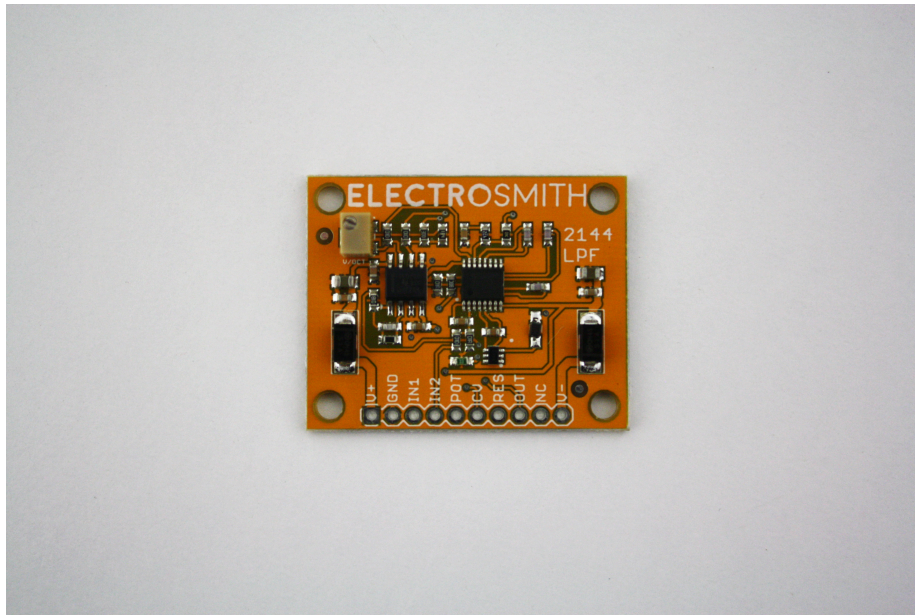


Electrosmith 2144 LPF



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ES 2144

Voltage Controlled Low Pass Filter

The 2144 LPF provides smooth, analog low pass sounds via the reissue of the classic SSM2044 filter IC. This chip has provided the filter section for many famous poly synths. Tracks musical intervals and self oscillates when resonance is at max.

- Voltage controlled analog low pass filter
- Uses reissue of classic SSM2044 filter IC
- 4 pole architecture (24dB per octave)
- Tracks musical pitch intervals
- Self oscillates pure sine tone with resonance at max

Electrical Characteristics

The board is designed for:

V+ = +12V

V- = -12V

Powering off of different supply levels (+/-4V to +/-16V) is possible, but will have an effect on the maximum output amplitude of the filter.

Parameter	min	max	units
Frequency Range	16	16000	Hz
Frequency Pot Input	-12	+12	V
Frequency CV Input	-6	+6	V
Res Input	0	+12	V

Pin Descriptions

1. V+

Positive Supply Input

Designed for +12V

Can operate between +4V and +16V

2. GND

Ground Connection

3. In 1

Audio Input 1

4. In 2

Audio Input 2

5. Pot

Filter Cutoff Control

Scaled so that the wiper of a pot wired between V+ and V- will control the range of the cut off frequency.

6. CV

Direct control voltage input for cutoff frequency

This control is scaled so that, with adjustment of the V/OCT trimmer, 1V/Octave tracking can be achieved with a control voltage input.

7. Res

Resonance Control Input

Scaled so that the wiper of a pot wired between V+ and GND will control the range of the resonance, self resonating at maximum.

8. Out

Audio Output

9. NC

No Connection Pin

10. V-

Negative Supply Input

Designed for -12V

Can operate between -4V and -16V