

Seaweed Fuzz

Based on:
FuzzHugger Algal Bloom

Effect type:
Harmonically rich fuzz

Build difficult:
Low

Amount of parts:
Low, total 25 components

Technology:
Silicon NPN Transistors

Power consumption:
9V

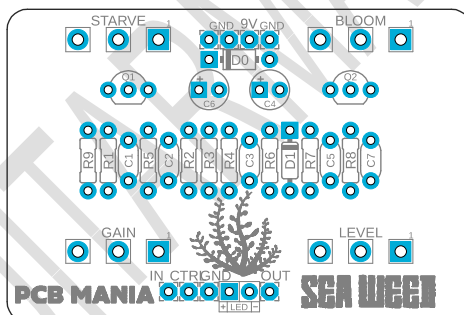
Enclosure type:
125b

Get your board at:
[Seaweed Fuzz](#)

Get your kit at:
[Das Musikding \(Europe\)](#)

Project overview:

Harmonically rich Fuzz with great definition and texture. Inspired by Algal Bloom v1 by Fuzzhugger FX.



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Introduction

From the very first moment you try this fuzz, you will be blown out by the richness of its screaming harmonics and its chord-friendly definition. Yet, you will keep on yourself amusing by the versatility of this little board as it shows its capability from delivering a wide range of tones from mellow to gritty overdriven tones to heavy thick, saturated fuzz, keeping always sparkling harmonics and pristine note definition!

To clarify, this board is inspired by the first version of the Algal Bloom by Fuzzhugger fx, but after trying this machine, we can sure that realizing a version inspired on v2 featuring some extra features is a matter of time!

Meanwhile, you can take a look at its doomy bass-friendly [Doom Boom](#) that shares quite in common with the Seaweed.

This circuit has been verified with both 2n5088 and 2n5089, but you can socket and try some other alternatives as mpsa18 and share your results with our pedal builder community!

Controls

- BLOOM
- GAIN
- LEVEL
- STARVE

Bill of materials

Resistors	
Part	Value
R1	1k
R2	1m
R4	47k
R5	1k
R6	1m
R7	100k
R8	4k7
R9	1m

Capacitors	
Part	Value
C1	470p
C2	100n
C3	100n
C5	100n
C7	47n

Electrolytics Capacitors	
Part	Value
C4	2u2
C6	100u

Potentiometers	
Part	Value
BLOOM	100k A
GAIN	500k B
LEVEL	100k A
STARVE	100k A

Transistors	
Part	Value
Q1	2N5089
Q2	2N5089

Diodes	
Part	Value
D0	1n5817
D1	1n914
LED	3mm Red LED

Shopping list

Resistors		
Qty	Value	Parts
1	100k	R7
2	1k	R1, R5
3	1m	R2, R6, R9
1	2m2	R3
1	47k	R4
1	4k7	R8

Capacitors		
Qty	Value	Parts
3	100n	C2, C3, C5
1	470p	C1
1	47n	C7

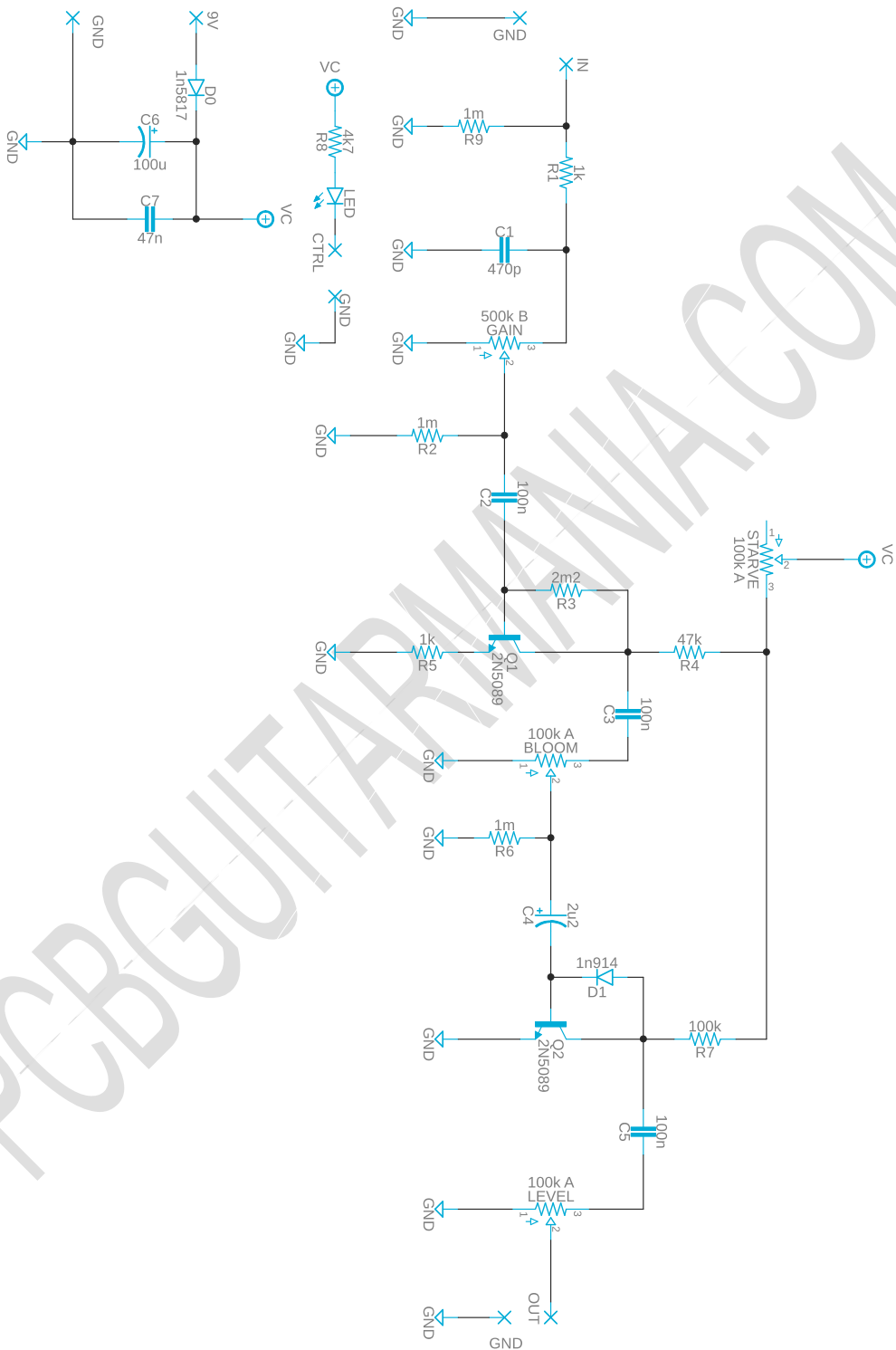
Electrolytics Capacitors		
Qty	Value	Parts
1	100u	C6
1	2u2	C4

Potentiometers		
Qty	Value	Parts
3	100k A	BLOOM, LEVEL, STARVE
1	500k B	GAIN

Transistors		
Qty	Value	Parts
2	2N5089	Q1, Q2

Diodes		
Qty	Value	Parts
1	1n5817	D0
1	1n914	D1
1	3mm RED LED	LED

Schematic



Components Recommendations

As many people like to experiment with some pedals with higher voltage, always ensure your **electrolytic capacitors'** max tolerance is over 25v.

This board has been tested using Film box capacitors for most of the values over 1nf and ceramics discs for those under 1nf. However, high-quality components such as Wima's Capacitors and Panasonic's electrolytics can deliver a better performance.

All the resistors used for testing this project are 1/4W Metal Film.

The BOM and Shopping list are exclusive regarding this project. It doesn't include all the hardware like the 3PDT bypass switch, audio/dc jacks, enclosure, etc.

Build Notes

If this is one of your first projects, I recommend you to take a look at our [Pedal Building Guide](#).

For a successful and tidy build, it's recommended the following order:

1. Resistors & diodes
2. Capacitors, starting with the smaller ones and the ceramic ones.
3. Electrolytic capacitors (always check the polarity)
4. Transistors
5. Wires
6. Potentiometers and switches
7. Off-board wiring

Wiring Diagram

All our projects include a free 3PDT Board to make the wiring easier and tidier. Also, all of our PCBs feature the status LED on board.

The pad named "Ctrl" or "LED" is the one that controls the status of the led; wire it to the "LED" pad on the 3PDT board or in the control slug of your 3PDT.

This board has been designed to match our EZ 3PDT PCB; check it [here](#) to access our [Pedal Wiring Guide](#).

Drill Template

This Project has been planned to fit into a 125b enclosure type.

Check the Attached “Drilling templates” to drill the box properly. The files are on Scale 1:1, ready to print on an A4 page.

Licensing and Usage

We really appreciate your trust and support in buying this PCB, as well as your will to dive into the DIY electronics world. For us, that's why you can make this project work properly and enjoy not only the building process but also experiment and play with it on your rig.

We try to reply to every question we receive on our email or our social media. Still, we try to encourage all our customers to join our [PCB Guitar Mania - Builders Group](#) on Facebook to post all your doubts, issues, suggestions, or requests, share your builds, and have some feedback from other fellow builders and us!

All of our projects have been tested following this same guide on their standard configurations. Although, not all of the variations and mods have necessarily been tested. These are suggestions based on the schematic analysis and the experiences and opinions of others. Feel free to share with us your views and recommendations regarding the mods your personal experimentation.

These boards may be used for commercial endeavors in any quantity unless expressly noted. No attribution is necessary, though accreditation or a link back is always much appreciated.

If you are a builder planning to make your own run of pedals, we also offer the service of custom-made boards with your brand and logo, design according to your specifications.

The only usage restrictions are that, first, you cannot resell the PCB as part of a kit without prior arrangement with us, and second, you cannot scratch off the silkscreen or other way of trying to hide our logos and the source of the PCBs. Like it's written above, if you want to have your designs with your brand and logo, we could undoubtedly reach an agreement.

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