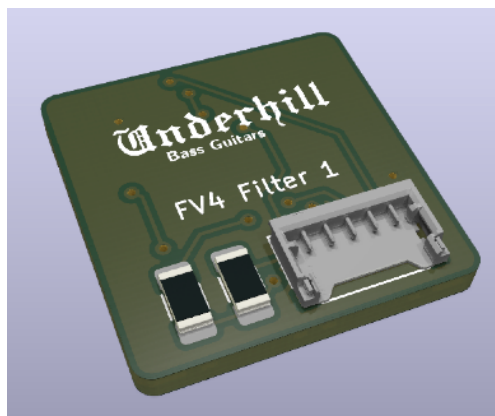
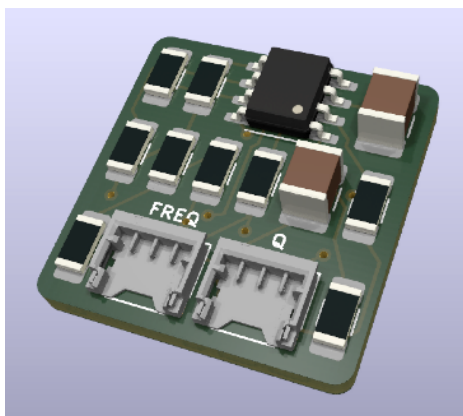


User Manual

FV5 Variable Filter

Overview

The FV5 Variable Filter is a plug-in resonant low pass filter module for the Underhill preamp system. It uses two potentiometers to select the cut-off frequency and the resonant boost level (Q) at the cut-off frequency. The FV5 filter is attached to the PD or PS preamp with a five wire filter cable, and has two three-wire connectors for the frequency and Q potentiometers.



Installation

Connect the filter to the desired filter slot on the PD or PS preamp with a five wire filter cable. Connect the three wire pot/switch cables between the labelled FREQ and Q connectors on the CD4 control pot and the FV5.

On the PD preamp, two FV5 filters are typically installed in the A and B filter positions for a dual filter setup, one per pickup. A single FV5 can be installed in the M position. On the PS preamp, one FV5 can be used in either A or M position.

Setup and Adjustment

There are no adjustments on the FV5. Test your filter(s) after installation to make sure both the frequency and Q controls are working. One thing of note with the FV5 is that the Q control is linear with respect to dB. This means that the resonance level is 1/2 of scale (5 dB) when the knob is at the center detent.

Specifications

The FV4 filter has the following specifications.

Supply voltage	9-18V (supplied by PD)
Resonant frequency (variable)	140-6100 Hz
Resonant peak (variable)	0 dB - 11dB
Idle Current	0.9 mA
Dimensions	18.6 x 18 x 5.3 mm

