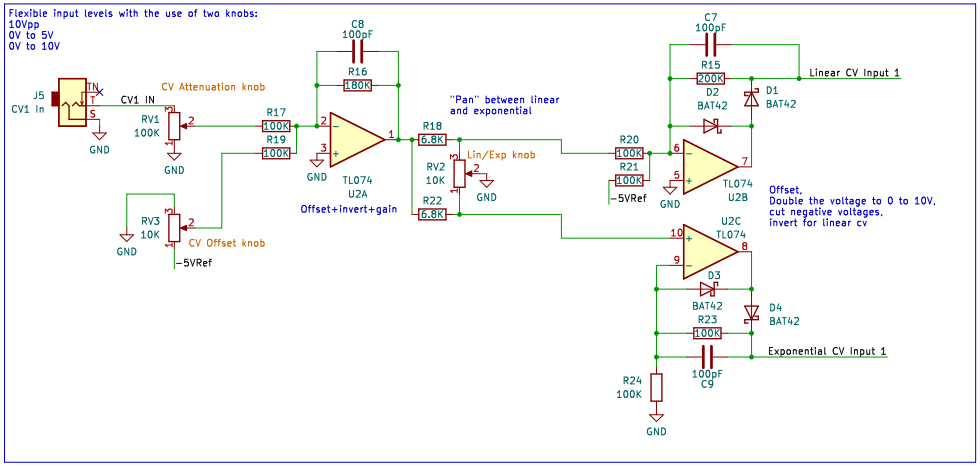
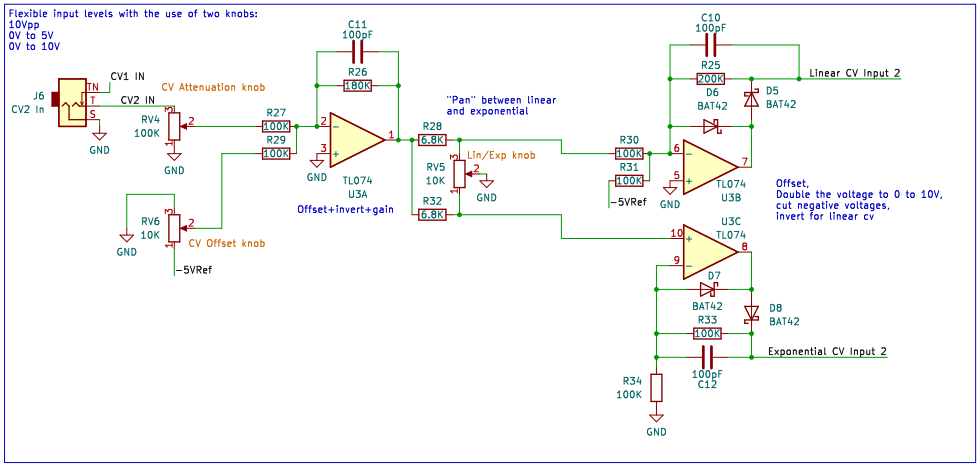
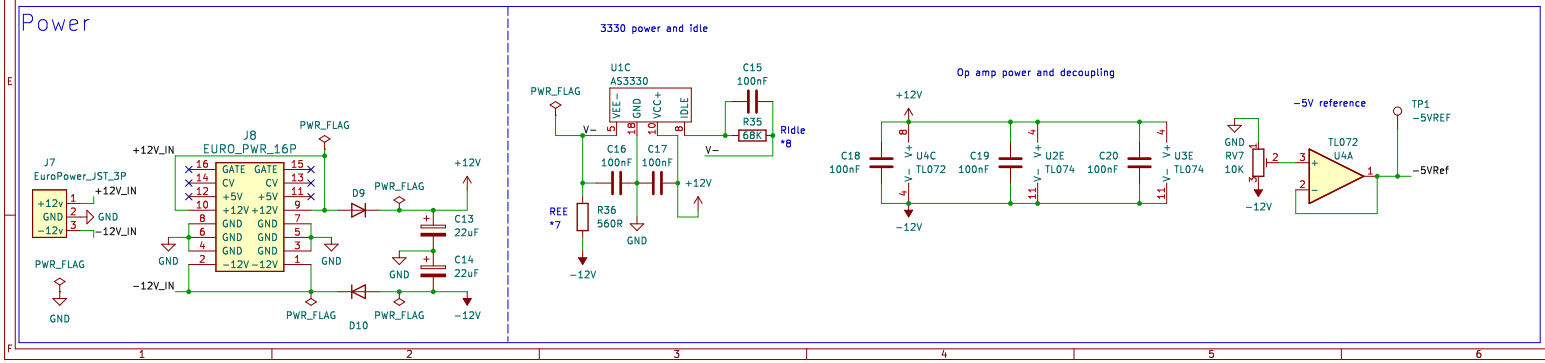
CV Scaling and Lin/Exp control 1



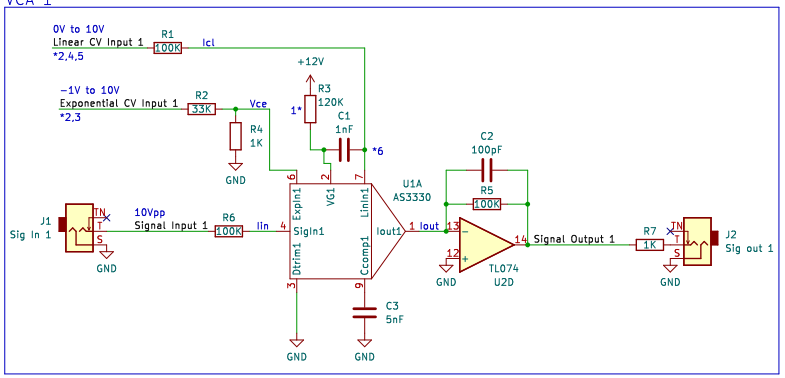
CV Scaling and Lin/Exp control 2



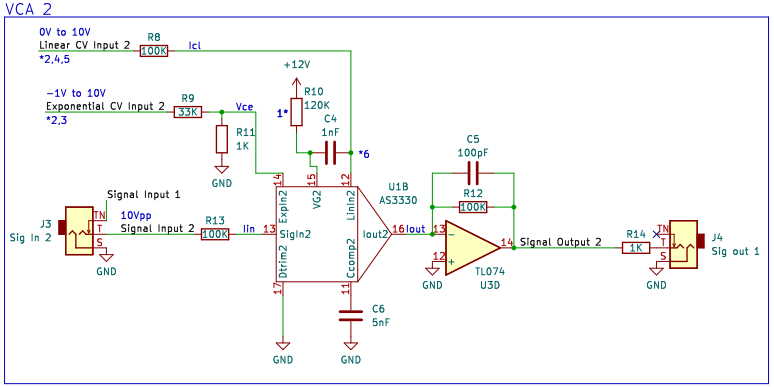
Power

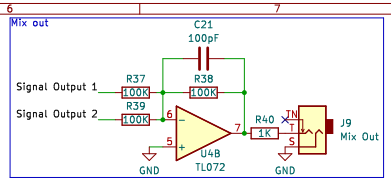


VCA 1



VCA 2





* NOTES *
1) RB should be 120K for a 100uA reference current
2) CV inputs must be normalled 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) @15V, 680R, 22mA
7) @12V, 560R, 21.4mA
8) IDLE, @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: 2024-02-02	**Rev: 0.1.4**
KiCad E.D.A. kicad 7.0.9		Id: 1/1