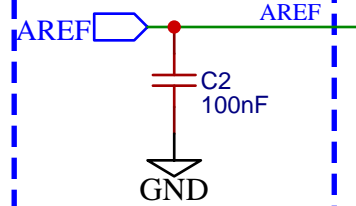


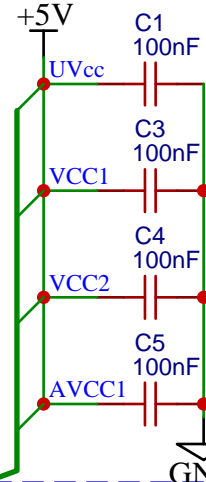
# Audio Spectrum Visualizer

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

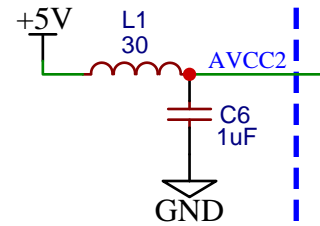
## Analog Reference



## +5V Decoupling Capacitors

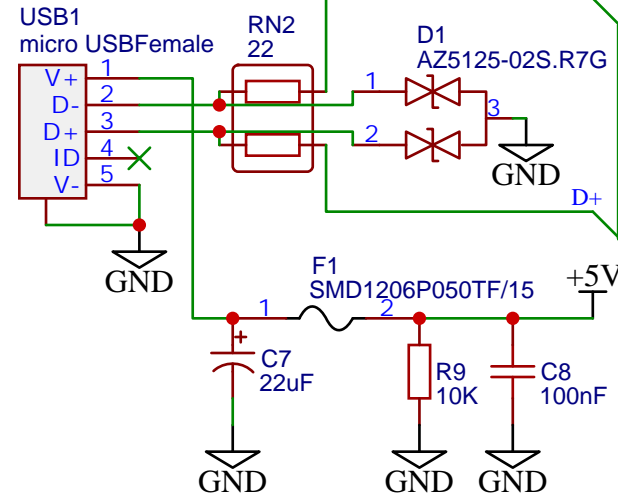


## Low Pass Filter

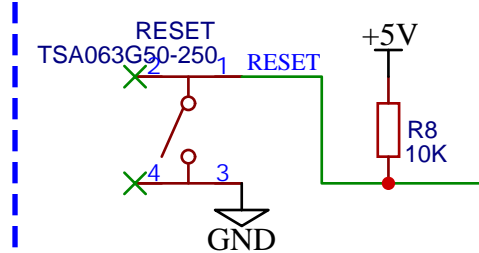


To supply voltage pin for all A/D converter channels

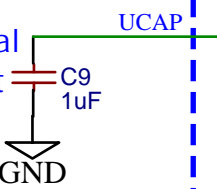
## Micro USB



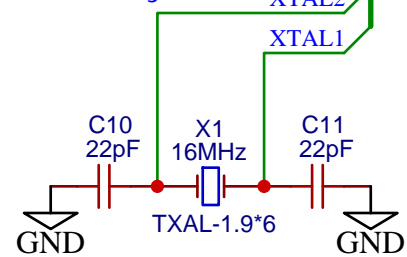
## Reset Button



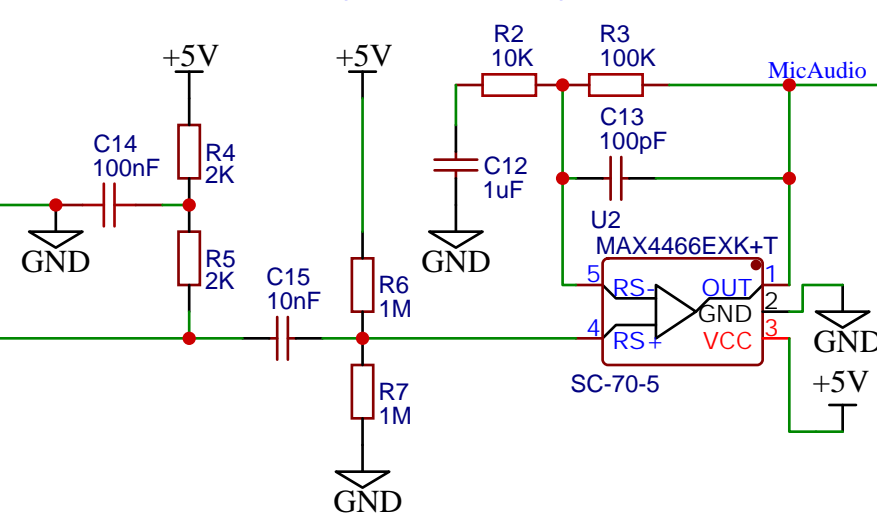
USB Pads Internal Regulator Output Supply Voltage.



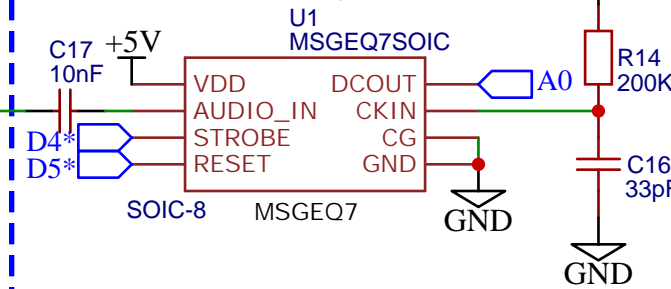
## Clock Crystal



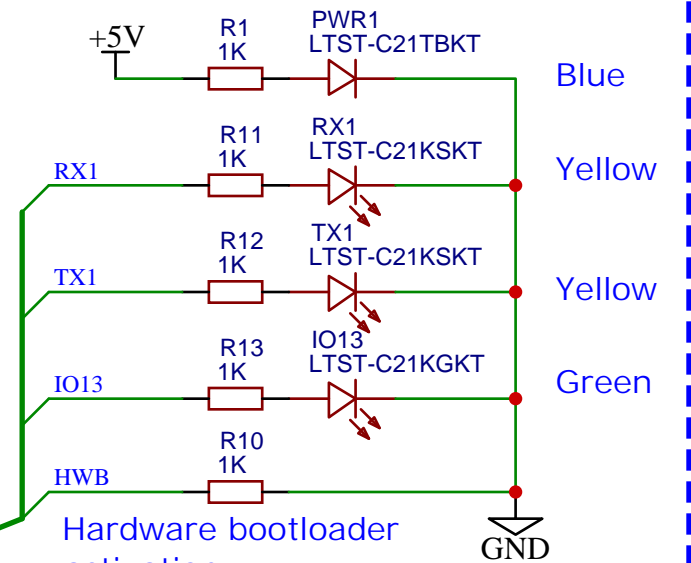
## Microphone PreAmp



## 7 Band Bandpass Filter IC

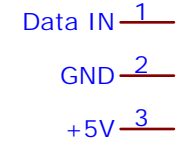


## Indicator LED's



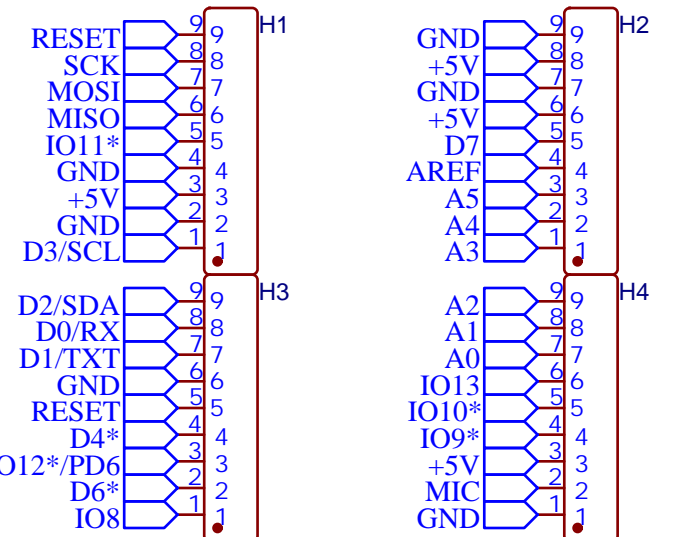
Hardware bootloader activation

## Off Board 8x8 Display Matrix



All flags connect to Pin headers

## Pin Headers



TITLE:

Audio Spectrum Visualizer

REV: 1.3

Company: ECE411

Sheet: 1/1

Date: 12-04-2019 Drawn By: mchalona