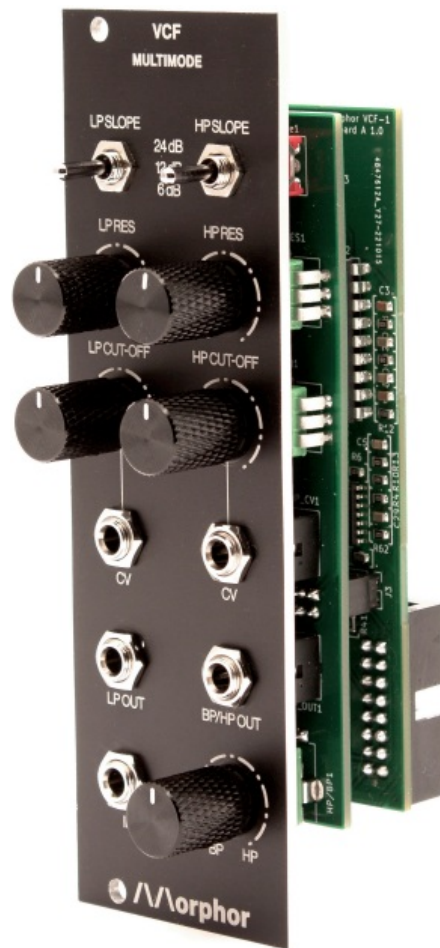


Morphor Multimode VCF 8HP Analogue Filter Module User Manual

[Home](#) » [Morphor](#) » Morphor Multimode VCF 8HP Analogue Filter Module User Manual 

Morphor Multimode VCF 8HP Analogue Filter Module User Manual



Contents

- 1 Introduction
- 2 Module overview
- 3 Package Contents
- 4 Safety Instructions
- 5 Installation
- 6 Controls & Connections
- 7 Technical Specifications
- 8 Warranty
- 9 Conformity
- 10 Module Revision History
- 11 Manual Version
- 12 CUSTOMER SUPPORT
- 13 Documents / Resources
 - 13.1 References

Introduction

The Morphor Multimode VCF is an intuitive but feature-packed 8HP analogue filter module. Featuring a dedicated lowpass and high pass filter core, this module offers a lot of flexibility to create unique filter characteristics.

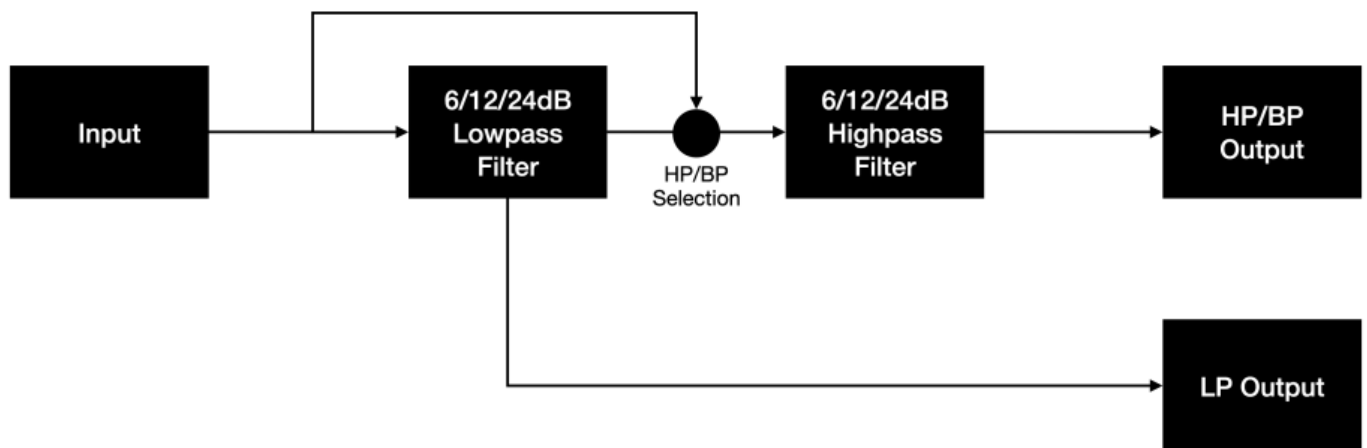
To shape the sound exactly the way you want, both filter sections have cutoff control over the whole audible frequency range through a knob and bipolar CV jack. Additionally, resonance control and a switchable pole selection are available to offer a wide range of options.

The second output acts as both a Bandpass and High pass output, depending on the position of the BP/HP mixing knob.

Combining all these features results in an easy-to-use but flexible module for all your filtering needs.

Happy morphing!

Module overview



Package Contents

In the Morphor Multimode VCF box you will find:

- The Morphor Multimode VCF module itself
- A 16-to-16-pin Eurorack power cable (already plugged in)
- 2 high-quality thumb screws including washer
- An original Morphor brand sticker

If any of the above items is missing, please contact your dealer or send an email to support@morphor.io.

Safety Instructions

1. Never use the instrument in a humid or wet environment, nor near flammable goods.
The instrument must never be operated outdoors but solely in dry rooms.
2. No liquids or conducting substances must get into the instrument.
Should this be the case, the instrument is to be disconnected from mains power immediately and examined, cleaned and possibly repaired by a qualified technician.
3. Never expose the instrument to temperatures above +50° C or below -10° C. Before operation, the instrument should have a temperature of at least 10° C. Do not expose the instrument to direct sunlight.
Do not install the instrument near heat sources like heaters, open fire places, central heating etc.
Keep the top of the instrument clear in order to allow proper ventilation, otherwise the instrument could eventually overheat.
4. Never place heavy objects on the instrument.
5. Transport the instrument carefully, never let it drop or fall over.
Make sure that during transport and in use the instrument is supported properly and cannot drop, slip or fall over because people might get injured.
6. The instrument may only be used for the purpose described in this operating manual.
Due to safety reasons, the instrument must never be used for other purposes

Installation

Before you start

Morphor modules are designed to be used with an Eurorack-compatible case and power supply.

We recommend you to use a case with an adequate high-quality power supply.

Before installing the module in your case, you must ensure your power supply has a free Eurorack standard PSU connector (2×8 pin header connector) and sufficient available capacity to power the module:

1. Make a separate sum of the +12 V, -12 V and +5 V maximum current draws respectively for all your modules, including the new one.

The maximum current draw is specified in the manufacturer's technical specifications for each module.

You can use a tool like ModularGrid to help you calculate the total values for your case.

2. Compare each of these sums to the specifications of your case's power supply.
3. Proceed only with the installation if none of the total values exceeds the power supply's specifications.

Otherwise you must remove some modules to free up some capacity or upgrade your power supply to allow more capacity in your case.

If you do not adequately power your modules, it may result in damage to your modules or power supply. If you are unsure, please contact us before proceeding.

4. Make sure your case has enough free space (HP) to fit the new module.

To prevent screws or other debris from falling into the case and shorting any electrical contacts, do not leave gaps between adjacent modules, and cover all unused areas with blank panels.

Similarly, do not use open frames or any other enclosure that exposes the backside of any module or the power distribution board.

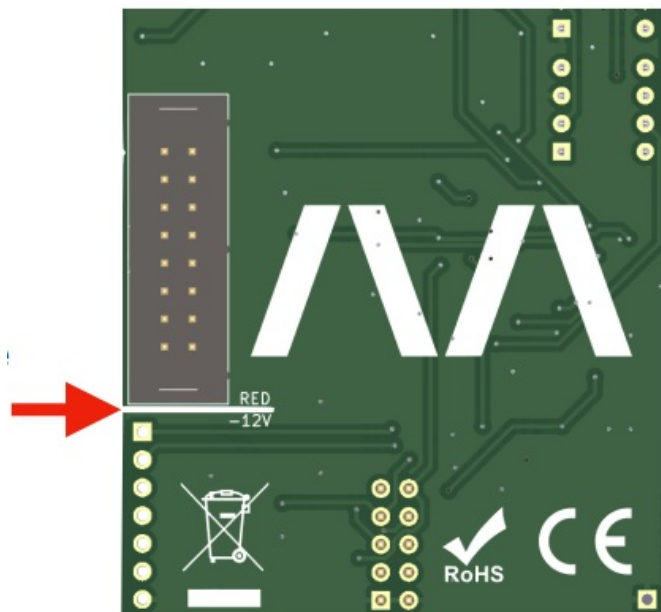
Installing your module

Always turn off the power to the case and disconnect the power cable when installing or removing a module from your case to avoid injury or equipment damage.

The Morphor Multimode VCF uses the -12 V and the +12 V rail of the power supply (using a standard Eurorack 2×8 pin connector).

The red stripe of the included ribbon cable (-12 V side) must be oriented on the same side as the "RED -12 V" marking on the module and on your Eurorack power distribution board.

The module draws a maximum current of 35 mA from the +12 V rail and maximum 50 mA from the -12 V rail.



Controls & Connections

- **INPUT [1]**

Insert your audio signal in this protected input.

- **CUTOFF [2]**

Set the cutoff frequency of the Lowpass or Highpass filter with these controls.

The cutoff can sweep through the whole audible frequency range to get complete control over your sound.

- **CUTOFF CV [3]**

Bipolar CV jack to add extra cutoff frequency modulation.

- **RESONANCE [4]**

Set the amount of resonance of each filter section with these separate controls.

Add enough resonance to make the module self-oscillate.

Dual sine VCO for free!

- **SLOPE SELECTION [5]**

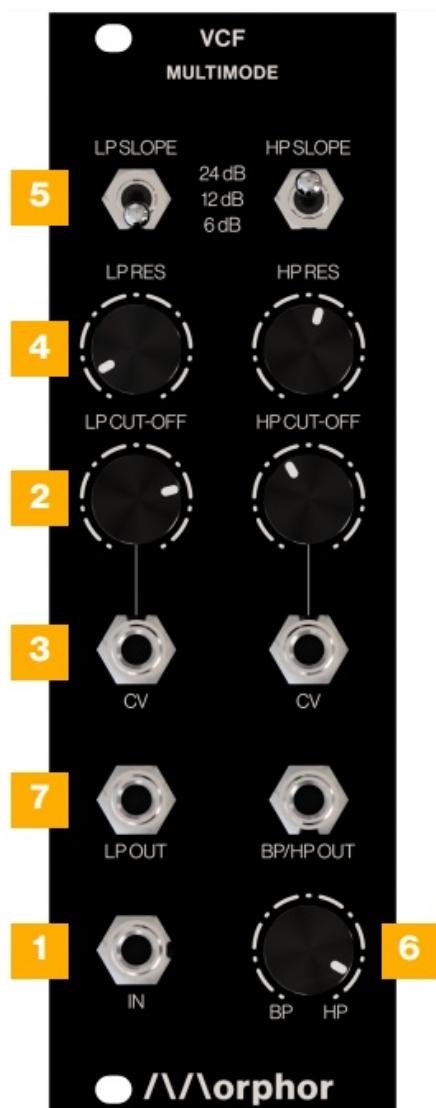
Create unique and interesting bandpass filters with the flip of a switch! You can change the slope of both filters separately with these toggles.

- **BP/HP MIX [6]**

By turning this control you can change how much Lowpass filtering happens on the BP/HP output. Go for a strong bandpass, a clean highpass, or something in between.

- **OUTPUT [7]**

Your uniquely shaped analogue audio output.



Technical Specifications

module width	8 HP (40.3 mm)
module height	3 U (128.5 mm)
module maximum depth (incl. power cable)	40 mm
module mass	110 g
maximum current draw	35 mA @ +12 V 50 mA @ -12 V
input impedances	100 kOhm
output impedances	1 kOhm
front panel	2 mm anodized aluminum

Warranty

THIS PRODUCT IS COVERED BY MORPHOR'S LIMITED WARRANTY, FOR TWO YEARS FOLLOWING THE DATE OF PURCHASE (PROOF OF PURCHASE/INVOICE REQUIRED).
THIS WARRANTY COVERS ANY DEFECT IN THE MANUFACTURING OF THIS PRODUCT.

THIS WARRANTY DOES NOT COVER ANY DAMAGE OR MALFUNCTION CAUSED BY INCORRECT USE – SUCH AS, BUT NOT LIMITED TO: POWER CABLES CONNECTED BACKWARDS, WRONG POWER SUPPLY VOLTAGES, BACKWARDS OR REVERSED EURORACK BUS BOARD CABLE CONNECTION, EXCESSIVE VOLTAGE LEVELS, ABUSE OF THE PRODUCT, REMOVING KNOBS, CHANGING FACE PLATES, EXPOSURE TO EXTREME TEMPERATURE OR MOISTURE LEVELS, OR ANY OTHER CAUSES DETERMINED BY MORPHOR TO BE THE FAULT OF THE USER ARE NOT COVERED BY THIS WARRANTY, AND NORMAL SERVICE RATES WILL APPLY.

THE WARRANTY COVERS REPLACEMENT OR REPAIR, AS DECIDED BY MORPHOR.
PLEASE CONTACT OUR CUSTOMER SERVICE (SUPPORT@MORPHOR.IO) FOR A RETURN AUTHORIZATION BEFORE SENDING THE MODULE.
THE COST OF SENDING A MODULE BACK FOR SERVICING IS PAID FOR BY THE CUSTOMER.
CHANGES AND/OR MODIFICATIONS TO THE MODULE NOT APPROVED BY MORPHOR COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

THE INSTRUMENT IS TO BE SHIPPED IN THE ORIGINAL PACKAGING ONLY.
ANY INSTRUMENT SHIPPED TO US FOR RETURN, EXCHANGE, WARRANTY REPAIR, UPDATE OR EXAMINATION HAS TO BE IN ITS ORIGINAL PACKAGING! ALL OTHER DELIVERIES WILL BE REJECTED.
THEREFORE, MAKE SURE YOU KEEP THE ORIGINAL PACKAGING AND TECHNICAL DOCUMENTATION.

PLEASE FOLLOW THE INSTRUCTIONS FOR USE OF THE INSTRUMENT CAREFULLY BECAUSE THIS WILL GUARANTEE PROPER OPERATION OF THE INSTRUMENT.
DUE TO THE FACT THAT THESE INSTRUCTIONS TOUCH ON PRODUCT LIABILITY, IT IS ABSOLUTELY IMPERATIVE THAT THEY BE READ CAREFULLY. ANY
CLAIM FOR DEFECT WILL BE REJECTED IF ONE OR MORE OF THE ITEMS HAS NOT BEEN OBSERVED.
DISREGARD OF THE INSTRUCTIONS CAN VOID THE TWO YEARS COVERED BY WARRANTY.

Conformity

This device meets the requirements of the following standards and/or directives: 2014/30/EU, 2014/35/ EU, 2009/125/EC, 2011/65/EU, 2012/19/EU, EN 60065, EN 55032, EN 55035.

Please refer to the online Declaration of Conformity for detailed information regarding compliance



Module Revision History

Revision 1.0 – initial release

Revision 1.1

Manual Version

28/11/2022 – initial release

20/04/2023

CUSTOMER SUPPORT

To provide the best possible performance with the highest quality and reliability for music professionals, all Morphor's products are designed, manufactured and tested in-house with the highest possible standards.
In case your module is not functioning as it should, make sure to check your Eurorack power supply and all

connections first.

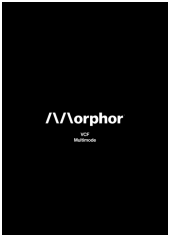
If the problem persists, contact your dealer or send an email to support@morphor.io.

Please mention your serial number, which can be found on the module's rear side.

<https://www.morphor.io>



Documents / Resources

	<p>Morphor Multimode VCF 8HP Analogue Filter Module [pdf] User Manual Multimode VCF, Multimode VCF 8HP Analogue Filter Module, 8HP Analogue Filter Module, Analogue Filter Module, Filter Module</p>
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References

- MG [Morphor VCF - Multimode - Eurorack Module on ModularGrid](#)
- ^^ [Morphor - Radical Acoustics](#)