

# VOYAGER

## TRANSISTOR LADDER FILTER

User Manual, 2023



### About

Experience the rich, warm, and iconic sound of the legendary Transistor Ladder filters with our new filter : **VOYAGER**.

Designed to Last, this cutting-edge filter module takes inspiration from **renowned filters** while introducing modern features for enhanced control and flexibility.

With the **selectable slope** feature, you can seamlessly switch between different filter slopes to **shape your sound**. Whether you prefer the gentle roll-off of a 6 dB per octave slope or the steep intensity of a 24 dB per octave slope, this filter has you covered. Our Transistor Ladder VCF incorporates a **gain compensation** circuit. This innovative feature ensures that the overall volume level remains consistent, regardless of the filter's resonance.

From subtle hints of resonance to resonant peaks that **cut through the mix**, adjust the resonance level to add **harmonic richness** and bring your sounds to life.

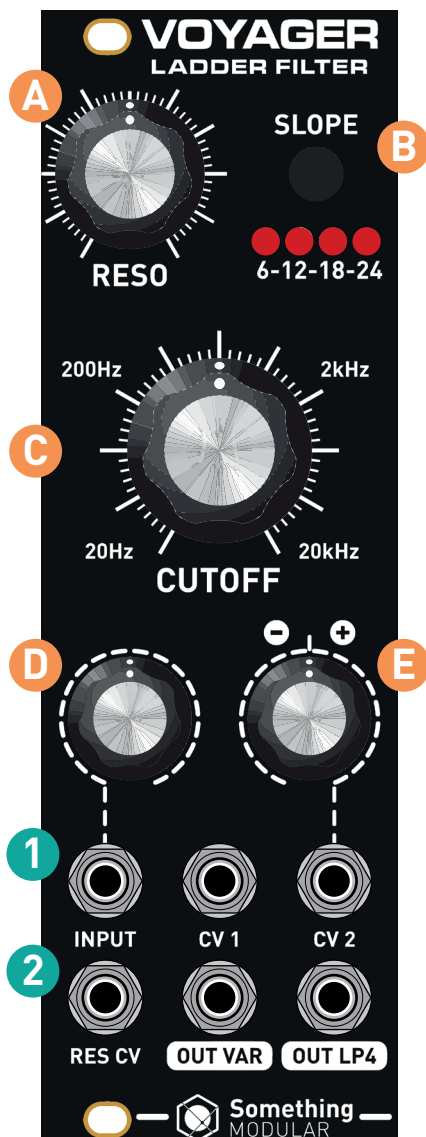
With its robust construction and **high-quality components**, this filter module ensures **long-lasting reliability**, so you can focus on making music without any worries. Whether you're producing electronic music, exploring experimental sound design, or seeking vintage analog warmth, this filter module is an indispensable tool in your **sonic arsenal**.

### Features

- Selectable Slope : from 6 dB to 24 dB.
- Gain Compensation at high resonance.
- CV control over Cutoff and Resonance.
- Dual audio outputs for Pole mixing.

### Specifications

- Module width : 8 HP
- Module depth : 33mm
- Power Consumption : 37mA at +12V / 31mA at -12V
- Reversed polarity protection



### Controls

#### A. RESO knob

Manual control for the filter resonance (emphasis).

It is still active when using RES CV control, in which case it acts as an offset control.

#### B. SLOPE Push-Button

Selection of the filter slope : from 6dB to 24dB.

At start-up, 6dB is selected by default.

#### C. CUTOFF knob

Manual control for the filter cutoff frequency.

At the minimum setting (fully counter clockwise) the filter will cut off most frequencies and at the maximum setting the filter will pass all frequencies.

It is still active when using CV controls, in which case it acts as an offset control.

#### D. Input Level knob

This knob controls the volume of the audio input.

#### E. CV 2 Attenuverter knob

This knob is an attenuverting potentiometer associated with CV 2 input.

### Inputs & Outputs

#### 1. First row : from left to right

- INPUT : Audio input.
- CV 1 : Direct input for Cutoff Frequency control.
- CV 2 : Attenuverted input for Cutoff Frequency control.

#### 2. Second row : from left to right

- RES CV : Direct input for resonance control.
- OUT VAR : Audio Output of the chosen slope section of the filter.
- OUT LP4 : Audio output of the 24dB section of the filter. This output is always active even if another slope is selected opening the possibility of Poles Mixing.