

# Blue Lantern Modules – Voks Analog Filter

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- [Manual PDF](#)
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[BLM Voks Analog Filter Manual \(PDF\)](#)

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## BLM Voks Analog Filter – Cheat Sheet

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**Type:** Analog VCF (Voltage Controlled Filter)

**Format:** Eurorack (6HP)

**Current draw:** +13mA, -13mA

**MSRP:** \$103 (blowout), originally \$150

**Design:** Based on classic Polivoks filter, modernized parts with improved sweep.

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## Panel Overview & Controls

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### Inputs

Label	Type	Description	Voltage Range
IN (LEVEL)	Audio/ CV	Attenuated audio input via Level knob	Audio ±5V typical
CV IN	CV	Direct filter cutoff modulation input	CV 0-5V

Label	Type	Description	Voltage Range
FM (bi-polar CV)	CV	Frequency modulation (bi-polar) input, depth controlled	CV ±5V
1 IN	Audio	Direct, unattenuated audio input	Audio ±5V typical

## Outputs

Label	Type	Description	Voltage Range
LPF	Audio	Low Pass Filter output (12dB/oct, amplified)	Audio ±5V
BPF	Audio	Band Pass Filter output (6dB/oct, amplified)	Audio ±5V

## Switches & Buttons

Label / Type	Function	Notes
2-way Toggle	Filter Mode: <b>Normal / Unstable</b> <b>Brite</b>	Brite: unstable/ edgy
2-way Toggle	Limiter Diode in circuit: <b>On / Off</b>	For added saturation

## Knobs

Knob	Function	Range
LEVEL		0 → Max input

Knob	Function	Range
	Controls input gain (attenuates "IN")	
FM Amount	Controls depth of bi-polar FM	0 → Max depth (unlabeled, but present)

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## Feature Recap

- **Modes:**
  - **Normal:** Classic Polivoks timbre.
  - **Unstable Brite:** More aggressive/edgy, less predictable resonance.
  - **Limiter Diode:** Soft clipping/saturation switch for character and taming levels.
  - **Outputs:**
  - **LPF (12dB/oct):** Steeper, classic lowpass filter.
  - **BPF (6dB/oct):** Gentler bandpass flavor.
  - **Inputs:**
  - **Two audio ins:**
    - One level-controlled via the panel knob.
    - One direct, full strength.
  - **CV Control:**
  - **Direct CV input for cutoff.**
  - **FM input for wild modulations (bipolar).**
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## General Use Tips

- For classic filtering, use `IN` with the LEVEL knob, `LPF` out, switch in Normal/Diode off.
- For wild, unstable tones/noisy sweeps, use Unstable Brite mode and experiment with FM and Limiter engaged.
- Use both LPF and BPF outs for parallel or stereo effects.
- Bi-polar FM accepts full audio-rate CV for aggressive timbres.

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## Reference Links

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[BLM Voks Analog Filter Manual \(PDF\)](#)

[Generated With Eurorack Processor](#)