

# Doepfer — A-121-3

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• [Manual PDF](#)

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[Doepfer A-121-3 12dB Multimode Filter Slim Line Series Manual](#)

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## Doepfer A-121-3 Cheat Sheet

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**Type:** Voltage-controlled multi-mode filter  
**HP:** 4  
**Depth:** 50mm  
**Current Draw:** +40mA (+12V) / -30mA (-12V)  
**Price:** ~€110  
**Cutoff Slope:** -12dB/octave  
**Freq. Range:** ~10Hz–20kHz  
**Features:** Simultaneous LP, HP, BP, Notch outputs

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## Inputs, Outputs, & Controls

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### Inputs

Jack	Function	Voltage Range / Notes
In	Audio signal input	Adjustable with <b>Level</b> knob
CV1	Filter cutoff control (1V/Oct)	~0–8V, no attenuator
CV2	Filter cutoff modulation	~0–8V, has dedicated attenuator ( <b>FCV2</b> )

Jack	Function	Voltage Range / Notes
<b>CQ</b>	Resonance (Q) control voltage	0–8V, no attenuator

## Outputs

Jack	Output Type	Notes
<b>LP</b>	Low-pass filtered output	
<b>HP</b>	High-pass filtered output	
<b>BP</b>	Band-pass filtered output	
<b>N</b>	Notch/Bandsperre filtered output	

## Knobs / Controls

Label	Function	Notes
<b>Frequ.</b>	Manual cutoff frequency	Sweeps filter freq. from 10Hz–20kHz
<b>Q</b>	Resonance (manual)	Full CW will self-oscillate (sine out)
<b>FCV2</b>	CV2 attenuator (modulation depth)	Ranges from 0 to full incoming voltage
<b>Level</b>	Audio input gain/attenuator	Start seeing distortion/clipping >5

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## Quick Reference

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- Use **In** for your audio source & adjust **Level** for input gain (beware distortion beyond position 5).
  - **Frequ.** sets the base cutoff frequency; **CV1** (1V/oct) and **CV2** (variable depth via **FCV2**) control cutoff via CV.
  - Patch an envelope, sequencer, or LFO to **CV1/CV2** for animation.
  - Patch a CV source to **CQ** for voltage control over resonance (**no attenuator** here).
  - **Q** knob manually sets resonance—self-oscillation possible when fully clockwise.
  - Simultaneous outputs: LP (Low-pass), HP (High-pass), BP (Band-pass), N (Notch).
  - Perfect for compact cases (4HP), similar in sound/function to A-121-2 but smaller (no CQ attenuator).
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## Voltage Ranges

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- **Cutoff frequency CVs (CV1, CV2):** expect standard modular levels (usually 0–8V), 1V/Oct on CV1.
  - **Resonance CV (CQ):** 0–8V recommended.
  - **Output audio:** Standard modular levels (typically  $\pm 5V$  peak-to-peak).
  - **Input audio:** Standard modular levels (adjust with **Level**).
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