

# 4s-5V Buck Converter

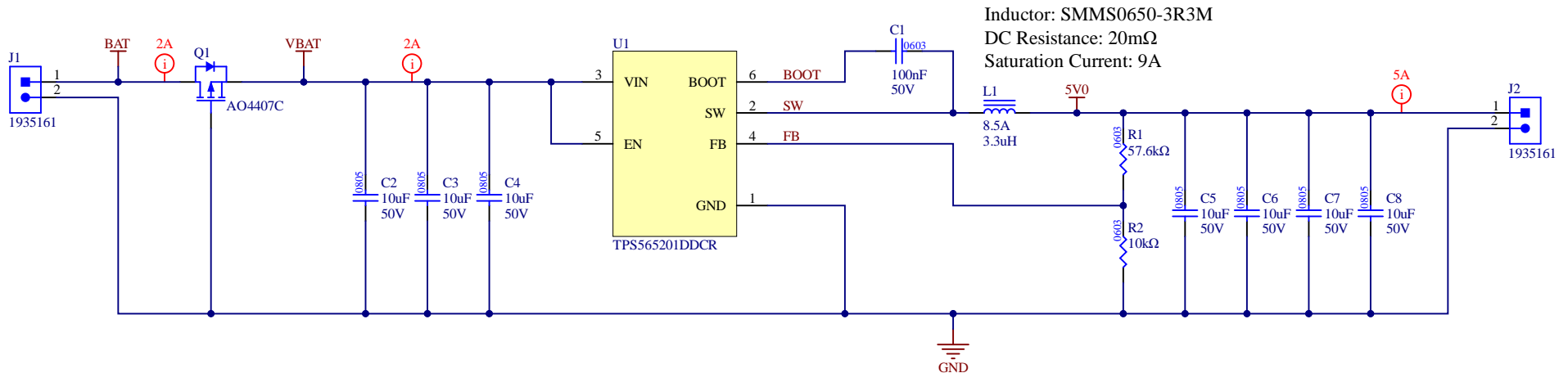
Webench reference design: <https://webench.ti.com/appinfo/webench/scripts/SDP.cgi?ID=9A8EEBA58F18B148>

Design Calculations: <https://docs.google.com/spreadsheets/d/18mLThlfdizCUS8jiHNGjHdB69v7MyRbX1yp0kUL1zhw/>

Input Voltage:

4s Lithium Polymer Battery  
12.8V-16.8V

Output voltage ripple: 13mVpp  
Expected efficiency at 5A: 93.7%



Waterloo Aerial Robotics Group  
200 University Ave W  
Waterloo, Ontario, Canada  
N2L 3G1



PROJECT  
4s-5V Buck Converter.PrjPcb, [No Variations]

REVISION  
1

DOCUMENT  
4s-5V Buck Converter.SchDoc

MODIFIED  
8/4/2021

ENGINEER  
Kevin Li

REVIEWER  
Lance Bantoto

SHEET 1 OF 1