

Minimum input voltage:	$V_{in\_min} = 11.4 V$
Maximum output voltage:	$V_{out\_max} = 25 V$
Inductor value:	$L = 47 \times 10^{-6} H$
Switching frequency:	$F_{sw} = 500 kHz$
Diode forward voltage:	$V_d = 0.6 V$
Minimum current limit:	$I_{sw\_min} = 0.56A$
Efficiency:	$\eta = 0.85$

Inductor peak to peak current ripple:

$$I_{LR} = \frac{1}{[L \times F_{sw} \times (\frac{1}{V_{out\_max} + V_d - V_{in\_min}} + \frac{1}{V_{in\_min}})]} = 0.269A$$

Maximum output current:

$$I_{out\_max} = V_{in\_min} \times \left( I_{sw\_min} - \frac{I_{LR}}{2} \right) \times \frac{\eta}{V_{out\_max}} = 0.165A$$