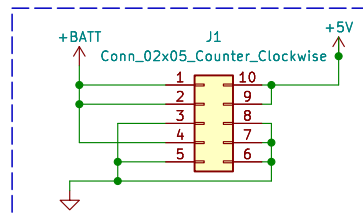
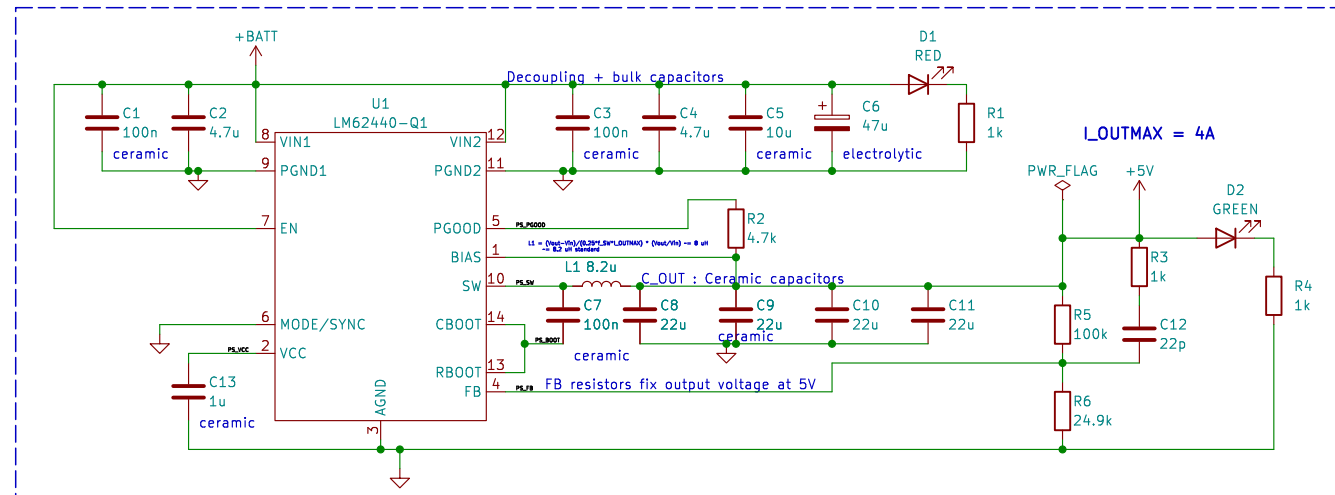


**DC Power Connector
(typically 14.4V)**

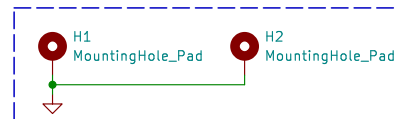


2x5 Pin Female Connector

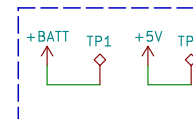


Power Supply – 12–16.8V to 5V Step–Down Voltage Regulator

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



Test Points

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
 KiCad E.D.A. kicad 7.0.9



Date: 2024–03–26
 Rev: 2.0
 Id: 1/1