

Micro Sized Lipo Battery Charger



Features

- Compact USB input with high quality gold plated pins for durability and reduce oxidation on the pins.
- Two status LEDs, charging and charge complete.
- Battery connector optional. Can select between 2 or 3 pin JST connector.
- Used for 3.7V Li-Ion or Li-Po battery with an end charge of 4.2V. May damage battery if not compatible.
- Input voltage of 3.75V-6V.
- Selectable charge current with a solderable jumper. 100mA open or 500mA closed.
- The micro sized USB lipo charger is designed and full assembled in Australia and made of quality PCB and parts.
- Figure below shows the PCB layout including the pins that are positive and negative on the battery connector

Description

The charger is as simple as plugging the battery into the JST connector and a USB port (500mA or greater capable charger). It is designed as small as possible which is capable of either charging the battery at 500mA or 100mA. This is selectable by the solderable jumper on the bottom side of the PCB.

On board the lipo battery charger is two LEDs to indicate the status of the charging. When the red LED is on the battery is being charged. Once it has completed charging, the yellow LED will turn on. In some cases both LEDs will turn on, this indicates either a battery is not connected or the input voltage or current to the USB is too low.

The charger has three stages of charging: preconditioning charge, then a constant current fast charge and finally a constant current trickle charge to keep the battery charged. It has a reverse current flow protection of 2uA, so the battery will not go flat if still connected to the charger.

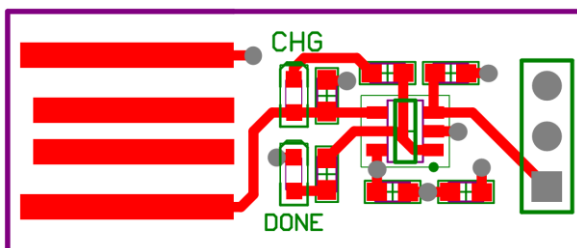


Figure 1-Top Side PCB

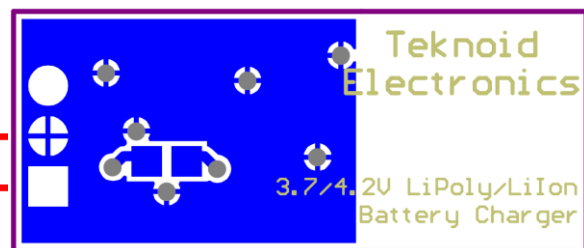


Figure 2-Bottom Side PCB