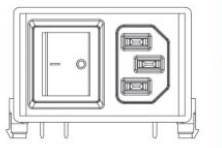


Power Supply PCB

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



RGB 16x2 Display
Multicolor LCD

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

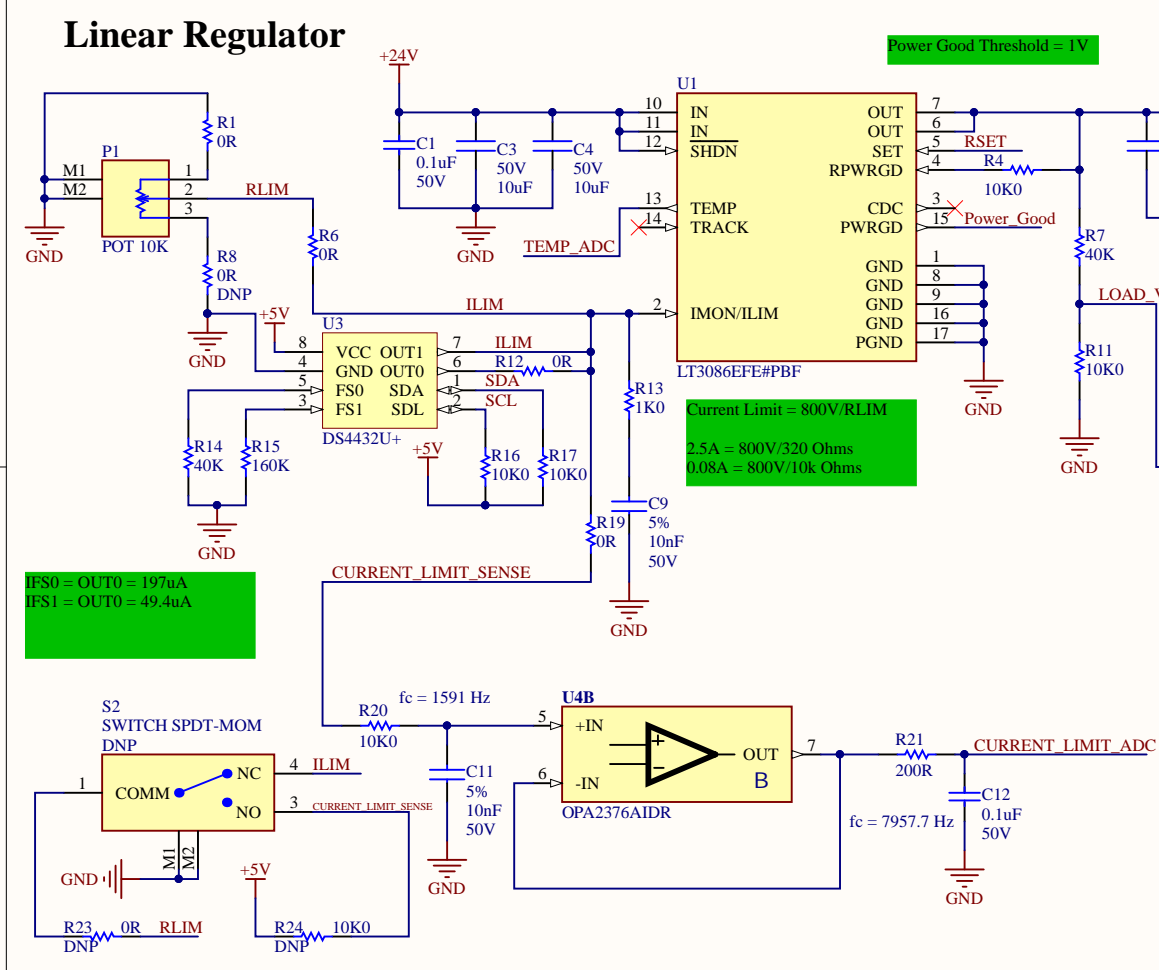
+5.0V

USB A

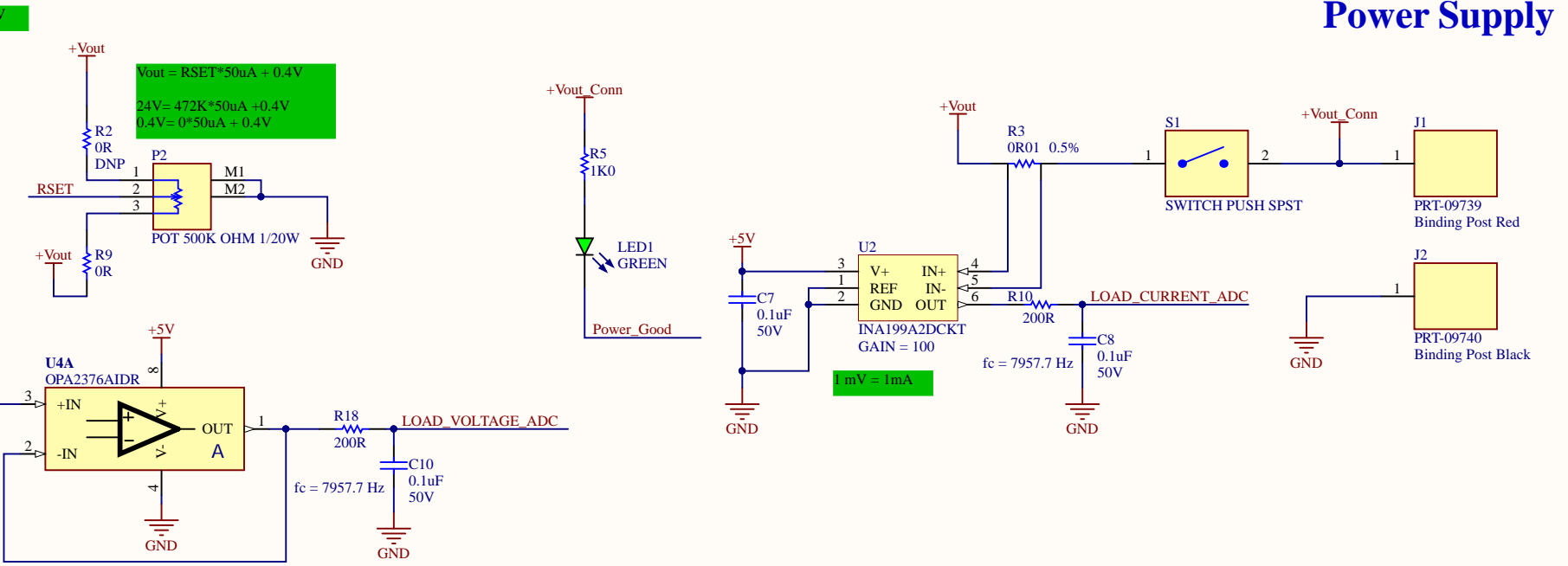
+5.0V

USB A

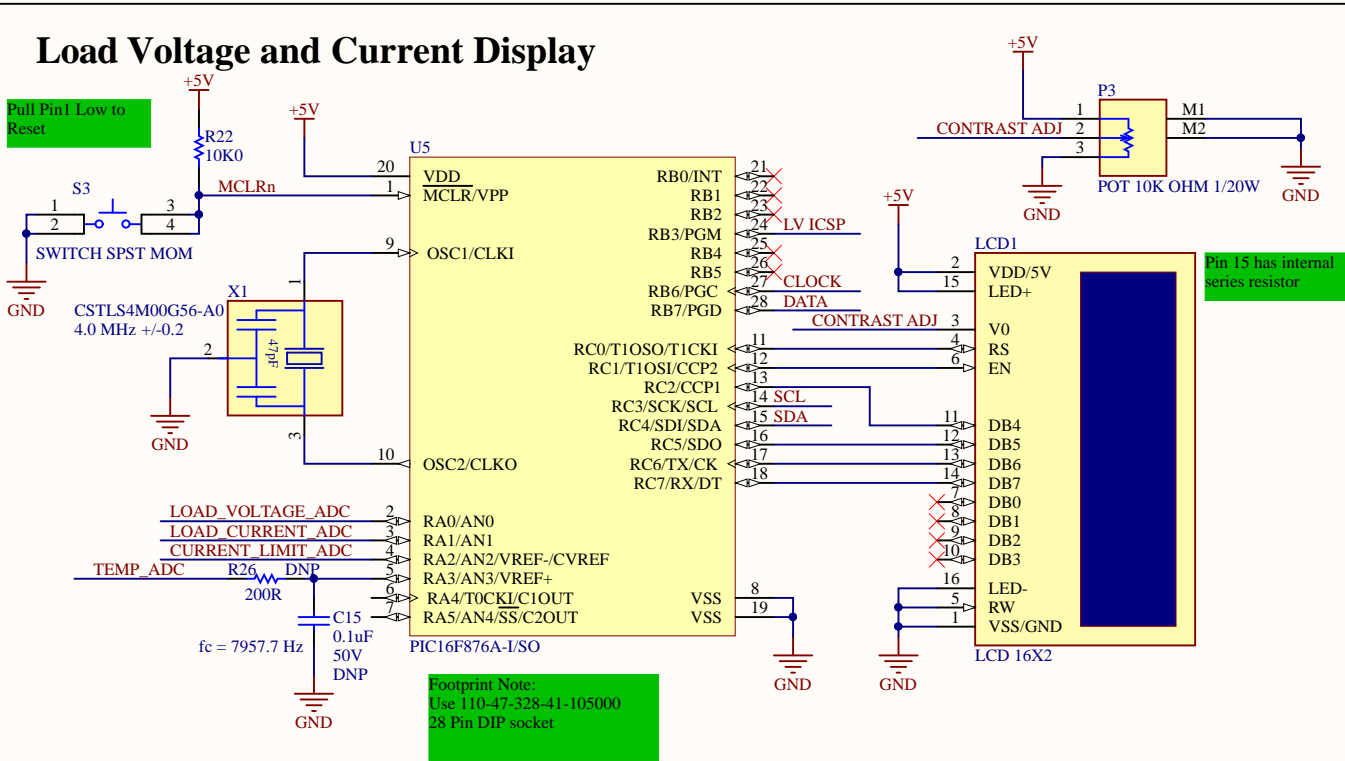
Linear Regulator



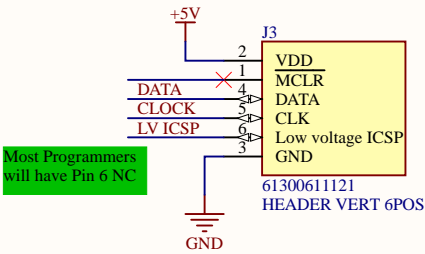
Power Supply



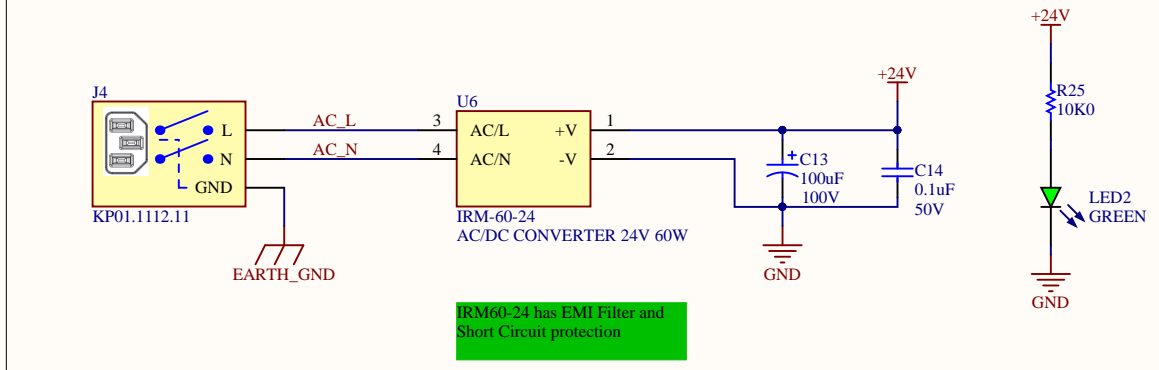
Load Voltage and Current Display



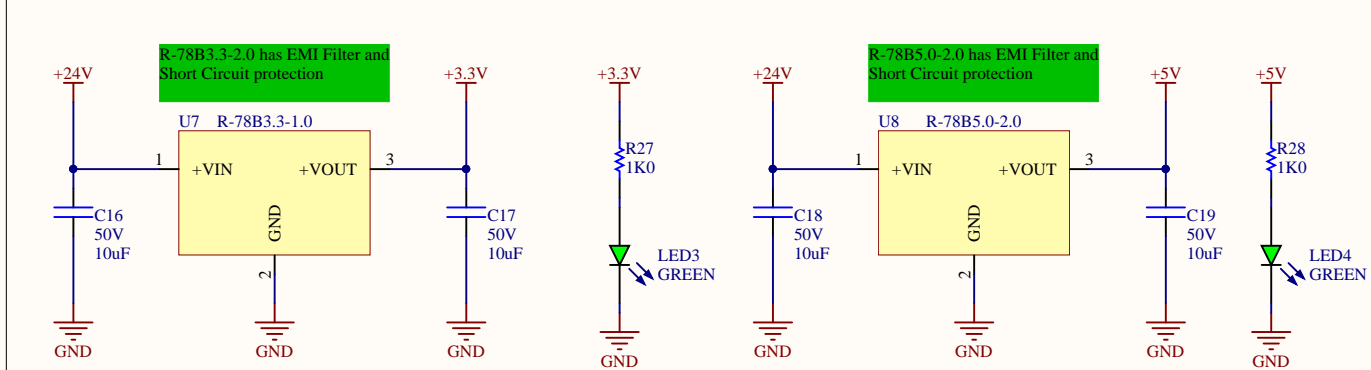
PIC Programmer ICSP



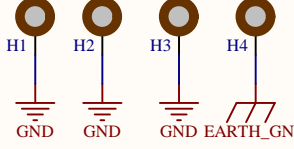
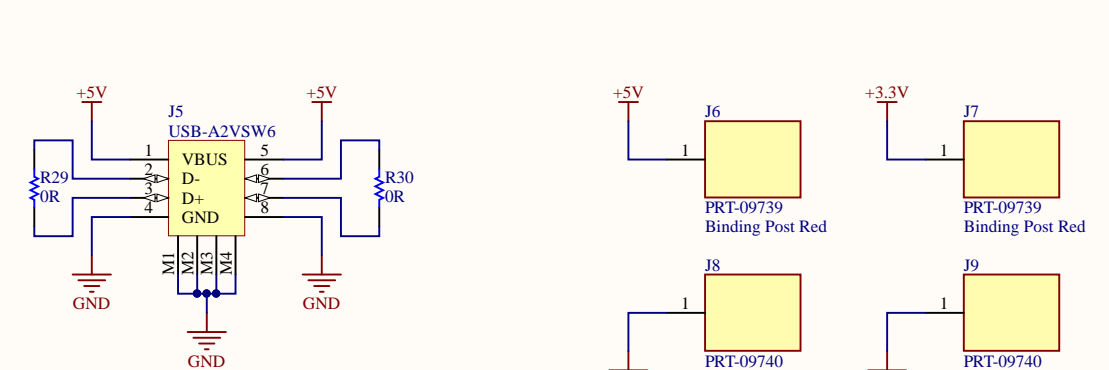
AC/DC Converter



5V and 3.3V Power Supply



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



TP1 TP2 +24V +Vout +5V +3.3V TP3 TP4 TP5 TP6

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| | |
|----------|---------------------|
| Project: | Power Supply PCB |
| Title: | Power Supply |
| By: | Dhruvil Parikh |
| Size: | T Rev: 1 |
| Date: | 10-Aug-2019 |
| File: | Power_Supply.SchDoc |

Sheet 3 of 3