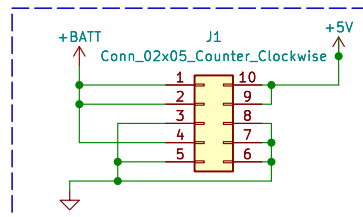
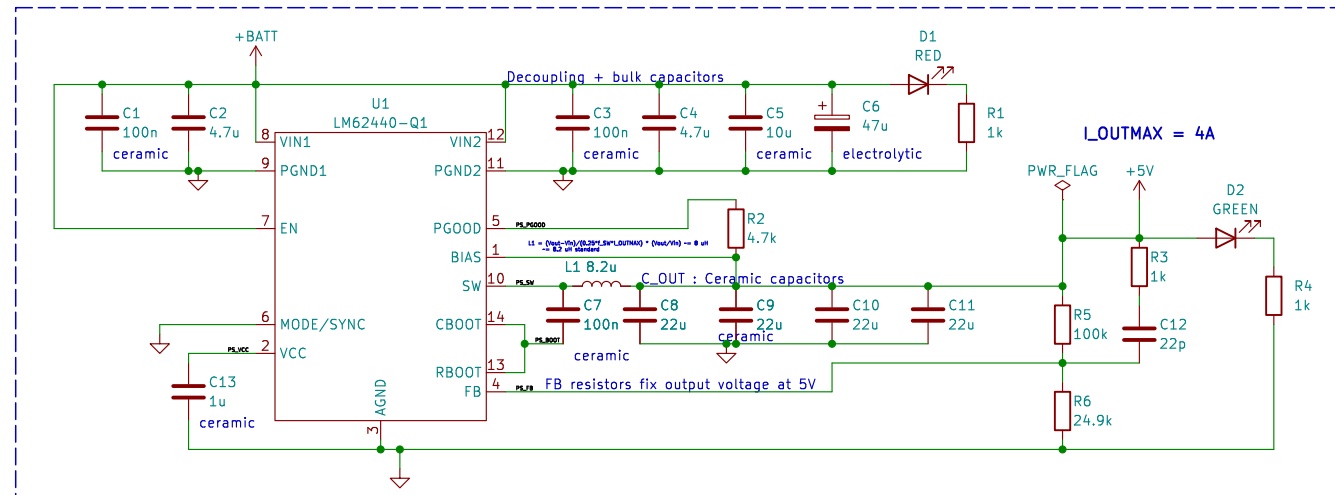


**DC Power Connector  
(typically 14.4V)**

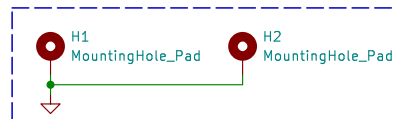


**2x5 Pin Female Connector**



**Power Supply – 12–16.8V to 5V Step–Down Voltage Regulator**

L1 : Mouser SRP8540A–8R2M  
 C1, C3, C7 : Mouser UMK105B7104MV–FR  
 C2, C4 : Mouser GRM21BZ71H475ME15L  
 C5 : Mouser CL31B106KBHNNNE  
 C6 : Mouser 865080543009  
 C8–...–C11 : Digikey CL32B226MOJVPNE  
 C12 : Mouser UMK105UJ220JV–F  
 C13 : Mouser C0603C105K4PAC7411  
 R1, R3, R4: Mouser CRCW04021K00FKEE  
 R2 : Mouser CR0402AJW–472GAS  
 R5 : Mouser CR0402–JW–104GLF  
 R6 : Mouser RC0402FR–0724K9L  
 J1 : Digikey SBH11–PBPC–D05–ST–BK  
 J2 : Mouser PJ–082BH  
 D1 : Mouser 150060RS75000  
 D2 : Mouser 150060VS75000



**Mounting Holes**

Author: Ilyas Asmouki  
 V2.0 : – Power Supply Circuit gets its own PCB  
 V1.2 : – Added input electrolytic capacitor  
 – Added References for each part

**EPFL Xplore**

Sheet: /  
 File: Power Supply.kicad\_sch

**Title: Power Supply – 5–36V to 5V Step–Down Voltage Regulator**

Size: A4 Date: 2024–03–26

KiCad E.D.A. kicad 7.0.9

Rev: 2.0

Id: 1/1

