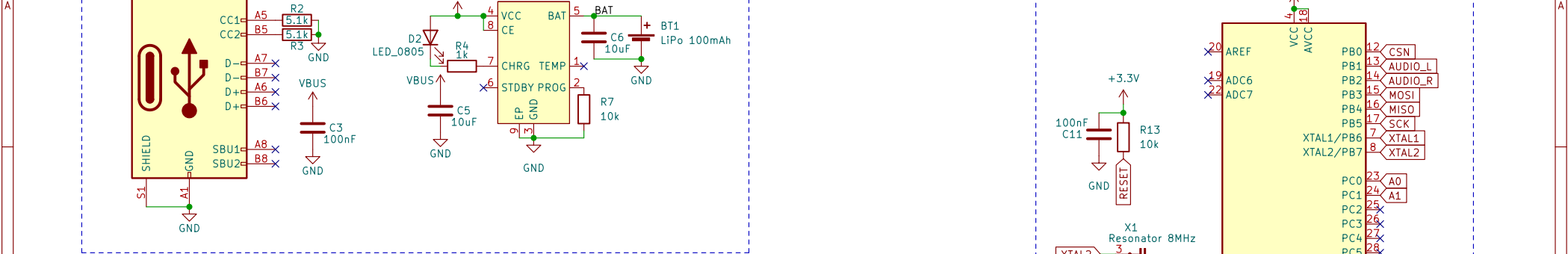
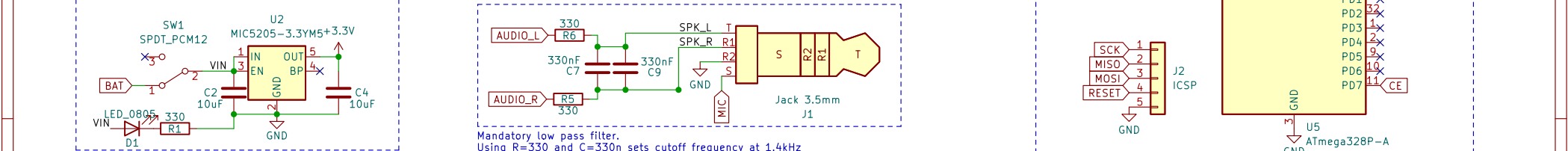


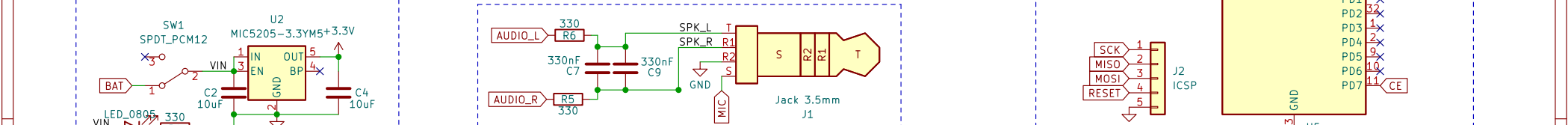
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**Voltage regulator** **Audio output**

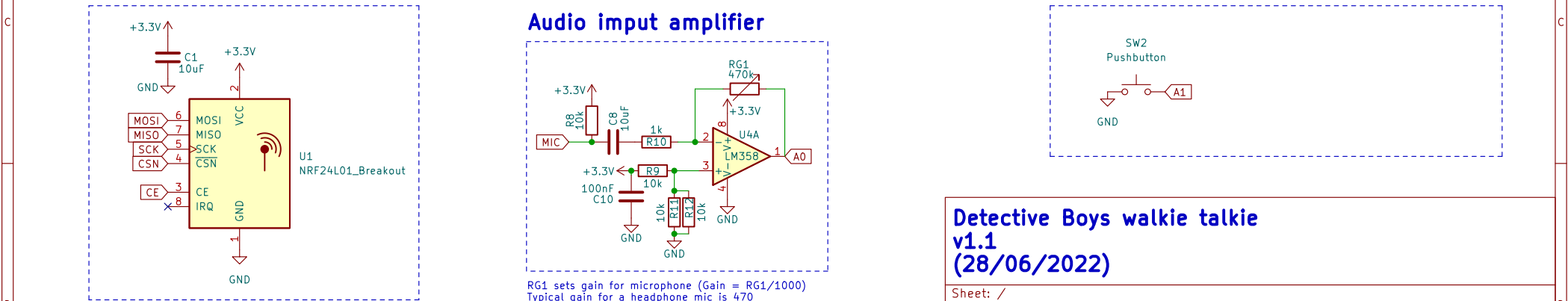


**Voltage regulator** **Audio output**

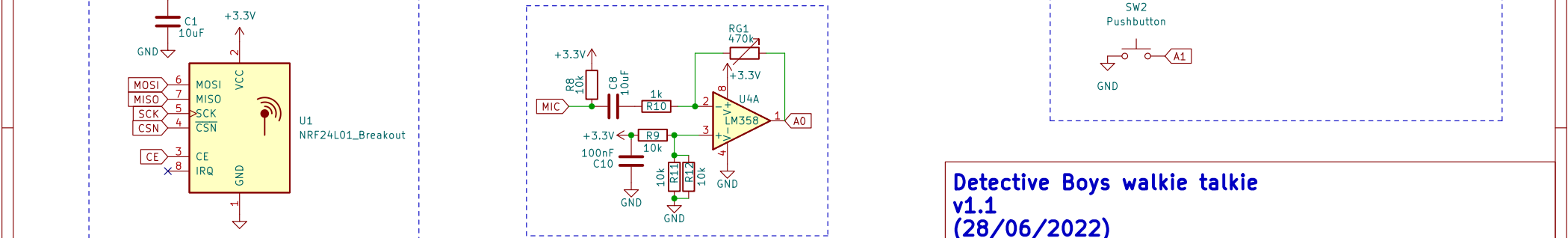


Mandatory low pass filter.  
Using  $R=330$  and  $C=330n$  sets cutoff frequency at 1.4kHz  
Filters pwm high frequency and allows human voice frequencies

Radio communication	1/0
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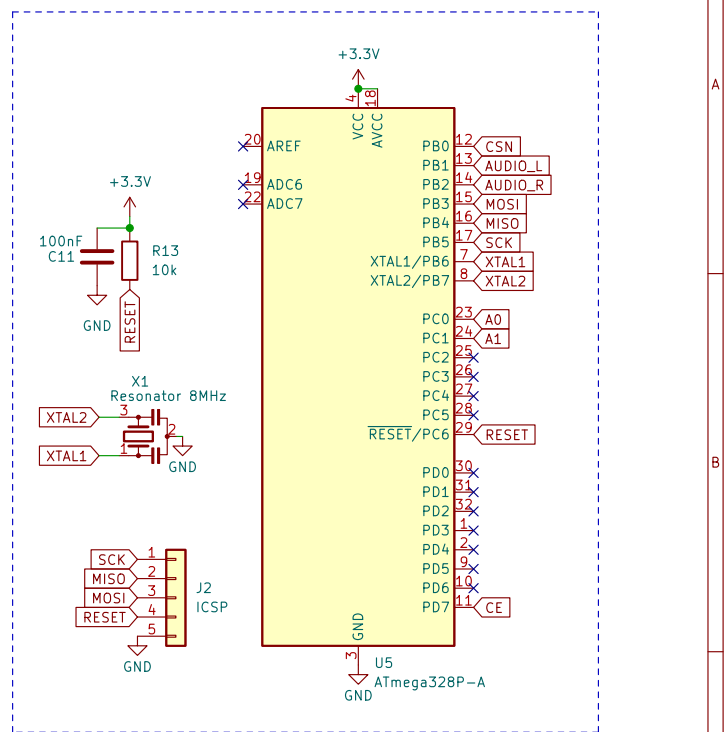
Audio input amplifier



RG1 sets gain for microphone (Gain = RG1/1000)  
 Typical gain for a headphone mic is 470  
 For capsule microphone values might be lower around 100

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Microcontroller  
ATMEGA328P 3.3v 8MHz



## 1/0



Detective Boys walkie talkie  
v1.1  
(28/06/2022)

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