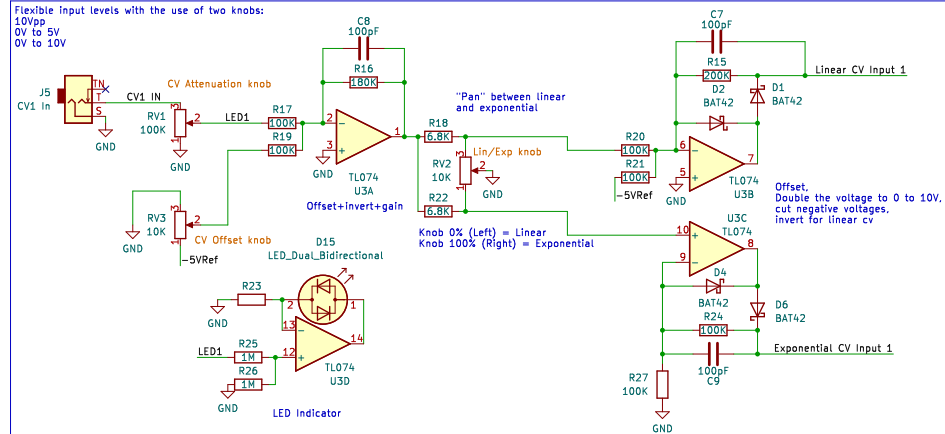


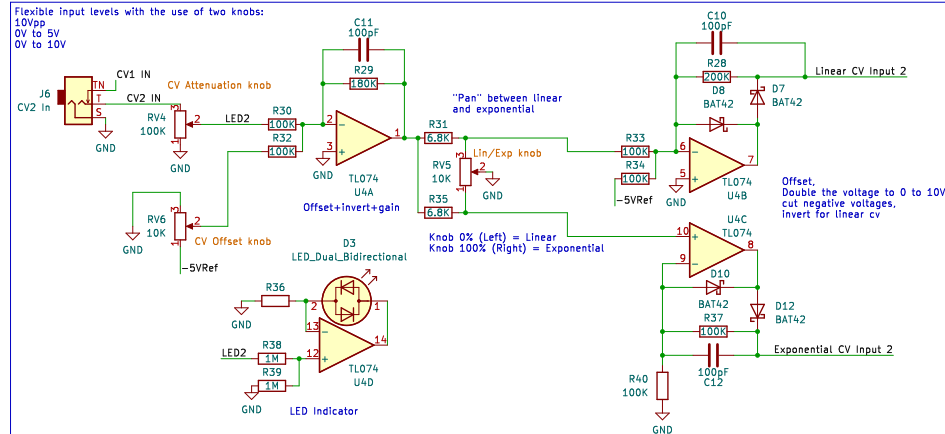
CV Scaling and Lin/Exp control 1

Flexible input levels with the use of two knobs:
10Vpp
0V to 5V
0V to 10V

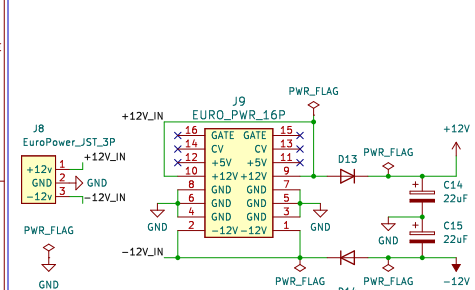


CV Scaling and Lin/Exp control 2

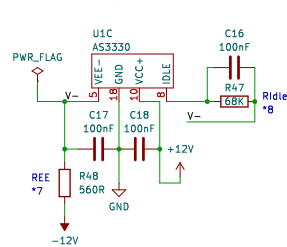
Flexible input levels with the use of two knobs:
10Vpp
0V to 5V
0V to 10V



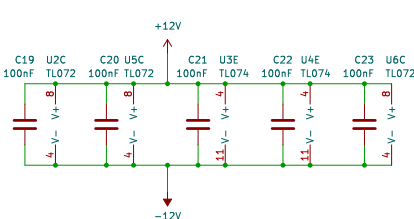
Power



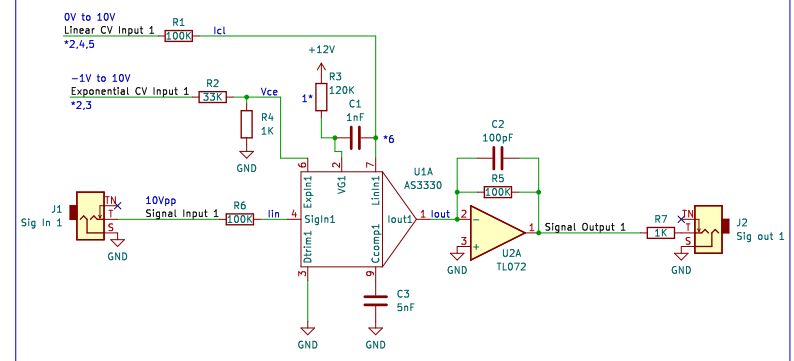
3330 power and idle



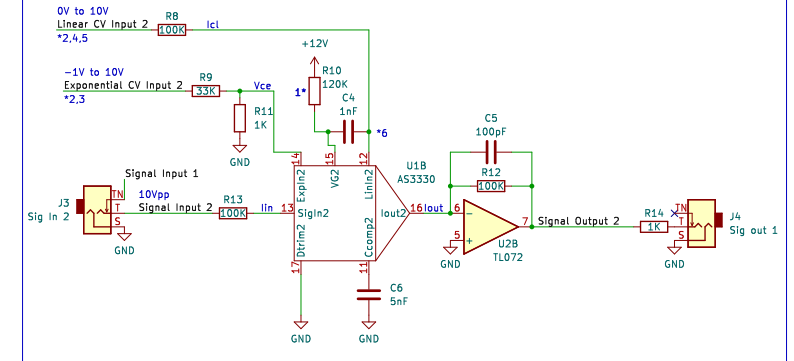
Op amp power and decoupling



VCA 1



VCA 2



* NOTES *

- 1) RB should be 120K for a 100uA reference current
- 2) CV inputs must be normalised to VCC (Digisound)
- 3) Exp input should be inverted (Digisound)
- 4) Lin input is a summing node
- 5) a -10V input would fully attenuate the signal
- 6) 1nF or larger
- 7) 0.15V, 680R, 22mA
- 8) 0.12V, 560R, 21.4mA
- 9) IDLE, 0.68K, Class A

Control inputs (single input/either or):
Linear (Exp input must be at 0V or unity gain):
- 10V at the linear CV input through the 100K resistor will be at unity gain.
- 0V would be max attenuation.
Exponential (Linear input must be at 10V or unity gain):
- 0V at the exponential CV input through the 33K resistor will be at unity gain.
- 10V would be max attenuation.

This version is a prototype

DIYSynthMNL

Sheet: /
File: Eurorack-AS3330-Dual-Lin-Exp-VCA.kicad_sch

Title: Eurorack AS3330 Dual Linear/Exponential VCA

Size: A3 Date: 2024-02-13

KiCad E.D.A. kicad 7.0.9

Rev: 0.1.6

Id: 1/1