

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

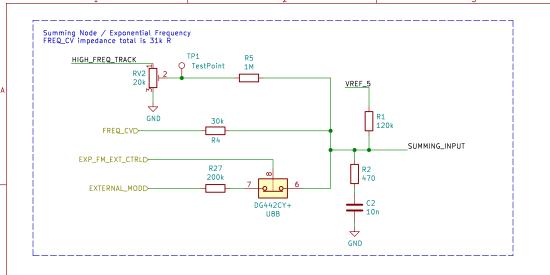
Zoxnoxious Engineering Sheet: /DAC/

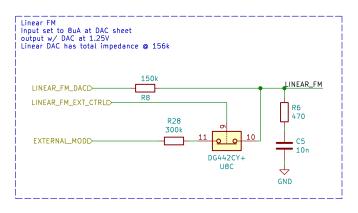
File: dac.kicad_sch

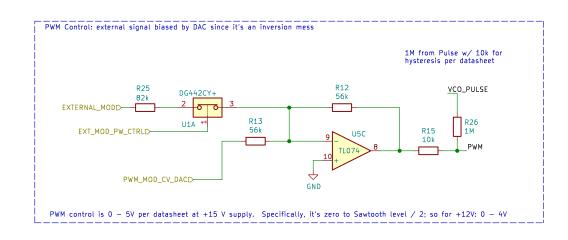
Title: Zoxnoxious 3340 Oscillator

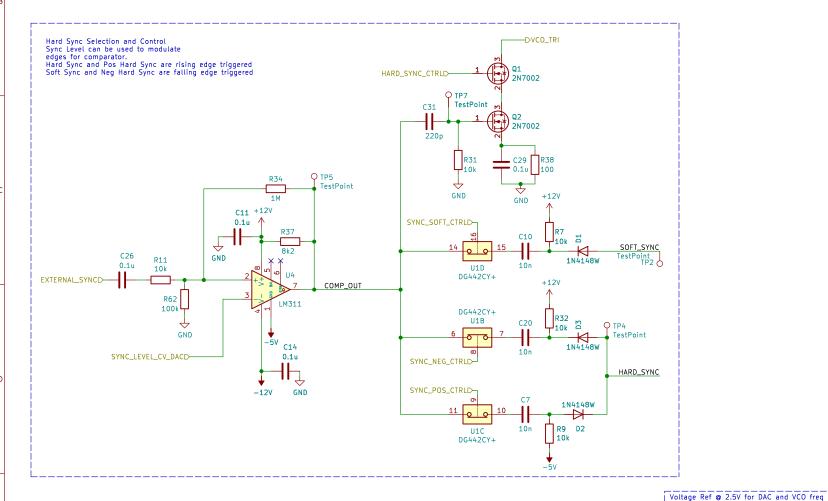
 Size: B
 Date: 2024-07-15
 Rev: 0.8

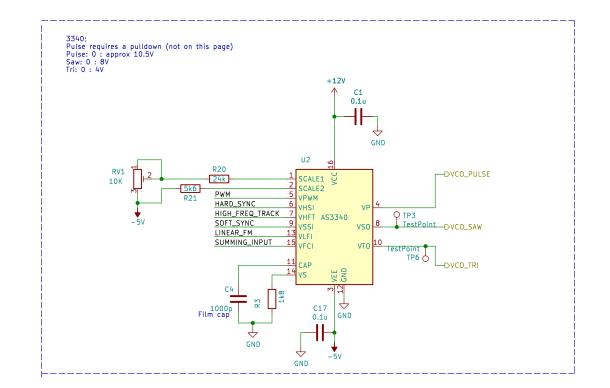
 KiCad E.D.A. kicad 7.0.11
 Id: 2/4

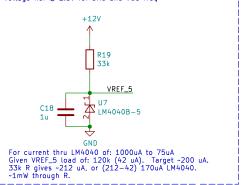


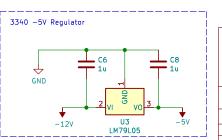






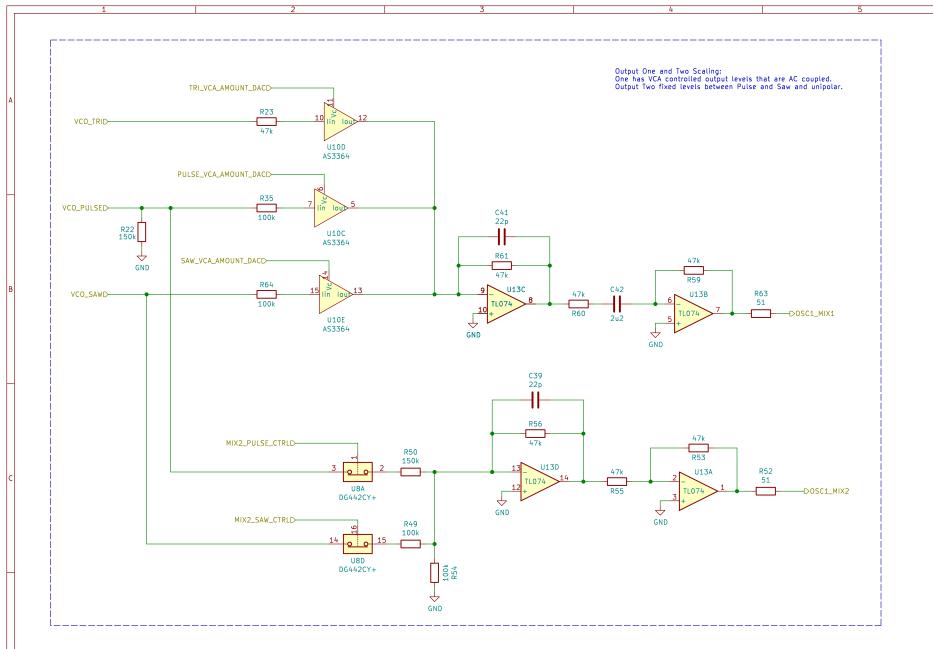


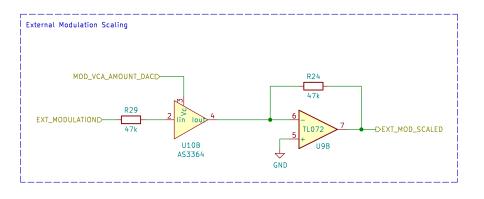




Zoxnoxious Engineering							
Sheet: /vco3340/							
File: vco3340.kicad_sch							
Title: Zoxnoxious 3340 Oscillator							
Size: B Date: 2024-07-15	Rev: 0.8						
KiCad E.D.A. kicad 7.0.11	ld: 3/4						

Sheet Vref load: 62k





Mix1: output i Signal Pulse Saw Triangle	is scaled by 2X Input Level 0:10.5 0:8 0:3.5	this Output:	Offset -1.1 -0.4 AC	Low -1.1 -0.4 -1.7	High 1.1 0.4 1.7	Peak-to-Peak 2.2 0.8 3.5
Mix2 Pulse Saw1	0:10.5 0:8		0.0	0.0 0.0	3.1 3.8	3.1 3.8

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

Title: Zoxnoxious 3340 Oscillator

Size: B Date: 2024-07-15 KiCad E.D.A. kicad 7.0.11 Rev: 0.8 ld: 4/4