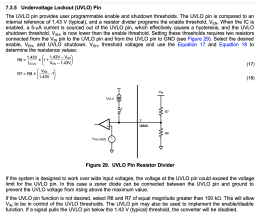
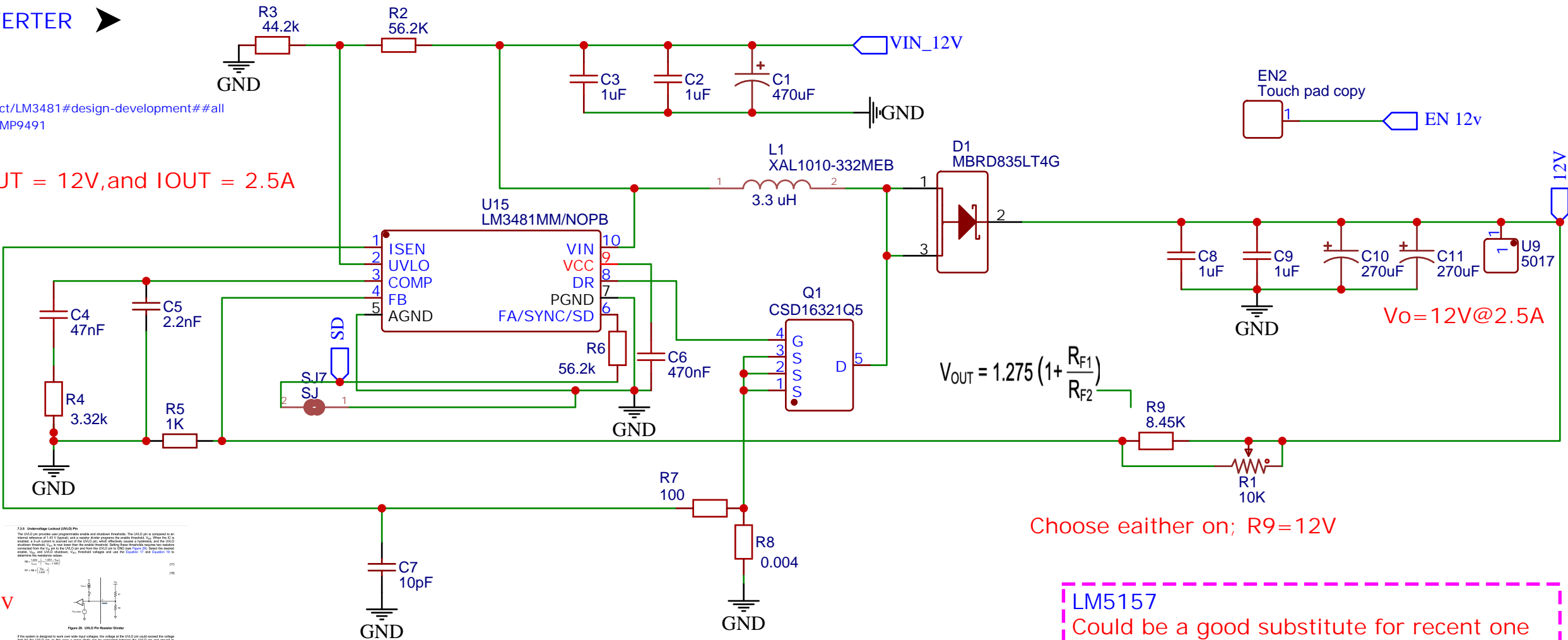


BOOST CONVERTER ➔  
LM3481

<https://www.ti.com/product/LM3481#design-development##all>  
<https://www.ti.com/tool/PMP9491>

VIN = 3V, VOUT = 12V, and IOU = 2.5A

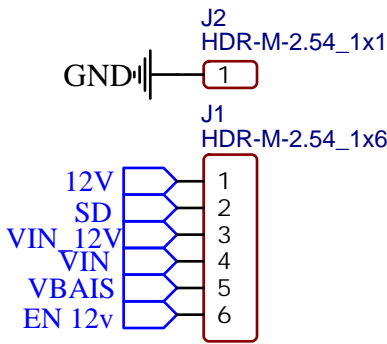
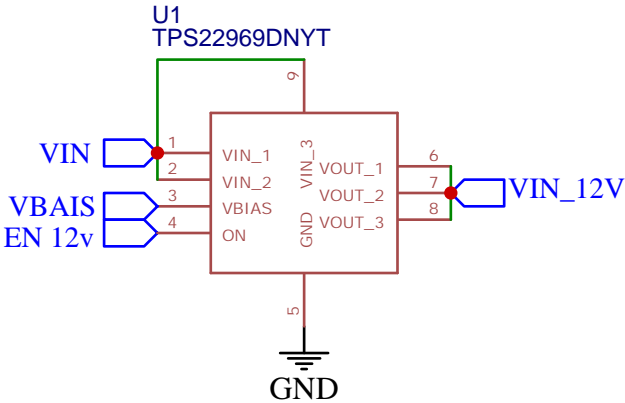


Cut-off voltage = 3.24V

SD: LOW = ON

solve for x,  $56200 = 44200 \left( \frac{x}{1.43} - 1 \right) : x = 3.24823$

Load Switch ➔  
USE INSTEAD  
TPS22969  
TPS22990



Choose either on; R9=12V

LM5157  
Could be a good substitute for recent one  
MP3432  
30W Boost Converter, VIN=2.7V

Replacment	
R1	3296W-1-103
1uF	GCJ21BR71H105KA01L