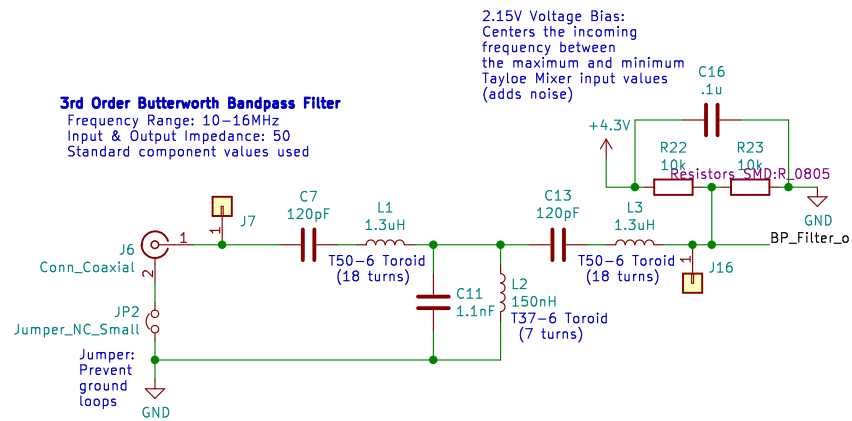
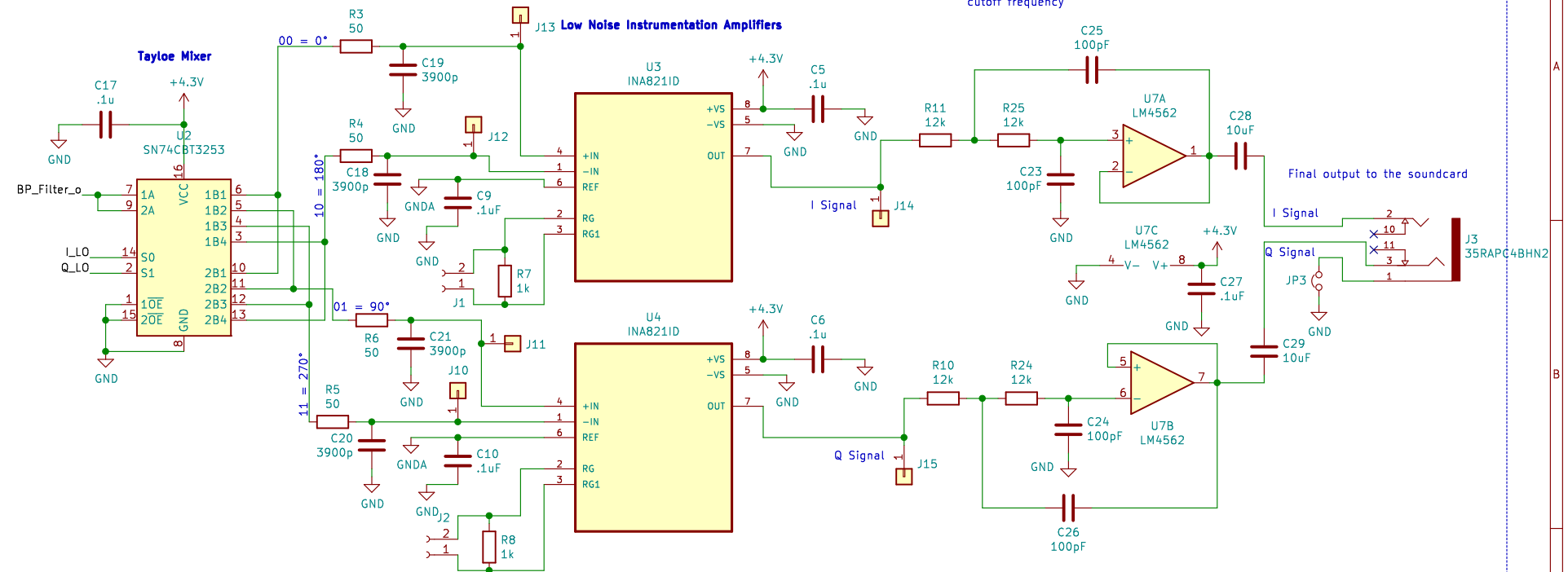




Frequency Range: 10–16MHz  
Input & Output Impedance: 50  
Standard component values used

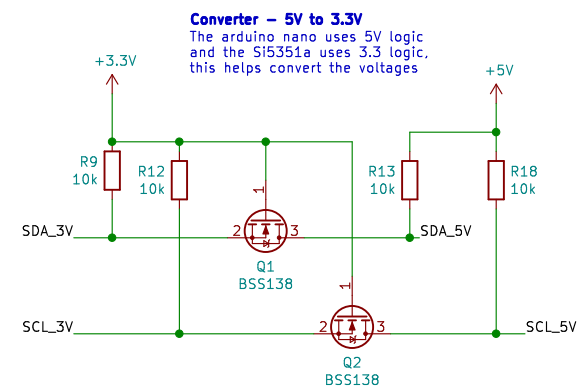


Toroid Info:  
T37-6:  $3nH$  per turns<sup>2</sup>  
T50-6:  $4nH$  per turns<sup>2</sup>  
See datasheet for more info

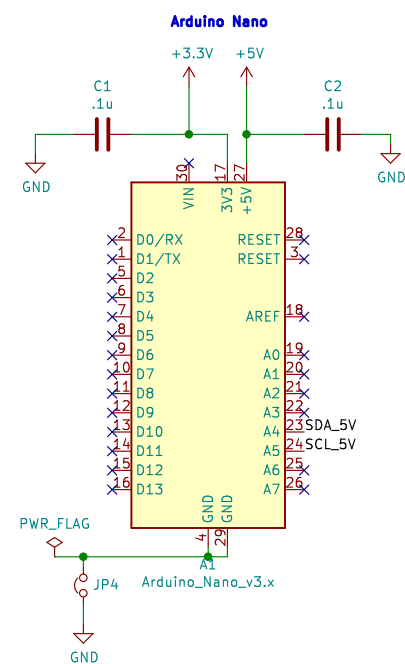


### Two Pole Sallen–Key Low Pass Filter

Designed for a 100kHz  
cutoff frequency

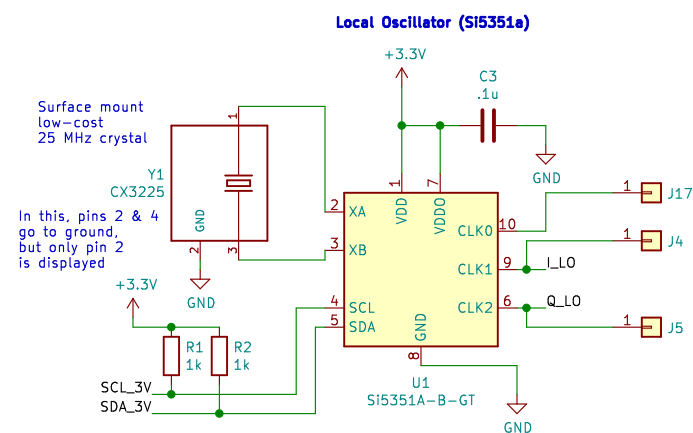


The arduino nano uses 5V logic and the Si5351a uses 3.3 logic, this helps convert the voltages



### Voltage Smoother

The power supply from the USB may contain noise, this helps with that



Surface mount  
low-cost  
25 MHz crystal

CX32

In this, pins 2 & 3 go to ground, but only pin 2 is displayed

\* This version modified the voltage convertor and added a ground test point

Jared Evans & Nate Price

ENGR 357

Rob Frohne

Walla Walla University

Sheet:

File: ENGR357\_Project\_v2.0.sch

**Title: SDR Reciever**

Size: B

Date: 2021-05-31

Rev: v2.0

|              |                 |
|--------------|-----------------|
| Size: D      | Date: 2021-     |
| KiCad E.D.A. | kicad (5.1.9)-1 |

REV. 12.0

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d: 1/1