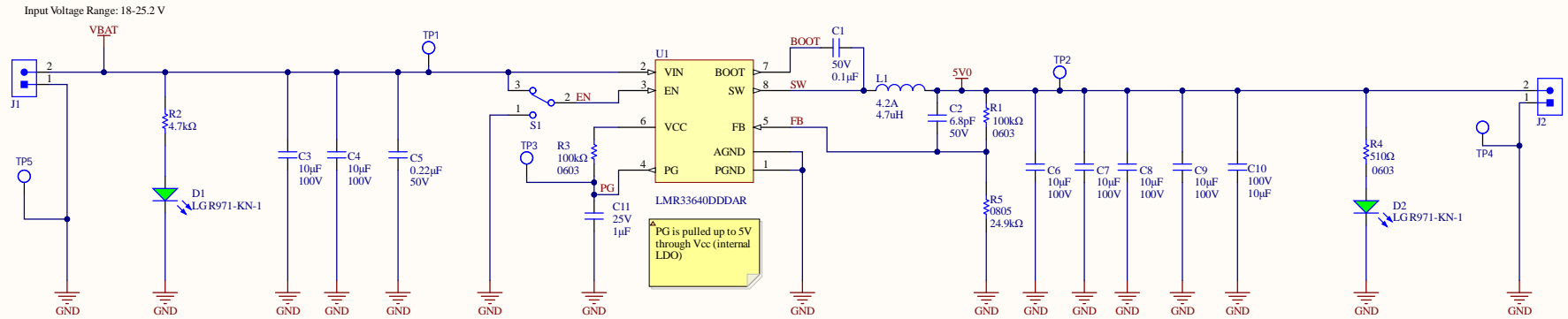


# VBAT TO 5V BUCK CONVERTER

Expected efficiency: 90%  
Expected Voltage Ripple: 20mV  
Max Current Draw: 4A

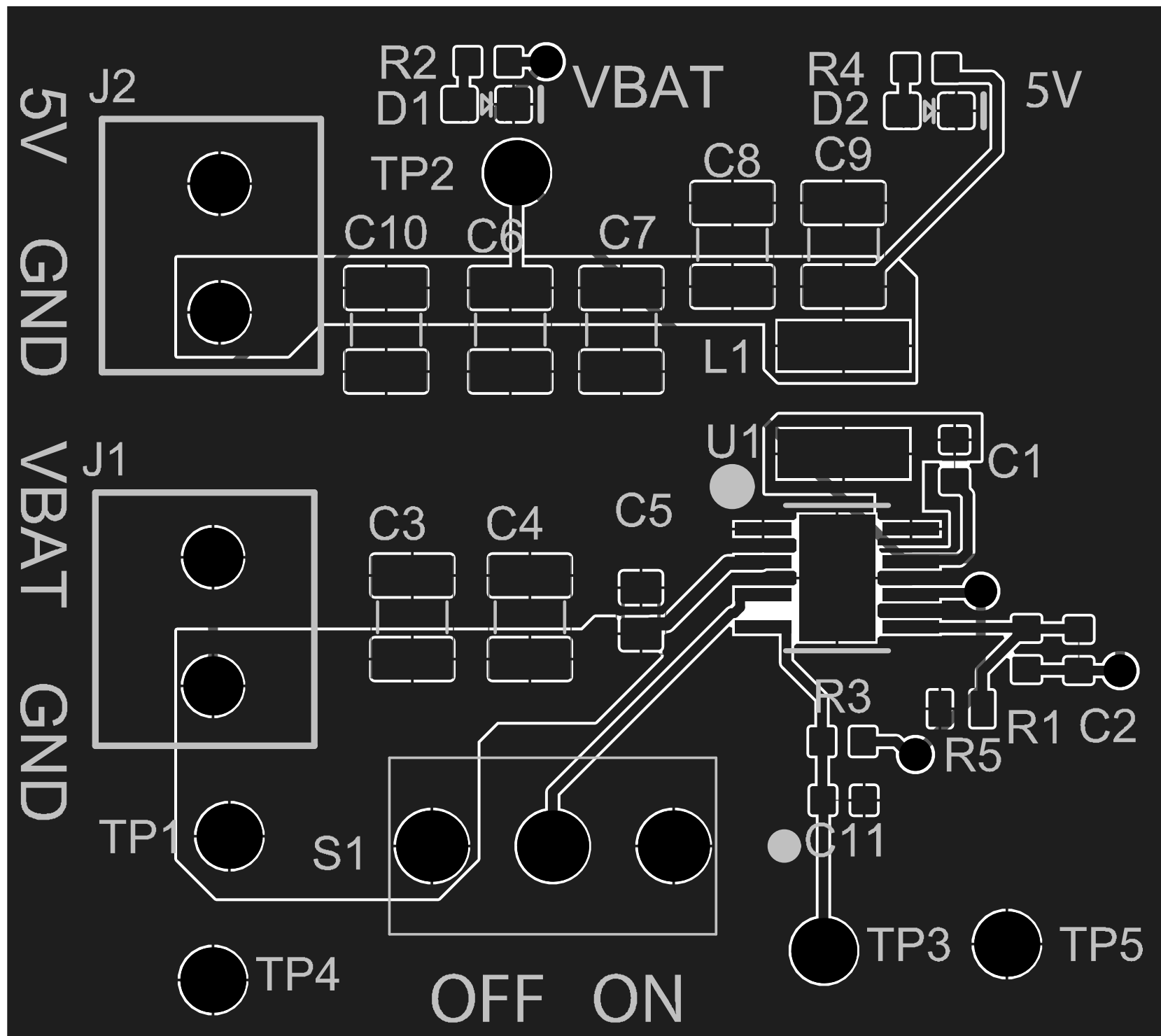


LED Current Calcs:  
Fwd Voltage @ 2.2V  
VBat  
 $(25.2 - 2.2) / (4.7 \times 10^{-3}) = 4.89\text{mA}$   
 $(18 - 2.2) / (4.7 \times 10^{-3}) = 3.36\text{mA}$

LED Current Calcs:  
Fwd Voltage @ 2.2V  
5V0:  
 $(5 - 2.2) / (510) = 5.49\text{mA}$

Title: SH1 - Buck Converter	
Project: Buck_24_to_5_Eval.PjtPcb	
Rev: 1.0	Reviewer: *
Engineer: Sahil Kale	
Date: 3/10/2021	Sheet: 1 of 1





# Board Stack Report