Resonance

C1 100n   R13 47k

R4 10k CCW R9 100k R5 4k7 GND

Input J2 T R6 470k S GND

R8 10k GND   R11 100k GND

C2 22p R14 120k

TL074 U1A

C3 100n GND   R16 100

+12V R18 2k2   2N3904 Q2 B E C
+12V R22 2k2   2N3904 Q4 B E C
+12V R24 2k2   2N3904 Q6 B E C
+12V R26 2k2   2N3904 Q8 B E C

C4 220n TL074 U2A
C5 220n TL074 U2B
C7 220n TL074 U2C
C8 220n TL074 U2D

Q3 2N3906 E B C   R19 1k -12V
Q5 2N3906 E B C   R23 1k -12V
Q7 2N3906 E B C   R25 1k -12V
Q9 2N3906 E B C   R27 1k -12V

C9 22p R30 220k
TL074 U1B
Output J3 T S GND

R28 100k GND   R29 10k GND

CV J1 T R2 100k S GND

+12V R10 470k   R15 100k R20 100k

CutOff R1 50k CCW R3 100k +12V Q1 2N3906 E B C R7 470 2N3906 GND

R12 100k TL074 U1C GND   R17 100k TL074 U1D GND   R21 100 100n C6 GND

+12V C12 100n U1E TL074 GND C13 100n -12V
+12V C14 100n U2E TL074 GND C15 100n -12V

Sheet: Front panel
File: frontpanel.sch

Sheet: Power
File: euro_power_10.sch

Sheet: Hardware
File: hardware.sch

https://www.davidhaillant.com
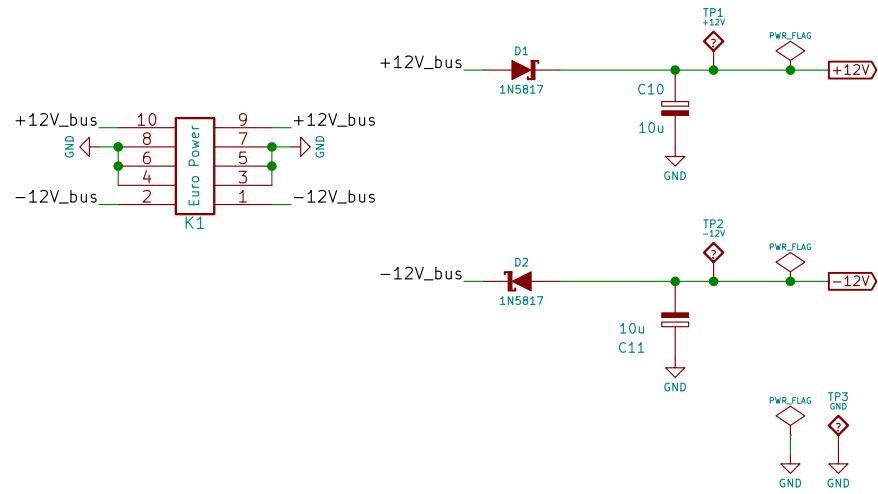**David Haillant**
Sheet: /
File: moog-hi-pass-ladder.sch
Title: Moog High-Pass Ladder Filter Clone
Size: A4   Date: 2019-04-01   **Rev: 0.1**
KiCad E.D.A. kicad 5.1.9-73d0e3b20d88ubuntu20.04.1   Id: 1/4

+12V_bus

D1
1N5817

TP1
+12V

PWR_FLAG

+12V

C10
10u

GND

+12V_bus   10   9   +12V_bus

GND   8   7   GND
      6   5
      4   3
−12V_bus   2   1   −12V_bus

Euro Power
K1

−12V_bus

D2
1N5817

TP2
−12V

PWR_FLAG

−12V

10u
C11

GND

PWR_FLAG   TP3
                GND

GND   GND

Title: Moog High−Pass Ladder Filter Clone

Size: A4 | Date: 2019−04−01 | **Rev: 0.1**
KiCad E.D.A. kicad 5.1.9−73d0e3b20d88ubuntu20.04.1 | Id: 2/4

Front panel

Main PCB

I/O PCB

Eurorack Rail Top

3U Front panel Side view

Eurorack Rail Bottom

DIL 14

DIL 14

Sheet: /Hardware/
File: hardware.sch

Title: Moog High-Pass Ladder Filter Clone

| Size: A4 | Date: 2019-04-01 | **Rev: 0.1** |
| KiCad E.D.A. kicad 5.1.9-73d0e3b20d88ubuntu20.04.1 | | Id: 3/4 |

FP Silkscreen

M1
1
CHASSIS

FP1
Freq

1
CHASSIS

FP2
Res

1
CHASSIS

FP3
CV

FP4
In

FP5
Out

M2
1
CHASSIS

Title: Moog High-Pass Ladder Filter Clone

Size: A4	Date: 2019-04-01	**Rev: 0.1**
KiCad E.D.A. kicad 5.1.9-73d0e3b20d88ubuntu20.04.1		Id: 4/4