

DAC Output Levels:

FREQ_CV_DAC: 0: 2.5V LINEAR_FM_DAC: 0: 2.5V EXT_OSC_VCA_AMOUNT: 0: 2V PULSE_VCA_MOUNT_DAC: 0: 2V SAW_VCA_AMOUNT_DAC: 0: 2V TRL_VCA_MOUNT_DAC: 0: 2V PWM_DAC: 0: -3.86V SYNC_LEVEL_DAC: -2.5V: 2.5V

Simple RC filtering for reconstruction. VCA related lines set to a lower level to prevent clicks in audio path. Designed for a sampling rate around 4 kHz.

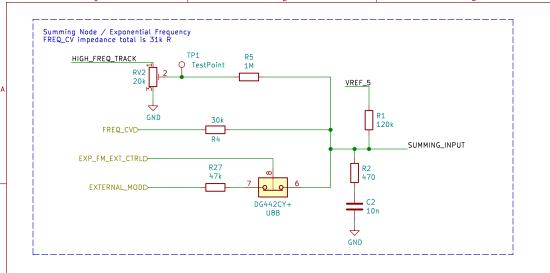
Sheet Vref Load: 45k || 100k ==> 31k

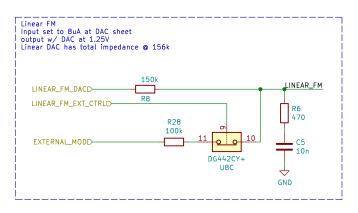
Zoxnoxious Engineering Sheet: /DAC/

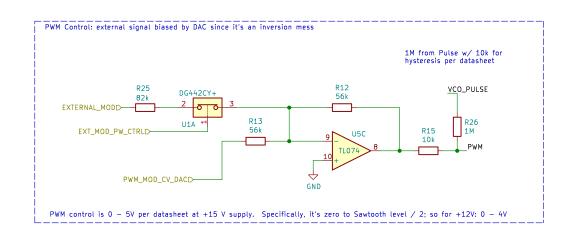
File: dac.kicad_sch

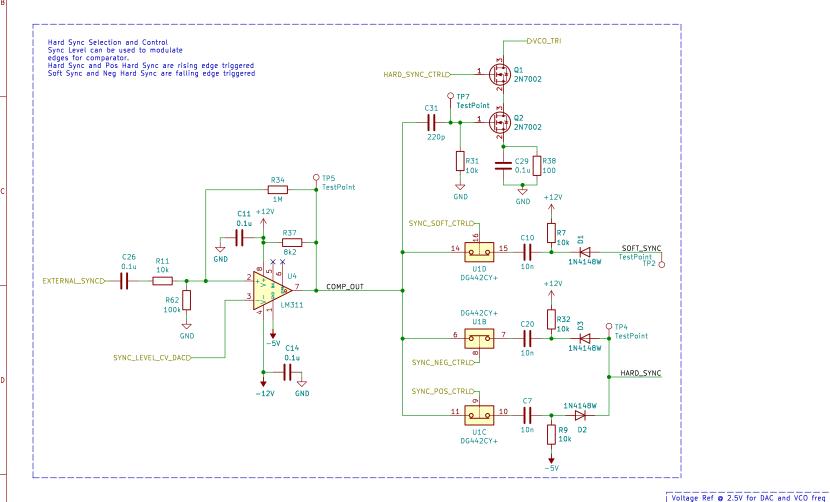
Title: Zoxnoxious 3340 Oscillator

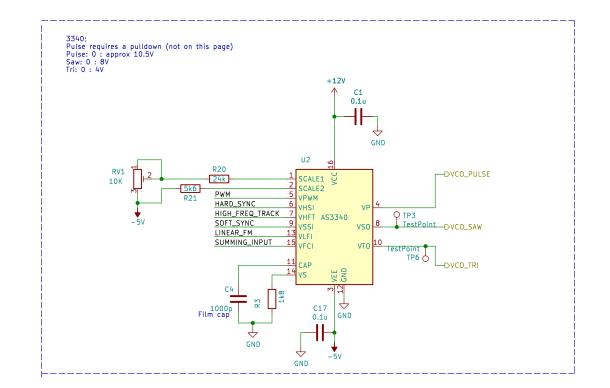
Size: B	Date: 2025-02-06	Rev: 0.9
KiCad E.D.A.	kicad 7.0.11	ld: 2/4

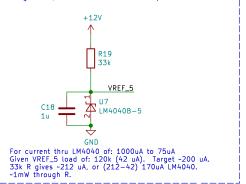








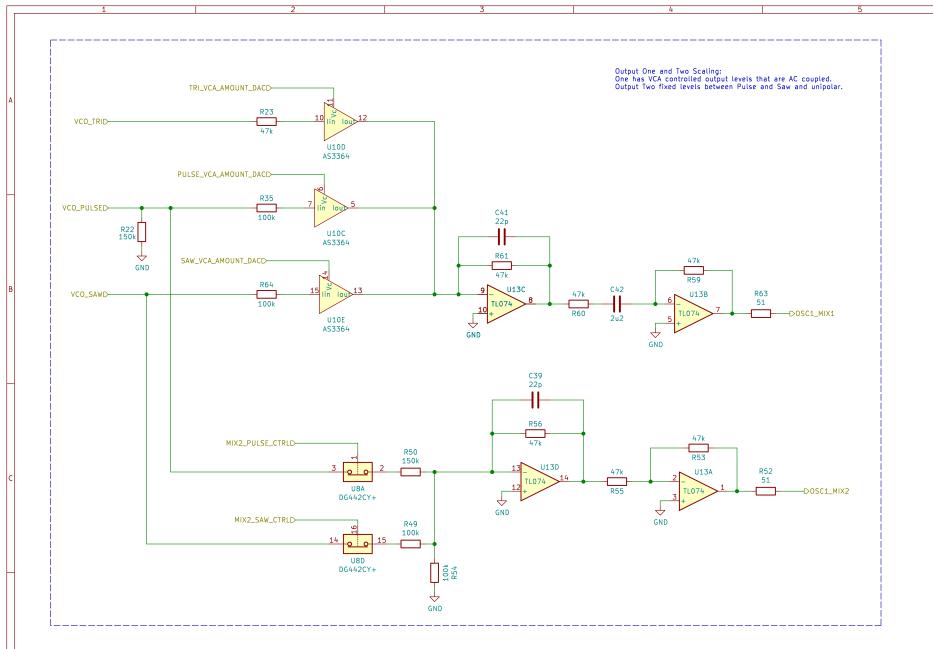


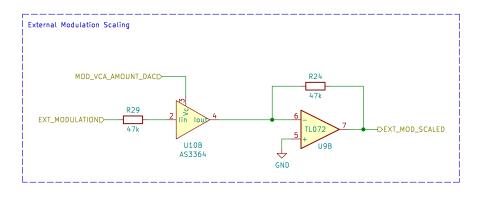


3340 -5V Regulator

C6
1u
C8
1u
U3
LM79L05

Sheet Vref load: 62k





Signal	Input Level	Output:	Offset	Low	High	Peak-to-Pea
Pulse	0 : 10.5		-1.1	-1.1	1.1	2.2
Saw	0 : 8		-0.4	-0.4	0.4	0.8
Triangle	0 : 3.5		AC	-1.7	1.7	3.5
Mix2						

Mix1: Offsets center roughly around OV Pulse: offset via control voltage Saw, Tri: AC coupled

Mix2: Unipolar signals

Zoxnoxious Engineering

Sheet: /Output Mix/ File: output_mix.kicad_sch

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