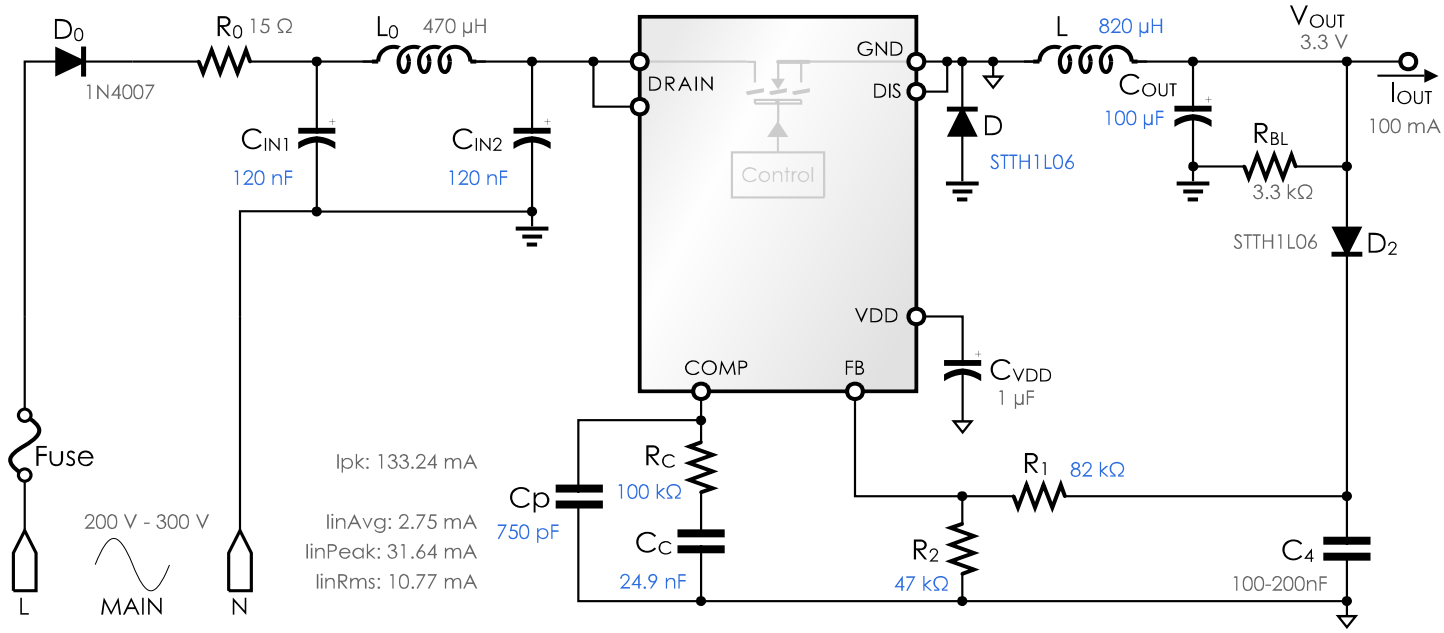
Vin: 200 V - 300 V **Vout:** 3.3 V **Iout:** 100 mA
Switch Frequency: 60 kHz
IC: VIPER012LS - SSO10 - STMicroelectronics
System Operating Condition: **Vin:** 300 V - **Iout:** 100 mA - **Ta:** 25 °C

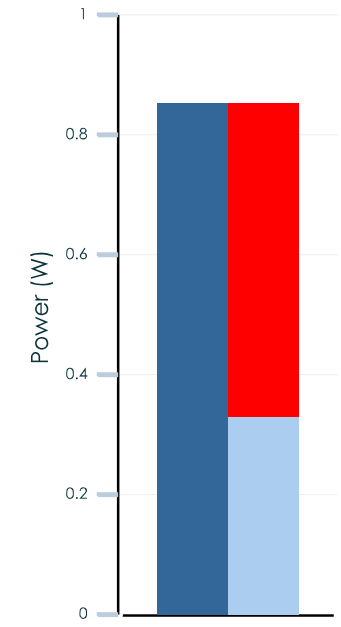


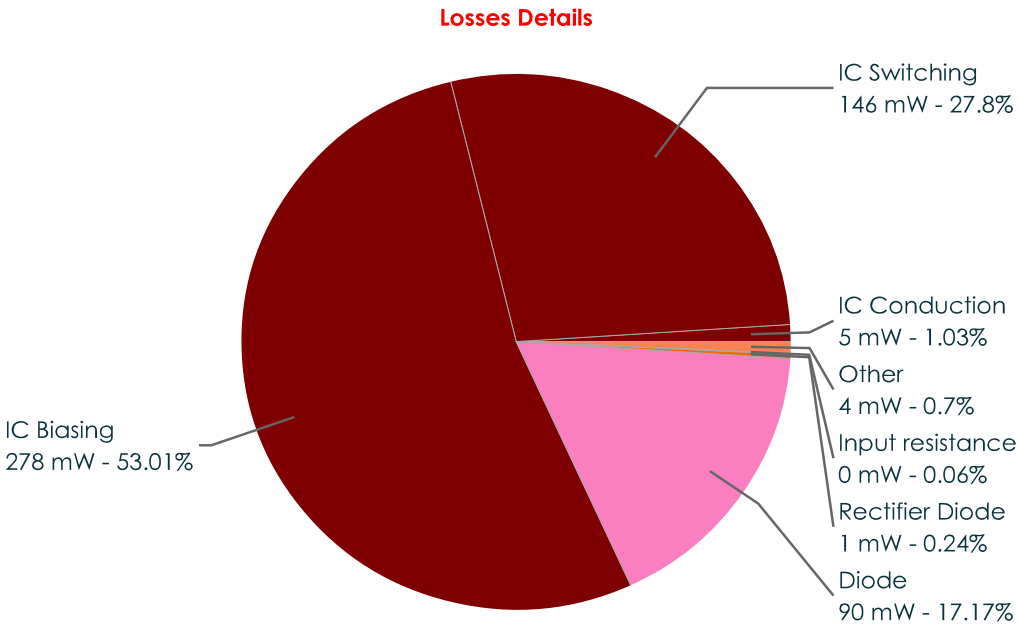
Bill of Materials

Type	Reference	Value	Description
IC	IC	VIPER012LS	VIPER012LS - SSO10 - STMicroelectronics
Capacitor	Cout	100 µF	10 V - 20% - Würth Elektronik - 860020272005
Inductor	L	820 µH	1.6 A - Coilcraft - MSS1583-824KEB
Diode	D	STTH1L06	1 A, 600 V - STMicroelectronics
Resistor	R1	82 kΩ	82 kΩ
Resistor	R2	47 kΩ	47 kΩ
Capacitor	Cc	24.9 nF	24.9 nF
Capacitor	Cp	750 pF	750 pF
Resistor	Rc	100 kΩ	100 kΩ
Diode	Din	1N4007	1 A, 1 kV - Fairchild
Resistor	Rin	15 Ω	15 Ω
Inductor	Lin	470 µH	170 mA
Capacitor	Cin1	120 nF	400 V - 20%
Capacitor	Cin2	120 nF	400 V - 20%
Capacitor	C4	100-200nF	

Type	Reference	Value	Description
Diode	D2	STTH1L06	1 A, 600 V - STMicroelectronics
Capacitor	Cvdd	1 µF	1 µF
Resistor	Rbl	3.3 kΩ	3.3 kΩ

Power Losses



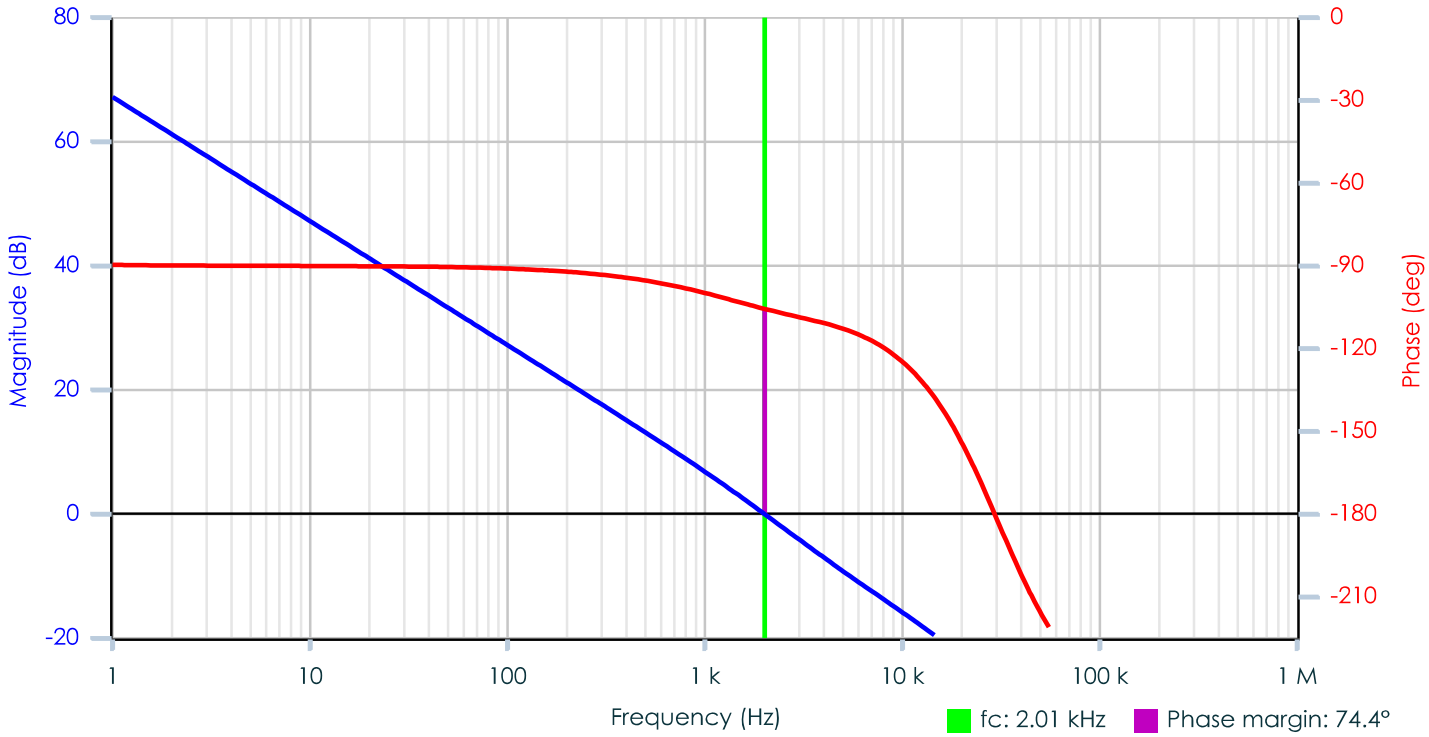


Pin: 0.85 W Pout: 329.36 mW

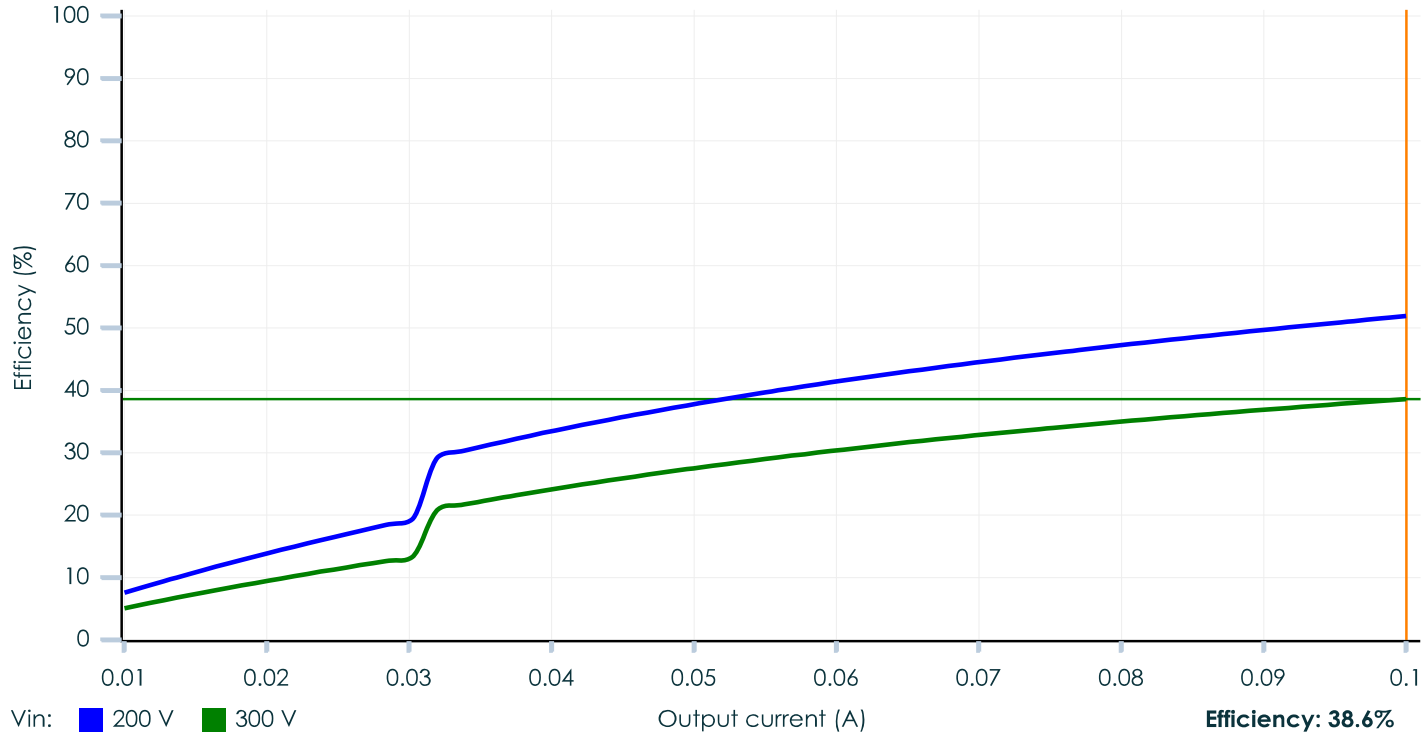
Plosses: 523.87 mW - 61.4%

Efficiency: 38.6%

Bode



Efficiency



Simulation