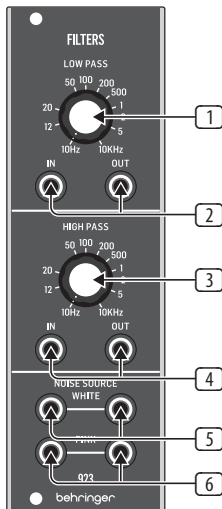


Quick Start Guide

923 FILTERS

Legendary Analog Dual Filter Module for Eurorack

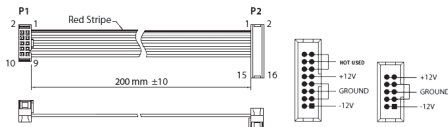
Controls



- 1 **LOW PASS** – This knob controls the threshold or “cutoff” frequency for the low pass filter. The low pass filter will roll off all frequencies above this threshold frequency.
- 2 **LOW PASS IN/OUT** – Route the incoming signal into the low pass filter via the IN jack, and then send the outgoing, filtered signal back out via the OUT jack. Connect the incoming and outgoing signals by using cables with 3.5 mm TS connectors.
- 3 **HIGH PASS** – This knob controls the threshold or “cutoff” frequency for the high pass filter. The high pass filter will roll off all frequencies below this threshold frequency.
- 4 **HIGH PASS IN/OUT** – Route the incoming signal into the high pass filter via the IN jack, and then send the outgoing, filtered signal back out via the OUT jack. Connect the incoming and outgoing signals by using cables with 3.5 mm TS connectors.
- 5 **NOISE SOURCE/WHITE** – Use these parallel jacks to send out a white noise signal via cables with 3.5 mm TS connectors.
- 6 **NOISE SOURCE/PINK** – Use these parallel jacks to send out a pink noise signal via cables with 3.5 mm TS connectors.

Power Connection

The 923 FILTERS 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.



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

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

Controls

Low pass	1 x rotary knob 10 Hz to 10 kHz frequency range
High pass	1 x rotary knob 10 Hz to 10 kHz frequency range

Signal Connections

Low pass in / out	2 x 3.5 mm jack, DC coupled
Impedance input / output	22 k Ω / 470 Ω , unbalanced
Maximum input / output level	+19 dBu
Filter slope	6 dB / oct.
Noise	-100 dBu, 22 Hz - 22 kHz
High pass in / out	2 x 3.5 mm jack, DC coupled
Impedance input / output	22 k Ω / 470 Ω , unbalanced
Maximum input / output level	+19 dBu
Filter slope	6 dB/oct.
Noise	-90 dBu, 22 Hz - 22 kHz
Noise source, white	2 x 3.5 mm jack, AC coupled
Impedance	700 Ω unbalanced
Output level	0 dBu, 22 Hz - 22 kHz
Noise source, pink	2 x 3.5 mm jack, AC coupled
Impedance	700 Ω unbalanced
Output level	+4 dBu, 22 Hz - 22 kHz

Power

Power supply	Euro rack
Current draw	35 mA (+12 V), 45 mA (-12 V)

Physical

Dimensions	35 x 40 x 129 mm (1.4 x 1.6 x 5.1")
Rack units	8 HP
Weight	0.09 kg (0.20 lbs)

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