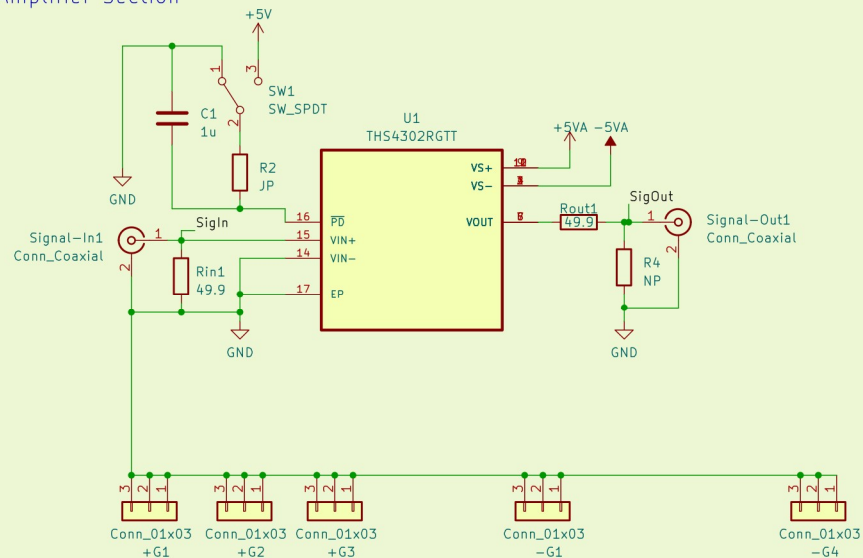


## Amplifier Section

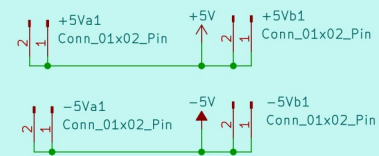


## Input Voltage

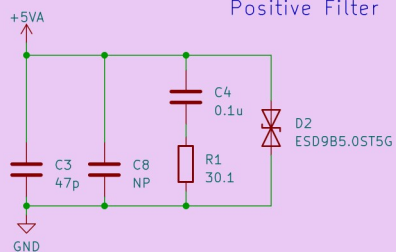
Rated  $\pm 2.5V$   
Maximum  $\pm 3.0V$   
Impedance  
Input 50 Ohm  
Output 50 Ohm

Gain Bandwidth Product (GBP): 12 GHz  
Small Signal Bandwidth: 2.4 GHz  
Input Offset Voltage: 0.5 mV typical  
Input Voltage Range:  $-0.2V$  to  $+2V$   
Output Voltage Swing:  $\pm 1.5V$   
Power Supply Voltage: 5 V  
Output Type: Differential  
Power Consumption: 505 mW  
Noise Figure: 16 dB  
Package Type: 16-pin QFN

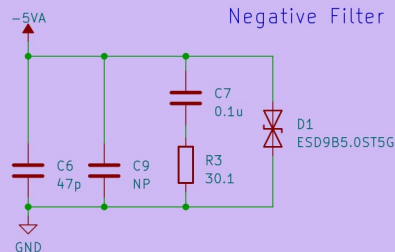
## Connector



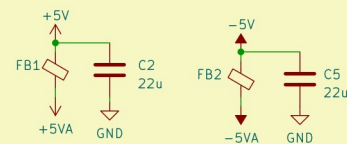
## Positive Filter



## Negative Filter



## Choke



Sheet: /  
File: RF-Amp-BEngMajor.kicad\_sch

**Title: RF Amplifier Based on The TI THS4302**

Size: A4 Date: 2024-03-24  
KiCad E.D.A. 9.0.1

Rev: 1.0  
Id: 1/1