

Battery Swap Connector

The schematic diagram illustrates a Battery Swap Connector circuit. It features three connectors: J1 (436500400), J2 (436500400), and J3 (436500600). J1 and J2 are connected to a common ground. J3 is connected to a hub. The hub is connected to a battery (batt) through a resistor R3 (Res3, 0603). The battery is connected to the VIN pin of the LTC4412ES6#TRPBF (U1) through a diode D2. The GND pin of U1 is connected to ground. The CTL pin of U1 is connected to ground through a capacitor C2 (1uF). The SENSE pin of U1 is connected to the hub through a resistor R2 (Res3, 0603). The GATE pin of U1 is connected to the gate of MOSFET Q1 (AOD407). The STAT pin of U1 is connected to the gate of MOSFET Q2 (AOD407). The drain of Q1 is connected to the hub. The drain of Q2 is connected to the vout pin. The source of Q1 is connected to the stat pin. The source of Q2 is connected to the vout pin. A resistor R1 (Res3, 470k) is connected between the stat pin and the vout pin. A capacitor C1 (22uF) is connected between the vout pin and ground.

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