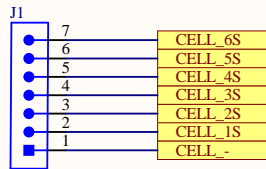
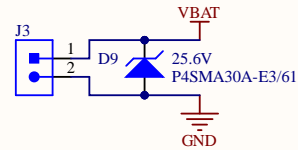


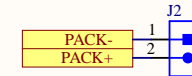
## Battery Balancing



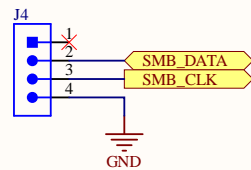
## Battery In



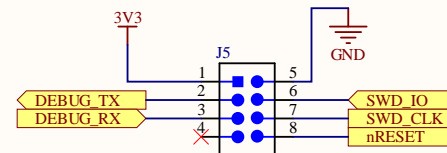
## Pack Out



## EV2400

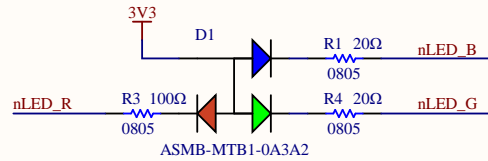


## Debug/Programing

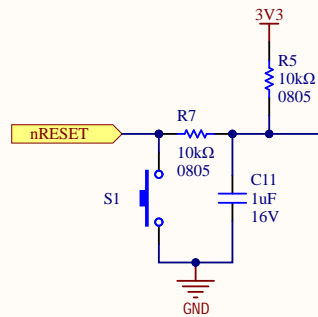




## Test LEDs



## Reset Button



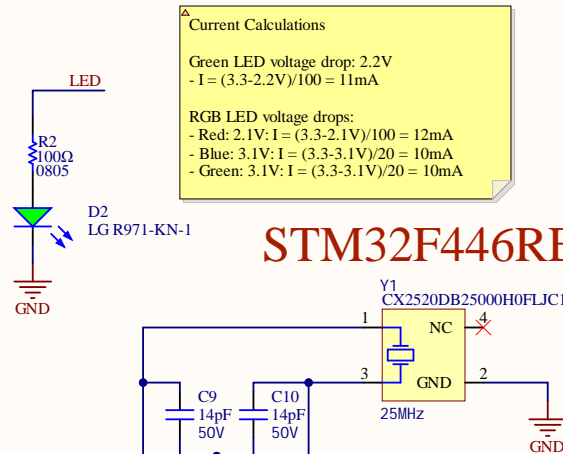
For Debounce Circuit:

$$T = RC \rightarrow C = T/R$$
$$C = 10\text{ms}/10\text{k}\Omega = 1\mu\text{F}$$

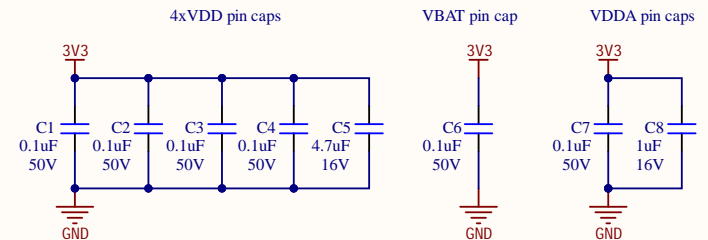
## GND Test Point



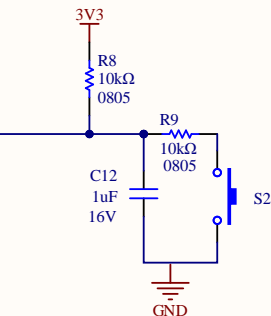
# STM32F446RET6



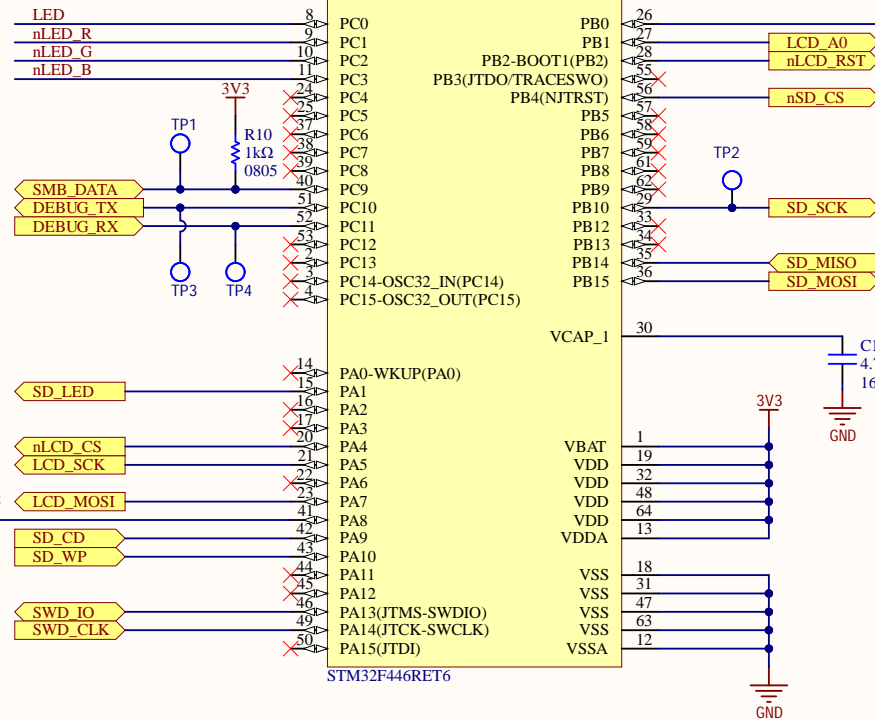
## Decoupling Caps




Test Button

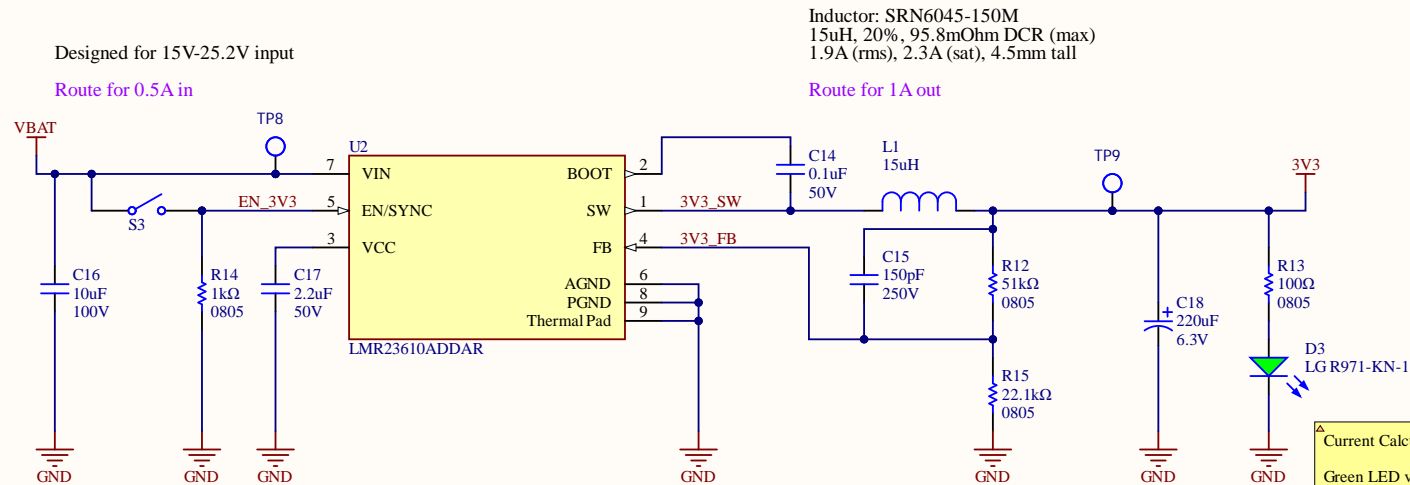


For Debounce Circuit:  
 $T = RC \rightarrow C = T/R$   
 $C = 10\text{ms}/10\text{k}\Omega = 1\mu\text{F}$



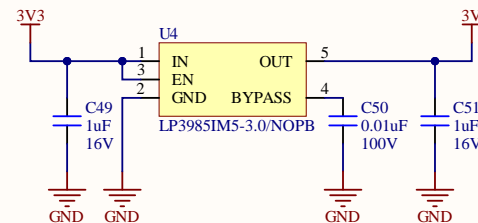
Title MCU		
Size: <b>Letter</b>	Drawn By: Ayesha Ebrahim	
Date: <b>2020-05-29</b>	Sheet <b>1</b> of <b>1</b>	
File: C:\Users\ayesh\Documents\GitHub\MarsRover2020-PCB\Projects\BMS\Rev1\MCU_SchDoc		

# Battery Voltage to 3V3 Buck @ 1A Max

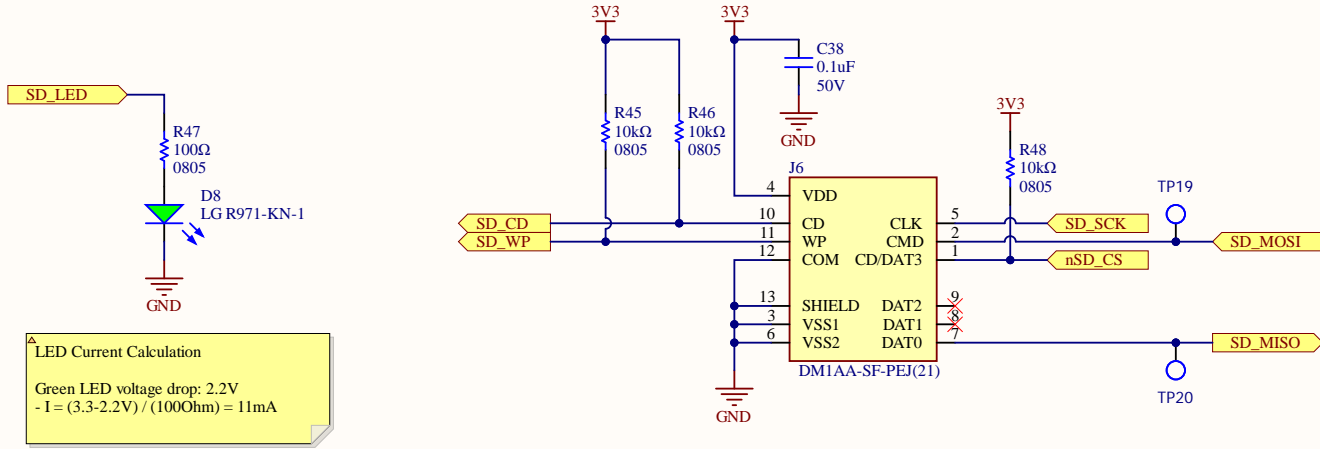



Max expected power on output = 1.65W  
Max current = 0.5A  
Expected Efficiency at 1A > 87.7%

# 3V3 to 3V LDO @ 150mA Max



## SD Card Connector



Title: SD Card		
Size: Letter	Drawn By: Ayesha Ebrahim	
Date: 2020-05-29	Sheet 6 of 6	
File: C:\Users\ayesh\Documents\GitHub\MarsRover2020-PCB\Projects\BMS\Rev1\SD Card_SchDoc		