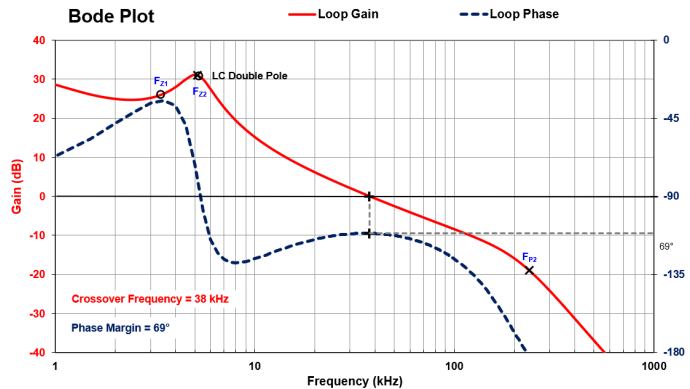
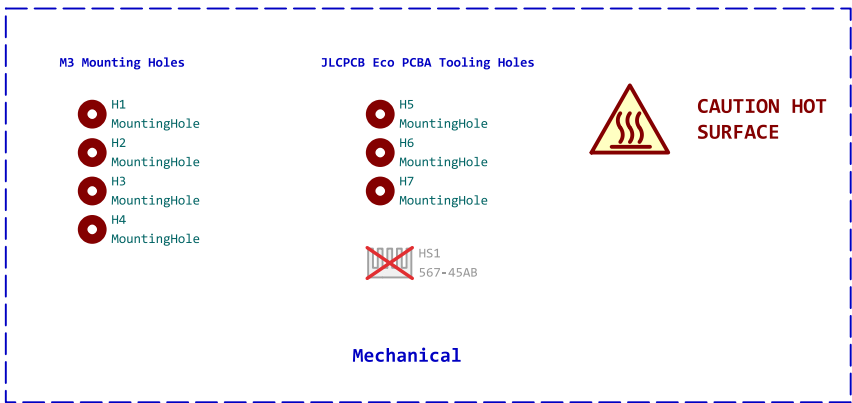
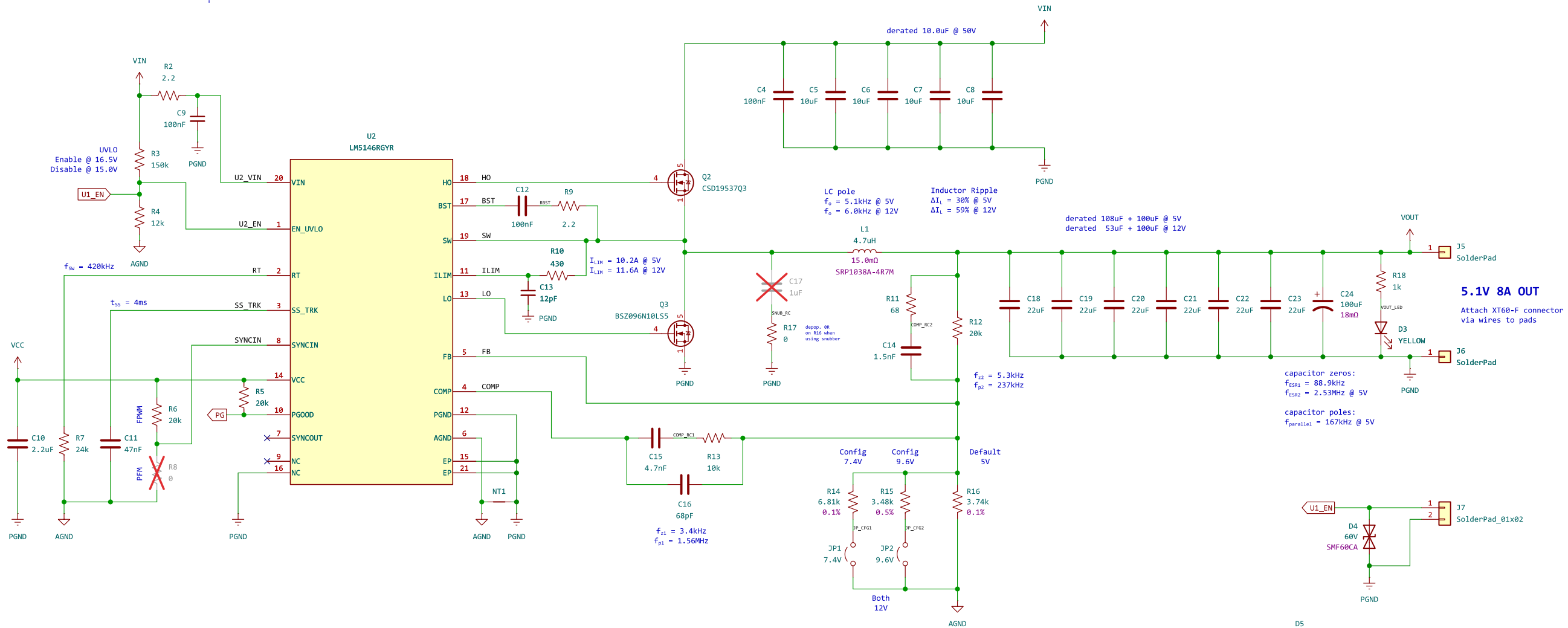
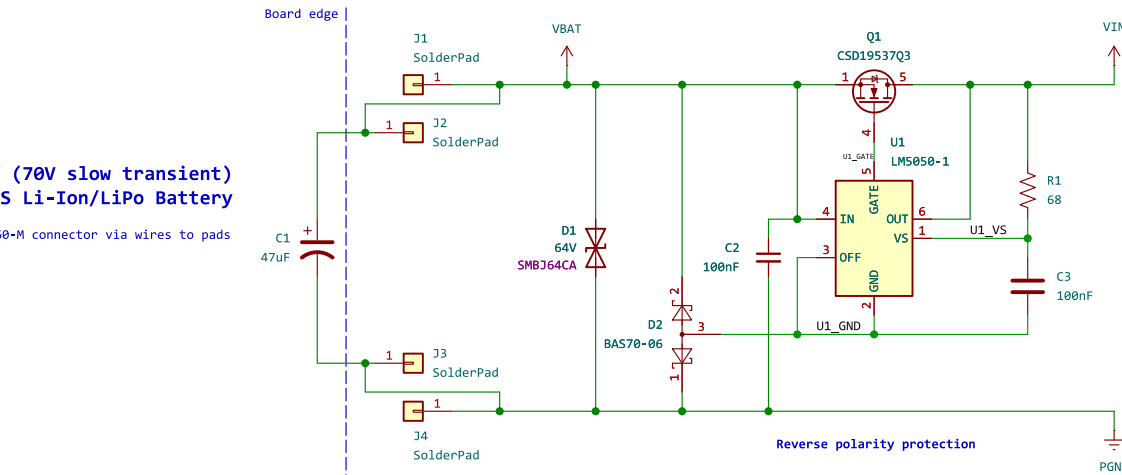


$V_{IN} = 20\sim 60V$  (70V slow transient)  
typ. 6~12S Li-Ion/LiPo Battery

Attach XT60-M connector via wires to pads



Stability Analysis of Compensation @ 5V

- PWR\_FLAG → VIN  
PWR\_FLAG → VBAT  
PWR\_FLAG → VCC  
PWR\_FLAG → VOUT  
PWR\_FLAG → U2\_VIN  
PWR\_FLAG → PGND  
PWR\_FLAG → AGND  
PWR\_FLAG → U1\_GND

An independent prototype design for the Super Step Down V3  
UBCO Aerospace Club [Julian Joaquin]  
Sheet: /  
File: 2025\_SSDP3A2.kicad\_sch  
**Title: Super Step Down P3A2**  
Size: A3  
Date: 2025-10-16  
KiCad E.D.A. 9.0.4  
Rev: C  
Id: 1/1