**Project Ozone PCB Details**

Clarifications:

* Chip in the corner is an h-bridge, it is NOT the chip that we will actually be using, but the connections are there just to show what lines we will need, just couldn’t find an Altium library file for the one we will be using at this time. Will update later. Part we are using is an L293D (see table in next section).
* 1150 ohm resistor is made with a 1k ohm and 150 ohm in series

Manufacturers and Part Numbers:

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| --- | --- | --- |
| Part | Manufacturer | Part Number |
| All Op Amps | Texas Instruments | TL082 |
| All Capacitors – 100nF | Lee’s Electronics | 844  http://leeselectronic.com/en/product/844.html |
| H-bridge | Texas Instruments | L293D  http://www.ti.com/lit/ds/symlink/l293.pdf |
| 150 ohm resistor | Lee’s Electronics | 9522  http://leeselectronic.com/en/product/9522.html?search\_query=150+ohm+resistor&results=8 |
| 1k ohm resistor | Lee’s Electronics | 91901  <http://leeselectronic.com/en/product/91901.html> |
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Mechanical Details:

Shape: Square

Side length: \_\_\_ mm

Extra requirements:

* Need a hole at the center of diameter 7mm\*\* (to be updated)
* Need 2 holes for mounting screws, diameter tba, location can be anywhere as long as it is within 20mm radius from center
* Would prefer connections to be on underside of PCB, however this is not necessary
* Diagram to come tomorrow