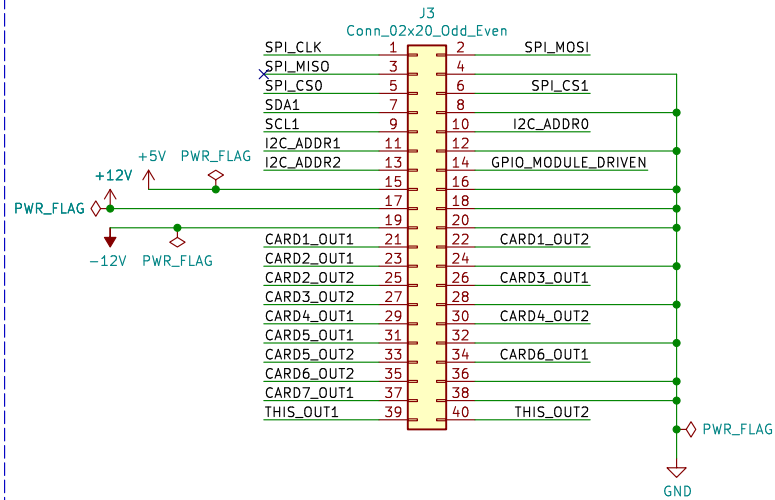
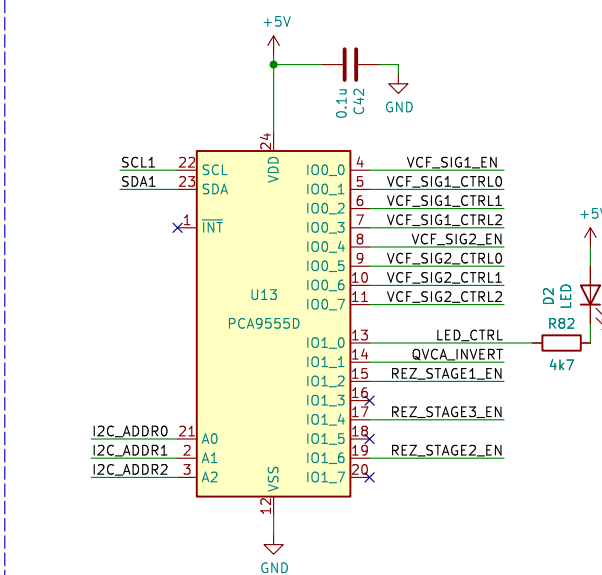


2x20 connection interface

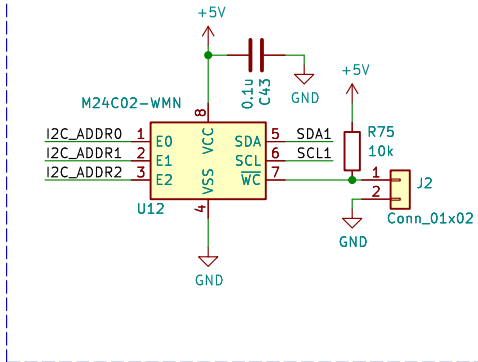


Interface: Zoxnoxious bus interface.
Digital on one side, power in the middle,
analog on the other.
This card will drive THIS_OUT1 and THIS_OUT2 and GPIO_MODULE_DRIVEN.
The other lines are tapped into for various functionality.

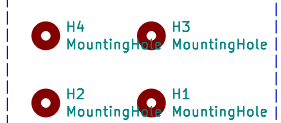
GPIO for switch control



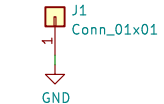
Board ID in EEPROM
I2C address 1010{addr1,addr0}
Write enable via jumper



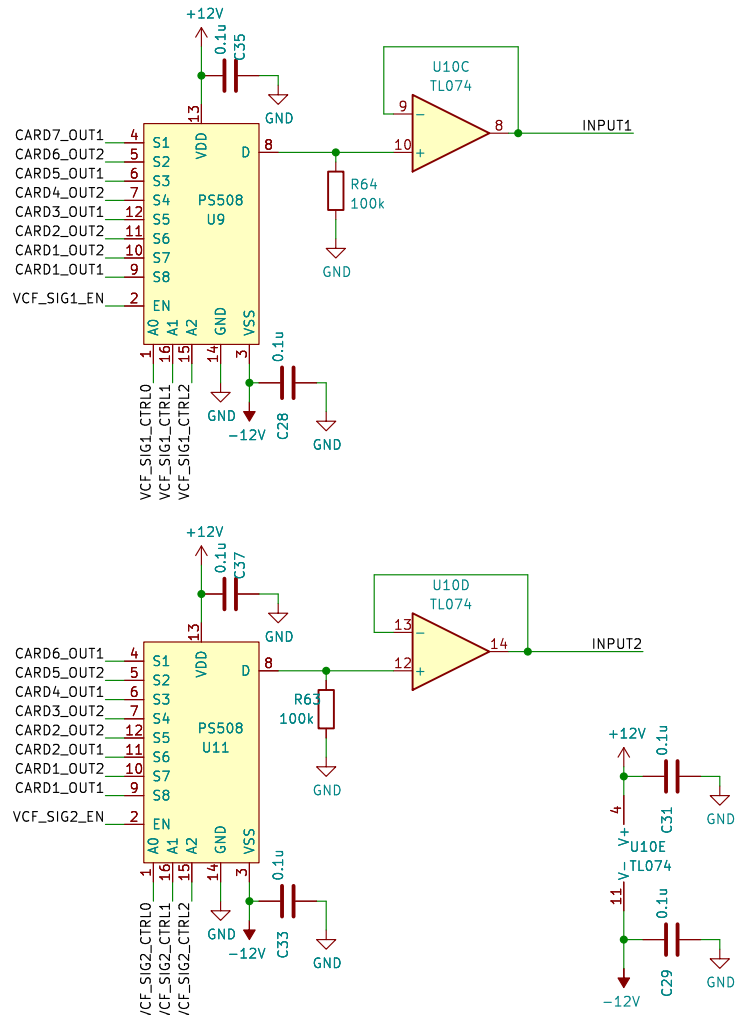
Mounting Holes



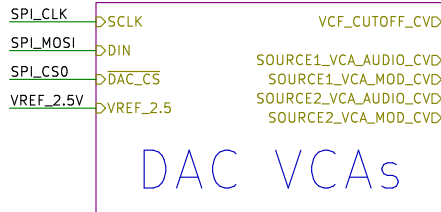
GND Test Point



Signal select --- output selected signal in-phase



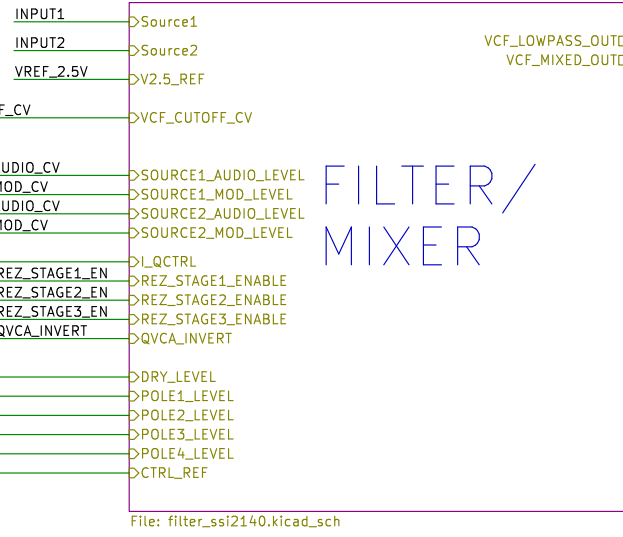
File: dac_2140.kicad_sch



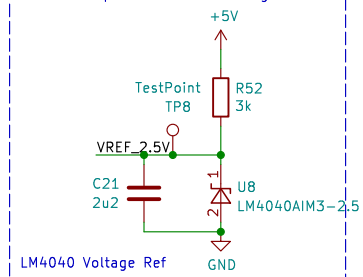
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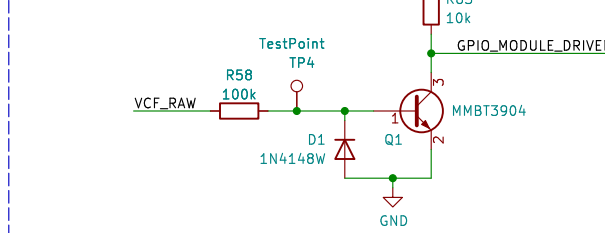
File: filter_ssi2140.kicad_sch



Load: 22.5k || 22.5k || 24k => 7.7k
166 (15mA) > R > 5555 (100uA)
4.7k should put over 100uA through 4040



GPIO MODULE DRIVEN:
Use switching transistor to provide a
0/+5V output for ucontroller. Diode to protect
base for case if input goes significantly negative.



Zoxnoxious Engineering

Sheet: /
File: poledancer.kicad_sch

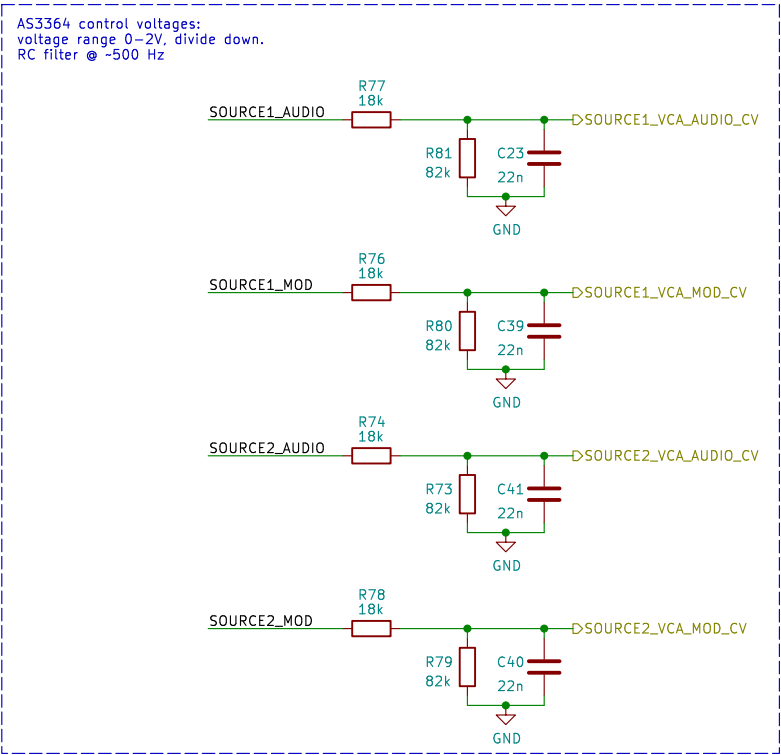
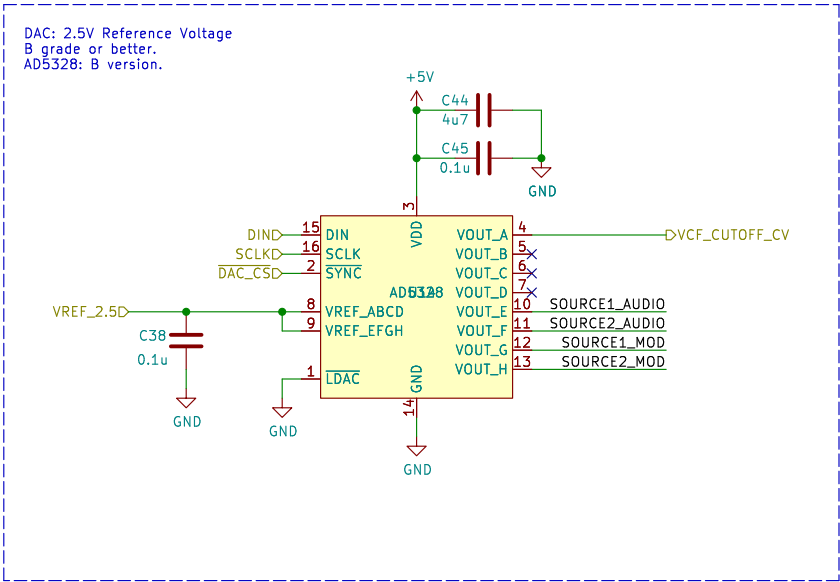
Title: Zoxnoxious Pole Dancer Mixing Filter

Size: B Date: 2025-11-26

KiCad E.D.A. kicad 7.0.11

Rev: 0.3

Id: 1/4



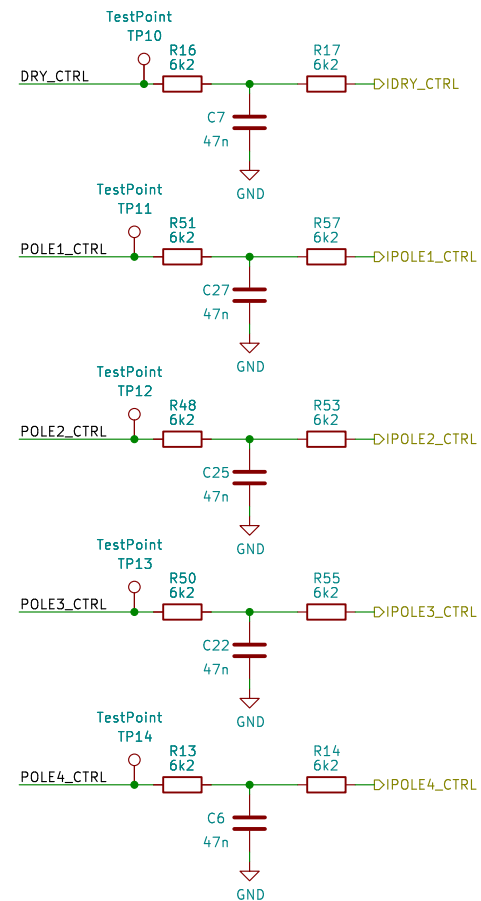
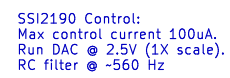
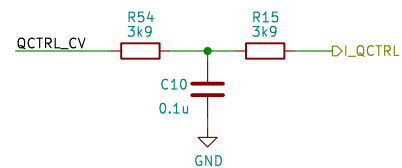
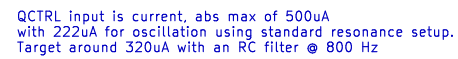
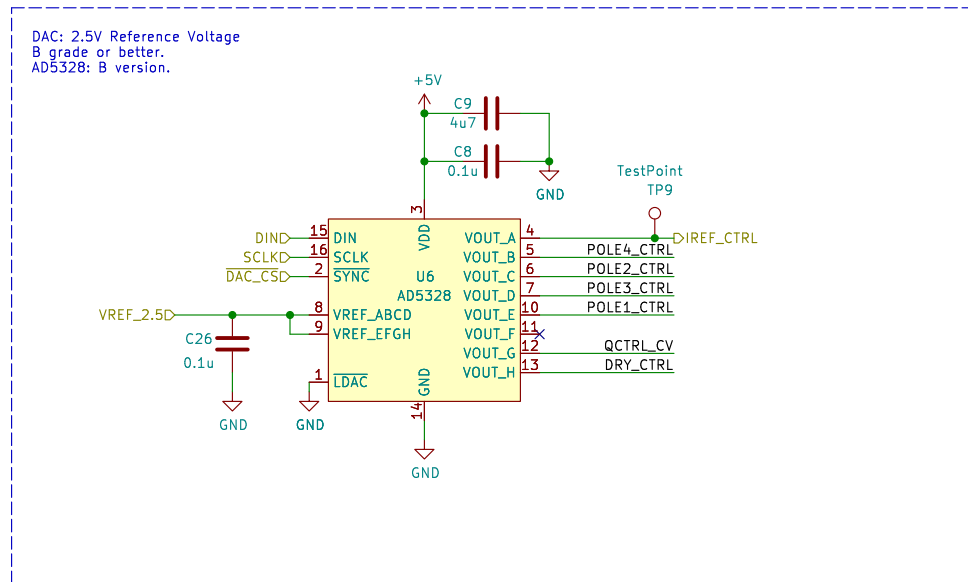
Sheet Vref load: 45k || 45k ==> 22.5k

Zoxnoxious Engineering

Sheet: /dac_2140/
File: dac_2140.kicad_sch

Title: Zoxnoxious Pole Dancer Mixing Filter

Size: B	Date: 2025-11-26	Rev: 0.3
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Sheet Vref load: 45k || 45k ==> 22.5k

