

2hp — MMF

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Creative Patching Ideas for the MMF 2HP Multimode Filter

The **MMF** is a versatile 2HP analog multi-mode filter offering simultaneous low-pass (LP), high-pass (HP), and band-pass (BP) outputs with voltage control over the cutoff frequency and resonance. Here's how you can stretch its sonic capabilities in your Eurorack system:

1. Triple-Output Parallel Processing

- **Try This:** Split a complex audio source (e.g., a multi-oscillator drone or drum loop) into all three outputs (LP, HP, BP).
- **Process Together:** Send each output to different destinations for processing:
 - LP → Reverb (e.g., Erica Synths Pico DSP)
 - BP → Delay (e.g., Make Noise Mimeophon)
 - HP → Wavefolder or Distortion (e.g., Tiptop Audio Fold Processor or Intellijel uFold)
- **Combine Back:** Mix these individually processed outputs for a rich, multi-layered effect.

2. Dynamic Spectral Animation Using CV

- **Cutoff Modulation:** Patch an LFO (e.g., Doepfer A-145, or Maths ch1/4 if available) into the **FREQ** CV input for slow morphing or fast squelchy sweeps.
- **Envelope Animation:** Use an envelope generator (e.g., Make Noise Function, Intellijel Quadra) to CV the cutoff or resonance, shaping filter movement with your note events.
- **Sequencer Pings:** Use rhythmic gates/triggers from a sequencer (e.g., Pamela's New Workout) into a sample-and-hold or stepped random CV, then patch into **FREQ** for unpredictable filter motion.

3. Self-Oscillation & Resonant Percussion

- **Ping It:** With high RESO settings, “ping” the filter by sending short envelopes or triggers to the audio input.
- **Result:** You get a resonant, sine-like burst—great for modular percussion, bell tones, or tuned drums. The frequency becomes “pitch”.

4. External CV Feedback

- **Audio Feedback:** Try patching the BP output back into the audio input, possibly through an attenuator or VCA for feedback control. You'll get wild, unstable textures and self-oscillating chaos.
- **CV Feedback:** Patch a spare BP or HP output into another module's CV processing chain—attenuverter, VCA, or sample/hold—and return as a CV to the MMF's FREQ or RESO input for evolving, self-modifying sounds.

5. Formant & Vowel Synthesis

- **Formant Filtering:** With three filter outputs, take three sound sources into a mixer, each processed with different filter types/positions. Modulate cutoffs individually to morph between synthetic vowel sounds.

- **Voice-Like FX:** Modulate cutoff frequencies with slightly offset LFOs for shimmering, voice-like textures.

6. Creative Sidechaining & Frequency Keying

- **Envelope Follower:** Feed a drum or vocal loop into an Envelope Follower module (e.g., Mutable Instruments Ears, or Doepfer A-119). Use the follower's CV output to modulate the MMF's cutoff or resonance, causing the filter to "duck" or "sweep" in response to another signal.

7. Waveshaping/Distortion Pre-Filter

- **Waveshape First:** Pass your oscillator through a wavefolder (e.g., Befaco Chopping Kinky), then into the MMF. Sweep the filter frequency to emphasize or tame specific harmonics of the distorted sound.

8. Stereo Spectral Splitter

- **Clever Patch:** Use LP for the left channel, HP for the right, or swap for extra weirdness. Pan both outputs for wide, spectral stereo effects!

Recommended Companion Modules

- **Utility Modules:** VCAs (for feedback, level control), Attenuverters, Mixers, Envelope Generators, LFOs
 - **Effect Processors:** Reverb, Delay, Distortion/Wavefolder/Waveshaper
 - **Random/S&H:** For chaotic CV animation
 - **Audio Splitter/Mult:** To rout one signal into multiple filter types
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More Info

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