Cherry Fuzz

Based on:
Frantone Peach Fuzz

Effect type:
Fuzz-drive

Build difficult:
4/10

Amount of parts:
Average, total 29 components

Technology:
OpAmp

Power consumption:
9V

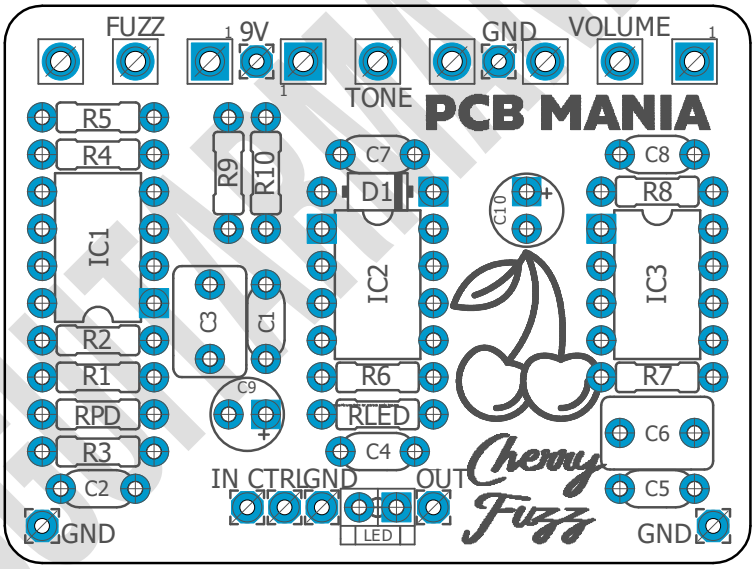
Enclosure type:
125b

Get your board at:
Cherry fuzz

Get your kit at:
Das Musikding (Europe)

Project overview:

Are you looking for an original Fuzz not related with the classics big muff, fuzz faces, tone bender? Look no further, this is the fuzz you were craving for! This is an original design by Frantone on hers Peach fuzz, which sonically reminds of a cross over between Cornish G2 and a Klon.



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Introduction

Developed on the early 90's the Peach fuzz is definitely one of its kind. A total unique circuit usually associated with the Big Muff family because of its wide and girthy sonic structure but with a way better response on the high end that reminds to a Klon, reacting in the same way to the dynamics of your playing style being extremely touch sensitive and responsive, while keep on clarity and definition at every possible dial.

High end is what defines the Peach fuzz, not just talking about the high frequencies of it's tone, but about the overall design of this circuit. You can hear clearly it was a very well-conceived and designed pedal that will make your walls shake with dark rumbling overtones on the low end and those prominent upper second and third harmonics peeking out for a well-balanced overdriven tone once you roll of the volume of your guitar.

We can guarantee that if you are looking for a different and fresh fuzz, building and playing this pedal will draw a smile on your face for sure!

Don't forget to use a **TL2262*** for IC1 as this rail to rail dual opamp is part of the secret sauce that makes this pedal great. You might try other Dual opamps, but we can't guarantee the same result.

Controls

- FUZZ
- Tone
- Volume

Bill of materials

Resistors	
R1	33k
R2	100k
R3	560k
R4	9k1
R5	100r
R6	120k
R7	10k
R8	39k
R9	33k
R10	33k
RLED	4k7
RPD	1m

Electrolytics Capacitors	
C9	10u
C10	100u

Potentiometers	
FUZZ	10k A
TONE	10k B
VOLUME	100K B

Capacitors	
C1	100n
C2	100p
C3	1u
C4	100n
C5	18p
C6	1u
C7	470n
C8	10n

Trimpots	
IC1	TL 2262*
IC2	LM386
IC3	LM386

Diods	
D1	1n5817
LED	3mm LED

Shopping list

Resistors		
Qty	Value	Parts
1	100k	R2
1	100r	R5
1	10k	R7
1	120k	R6
1	1m	RPD
3	33k	R1, R9, R10
1	39k	R8
1	4k7	RLED
1	560k	R3
1	9k1	R4

Capacitors		
Qty	Value	Parts
2	100n	C1, C4
1	100p	C2
1	10n	C8
1	18p	C5
2	1u	C3, C6
1	470n	C7

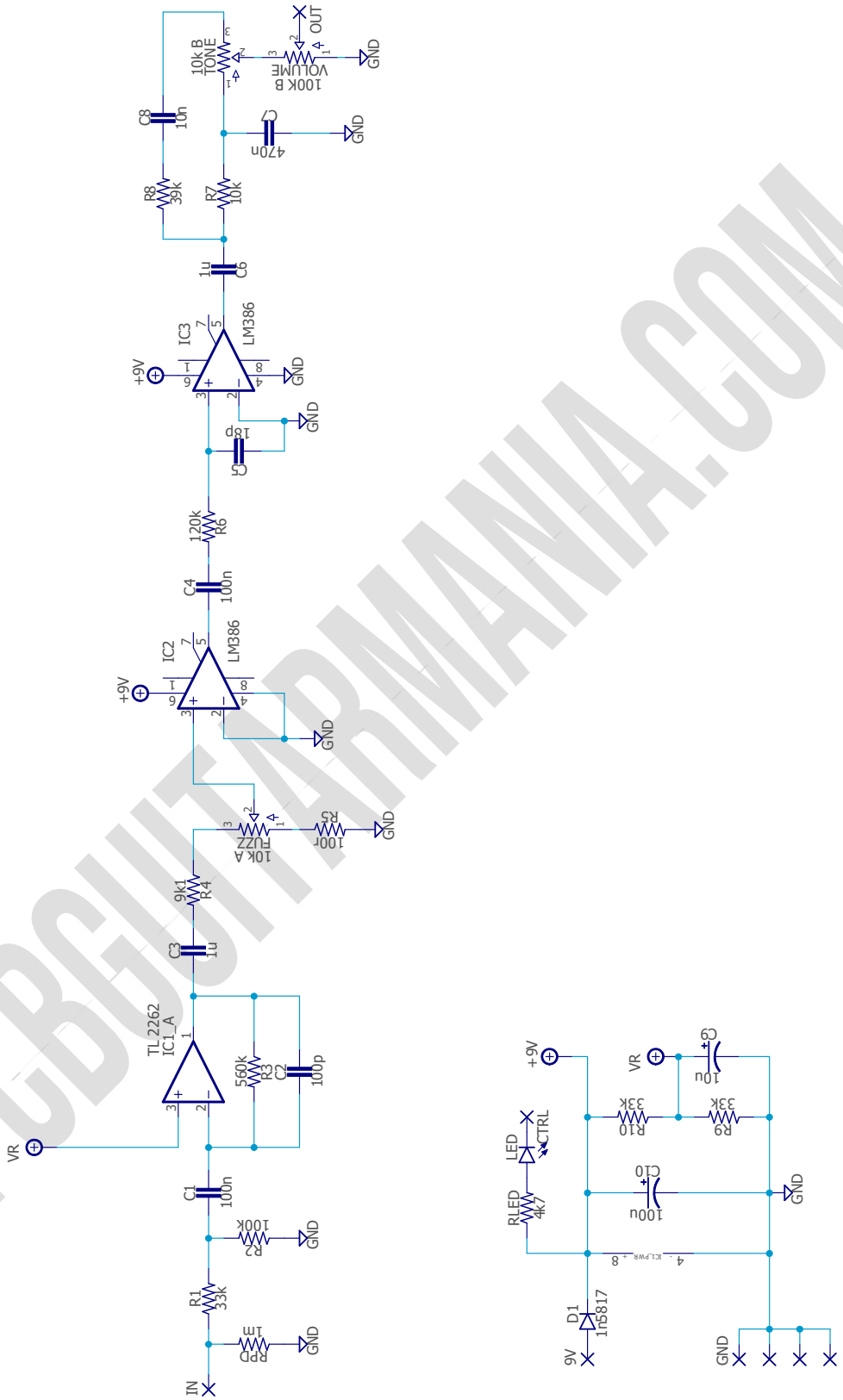
Electrolytics Capacitors		
Qty	Value	Parts
1	100u	C10
1	10u	C9

Potentiometers		
Qty	Value	Parts
1	100K B	VOLUME
1	10k A	FUZZ
1	10k B	TONE

IC		
Qty	Value	Parts
2	LM386	IC2, IC3
1	TL 2262	IC1

Diods		
Qty	Value	Parts
1	1n5817	D1
1	LED	3mm LED

Schematic



Components Recommendations

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

This board has been tested using Film box capacitors for most of the values over 1nf, and ceramics discs for the ones 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 exclusively regarding this project. It doesn't include all the hardware like the 3PDT bypass switch, audio/dc jacks, enclosure, etc.

Don't forget to use a TL2262* for IC1 as this rail to rail dual opamp is part of the secret sauce that makes this pedal great. You might try other Dual opamps, but we can't guarantee the same result.

Build Notes

If this is one of your first projects I recommend you to take a look on 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 control slug of your 3PDT.

This board has been designed to match our EZ 3PDT PCB check it here to access to 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 in an A4 page.

Licensing and Usage

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

We try to reply to every question we receive on our email or in our social media, but we try to encourage all our customers to join our PCB Guitar Mania – Builders Group on Facebook, in order to post all your doubts, issues, suggestions or request, as well to share your builds and have some feedback from us and other fellow builders!

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 on the experiences and opinions of others. Feel free to share with us your opinions and suggestions regarding the mods your own personal experimentation.

These boards may be used for commercial endeavors in any quantity unless specifically noted. No attribution is necessary, though accreditation or a link back is always greatly 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 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 silk screen, 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 own designs, with your brand and logo we could certainly reach an agreement.

Follow us on Instagram and Facebook to stay in tune with the latest projects!