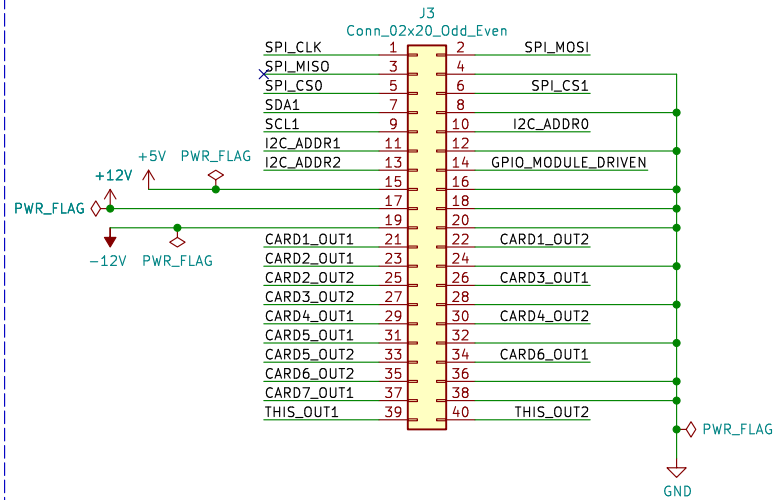
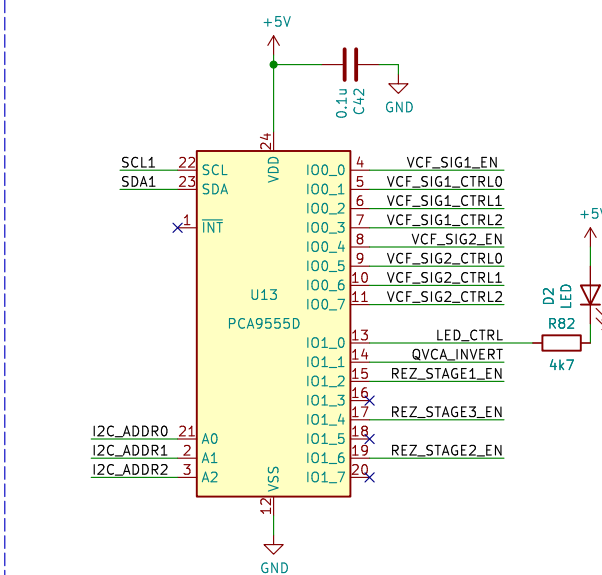


2x20 connection interface

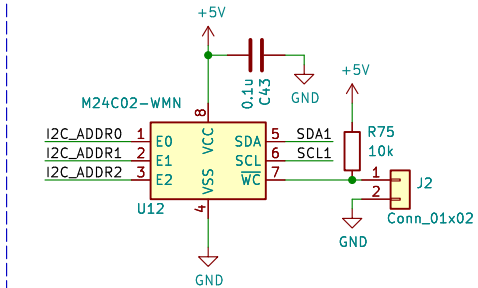


Interface: Zoxnoxious bus interface.  
Digital on one side, power in the middle,  
analog on the other.  
This card will drive THIS\_OUT1 and THIS\_OUT2 and GPIO\_MODULE\_DRIVEN.  
The other lines are tapped into for various functionality.

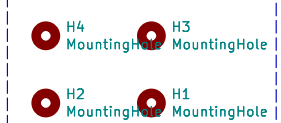
GPIO for switch control



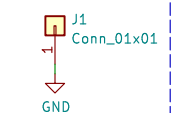
Board ID in EEPROM  
I2C address 1010[addr2,addr1,addr0]  
Write enable via jumper



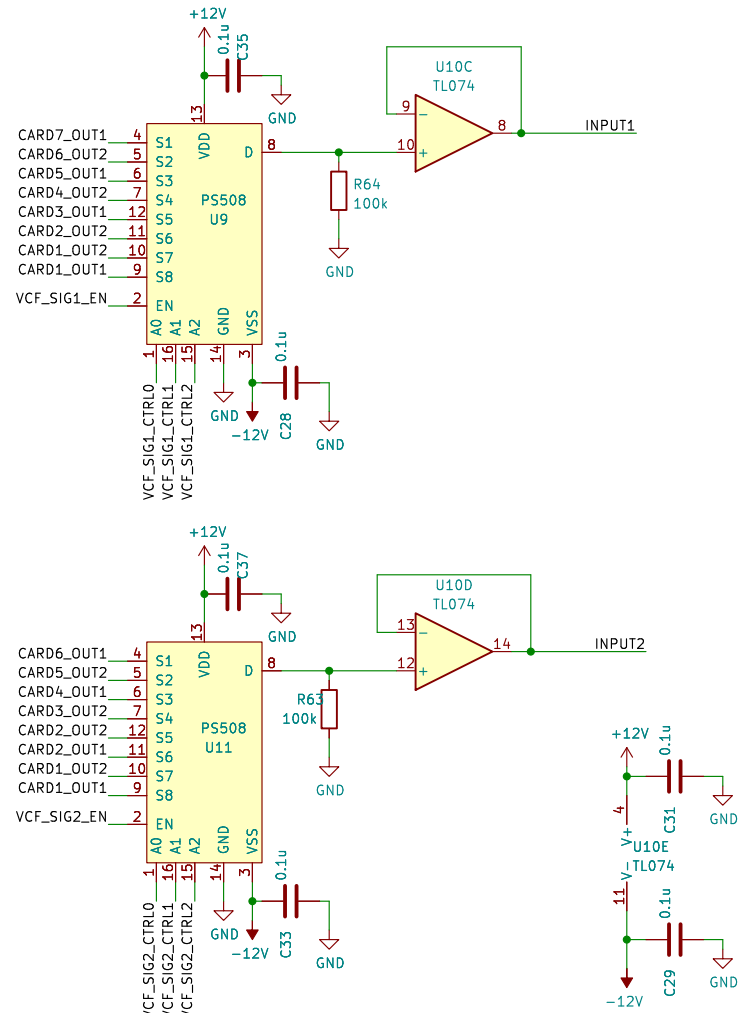
Mounting Holes



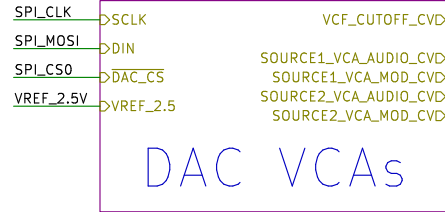
GND Test Point



Signal select --- output selected signal in-phase



dac\_2140



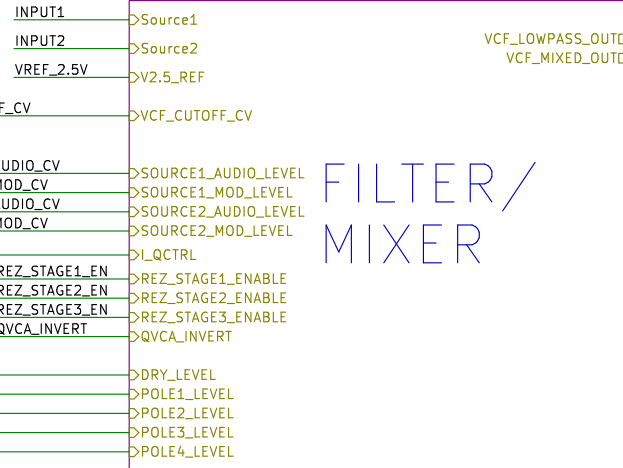
File: dac\_2140.kicad\_sch

dac\_2190



File: dac\_2190.kicad\_sch

filter\_ssi2140

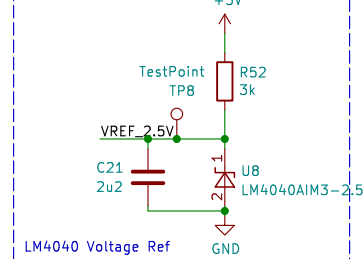


File: filter\_ssi2140.kicad\_sch

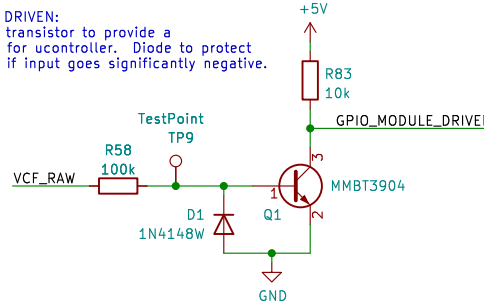
Load: 22.5k || 22.5k || 24k => 7.7k

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

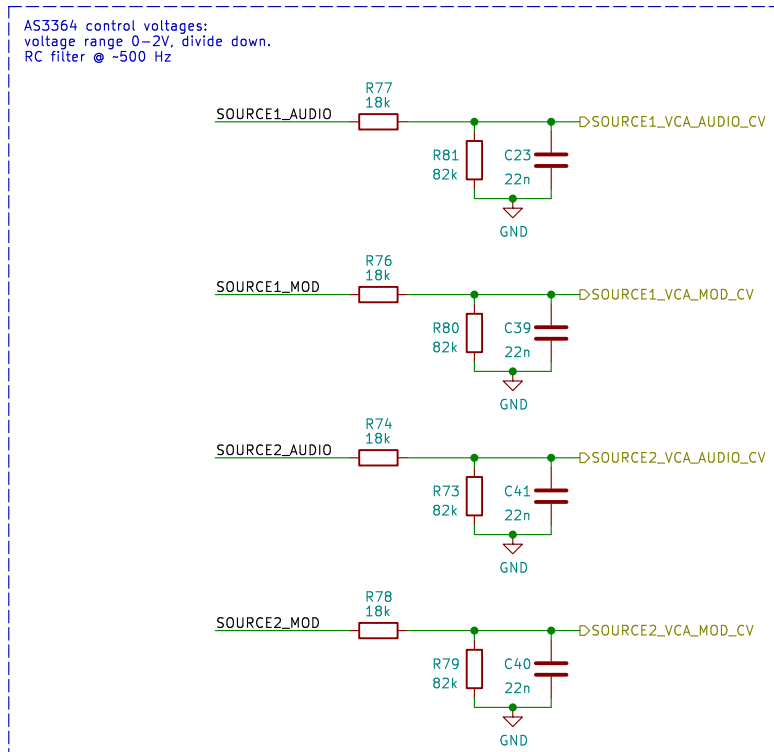
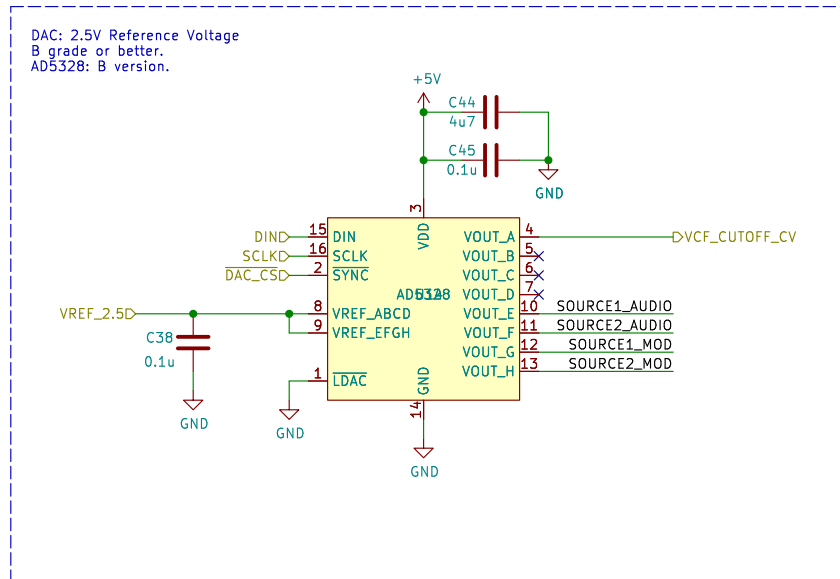
Size: B

Date: 2025-02-13

Rev: 0.2

KiCad E.D.A. kicad 7.0.11

Id: 1/4



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



