

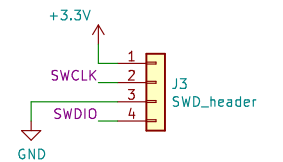
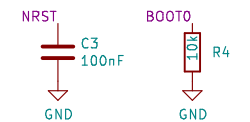
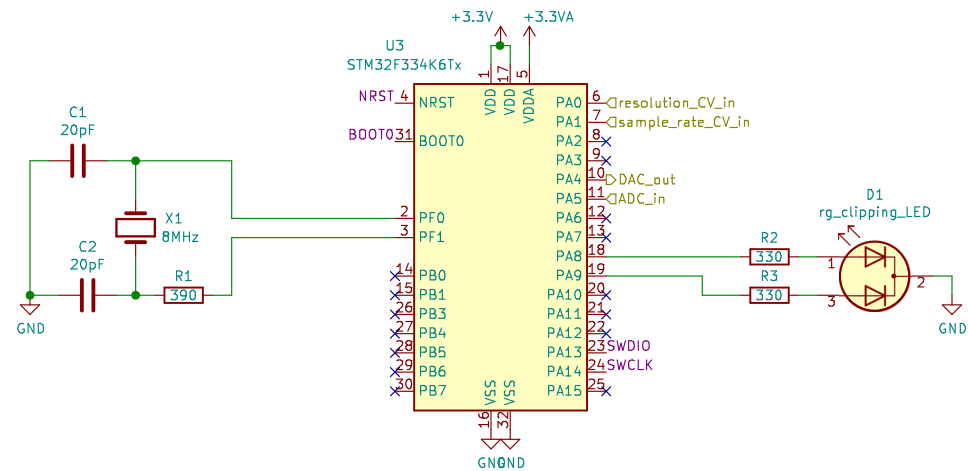
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Sheet: /
File: bit_crusher_pedal.sch

Title: Bit Crusher Pedal

Size: A4 Date: 2020-07-27
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu18.04.1

Rev: 0
Id: 1/6



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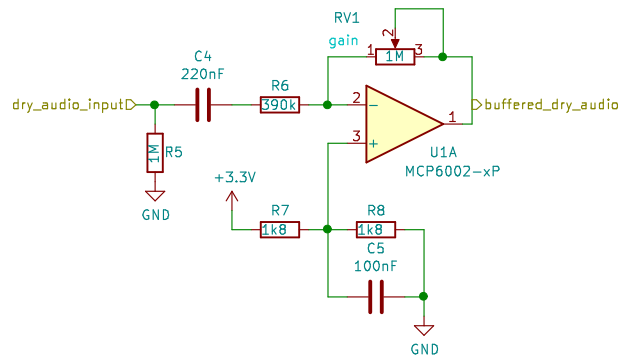
Sheet: /microcontroller/
 File: microcontroller.sch

Title: Bit Crusher Pedal

Size: A4 Date: 2020-07-27
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Rev: 0
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Variable gain input amplifier



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Sheet: /audio_input/
File: audio_input.sch

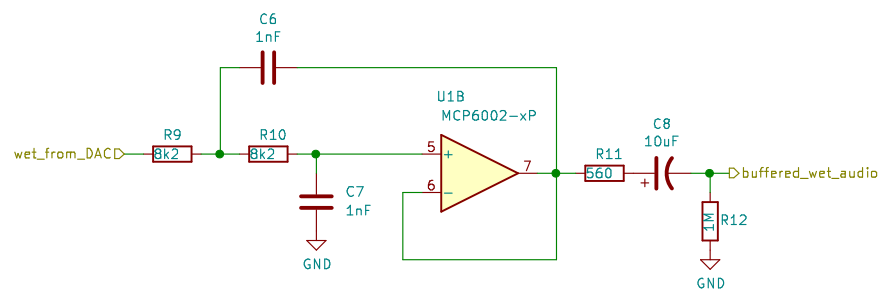
Title: Bit Crusher Pedal

Size: A4
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Date: 2020-07-27

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20kHz Low-pass filter/output buffer



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Sheet: /audio_output/
File: audio_output.sch

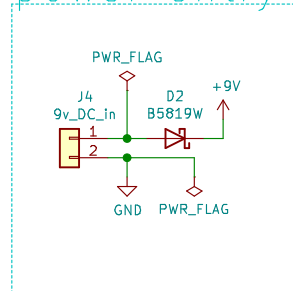
Title: Bit Crusher Pedal

Size: A4
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu18.04.1

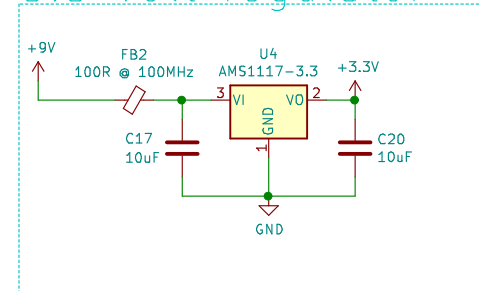
Date: 2020-07-27

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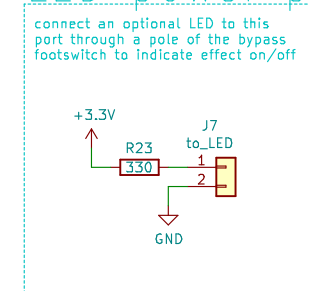
power entry



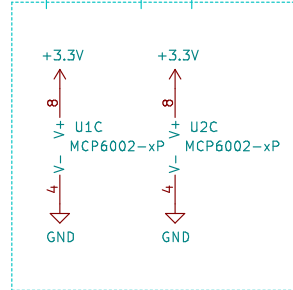
3.3 volt regulator



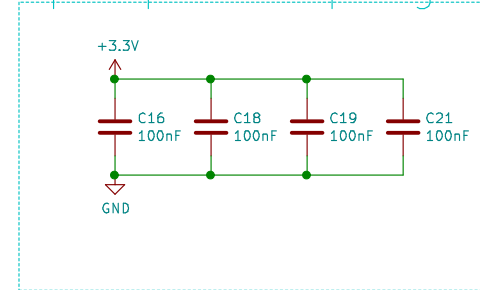
LED power port



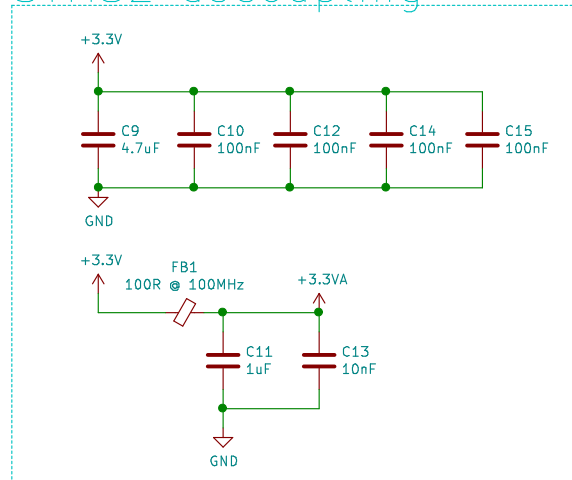
opamp power



opamp decoupling



STM32 decoupling



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Sheet: /power_supply/
File: power_supply.sch

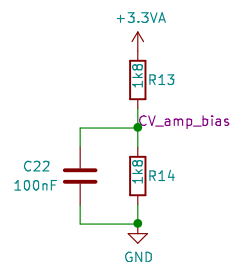
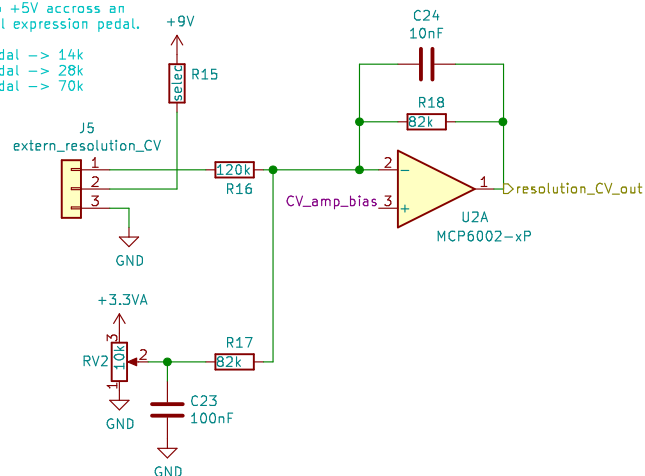
Title: Bit Crusher Pedal

Size: A4 Date: 2020-07-27
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu18.04.1

Rev: 0
Id: 5/6

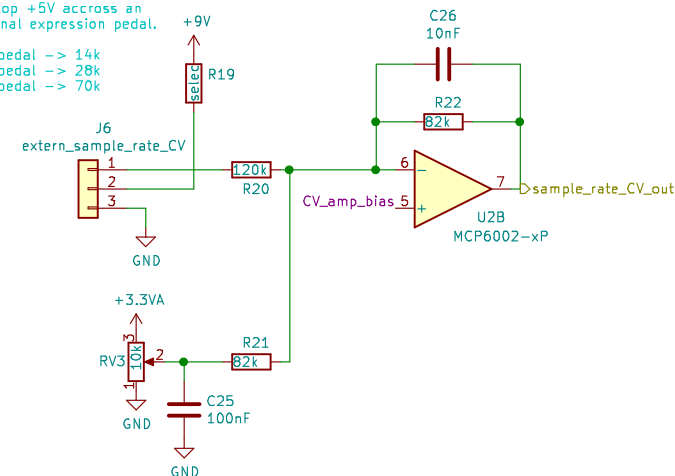
The resistor going to +9 volts must be selected to develop +5V accross an optional expression pedal.

10k pedal -> 14k
20k pedal -> 28k
50k pedal -> 70k



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10k pedal -> 14k
20k pedal -> 28k
50k pedal -> 70k



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Sheet: /control_voltage_generator/
File: control_voltage_generator.sch

Title: Bit Crusher Pedal

Size: A4 Date: 2020-07-27
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Rev: 0
Id: 6/6