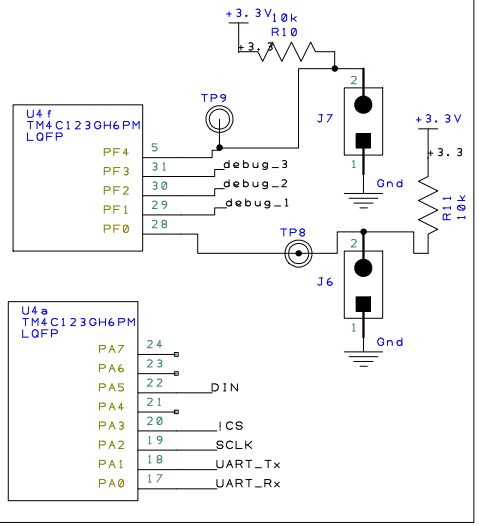
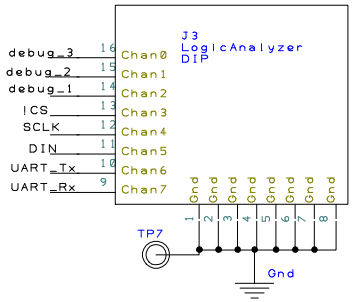
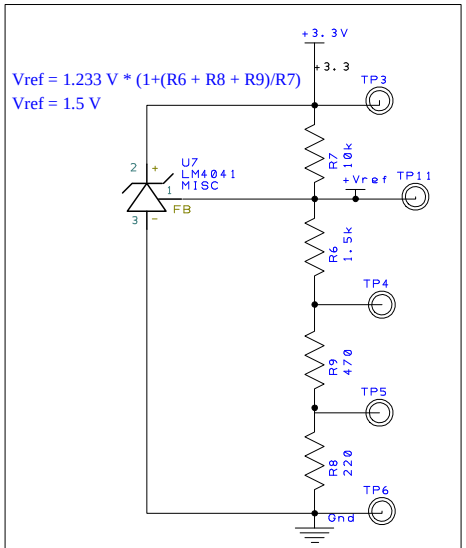
TM4C Peripheral Connections



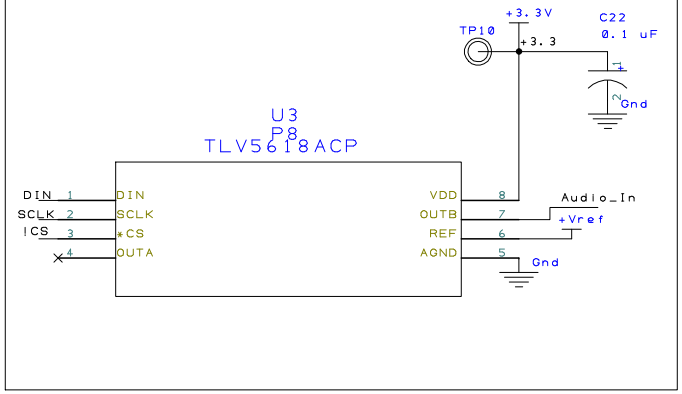
Logic Analyzer Connections



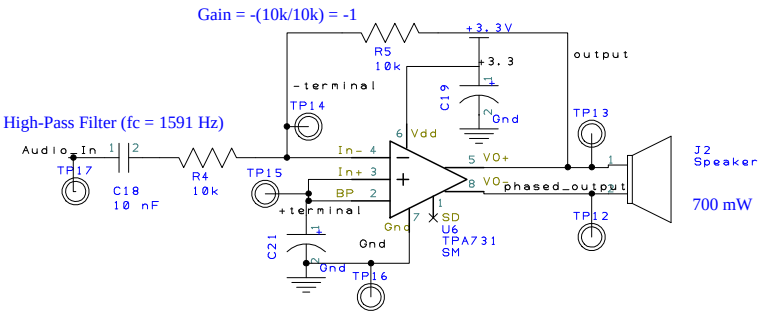


1.5V Reference for DAC

Digital to Analog Converter



Audio Amplifier Circuit and Speaker



University Of Texas At Austin		
Schematic Name:	Lab 6 starter	
Name(s):	Daniel Diamont	
Date: 2/27/2018		**Semester:** Spring 2018

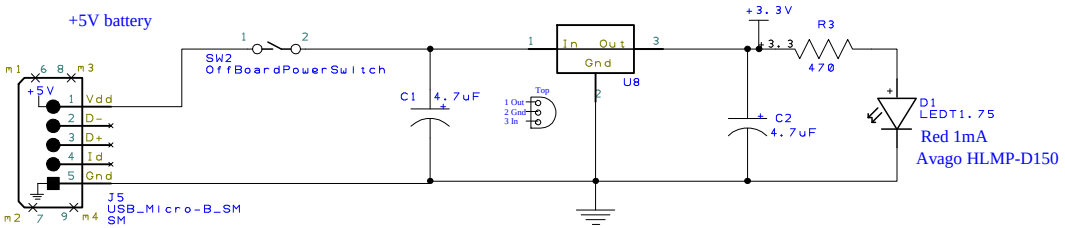
A3

This PCB will go into a Lab9Box, WoodBox and WoodBox2
Spring 2018, use this for Lab 6 but NOT for Lab 7

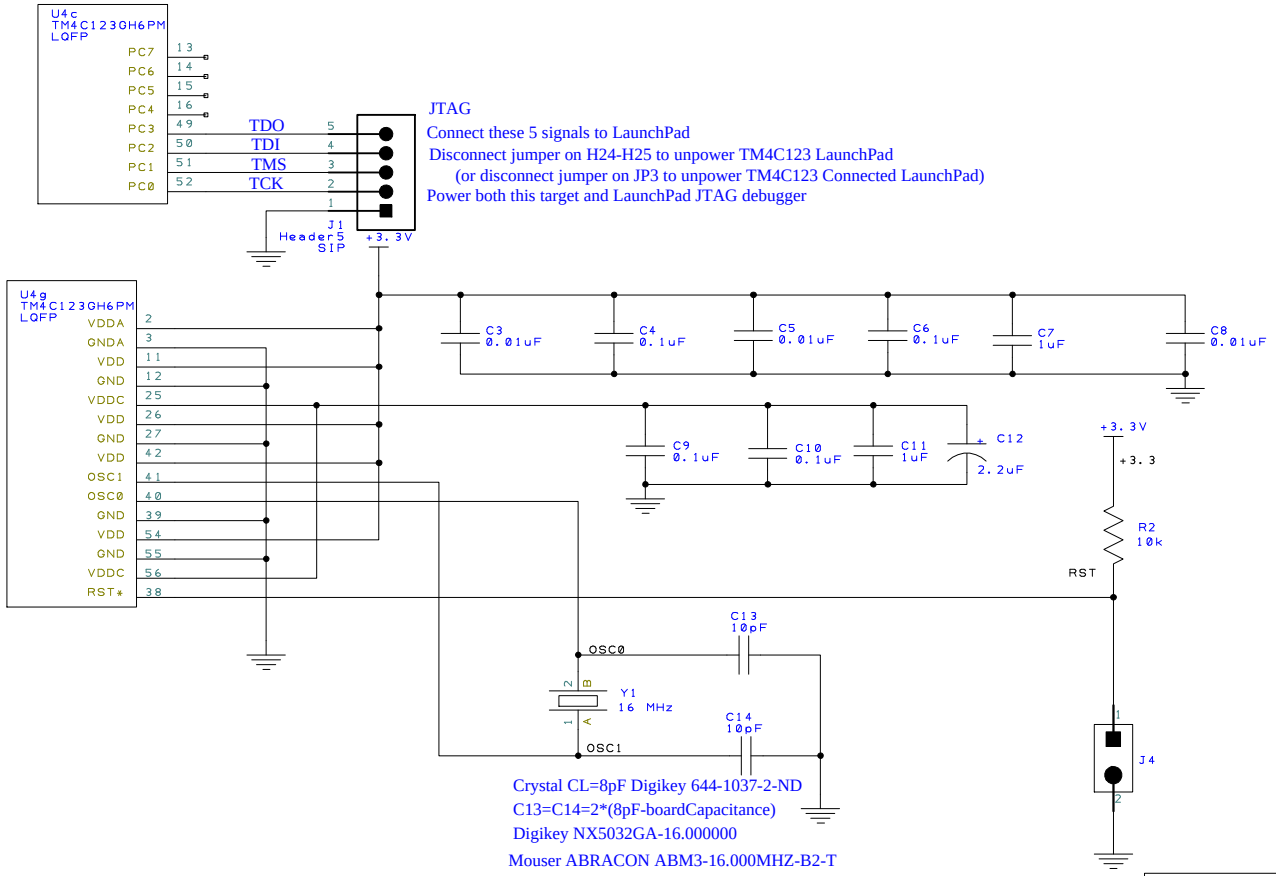
Battery external to PCB

+5V battery

Dropout voltage is 350mV
Maximum output current is 100 mA



Replace with LM2937-3.3 if 100<I<500mA



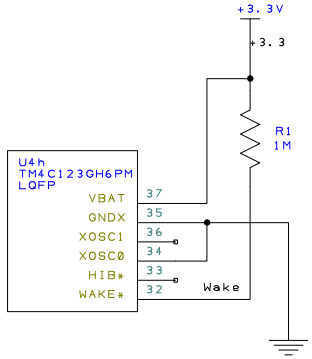
JTAG

Connect these 5 signals to LaunchPad

Disconnect jumper on H24-H25 to unpower TM4C123 LaunchPad
(or disconnect jumper on JP3 to unpower TM4C123 Connected LaunchPad)

Power both this target and LaunchPad JTAG debugger

Crystal CL=8pF Digikey 644-1037-2-ND
C13=C14=2*(8pF-boardCapacitance)
Digikey NX5032GA-16.000000
Mouser ABRACON ABM3-16.000MHZ-B2-T



University Of Texas At Austin			
Schematic Name:	Lab 6 starter file Power Clock JTAG		
Name(s):	Daniel Diamont		
Date:	2/27/2018	**Semester:**	Spring 2018

A2