

FPF

Fixed Passive Filter

User Manual & Build Guide



1. Intro

What is the FPF?

The FPF Fixed Passive Filter is a simple utility filter with fixed cutoff frequencies for Highpass, Lowpass and Bandpass. If you want to roll off the high frequencies or eliminate some rumble on synth sounds it does a pretty good job cleaning up signals. It is a simple passive RC filter

combination and therefore causes a little loudness drop on your signal.

This DIY kit is very beginner friendly.

Do It Yourself

We we deliver all parts, you build it together on your own risk. We can't accept any responsibility for damage to the synthesizer caused by improper installation or shitty DIY skills. You need some soldering skills and some tools. If you ex-

perience wrong parts, please get in contact with us. Before powering up, please check everything carefully. That's your part of the success.

Intended use and safety instructions

The FPF Fixed Passive Filter is designed to be mounted into a 3U Eurorack case. It doesn't require power to operate. The MLT Passive Multiple is not intended for operation in or under water or at high humidity. Conductive and/or corrosive liquids, gases, aerosols, oils or

vapours may damage or destroy the equipment, regardless of its operating condition. The same applies to fires or temperatures above 85°C/185°F.

Contact & responsible

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WEEE Reg-Nr.: DE94097895

Disposal

For private households: Information on disposal for users of WEEE

This symbol (figure on the right) on the product(s) and / or accompanying documents means that used electrical and electronic equipment (WEEE) should not be mixed with general household waste. For proper treatment, recovery and recycling, please take this product(s) to designated collection points where it will be accepted free of charge. Alternatively, in some countries, you may be able to return your products to your local retailer upon purchase of an equivalent new product.

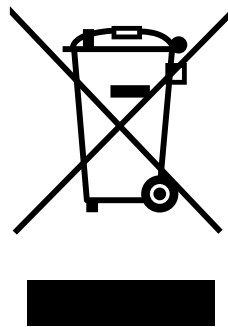
Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling. Please contact your local authority for further details of your nearest designated collection point. Penalties may be applicable for incorrect disposal of this waste, in accordance with your national legislation.

For professional users in the European Union

If you wish to discard electrical and electronic equipment (EEE), please contact your dealer or supplier for further information.

For disposal in countries outside of the European Union

This symbol is only valid in the European Union (EU). If you wish to discard this product please contact your local authorities or dealer and ask for the correct method of disposal.



Specifications

Mechanical

Width: 2 HP, 10 mm

Height: 128,5 mm

Depth: 27 mm

Weight: 25 g

Power

No power required

2. How to build the damned thing?

General info

This is a beginner friendly DIY project. You don't need that much DIY and soldering skills. If you are a beginner, make sure to watch at least one of the recommended tutorials for soldering electronics:

www.exploding-shed.com/info

Also you should have a minimum knowledge about how to identify the polarity of electronic parts. We do our best to highlight these important info on the little bags.

Needed tools

You will need the following tools or just adapt the process to what you have at home.

- Soldering iron
- Solder
- Pliers / Nut-Tool Set
- Wirecutter

2.1. Soldering the FPF

You need basic soldering skills, a good iron and solder wire. We already mentioned the tutorials before. Some parts have a polarity, this is mentioned on the bag-labels in red. You should know about how to identify the polarity of electronic parts. If not, do your research first.

- Generally you start with the most flat components and „work your way up“.
- Start with the resistors for R1, R2, R3 and R4
- Make sure they are flat against the PCB.
- Next you can solder the capacitors for C1, C2, C3, and C4.
- Start by putting the Thonkiconns into place and turn the PCB around to the soldering side.
- Solder just one Pin of each Thonkiconn first.
- Check carefully if all Thonkiconns sit flat on the PCB surface.
- If not, heat up the soldering joint of the misplaced Thonkiconn again and push it into place.
- Then you can go on soldering the remaining soldering pads.
- Now you are done. Congratulations!

2.2. Assembling the frontpanel

- Start by putting the frontpanel on.
- Now tighten the nuts onto the Thonkiconns.
- For this task we recommend the use of a proper Nut-Tool set.
- Done.

Thank you!

We hope you are happy with our product.

Feel free to post pictures about your build on Instagram and Facebook and let people know about us and what we do. This kind of positive community support is very important to us. **Thank you!**

www.leaf-audio.com

www.facebook.com/leafaudio

www.instagram.com/leafaudio

Main distributor for FPF in the EU is: www.exploding-shed.com