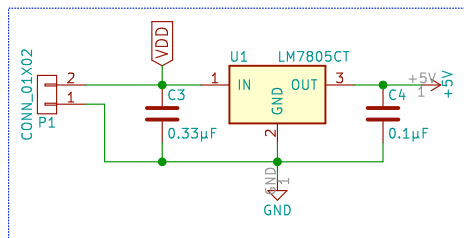
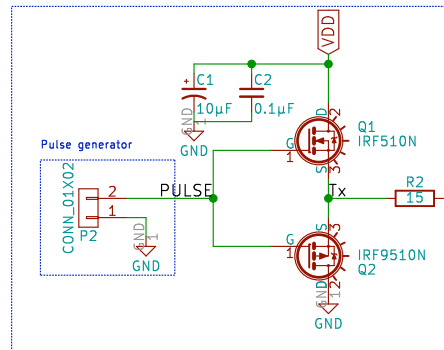


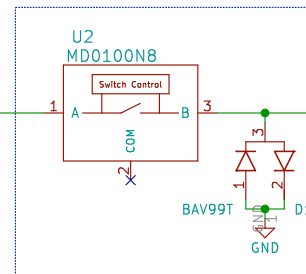
## Power Supply +5V



## Transmitter

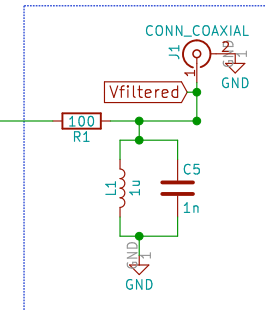


## T/R Switch

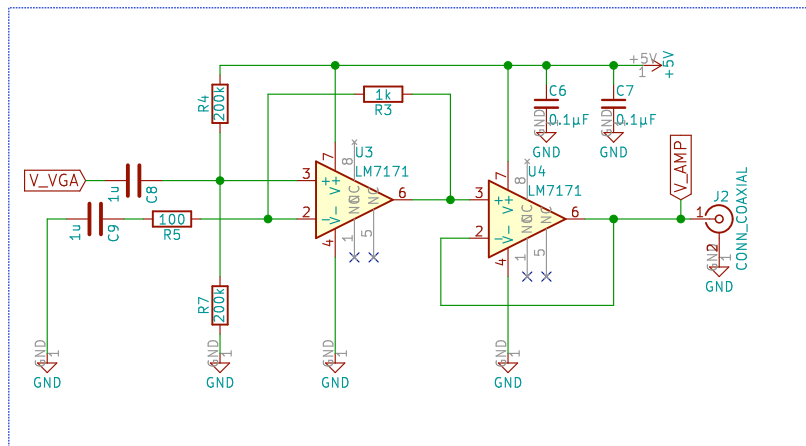


## Bandpass Filter

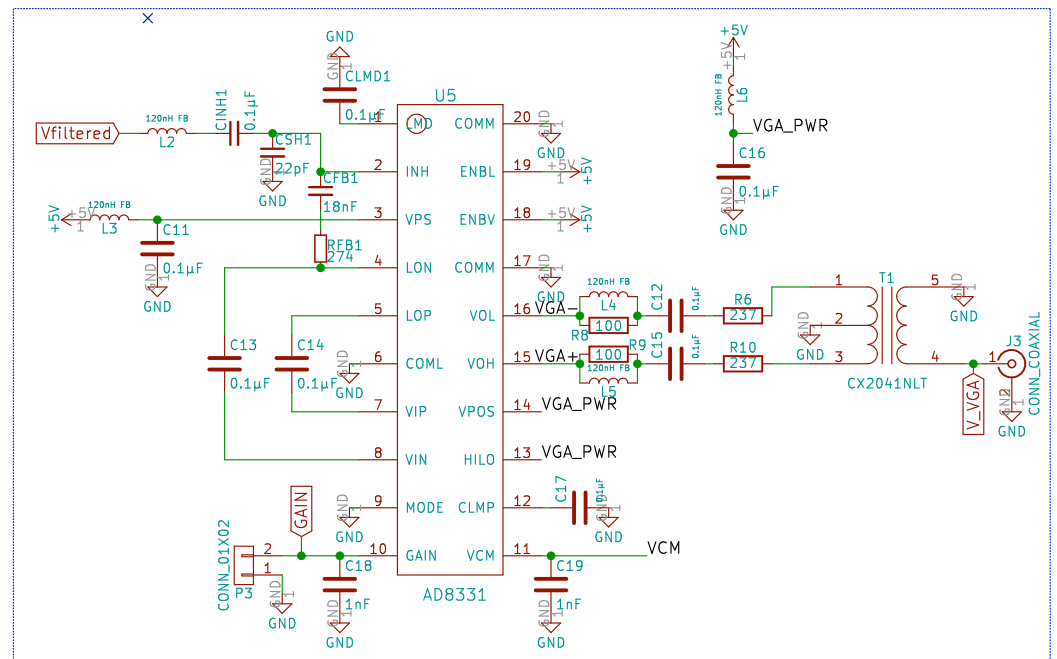
make sure to use a 10:1 probe on Vfiltered to minimize parasitic capacitance  
place the VGA input close to this filter's output in order to minimize noise



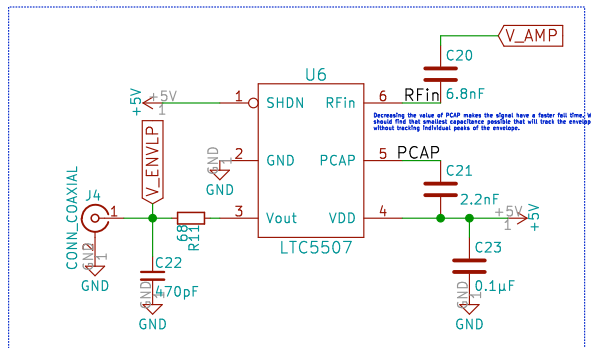
## Additional Amplifier



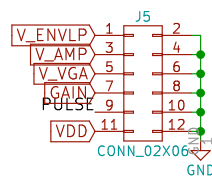
## VGA



## Envelope Detector



## Edge Connector



Columbia University – Creative Machines Lab

Sheet: /

File: Analog\_Frontend.sch

Title: Analog Frontend for Low Cost Ultrasound Device

Size: USLetter Date: 2017-06-16

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