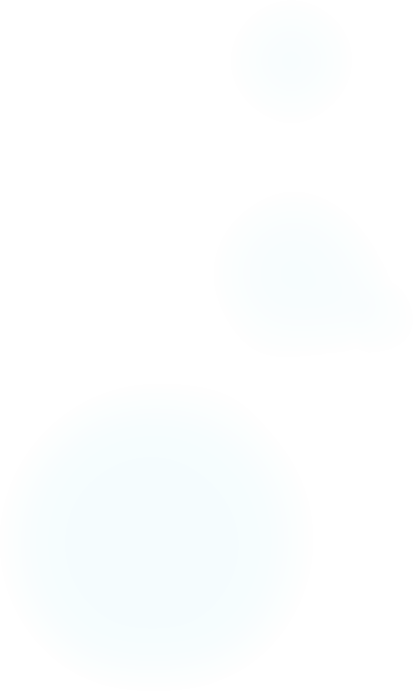
**Maker Guide**

**Hardware & Software**

**Mingle Disco Button**



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# Revision Notes

|  |  |  |  |
| --- | --- | --- | --- |
| **Revision Number** | **Comments** | **Date** | **Author** |
| 1.0 | Doc Created | 11/03/15 | Kris Gibbs |
|  |  |  |  |
|  |  |  |  |

# Circuit Board

The circuit board files was designed using Eagle Cad free version. You can use the .brd file in the GitHub repository or you can create your own. Either way the manufacturing procedure is the same.

## LID Tools Used

### LPKF Circuit Board Router

To route the board you will need 4 files from the GitHub repository.

* HexBoard.toplayer.ger
* HexBoard.bottomlayer.ger
* HexBoard.drills.xln
* HexBoard.boardoutline.ger

Put these on a thumb drive and put them into the computer that the LPKF is attached to.

Open up a browser and look up the LPKF SOP located here:

<https://github.com/psu-epl/psu-epl.github.com/wiki/Sop>

Follow the instructions carefully and choose the job type:

double\_sided\_GalvonicTHP

I suggest making several copies

<<<<<Put instructiuons for this here>>>>

### LPKF Plating Tank

### Laser Cutter

### Reflow Oven

# Enclosure

## LID Tools Used

### 3-D Printer

### Laser Cutter

# Software

# Testing