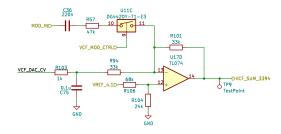
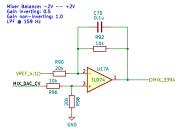


VCF: +2.1V: -1.9V
Gain inverting: 0.51
Gain non-inverting: 0.51
This should give -10 octaves from +20kHz to 23Hz
Modulation resistor value: value should give a wide mod range.
The modulator is AC coupled, the R value gives a very wide mod range





U17C TL074

Sheet Load: Vref 4.096: 45k || 20k || 92k || 48k || 32k ==> 7.4k

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

Zoxnoxious Engineering Sheet: /DAC 3394/ File: dac_3394.kicad_sch

Title: Zoxnoxious Z5524 (SSI2130/AS3394)

Size: B Date: 2023-12-12
KiCad E.D.A. kicad 7.0.9

Rev: 0.3

PWM Amount: datasheet is 0: +2V for range For DAC values this Circuit gives 1.92Y: -0.13 V For Software.

The DAC values this circuit gives 1.92Y: -0.13 V For Software.

The DAC value is used instead of a 20k to ensure a negative value for zero pulse. LPF 6 800 W.

1111B

VCO_PWM_MOD_CTRLD

0.1u GND

VREF_4.1D-

Resonance Amount: 0 -- 4.1V LPF @ 1.4 kHz RES_DAC_CV

Modulation Amount: 0 - 4.1V LPF ⊕ 1.4 kHz

Final Gain: 0 - 4.1V Given it's an audio VCA this uses a lower cutoff: LPF ⊕ 159 Hz

MOD_AMT_DAC_CV_

DRES_3394 22n C58

-DMOD_AMOUNT_3394

DFINAL_GAIN_3394

Unused

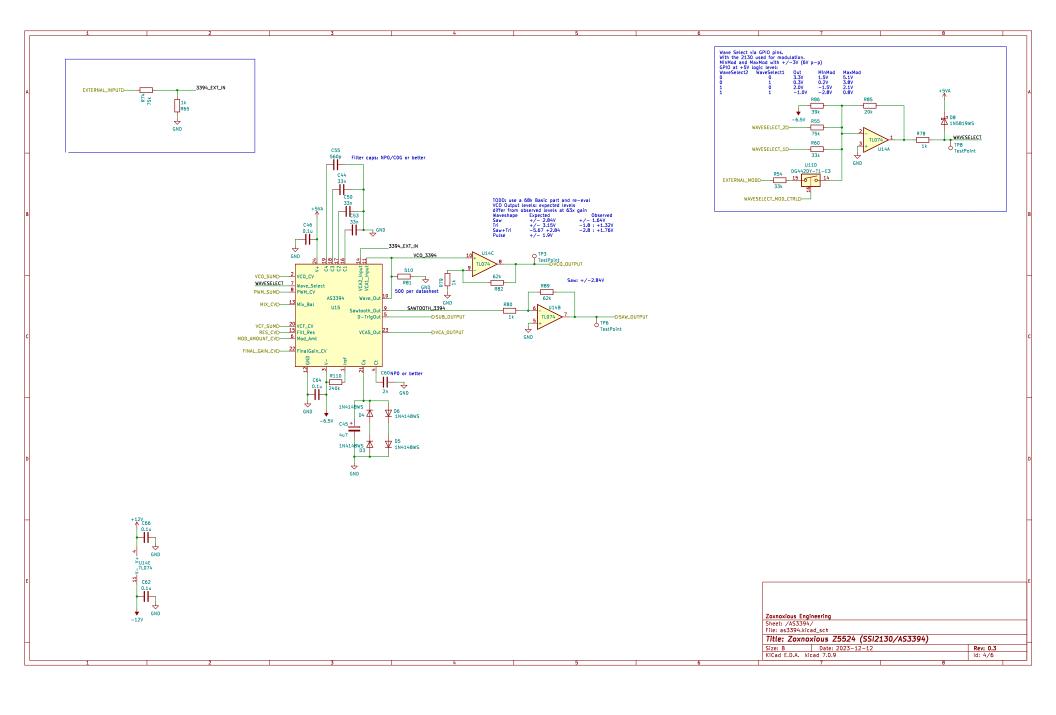
T C68

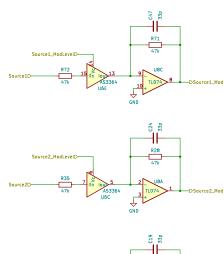
0.1u C49 GND

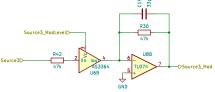
GND

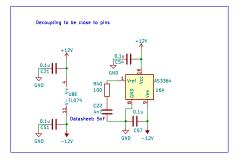
R93

PWM_DAC_CV 2k





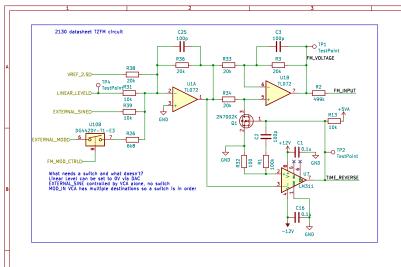


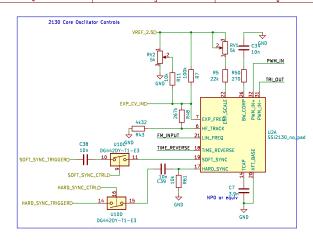


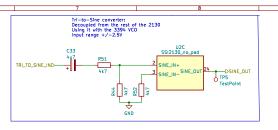
Unused VCA. Sacrilege.

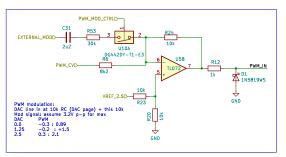


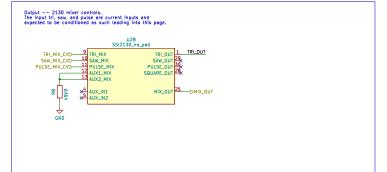
Rev: 0.3 ld: 5/6

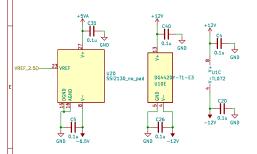












Zoxnoxious Engineering
Sheet: /SSI2130/
File: ssl2130.kicad_sch
Title: Zoxnoxious Z5524 (SSI2130/AS3394)

Size: B Date: 2023-12-12 KiCad E.D.A. kicad 7.0.9 Rev: 0.3