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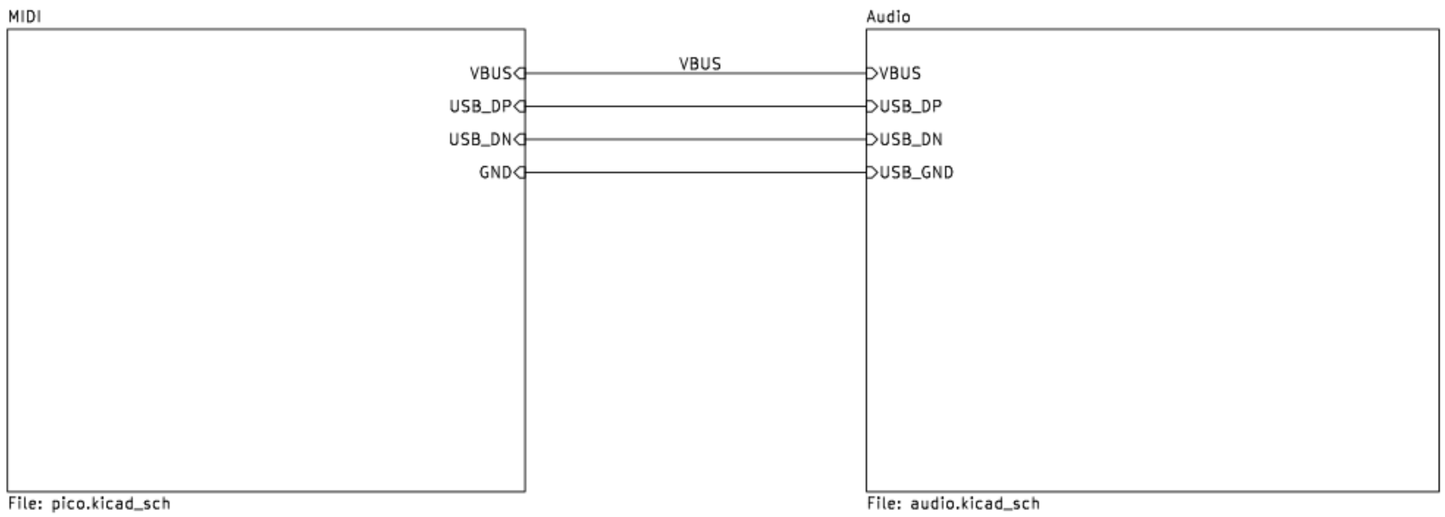


Power Supply

File: psu.kicad_sch

H6
MountingHole

H7
MountingHole

H8
MountingHole

H5
MountingHole

H9
MountingHole

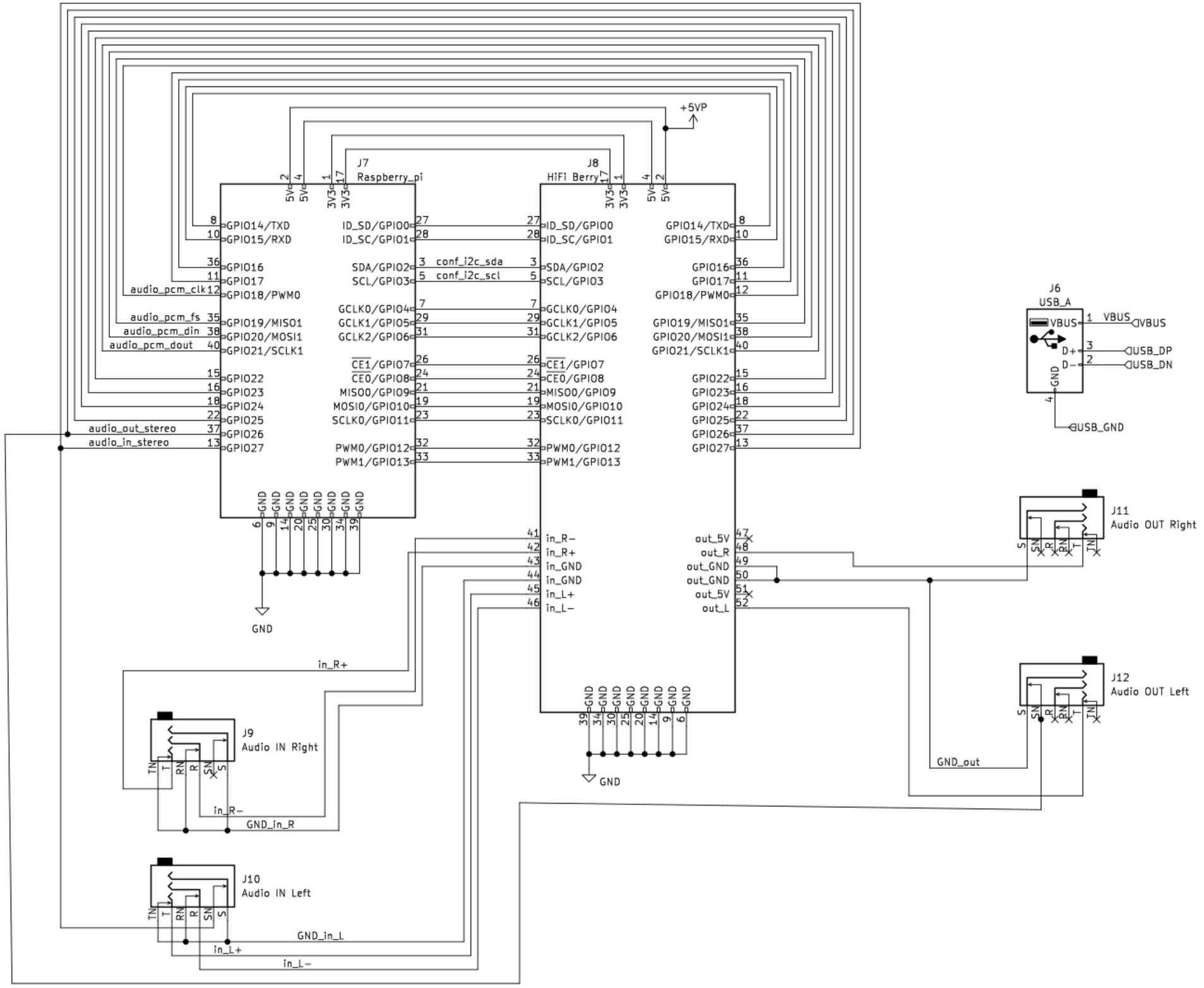
/Audio

H4
MountingHole

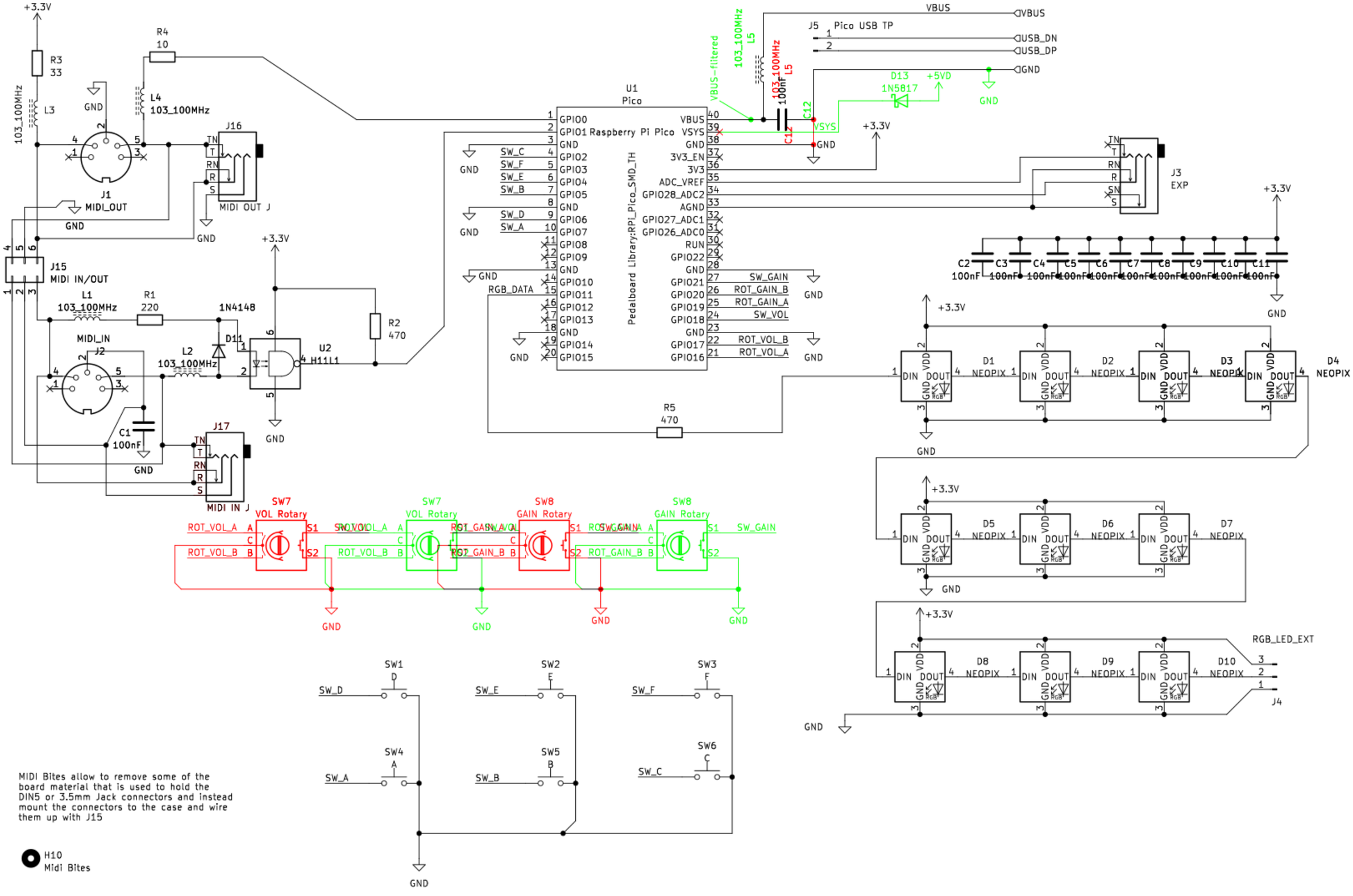
H2
MountingHole

H3
MountingHole

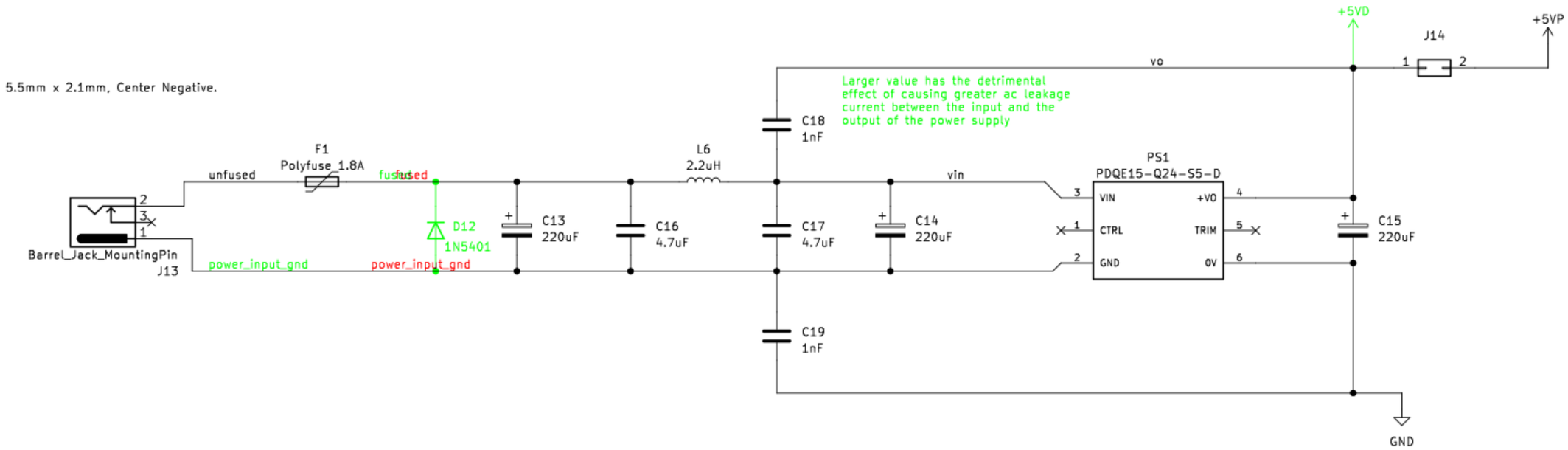
H1
MountingHole



/MIDI


+3.3V
R3
33
L3
103_100MHz
GND
R4
10
L4
103_100MHz
J1
MIDI_OUT
J16
MIDI OUT J
J15
MIDI IN/OUT
L1
103_100MHz
R1
220
1N4148
MIDI_IN
J2
L2
103_100MHz
D11
U2
H11L1
R2
470
C1
100nF
J17
MIDI IN J
U1
Pico
Pedalboard Library:RPi_Pico_SMD_TH
GPIO0
GPIO1
GND
GPIO2
GPIO3
GPIO4
GPIO5
GPIO6
GPIO7
GPIO8
GPIO9
GPIO10
GPIO11
GPIO12
GPIO13
GPIO14
GPIO15
SW_C
SW_F
SW_E
SW_B
SW_D
SW_A
RGB_DATA
VBUS
VSYS
3V3_EN
3V3
ADC_VREF
GPIO28_ADC2
AGND
GPIO27_ADC1
GPIO26_ADC0
RUN
GPIO22
GPIO21
GPIO20
GPIO19
GPIO18
GPIO17
GPIO16
SW_GAIN
ROT_GAIN_B
ROT_GAIN_A
SW_VOL
ROT_VOL_B
ROT_VOL_A
VBUS-filtered
103_100MHz
L5
100nF
C12
VBUS
J5
Pico USB TP
USB_DN
USB_DP
D13
1N5817
+5VD
R5
470
J3
EXP
C2
C3
C4
C5
C6
C7
C8
C9
C10
C11
100nF
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
NEOPIX
DIN
DOUT
VDD
GND
RGB_LED_EXT
J4
SW7
VOL Rotary
SW8
GAIN Rotary
SW1
SW2
SW3
SW4
SW5
SW6
MIDI Bites allow to remove some of the board material that is used to hold the DIN5 or 3.5mm Jack connectors and instead mount the connectors to the case and wire them up with J15
H10
Midi Bites

/Power Supply



EMC filter: https://www.cui.com/blog/emi-filter-components-what-they-are-and-how-they-work

CM Noixe: https://www.cui.com/blog/reducing-supply-rail-common-mode-noise-in-audio-applications