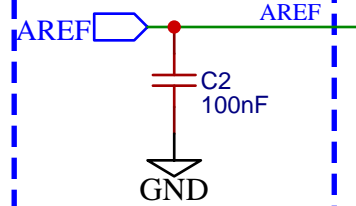


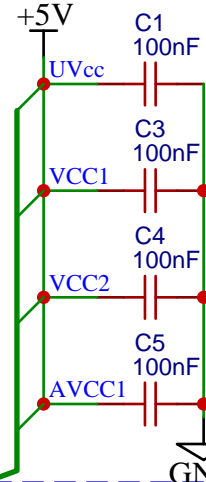
Audio Spectrum Visualizer

Audio input through off board microphone
Display through off board 8x8 LED Matrix

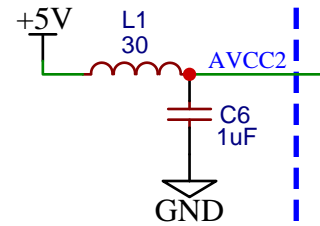
Analog Reference



+5V Decoupling Capacitors

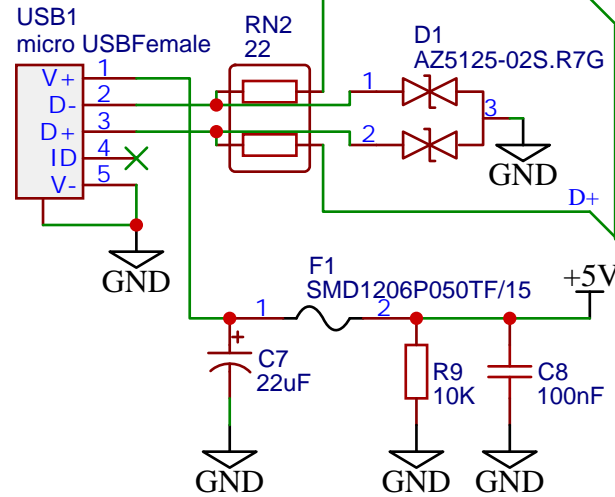


Low Pass Filter

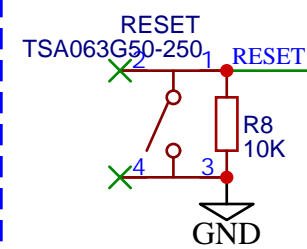


To supply voltage pin for all A/D converter channels

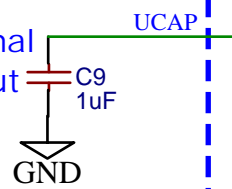
Micro USB



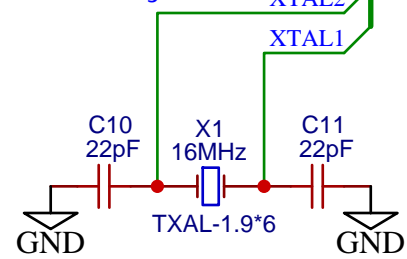
Reset Button



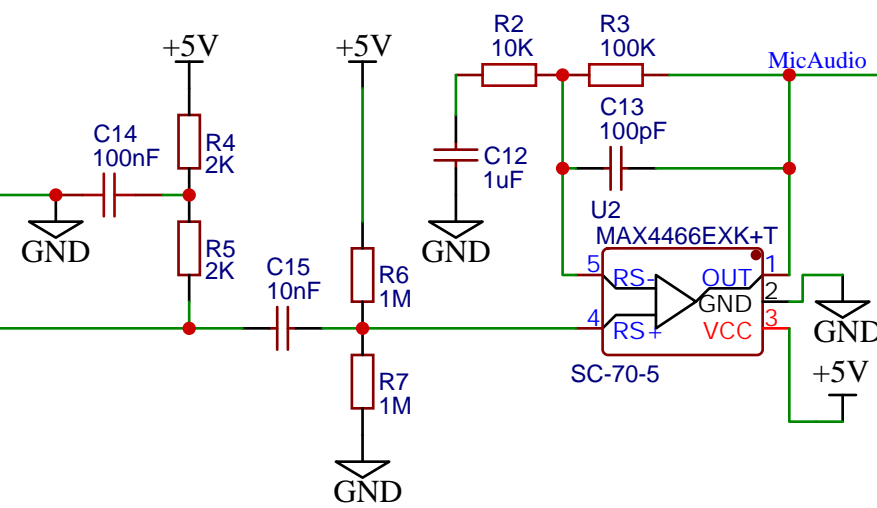
USB Pads Internal Regulator Output Supply Voltage.



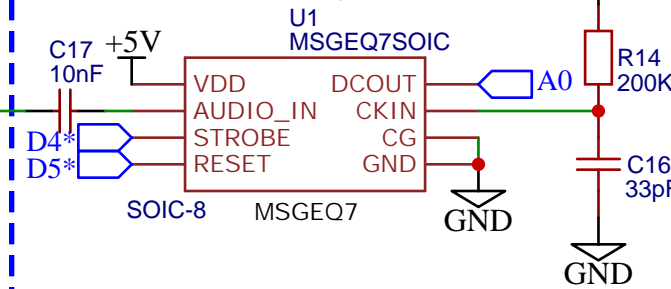
Clock Crystal



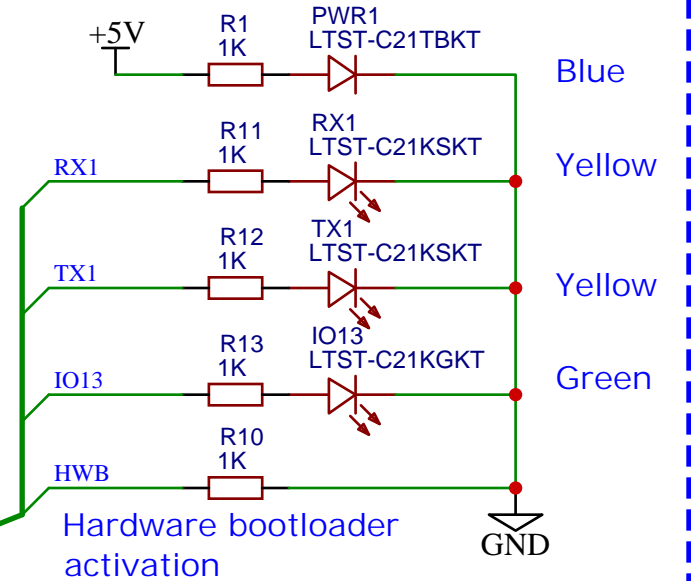
Microphone PreAmp



7 Band Bandpass Filter IC



Indicator LED's

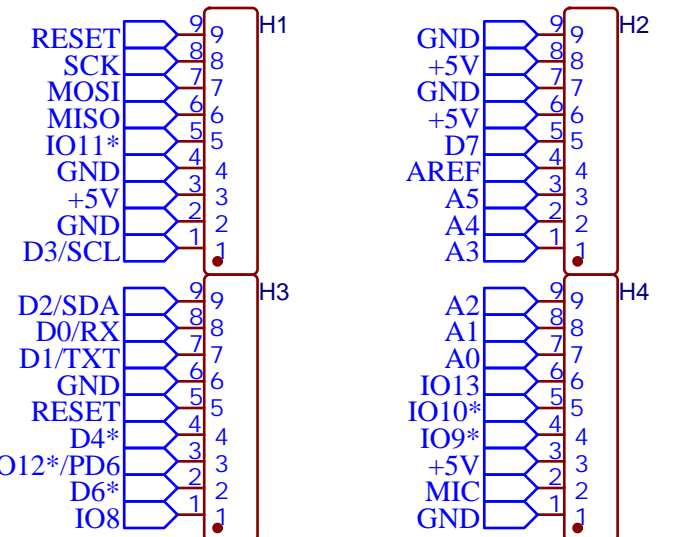


Off Board 8x8 Display Matrix

Data IN 1
GND 2
+5V 3

All flags connect to Pin headers

Pin Headers



TITLE:

Audio Spectrum Visualizer

REV: 1.2

Company: ECE411

Sheet: 1/1

Date: 11-21-2019 Drawn By: mchalona