

Physical Computing

Designing Physical Interactions for a Digital World

ARTS 370

Fall 2019

Wednesday 1:40PM – 5:30PM

Klapper 107

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Week 1-9

Week 1: What is Physical Computing?

Week 2: Introduction to Electronics

Week 3: Arduino, Hello World

Week 4: Analog Output

Week 5: Digital and Analog Review

Week 6: Enclosures

Week 7: Serial Communication, Processing and p5.js

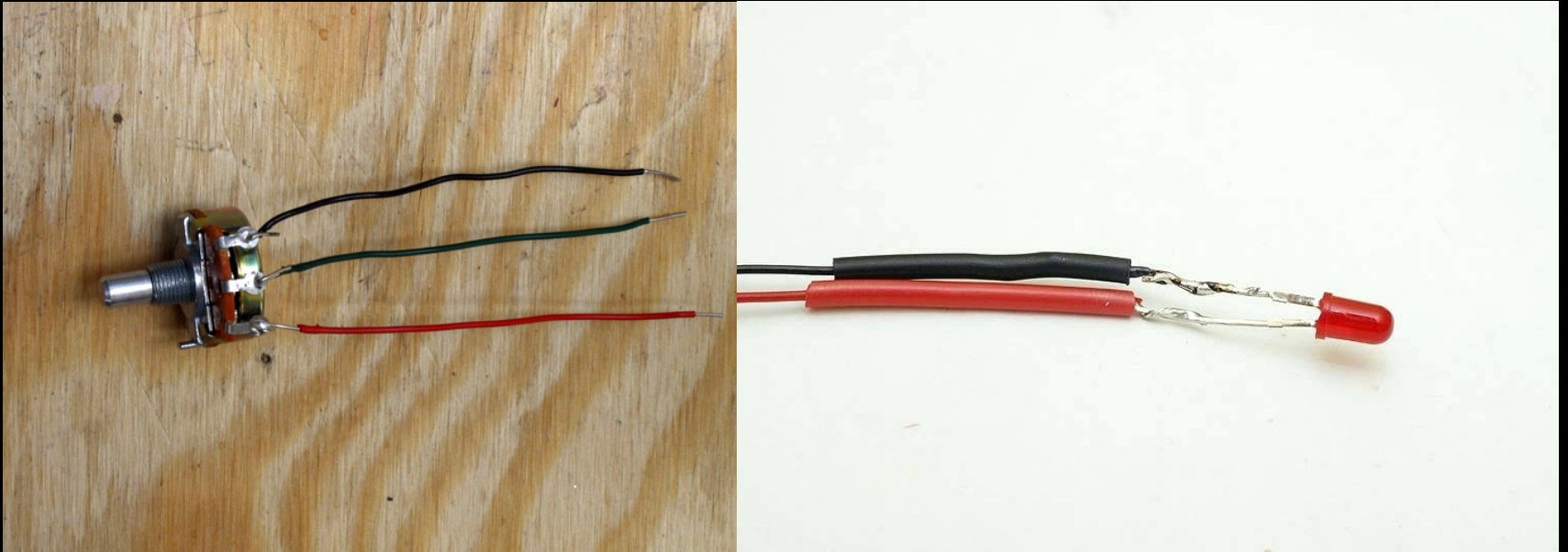
Week 8: Soldering Workshop

Week 9: Midterm Presentation

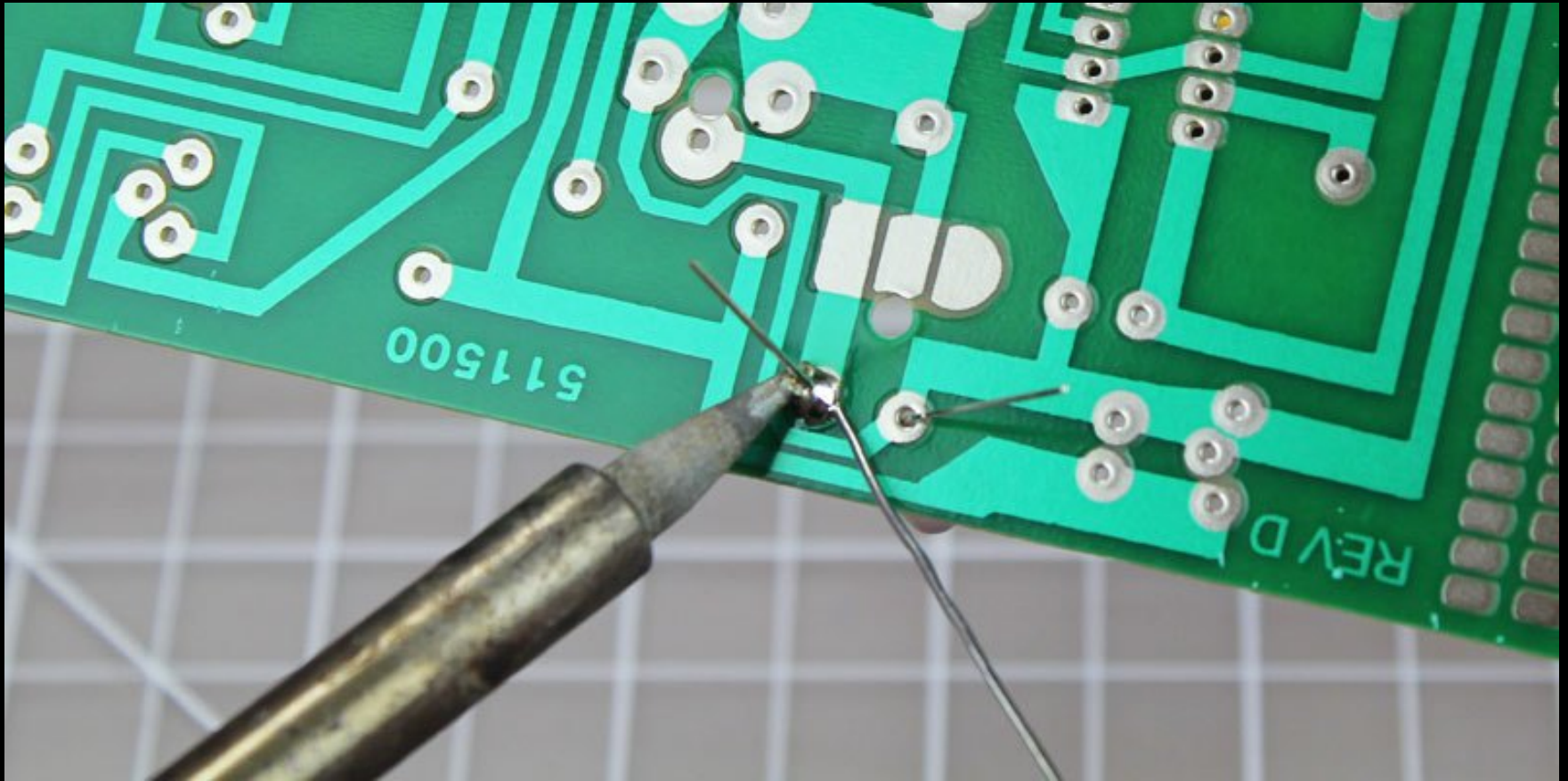
Soldering



Soldering



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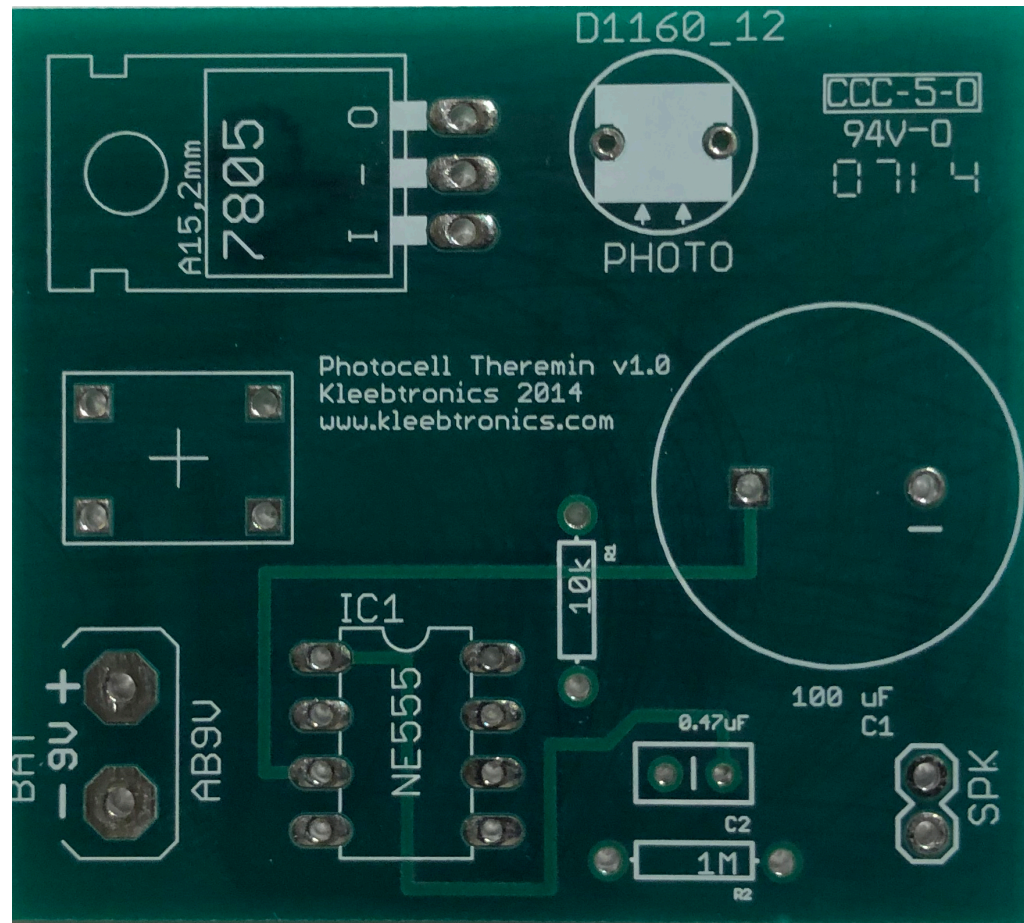
De-soldering



Photocell Theremin



Photocell Theremin



Photocell Theremin



1m resistor



10k resistor



0.47 uF capacitor



Photocell



100 uF capacitor



555 timer and
holder



Momentary
switch



7805 voltage
regulator



9v battery
connector



Speaker

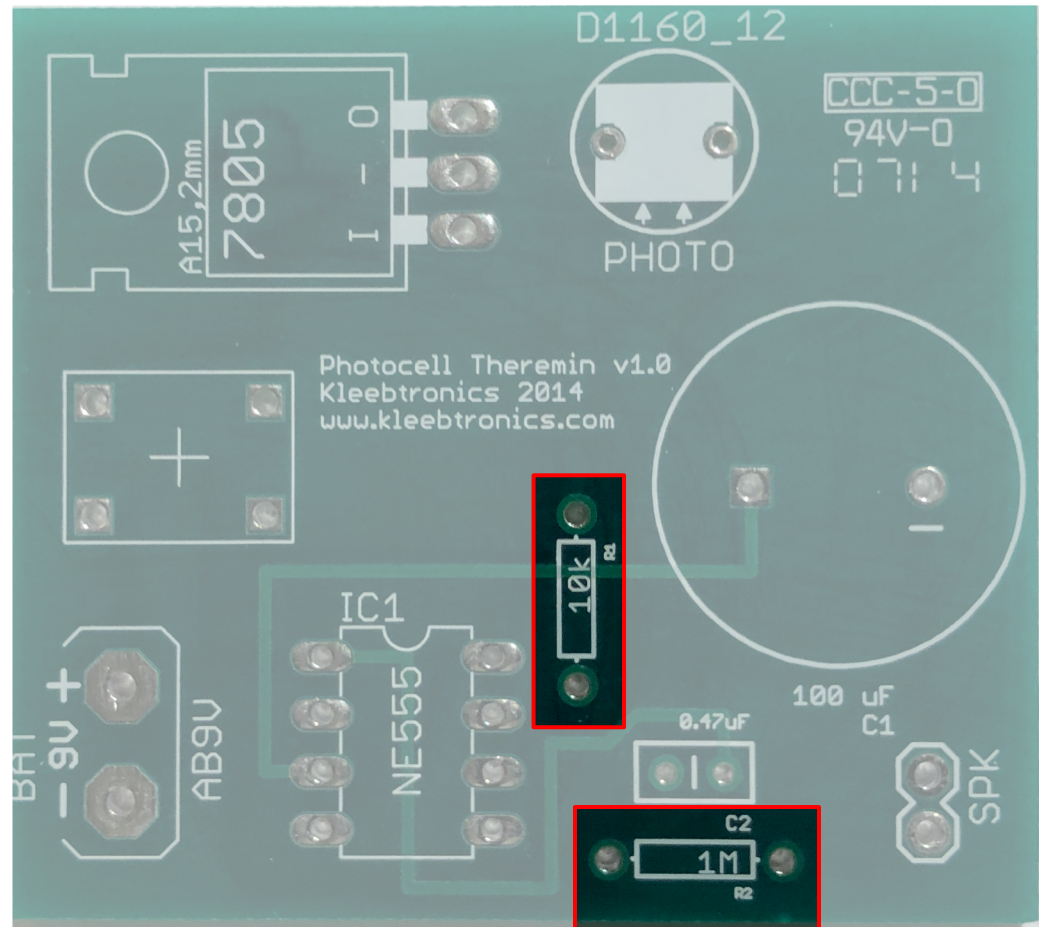
Photocell Theremin



1m resistor



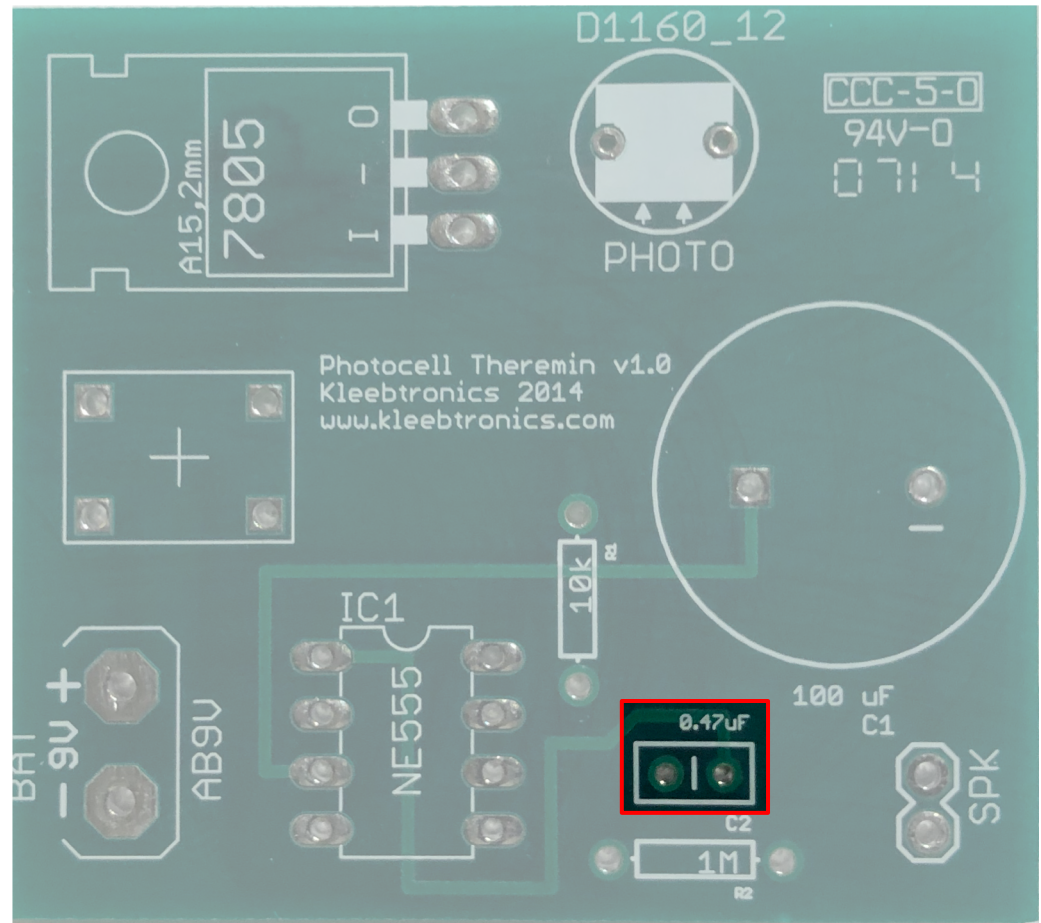
10k resistor



Photocell Theremin



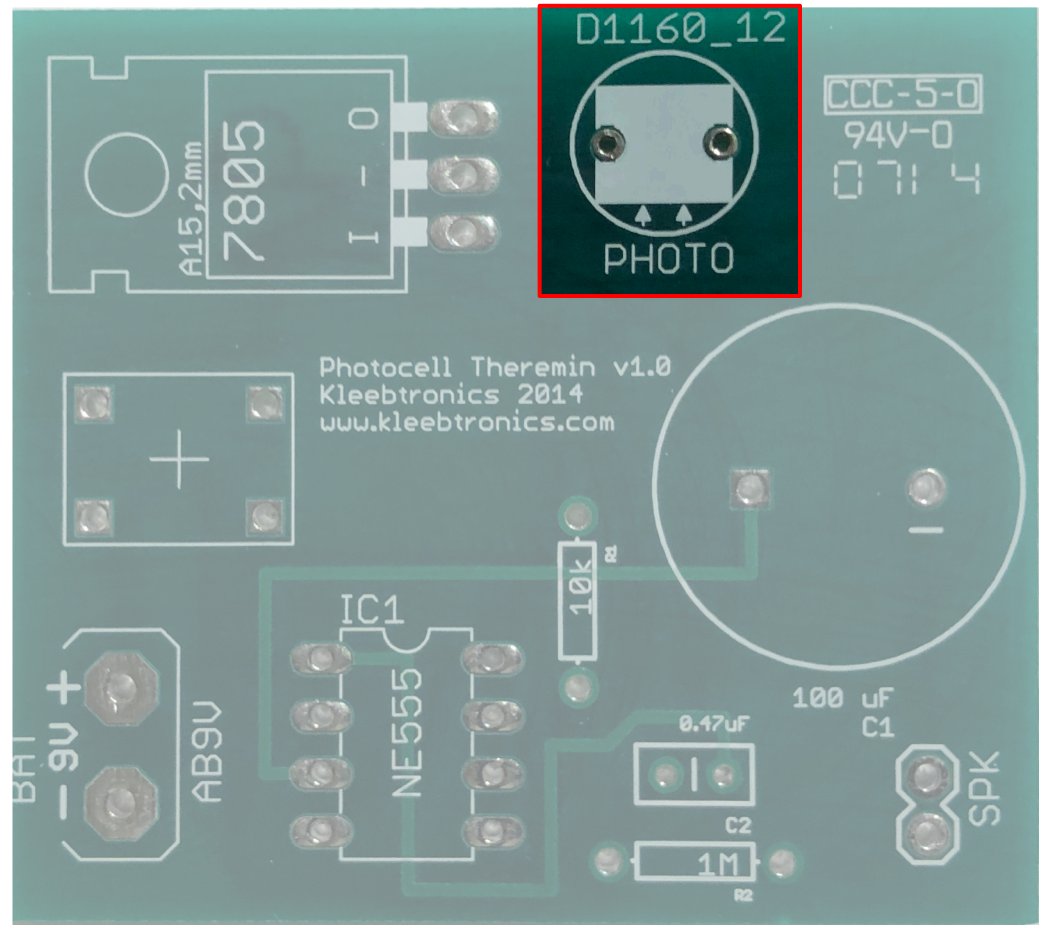
0.47 uF capacitor



Photocell Theremin



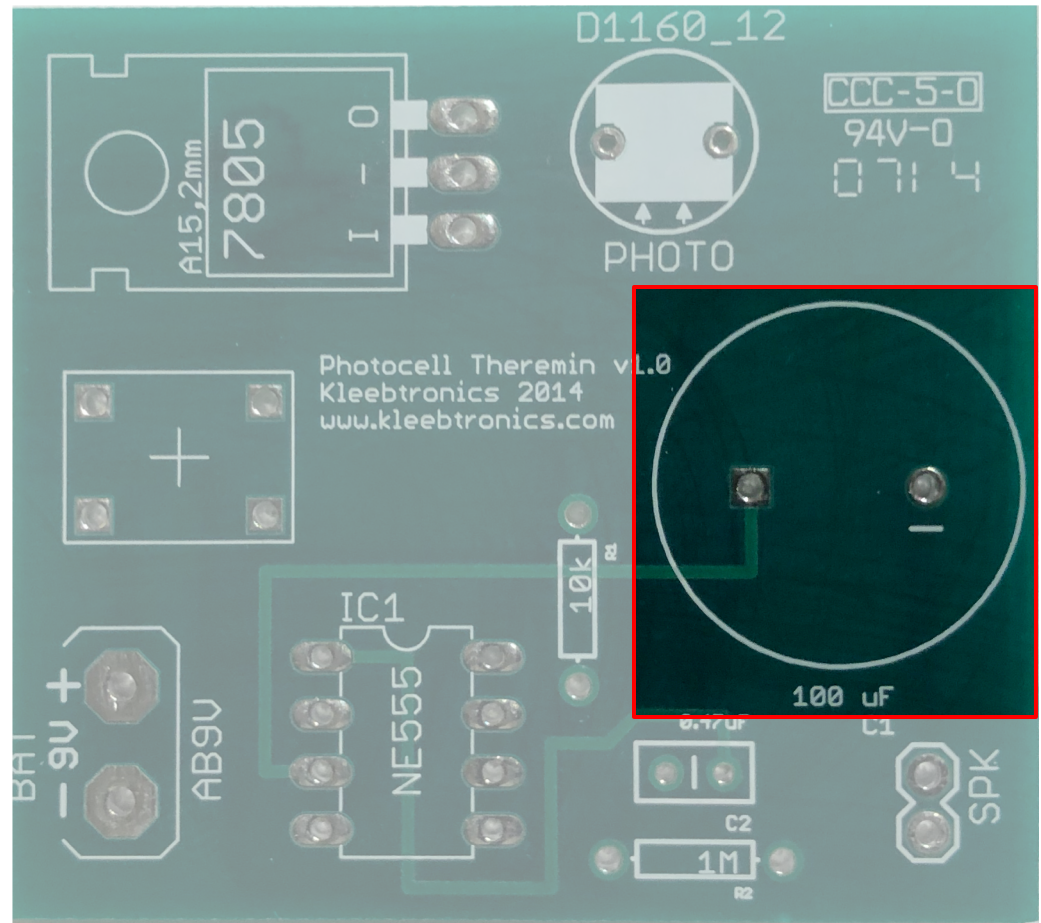
Photocell



Photocell Theremin



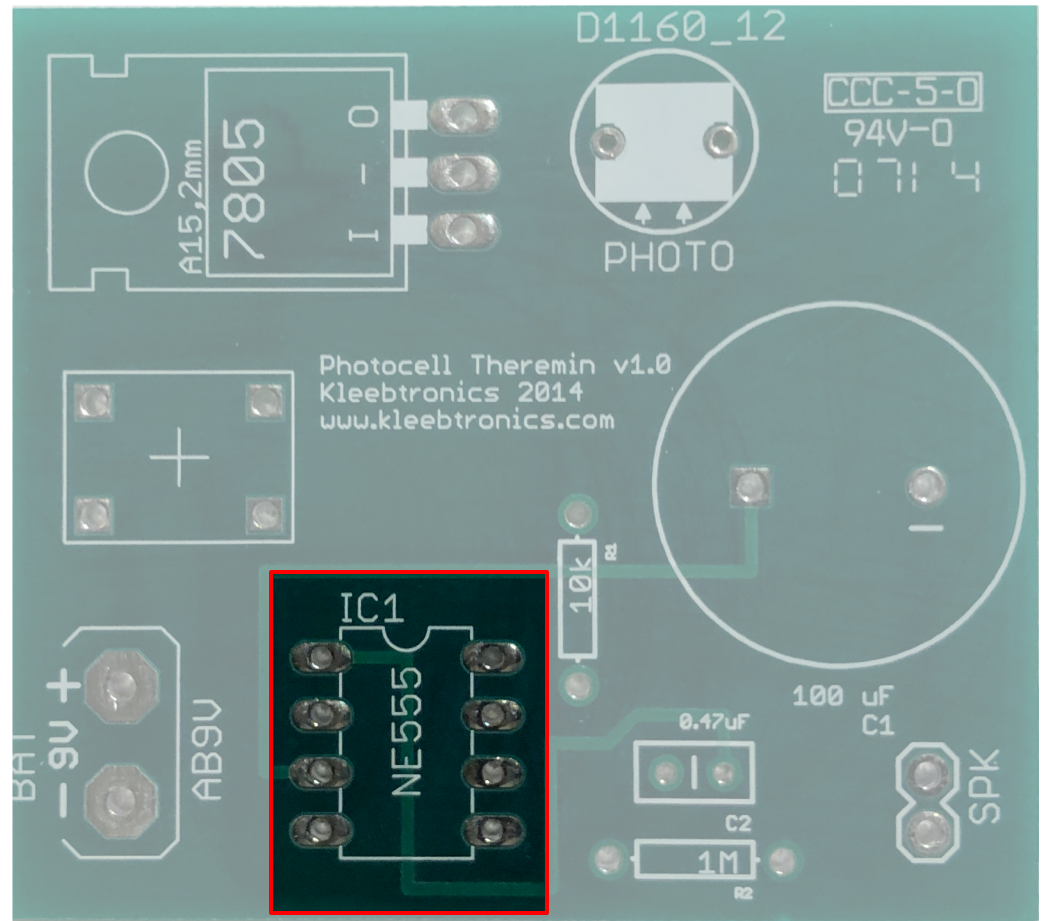
100 μ F capacitor
(Polarity)



Photocell Theremin



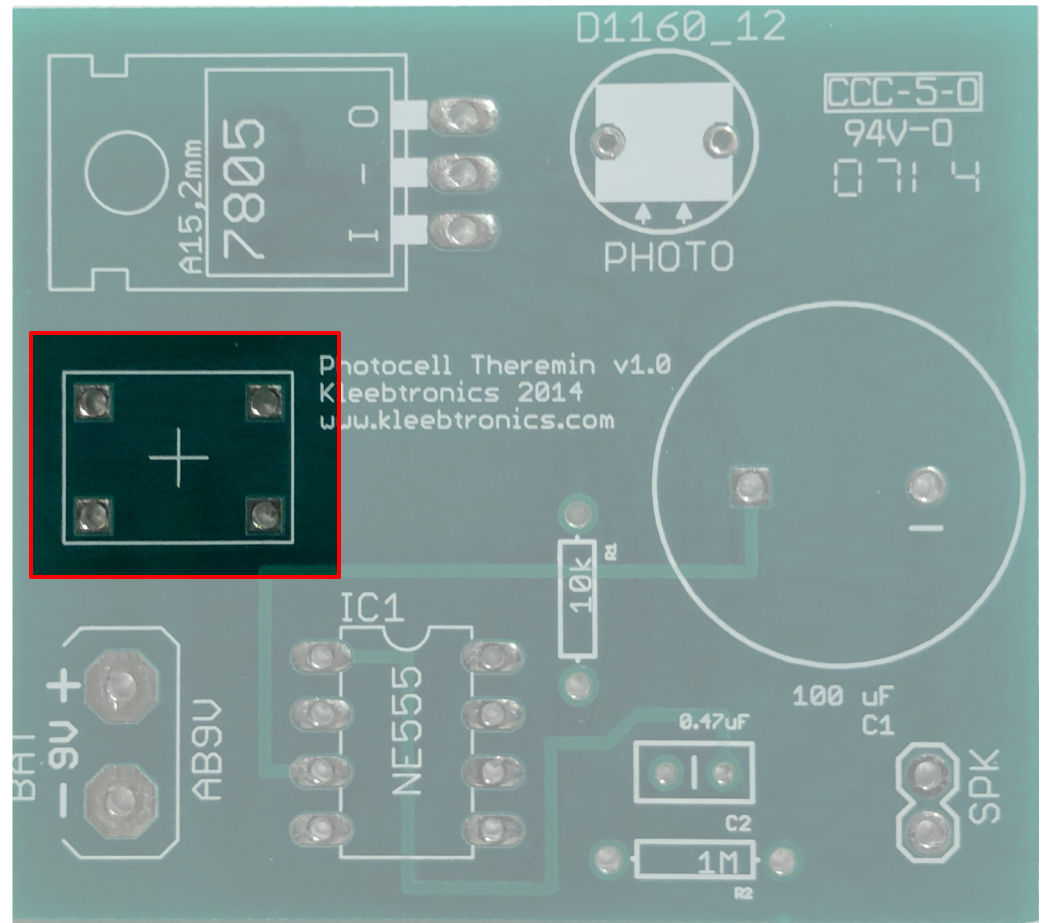
555 timer holder



Photocell Theremin



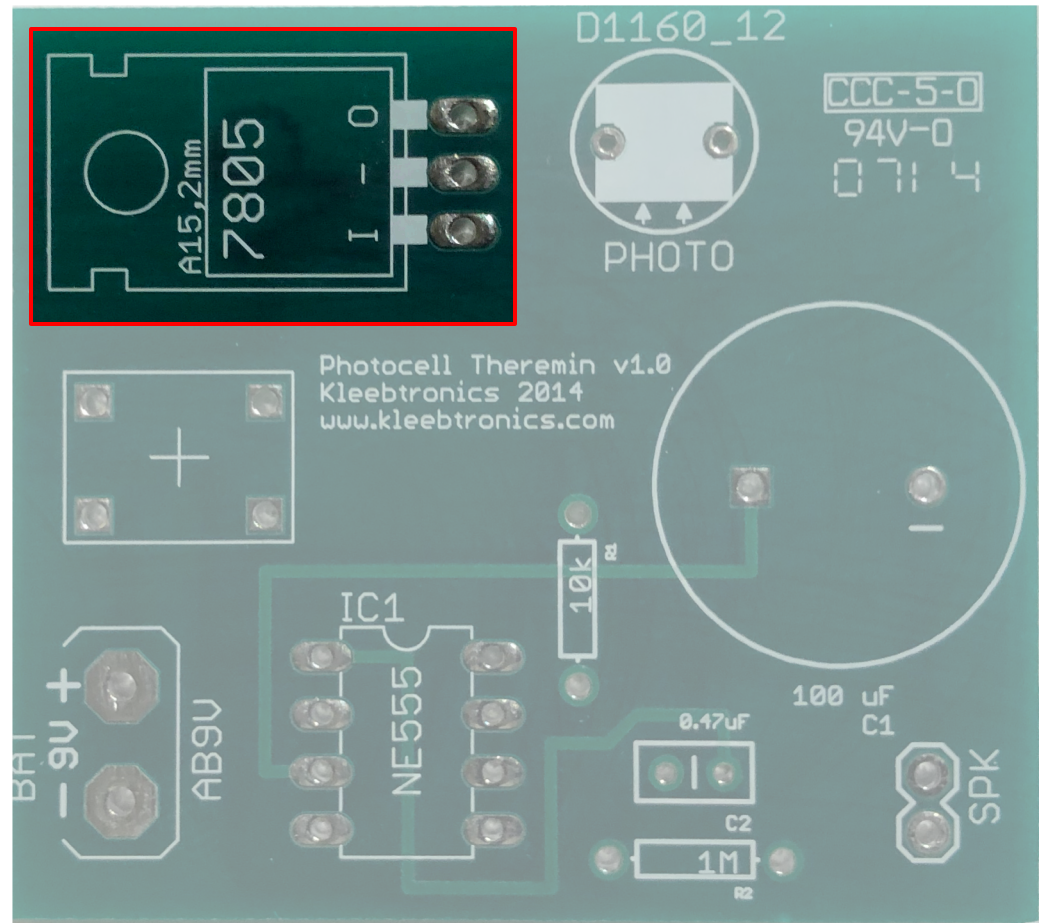
Momentary
switch



Photocell Theremin



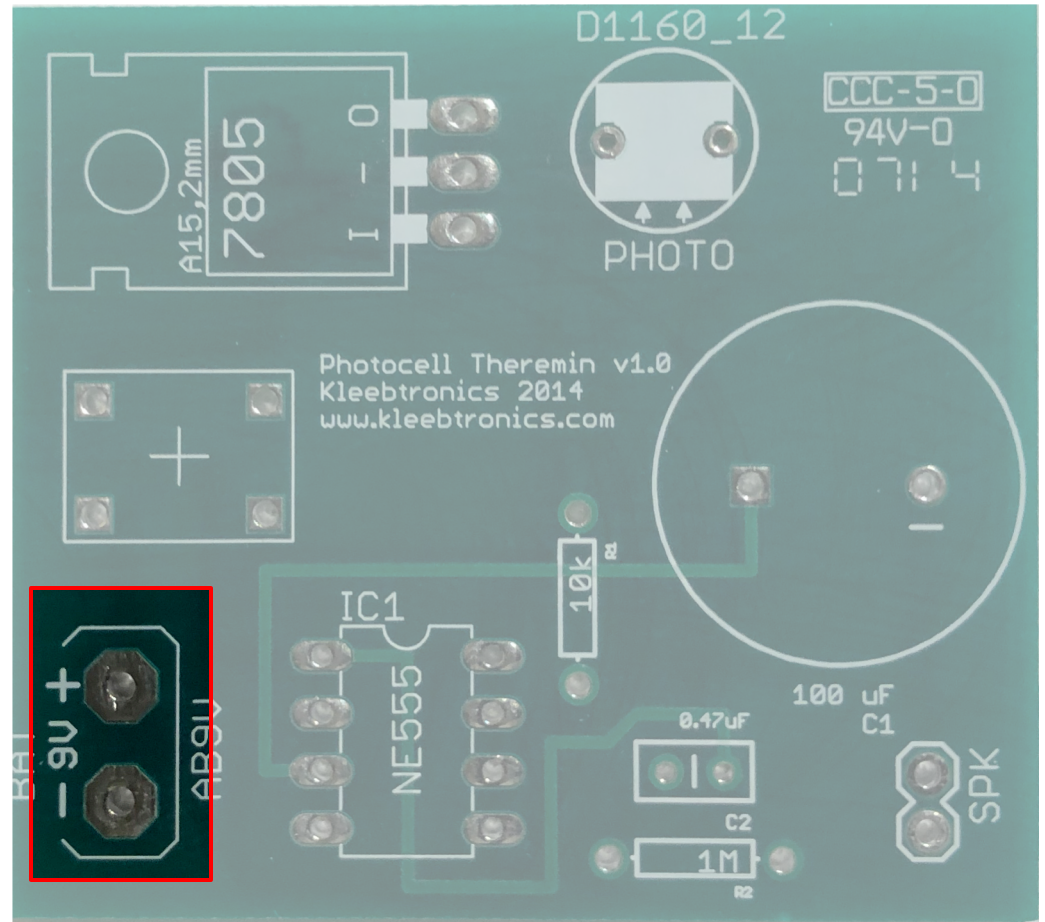
7805 voltage
regulator



Photocell Theremin



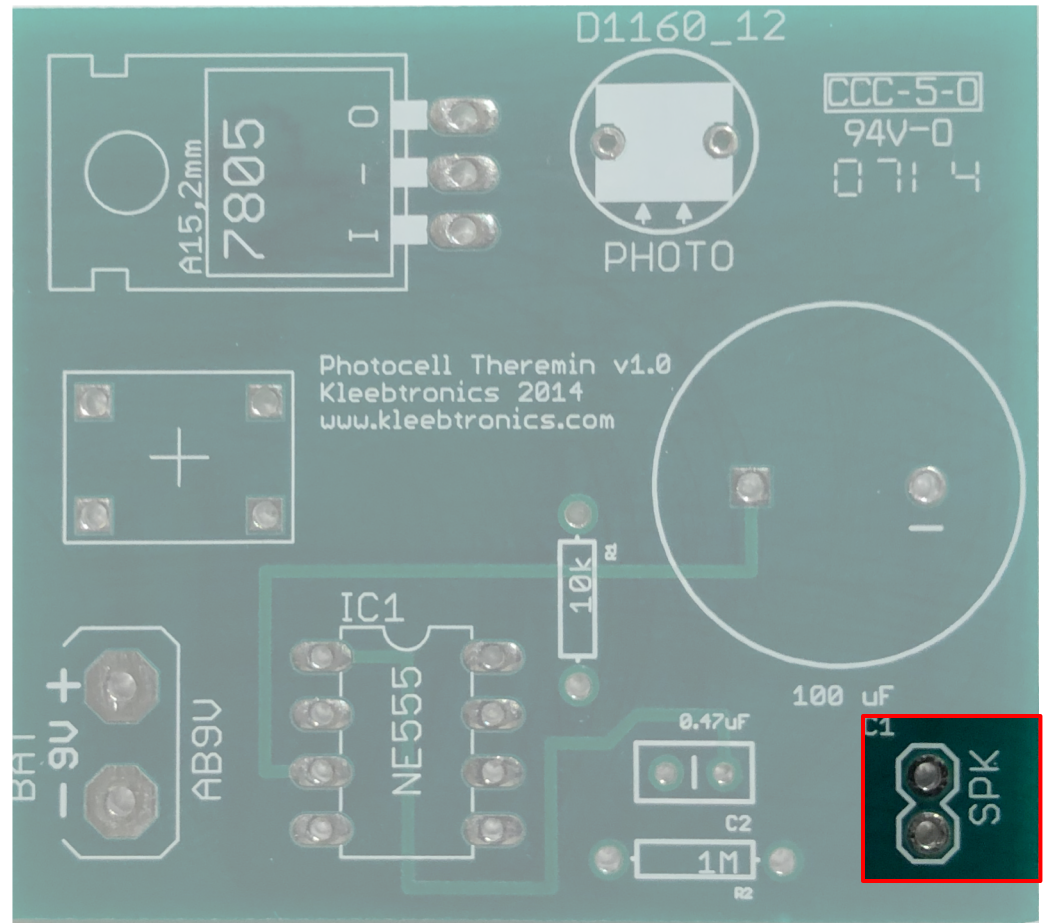
9v battery connector (Solder on the Back)



Photocell Theremin



Speaker



In Class/Homework

Finish up your midterm project idea.

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