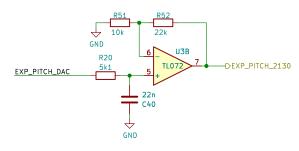
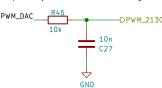


Sheet load: Vref\_2.5: 45k

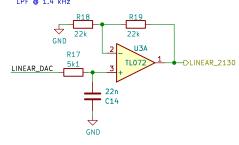
VCO Pitch: Gain 3.2 : 0 -- 8V LPF ⊚ 1.4 kHz

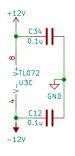


PWM: 1.6 cutoff freq To be passively mixed with modulator signal for PWM input

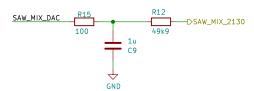


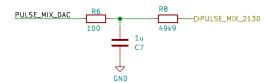
Linear Gain 1.0 : 0 -- 5V LPF ⊚ 1.4 kHz

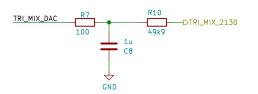




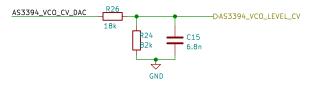
Mix DAC lines: ~1.6k cutoff frequency. Follow with current input control resistors

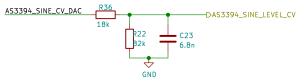






## CV for AS3364 VCAs with max level 2.08V (or 1.93V typ) Lowpass @ 1585 Hz

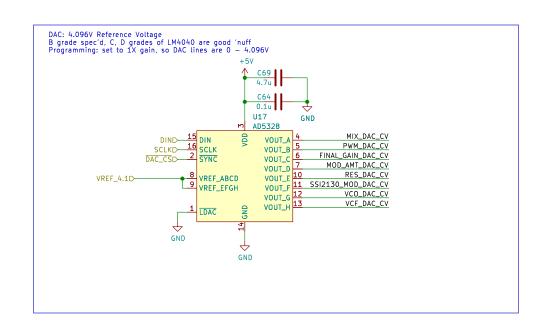


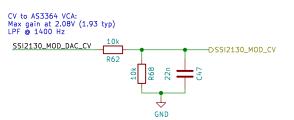


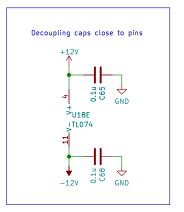
Zoxnoxious Engineering
Sheet: /DAC 2130/
File: dac\_2130.kicad\_sch

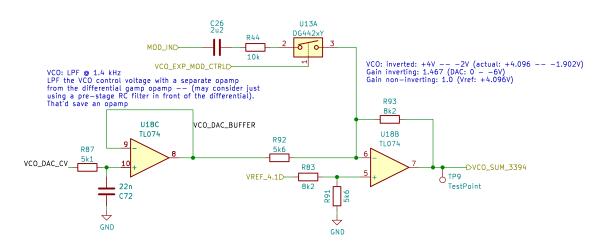
Title: Zoxnoxious SSI2130/AS3394

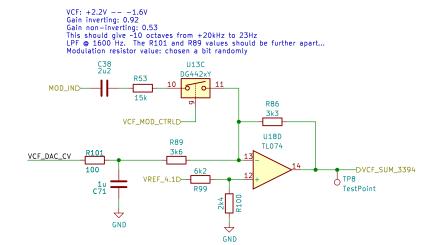
Size: B Date: 2023-08-27 KiCad E.D.A. kicad 7.0.5-0 Rev: 0.2 ld: 2/6

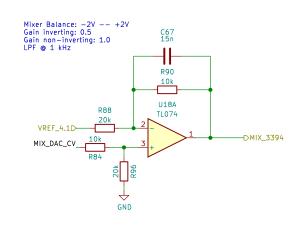


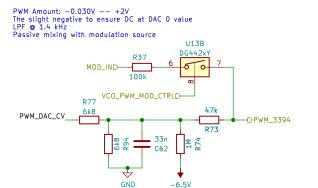




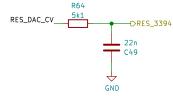


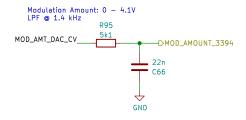


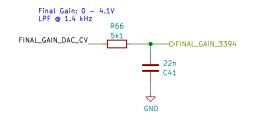












Filtering note: AD5328 datasheet DC output impedance: 0.5 ohm AS3394 input impedance: control inputs "high impedance", < 0.5 nA input current

Passive mixing: The '3394 is all voltage inputs, not current inputs. Mod\_in source impedance is very low (output from opamp) Similar source impedance from all DAC lines \_except\_ PWM which has -5k

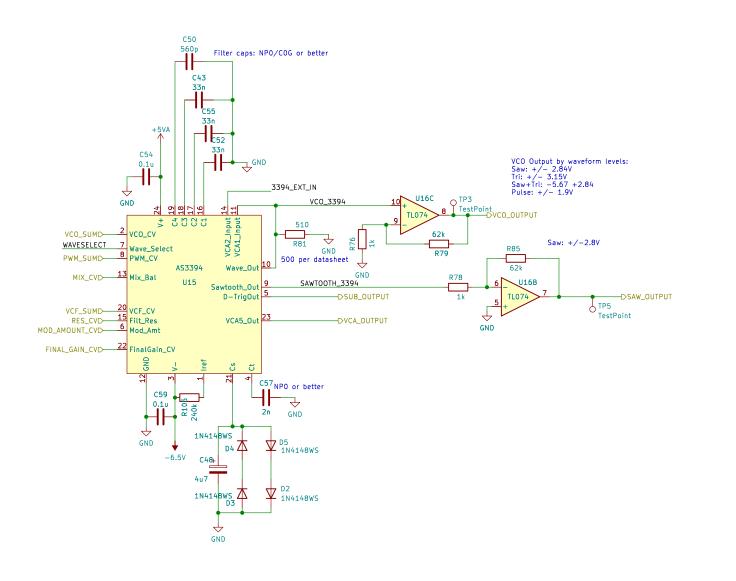
Sheet Load: Vref 4.096: 45k || 13.8k || 8.6k || 20k ==> 3.8k Zoxnoxious Engineering

heet: /DAC 3394/

File: dac\_3394.kicad\_sch

Title: Zoxnoxious SSI2130/AS3394

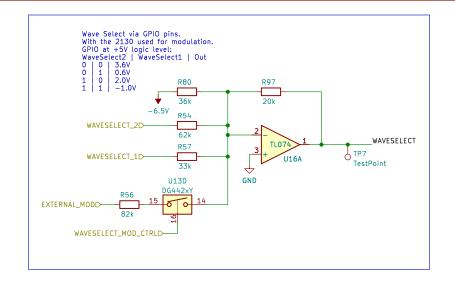
Size: B	Date: 2023-08-27	Rev: 0.2	
KiCad E.D.A. ki	cad 7.0.5-0	ld: 3/6	

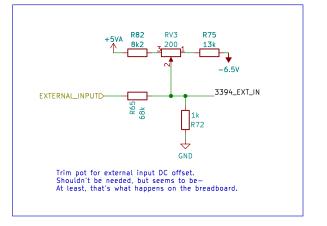


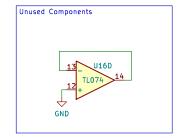
#U16E TL074

C60 0.1u

→ GND -12V





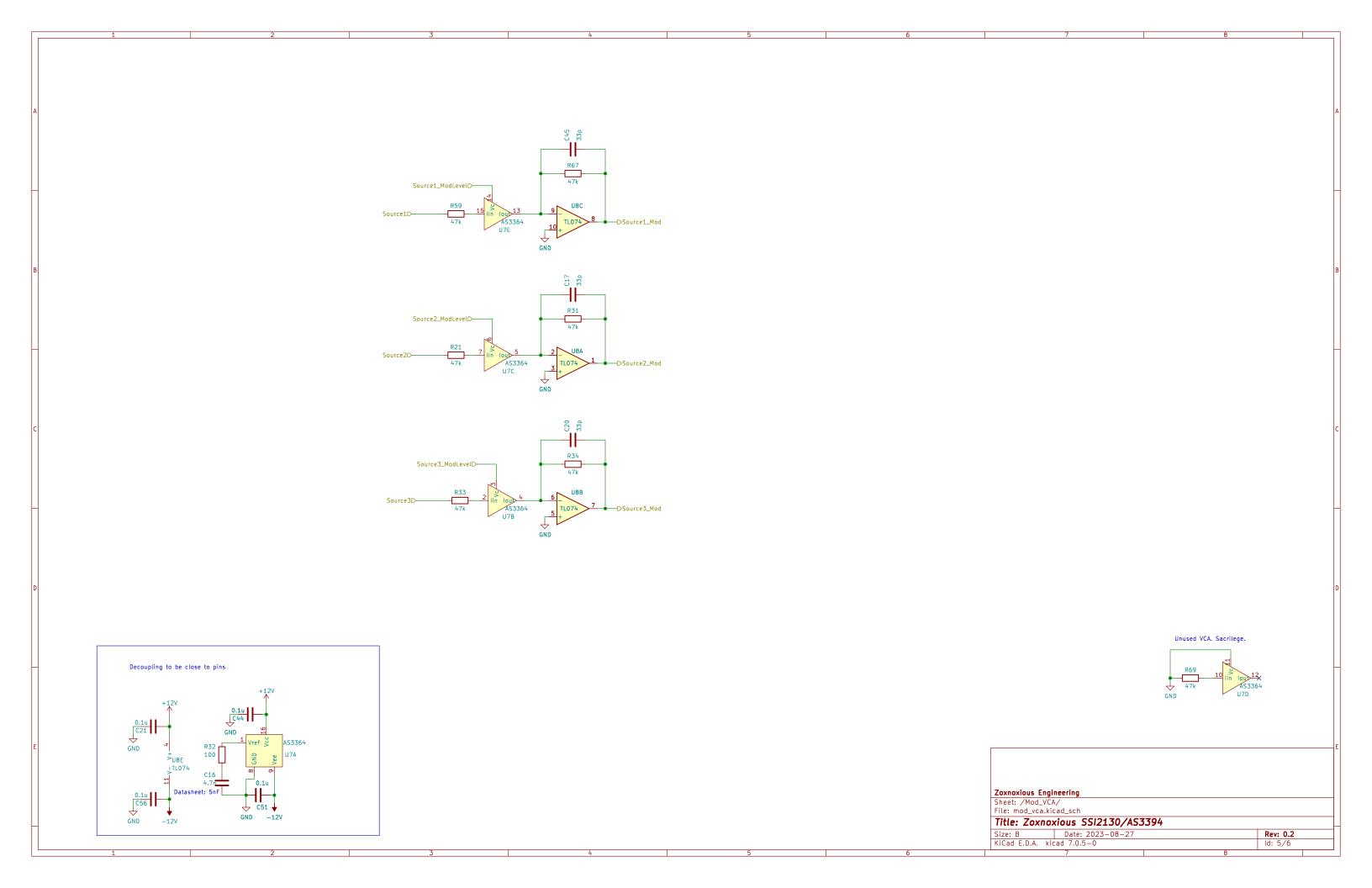


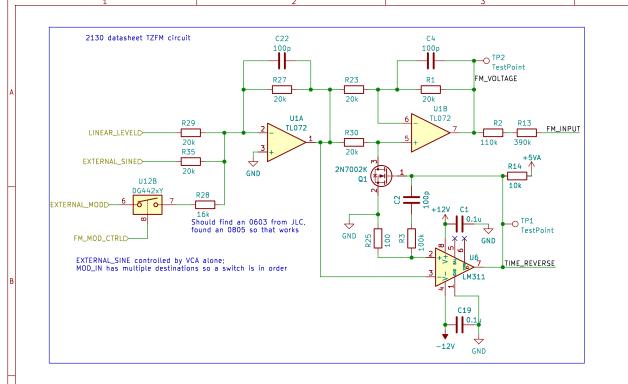
Zoxnoxious Engineering
Charte /ACZZO/c/

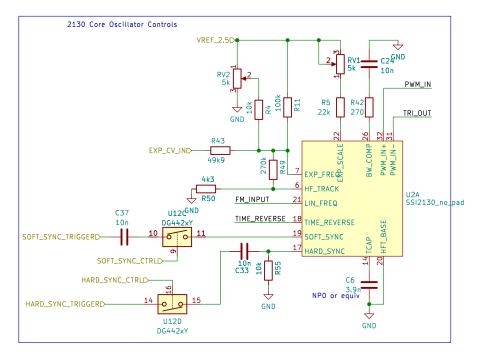
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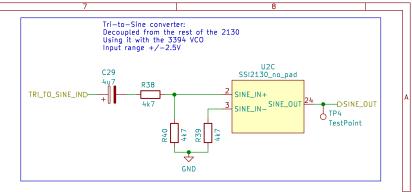
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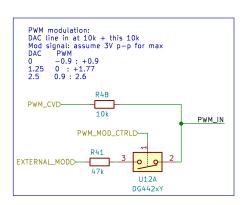
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	7	0		-

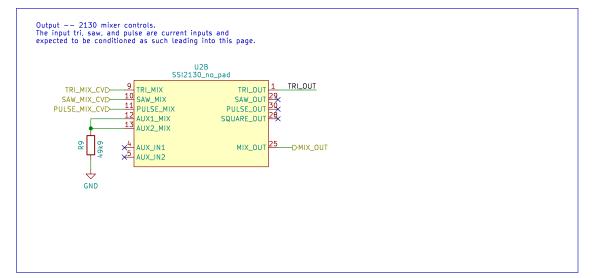


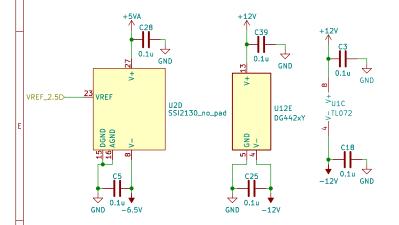












Sheet Load: Vref 2.5: 25k (100uA per SSI2130 datasheet) || 5k || 100k ==> 4k LM7805: 3.75mA + 0.5mA LM337: -2.90mA

Zoxnoxious Engineering

Sheet: /SSI2130/ File: ssi2130.kicad\_sch

Title: Zoxnoxious SSI2130/AS3394

 Size: B
 Date: 2023-08-27
 Rev: 0.2

 KiCad E.D.A. kicad 7.0.5-0
 Id: 6/6

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