

Bastl Instruments – Cinnamon VCF

- [Manual PDF](#)
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[Full Manual \(PDF\) - Bastl Cinnamon State Variable Filter](#)

Bastl Cinnamon – Quick Reference Cheat Sheet

A **unique-sounding, multi-flavored state-variable filter** module, especially notable for its Drive and Character switches, allowing wild sonic shaping and self-oscillation.

Front Panel Controls

Knobs:

Knob Name	Function	Voltage/ CV Range	Notes
Cutoff	Sets filter cutoff freq (base freq + CVs).	—	Range determined by CV and pot combined.
Resonance	Emphasizes cutoff frequency; self-oscillates fully CW.	—	At max, filter will oscillate (sine/alt shapes).

Knob Name	Function	Voltage/ CV Range	Notes
Input Level	Sets audio gain (0–2 or 0–10 w/Drive switch).	—	Saturates input at high—affected by Drive switch.
FM (Attenuator)	Controls CV amount from Right CV input.	—	Full CCW = no CV modulation.

Switches:

Switch Name	Function
Drive	Up = overdrive input (gain 0–10), Down = normal (gain 0–2).
Char 1	Alters resonance/oscillation response (see "Character").
Char 2	Alters resonance/oscillation response (see "Character").

Jacks (Inputs/Outputs):

Jack	Type	Function	Voltage Range
Input	Audio In	Signal to filter	Audio levels; gain 0–10
V/OCT	CV In	1V/Oct FM of cutoff (tracking)	-5V to +5V typical CV
FM (Right)	CV In	Additional FM, amount by atten.	-5V to +5V typical CV

Jack	Type	Function	Voltage Range
Lowpass	Audio Out	12 dB/oct (2-pole) LP out	Eurorack audio (~±5V)
Bandpass	Audio Out	6 dB/oct (1-pole) BP out	Eurorack audio (~±5V)
Highpass	Audio Out	12 dB/oct (2-pole) HP out	Eurorack audio (~±5V)

Special Functions:

- **Character Switches:**

Down+Down: clean sine resonance

Up: sharper, edgier resonance waveform

Down: sawtooth-like resonance waveform

(Switches can disrupt V/Oct tracking/osc shape)

- **Self-Oscillation:**

Max resonance → acts as sine/altered wave VCO.

(LP = 0°, BP = 90°, HP = 180° phase offset)

Patch Examples:

- Routing audio in to Input, take filtered signal from any out (LP, BP, HP).
 - Use V/OCT for precision tonal FM (tracking best when Char switches *both OFF*).
 - Overdrive/filter for extra harmonics with Drive ON and Input Level up.
 - Modulate cutoff with FM input and attenuator for funky sweeps.
 - With high resonance, use as a sine/saw/edgy waveform VCO.
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Power Requirements:

- Width: **5HP**
 - Depth: **35mm**
 - +12V: <30mA, -12V: <30mA
 - PTC fuse and diode protected.
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Reference Links

- [Bastl Cinnamon Official Page & Video Tutorials](#)
- [Generated With Eurorack Processor](#)