Installation

The necessary screws are included with the module for mounting in a Eurorack case. Connect the power cable before mounting.

Depending on the rack case, there may be a series of fixed holes spaced 2 HP apart along the length of the case, or a track that allows individual threaded plates to slide along the length of the case. The free-moving threaded plates allow precise positioning of the module, but each plate should be positioned in the approximate relation to the mounting holes in your module before attaching the screws.

Hold the module against the Eurorack rails so that each of the mounting holes are aligned with a threaded rail or threaded plate. Attach the screws part way to start, which will allow small adjustments to the positioning while you get them all aligned. After the final position has been established, tighten the screws down.

Specifications

Signal Input

Type	6 x 3.5 mm jack, AC coupled
Impedance	50 k Ω , unbalanced
Maximum input level	+16 dBu

VCF Output

Type	4 x 3.5 mm jack, AC coupled
Impedance	1 k Ω , unbalanced
Maximum output level	+16 dBu
Output noise	< -64 dBu, 22 Hz - 22 kHz

Control Inputs

Type	6 x 3.5 mm jacks, summed
Impedance	50 k Ω , unbalanced
CV range	0 V to +10 V, 1 V per octave

Controls

Signal input level	$-\infty$ to unity gain (0 dB)
Cutoff frequency	20 Hz to 20 kHz
Resonance	Off to self oscillation
Fixed HPF	Off, 1 (1 kHz), 2 (2 kHz), 3 (5 kHz)
Mod input level	$-\infty$ to unity gain (0 dB)

Power

Power supply	Eurorack
Current draw	40 mA (+12 V), 40 mA (-12 V)

Physical

Dimensions	39 x 129 x 81 mm (1.5 x 5.1 x 3.2")
Rack units	16 HP
Weight	0.19 kg (0.42 lbs)

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