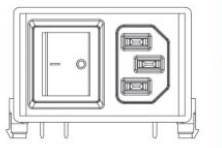


Power Supply PCB

AC In
120VAC



KP01.1112.11

AC/DC Converter
IRM-60-24

+24V

Linear Voltage
Regulator
LT3086EFE#TRPBF

+5.0V

+5.0V

IC MCU 8BIT 14KB
FLASH (ADC)
PIC16F876A-I/SO



Vout = 0.5-24V @ 2A

LOAD

Pot Voltage Control

Pot Current Control

Set Current Limit Switch SPDT MOM

+24V

DC DC Converter
3.3 V @1A
R-78E3.3-1.0

+3.3V

+24V

DC DC Converter
5.0 V @2A
R-78B5.0-2.0

+5.0V

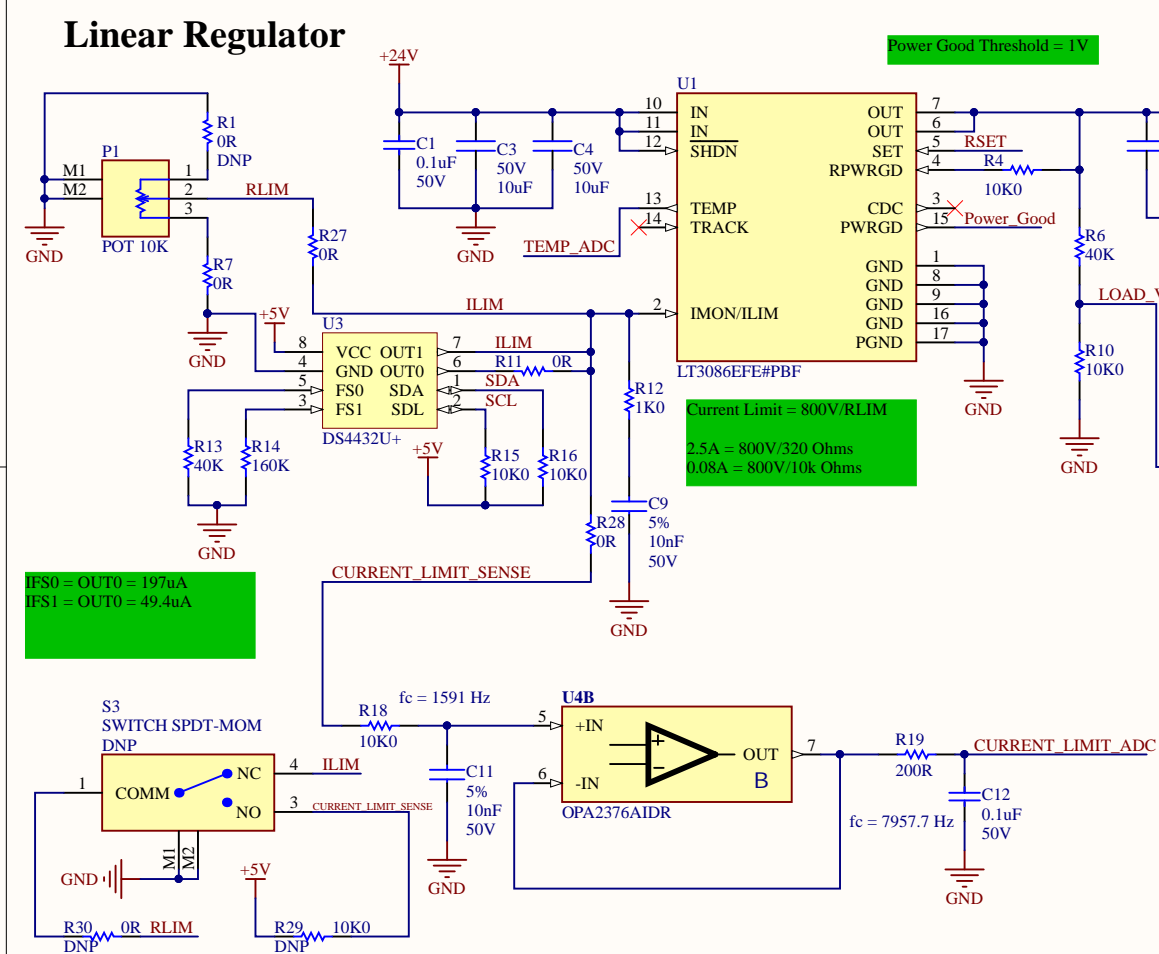
+5.0V

USB A

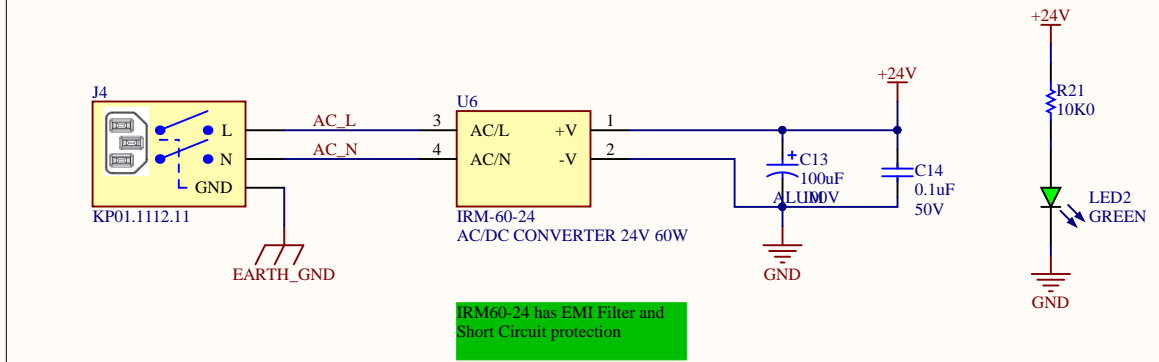
+5.0V

USB A

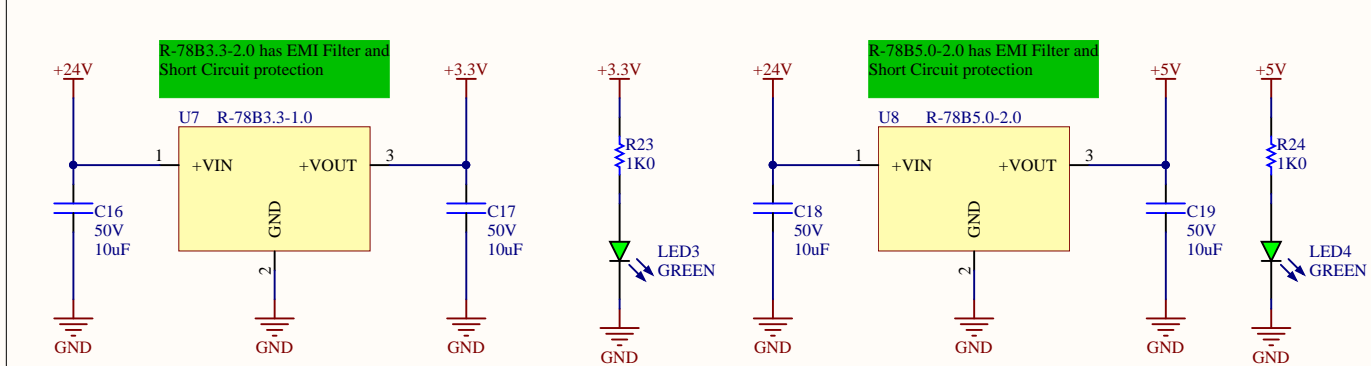
Linear Regulator



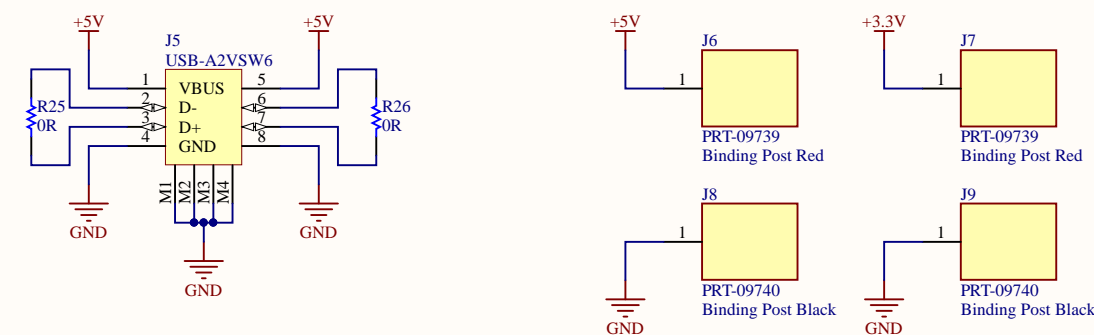
AC/DC Converter



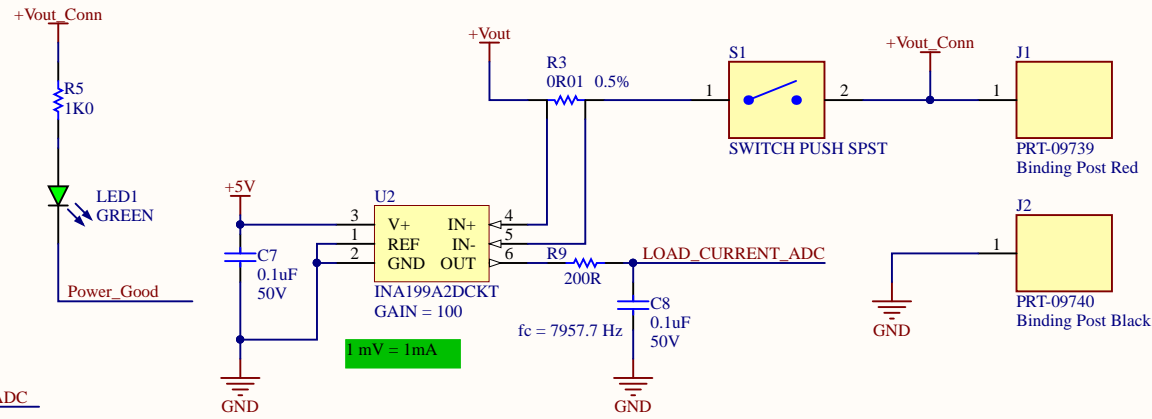
5V and 3.3V Power Supply



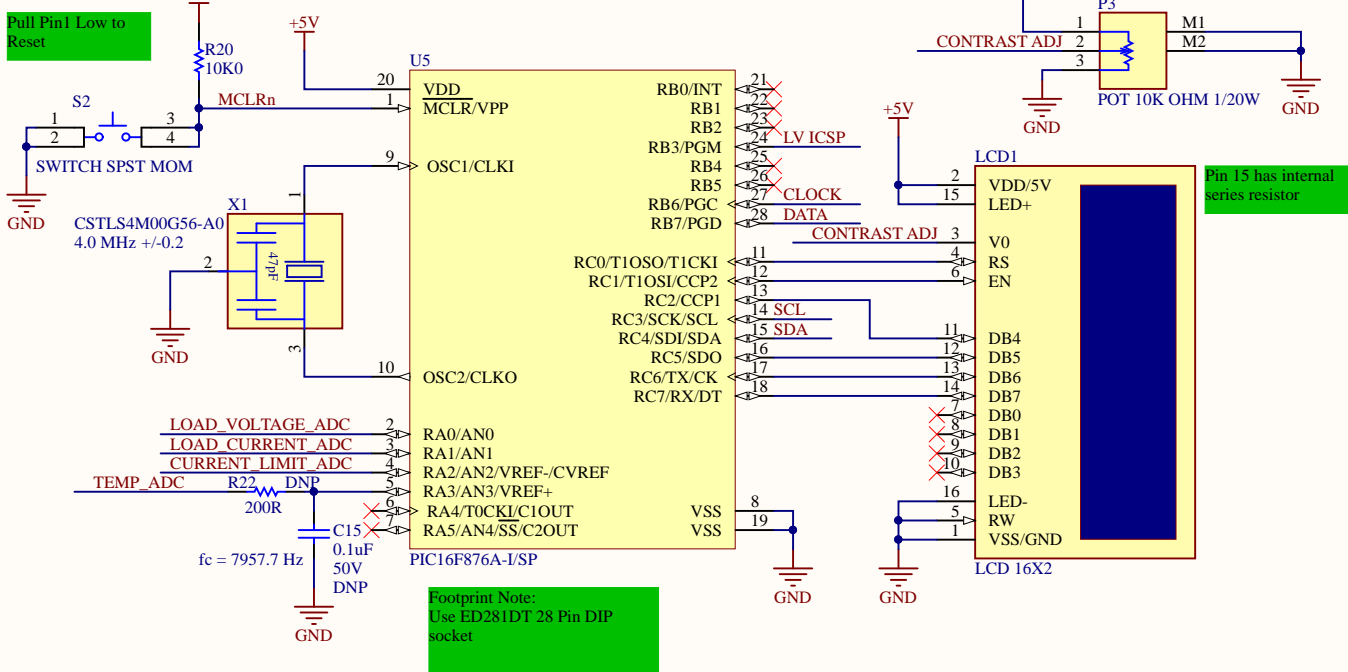
USB Standard = Short D+ and D- for Wall Wart charging



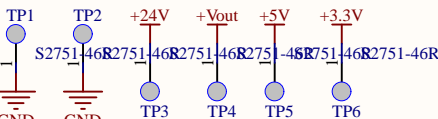
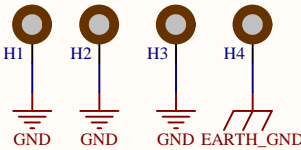
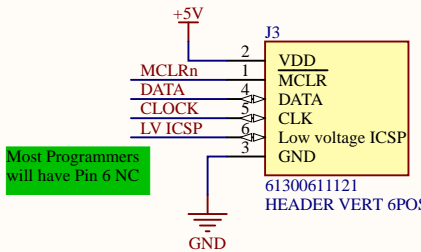
Power Supply



Load Voltage and Current Display



PIC Programmer ICSP



Copyright 2019

Project:	Power Supply PCB
Title:	Power Supply
By:	Dhruvil Parikh
Size:	T Rev: 1
Date:	1-July-2019
File:	Power_Supply.SchDoc