

Gotharman's Tubaz

12 dB Tube Bandpass Filter Eurorack Module



User Manual

Thank you very much for purchasing / consider to purchase my TubaZ eurorack module.

Please read this manual before setting up your TubaZ, to avoid malfunction caused by wrong handling.

TubaZ are a 12 dB tube bandpass filter with the controls CutOzzz, Rezonanz and Drive. CV control are possible of all 3 parameters. I designed it with the purpose of adding crunch, edge and distortion to my eurorack system. It is not an ideal bandpass filter, that cuts off all frequencies above and below the center frequency. Because of its high drive, there are, in most cases, some bleedthrough of the harmonics, that should have been cutted off. You might consider calling it a "Band Add" filter. The main purpose of it, was to add edge, not to be a perfect bandpass filter.

CutOzzz controls the center frequency of the filter. Harmonics at frequencies above and below the cutozzz frequency, are cutted off with a slope of 12 dB. Because of the structure of this filter, there might be some bleedthrough of frequencies, that should have been cutted off.

Rezonanz controls the sharpness of the filter.

Drive controls the input level of the audio signal going through the filter. At higher settings this will cause the filter to distort, depending on the level of the input signal.

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Preparing TubaZ

When you receive your TubaZ, a strip of bubble wrap will be attached to it, to protect the tube. Remove this carefully, by cutting it with a pair of scissors in one of the sides, between the faceplate and the PCB, and carefully lift it off.



Connecting The Power Cable

TubaZ should be installed in a Eurorack case.

It requires:

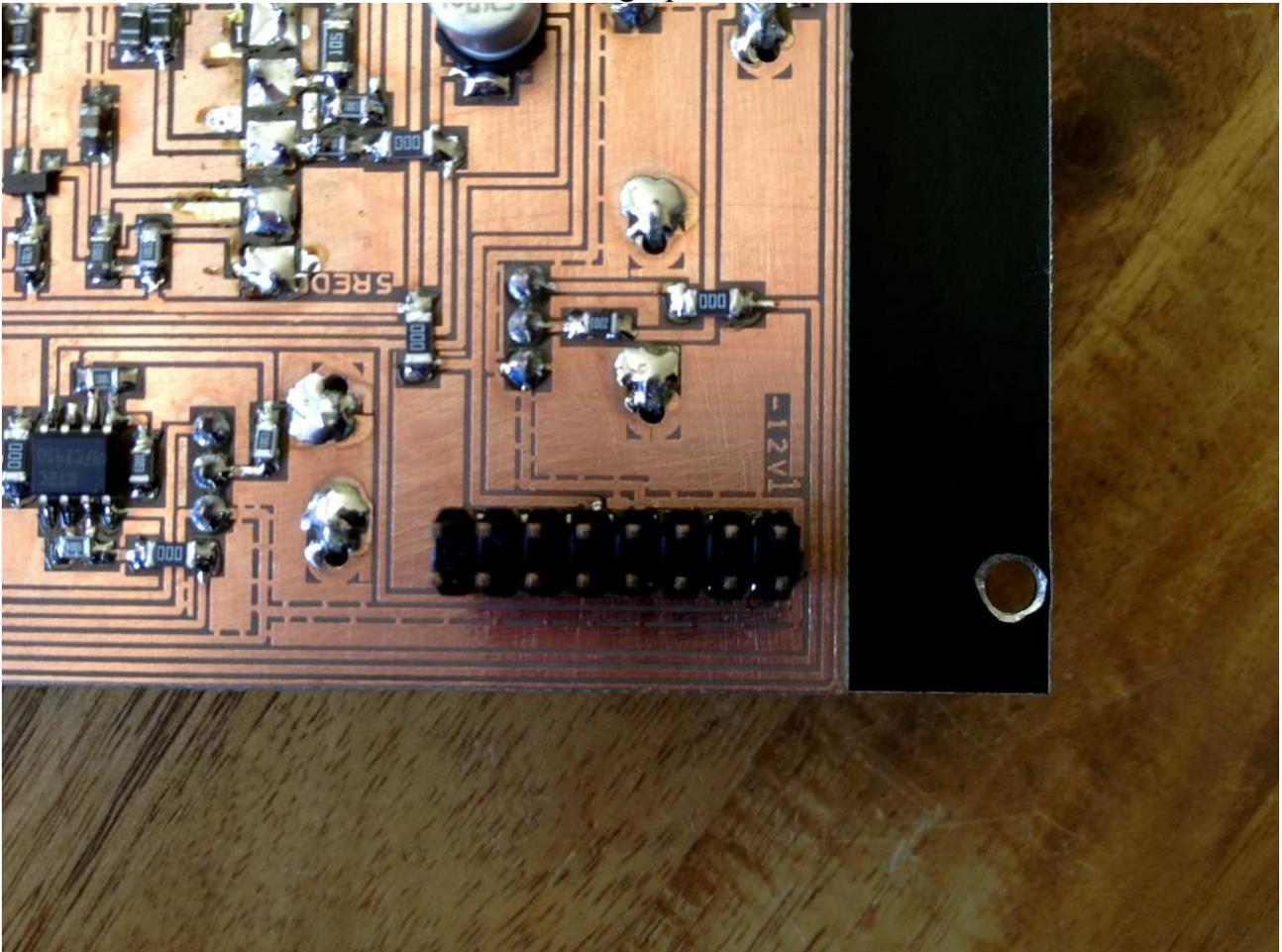
-18 HP of space.

- +/- 12 volts. DO NOT connect it to any other voltage than this, as it might damage the tube.

-94 mA current.

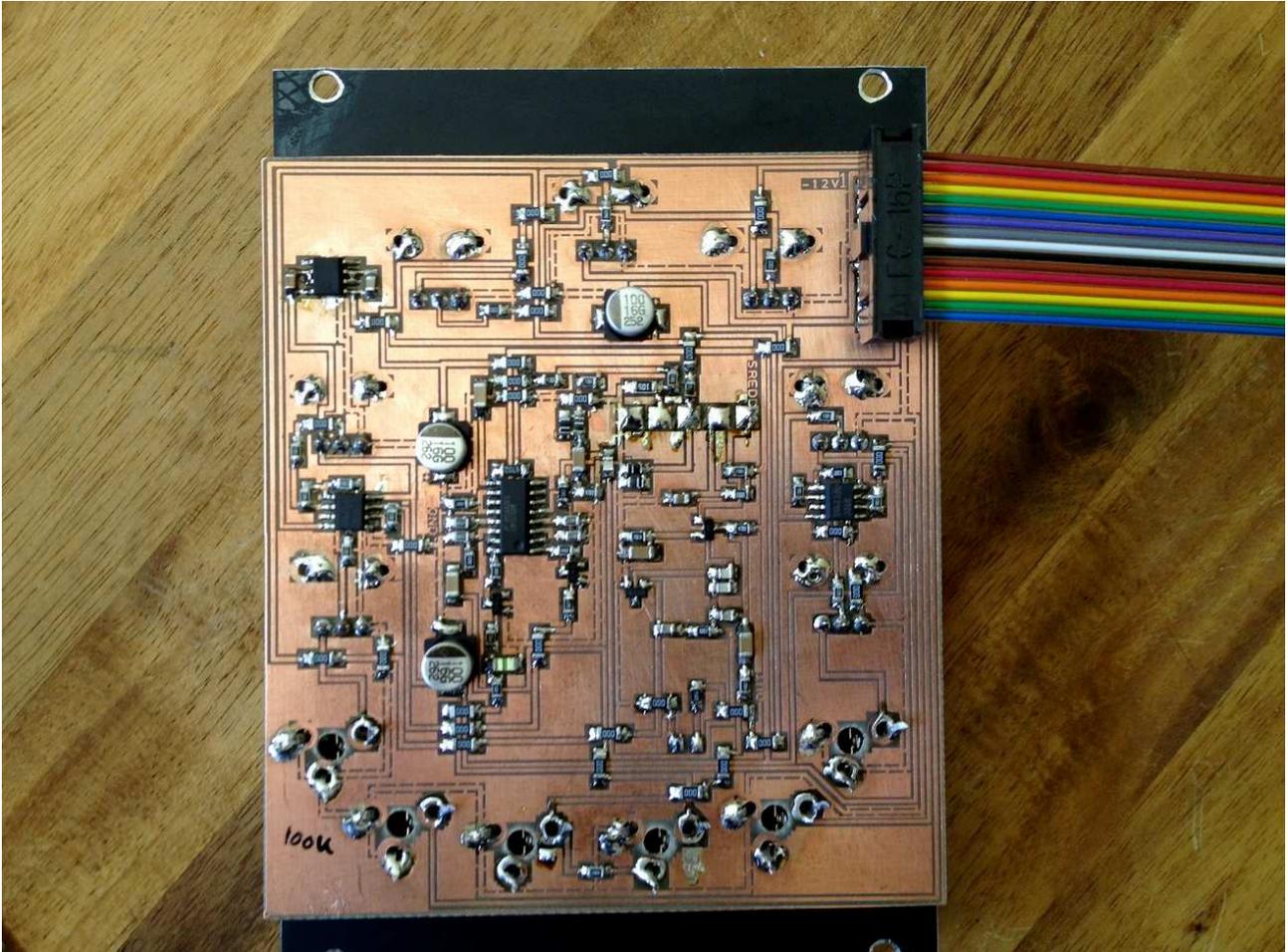
-Connections to other Eurorack modules, using minijack cables.

The power connector of TubaZ, at the upper right corner of the PCB, is marked with "-12V", at the end of the connector, facing upwards.



This is pin 1, and the -12 volt from your Eurorack power board, should be connected to this pin.

If your TubaZ came with a multicoloured 16-core flat-cable, the brown core should be placed at pin 1. If it came with a grey/red cable, the red core should be connected to pin 1.



Mount the other end of the power cable to the powerboard of your Eurorack case. Make sure, that pin 1 is connected to -12 volt.

Mount TubaZ in your Eurorack case, using screws.

Connecting With Other Modules

The usual way of connecting TubaZ, would be to connect an audio source to Audio In, connecting Audio Out to another audio input and connecting modulation sources to the 4 CV inputs, but this is modular, so please feel free to experiment.

It is though, not recommended to connect 2 or more outputs to each other. The only output on TubaZ is the Audio Out. All other connections are inputs.

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