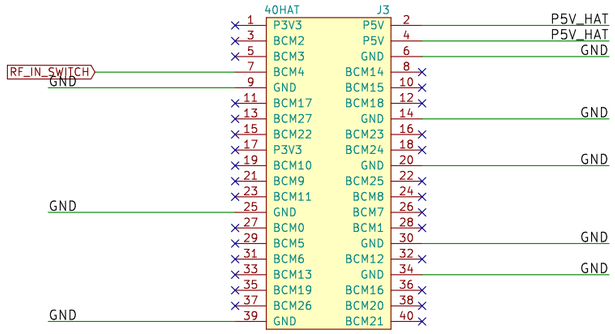
This is based on the official Raspberry Pi spec to be able to call an extension board a HAT.
https://github.com/raspberrypi/hats/blob/master/designguide.md

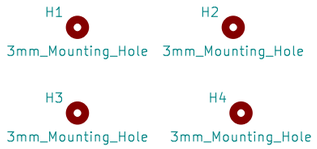
40-Pin HAT Connector

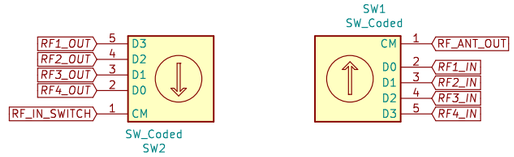


5V Powered HAT Protection

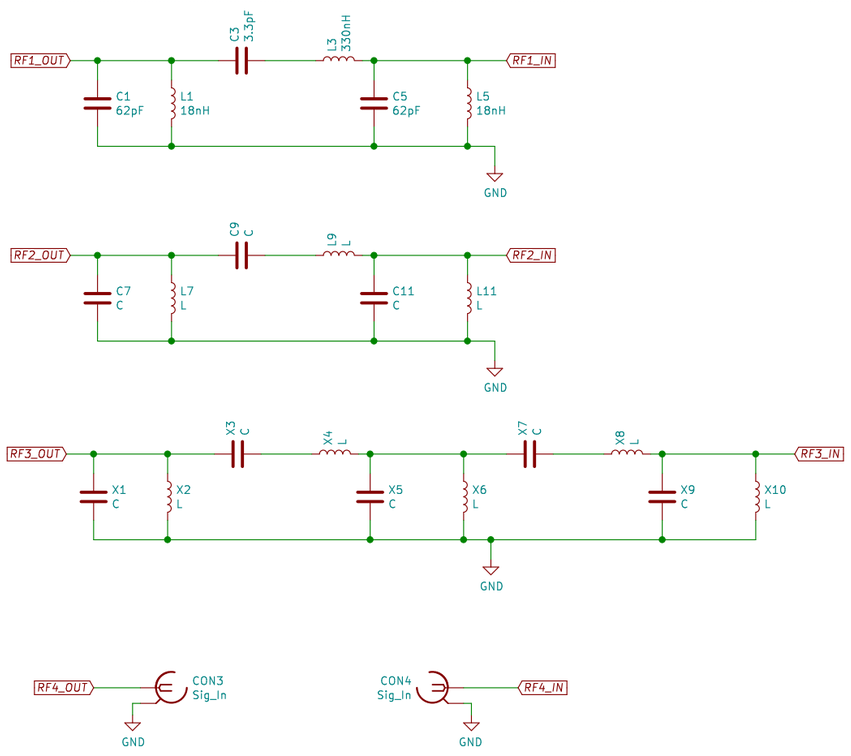
This is the recommended 5V rail protection for
a HAT with power going to the Pi.
See https://github.com/raspberrypi/hats/blob/master/designguide.md#back-powering-the-pi-via-the-j8-gpio-header

Mounting Holes

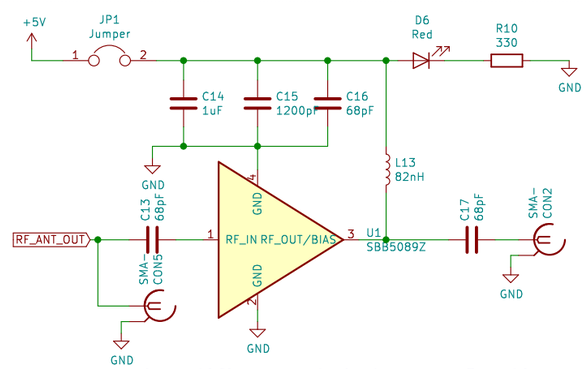




RF Switch Setion

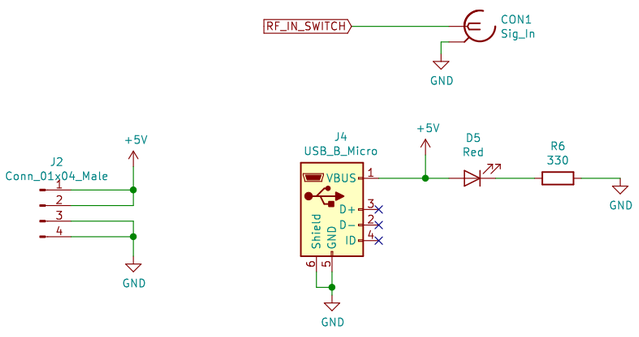


Filter Section



Amplifier and Antenna Section

Manual Line Selection



Connectors and Line select Indicator

Sheet: /
File: RPi Hat RF Transmitter V1.sch

Title: Raspberry Pi HAT

Size: A3	Date:	**Rev: A**
KiCad E.D.A. kicad (5.1.4)-1		Id: 1/1