

# EMG SpikerShield Board

(your board color could be different)

Note1: The position of the components could be different depending on the model of your board.

C1, C2, C10,  
C100 = 10  $\mu$ F  
(label 106)

C8= 560  $\mu$ F  
(label 561)

C7= 0.47  $\mu$ F  
(label 474 or 4742)

R7, R70 = 1 k $\Omega$   
(brown black red)

R5 = 390  $\Omega$   
(orange white brown)

R6 = 33 k $\Omega$   
(orange orange orange)

Audio  
Output

8 pin female headers

space for your  
own custom  
projects!

Relay header

Programmable  
Buttons

RCA input  
(interior white)

R1, R2, R9, R10 = 10 k $\Omega$   
(brown black orange)

RCA input  
(interior black)

Bank  
of LEDs

R8= 220 k $\Omega$   
(red red yellow)

Diode  
(note black  
mark on right)

RCA input  
(interior red)

potentiometer

switch between  
raw/envelope  
mode

LED

6 pin female headers

Two 6 pin male  
headers with  
Jumper

R13, R14,  
R15, R16  
= 47 k $\Omega$   
(yellow purple orange)

Make sure all chips face towards RCA inputs (notice circle or half-circle mark in corner of chip)

\*You can change the jumper position to 1, 2, 3, 4, 5, or 6 to select Arduino Analog In 0, 1, 2, 3, 4, or 5 for your EMG signal.