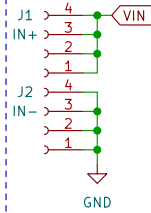


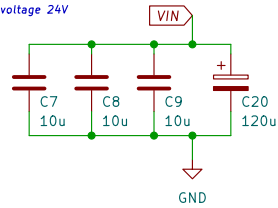
INPUT

INPUT CONNECTOR



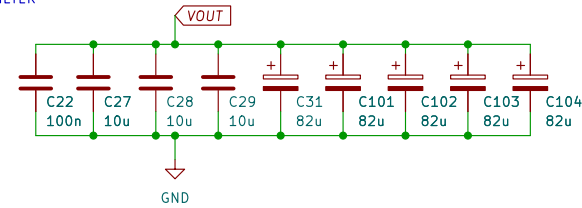
INPUT FILTER

populate near active components, max. voltage 24V

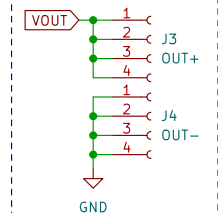


OUTPUT

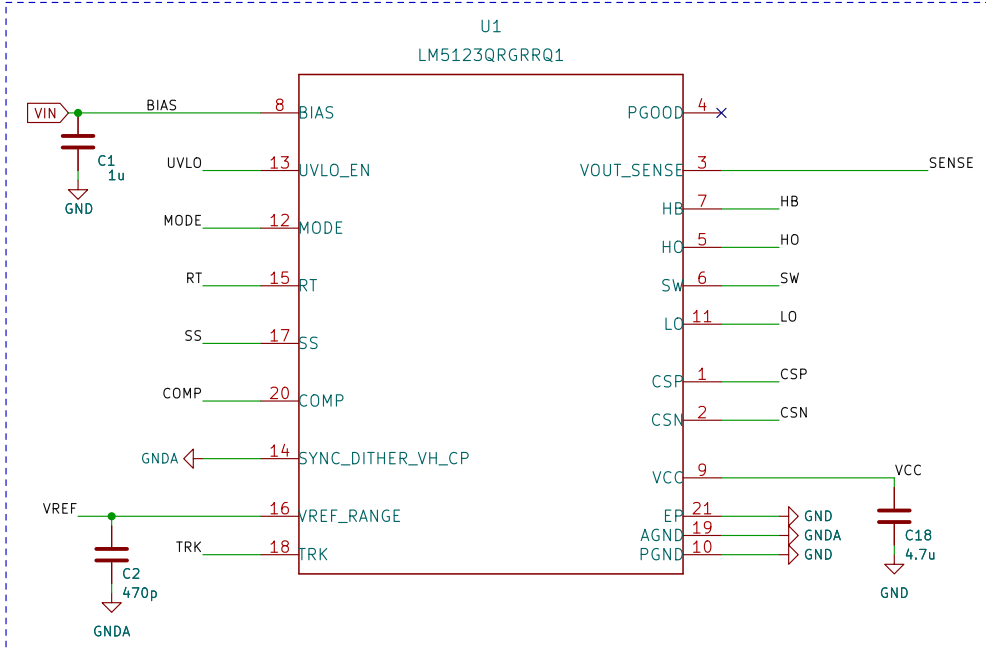
OUTPUT FILTER



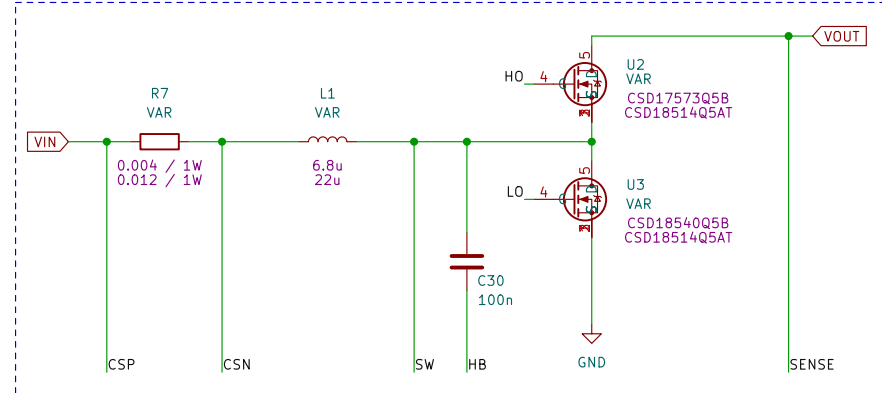
OUTPUT CONNECTOR



TI LM5123 CONTROLLER IC



HIGH POWER LINE



CHANGELOG

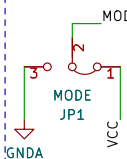
- rev1.2
 - VCC gets disconnected from BIAS for proper operation
 - resistor values for divider got changed
 - added more silkscreen help
- rev 1.4
 - harmonization with WEBENCH
 - layout guideline implementation

SETUP & CONFIGURATION

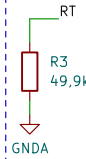
UNDER-VOLTAGE LOCKOUT DISABLED



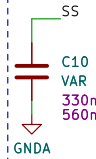
LIGHT LOAD MODE DE mode selected cut to select SKIP



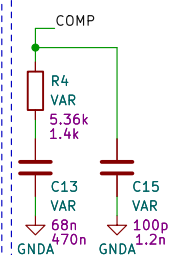
FREQ 440kHz conf.



SOFT STRT copied TI EVM

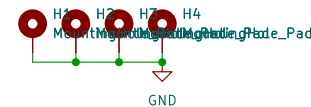
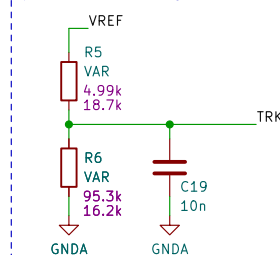


COMPENSATION



OUTPUT VOLTAGE SETUP

special silk-screen for range notation



This assembly creates a configurable 19V/28V rail from 10V-18V battery or other source.

Design engineer: Edvi Gábor

Review: Tomka Benedek

Elinga Kft.

Sheet: /

File: power-module-boost.kicad_sch

Title: project6 PSU boost module

Size: A4 Date: 2023-03-06

KiCad E.D.A. kicad (6.0.11)

Rev: rev1.4

Id: 1/1