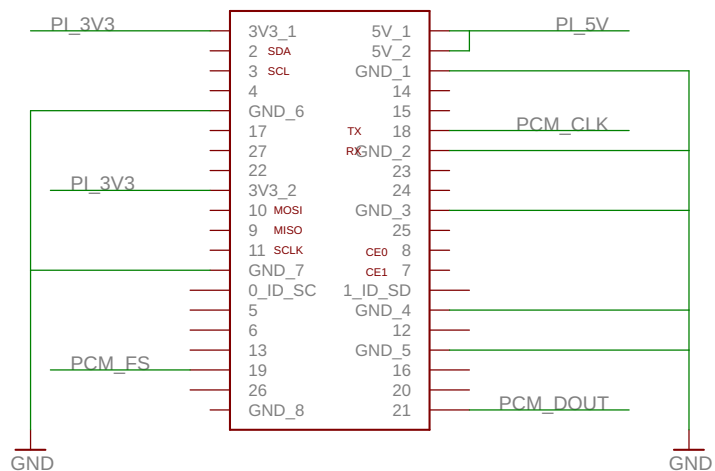


# Audio Amp SHIM (3W Mono Amp) (PIM541)

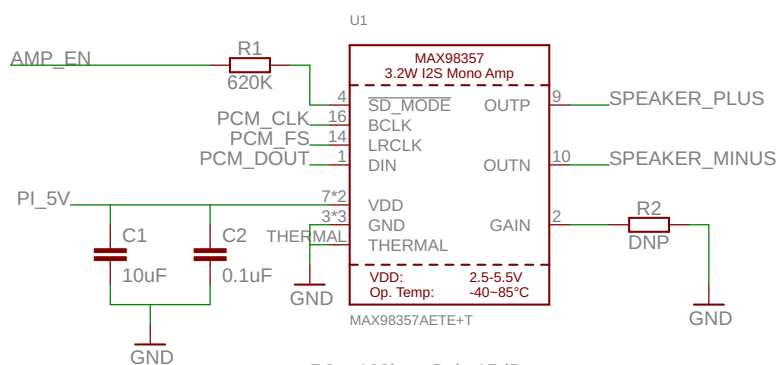
## Pi GPIO Header



## Speaker



## DAC + AMP IC



R2 = 100k -> Gain 15dB  
 R2 = 0ohm -> Gain 12dB  
 R2 DNP -> Gain 9dB  
 (Gain values of 6dB and 3dB would need a resistor to PI\_5V)

(resistances at 5V / 3V3 input)  
 R1 = 1M/620k -> mix both channels  
 R1 = 0ohm -> left channel  
 R1 = 370k/220k -> right channel

## Amp Shutdown Circuitry

Charge pump to enable the amp chip only when PCM\_FS clock is on  
 Q1 gate capacitance is used as the charge pump capacitor.

