Step	PARAMETERS/EQUATIONS	
1: Inputs	Pick V_{in}, V_{out},and $f_{osc}$to calculate equations below.	$V_{in} = 18\ V$ $V_{out} = -15\ V$ $f_{osc} = 1\ MHz\ (< f_{max} = 2.5MHz)$
2: DC	$DC \cong \frac{\lvert V_{OUT}\rvert + 0.5V}{V_{IN} + \lvert V_{OUT}\rvert + 0.5V - 0.27V}$	$DC \cong \frac{\lvert -15\rvert + 0.5}{18 + \lvert -15\rvert + 0.5 - 0.27} = 46.6\%$
3: L	$L_{TYP} = \frac{(V_{IN} - 0.27V)\cdot DC}{f_{OSC}\cdot 1.8A}$ $L_{MIN} = \frac{(V_{IN} - 0.27V)\cdot (2DC - 1)}{4A\cdot f_{OSC}\cdot (1 - DC)}$ $L_{MAX} = \frac{(V_{IN} - 0.27V)\cdot DC}{f_{OSC}\cdot 0.5A}$	$L_{TYP} = \frac{(18 - 0.27)\cdot 0.466}{1\cdot 10^6\cdot 1.8} = 4.59\ \mu H$ $L_{MIN} = \frac{(18 - 0.27)\cdot (2\cdot 0.466 - 1)}{4\cdot 1\cdot 10^6\cdot (1 - 0.466)} = -564\ nH \rightarrow 564\ nH$ $L_{MAX} = \frac{(18 - 0.27)\cdot 0.466}{1\cdot 10^6\cdot 0.5} = 16.5\ \mu H$
4: I_{RIPPLE}	$I_{RIPPLE} = \frac{(V_{IN} - 0.27)\cdot DC}{f_{OSC}\cdot L}$	$I_{RIPPLE} = \frac{(18 - 0.27)\cdot 0.466}{1\cdot 10^6\cdot 4\cdot 10^{-6}} = 2.066\ A$
5: I_{OUT}	$I_{OUT} = \left(6A - \frac{I_{RIPPLE}}{2}\right)\cdot (1 - DC)$	$I_{OUT} = \left(6 - \frac{2.066}{2}\right)\cdot (1 - 0.466) = 2.652\ A$
6: D_1	$V_R > V_{IN} + \lvert V_{OUT}\rvert; I_{AVG} > I_{OUT}$	$V_R > 18 + \lvert -15\rvert \rightarrow V_R > 33\ V$ $I_{AVG} > 1vA$
7: C_1	$4.7\ \mu F\ (typical); V_{RATING} > V_{IN} + \lvert V_{OUT}\rvert$	$C_1 = 4.7\ \mu F$ $V_{RATING} > 18 + \lvert -15\rvert \rightarrow V_{RATING} > 33\ V$
8: C_{OUT}	$C_{OUT} = \frac{I_{RIPPLE}}{8\cdot f_{OSC}\cdot 5\cdot 10^{-3}\cdot \lvert V_{OUT}\rvert}$	$C_{OUT} = \frac{2.066}{8\cdot 1\cdot 10^6\cdot 5\cdot 10^{-3}\cdot \lvert -15\rvert} = 3.443\ \mu F$
9: C_{IN}	$C_{IN} = C_{PWR} + C_{VIN}$ $C_{IN} = \frac{I_{RIPPLE}}{8\cdot f_{OSC}\cdot 5\cdot 10^{-3}\cdot V_{IN}} + \frac{6A\cdot DC}{40\cdot f_{OSC}\cdot 5\cdot 10^{-3}\cdot V_{IN}}$	$C_{IN} = \frac{2.066}{8\cdot 1\cdot 10^6\cdot 5\cdot 10^{-3}\cdot 18} + \frac{6\cdot 0.466}{40\cdot 1\cdot 10^6\cdot 5\cdot 10^{-3}\cdot 18} = 3.646\ \mu F$
10: R_{FB}	$R_{FB} = \frac{\lvert V_{OUT}\rvert + 9mV}{83.3\mu A}$	$R_{FB} = \frac{\lvert -15\rvert + 9\cdot 10^{-3}}{83.3\cdot 10^{-6}} = 180.180\ k\Omega \rightarrow 180\ k\Omega$
11: R_T	$R_T = \frac{87.6}{f_{OSC}} - 1; f_{OSC}\ in\ MHz\ and\ R_T\ in\ k\Omega$	$R_T = \frac{87.6}{1} - 1 = 86.6\ k\Omega \rightarrow 82\ k\Omega$