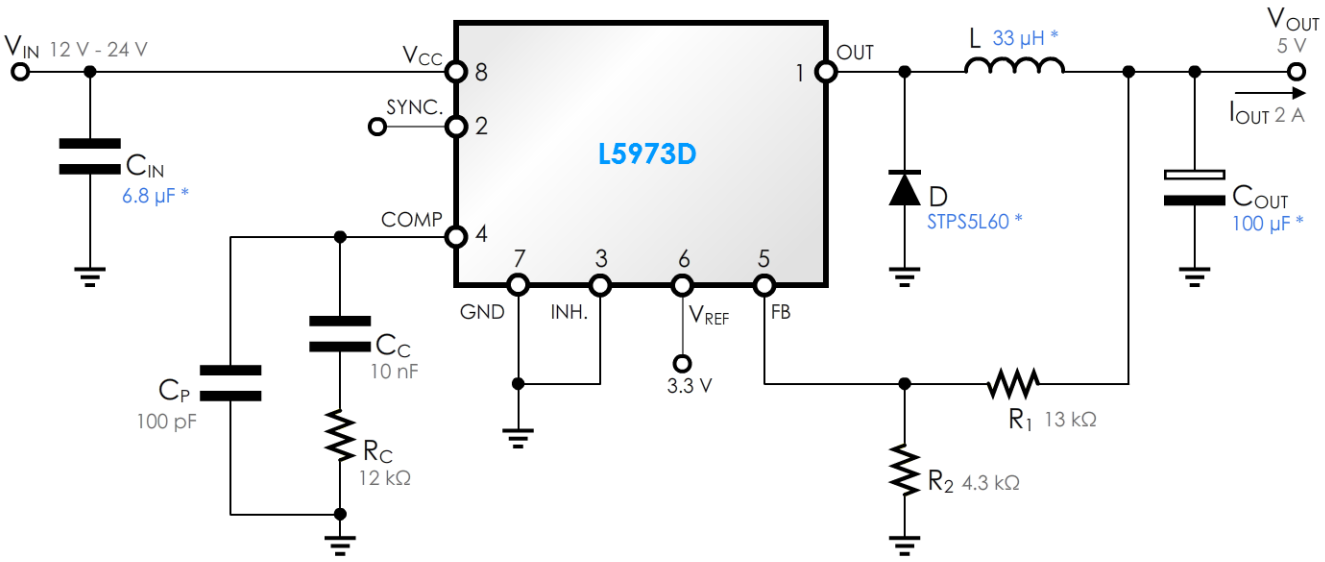
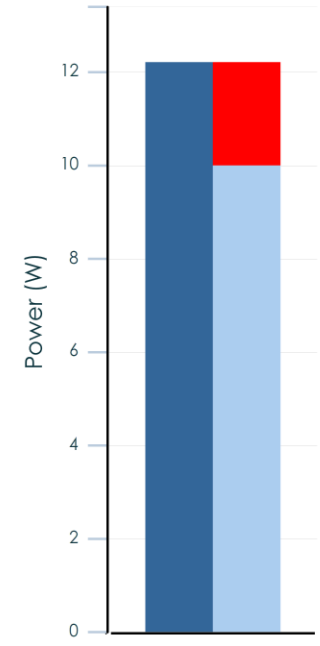
Vin: 12 V - 24 V **Vout:** 5 V **Iout:** 2 A
Switch Frequency: 250 kHz
IC: L5973D - HSOP 8
System Operating Condition: **Vin:** 24 V - **Iout:** 2 A - **Ta:** 25 °C

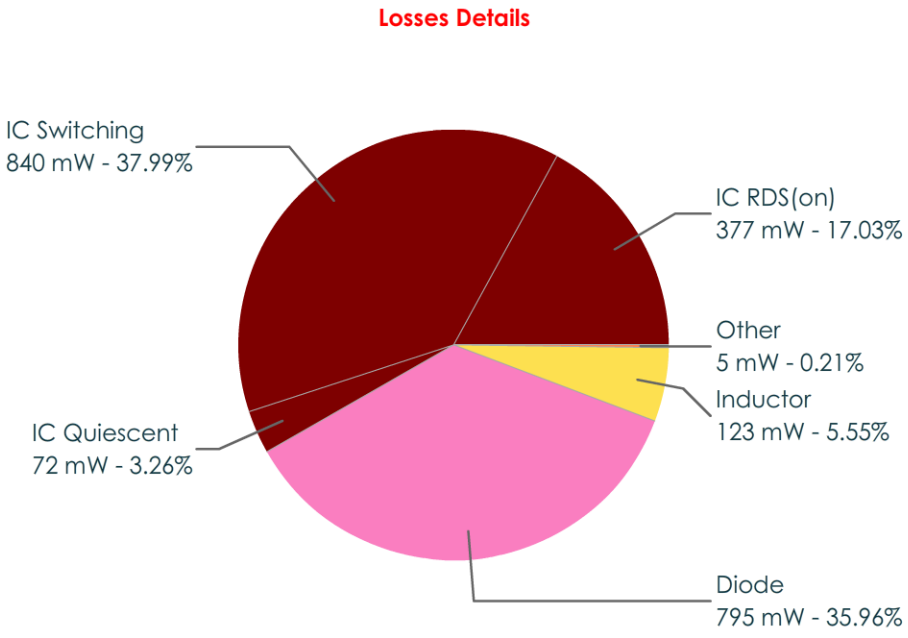


Bill of Materials

Type	Reference	Value	Description
IC	IC	L5973D	L5973D - HSOP 8
Capacitor	Cin	6.8 µF	50 V - 20% - TDK - C4532X5R1H685M
Capacitor	Cout	100 µF	6.3 V - 20% - AVX - TPSC107M006R0150
Inductor	L	33 µH	5.5 A - Wurth Elektronik - 7443551331
Diode	D	STPS5L60	5 A, 60 V - STMicroelectronics
Resistor	R1	13 kΩ	13 kΩ
Resistor	R2	4.3 kΩ	4.3 kΩ
Capacitor	Cc	10 nF	10 nF
Resistor	Rc	12 kΩ	12 kΩ
Capacitor	Cp	100 pF	100 pF

Power Losses



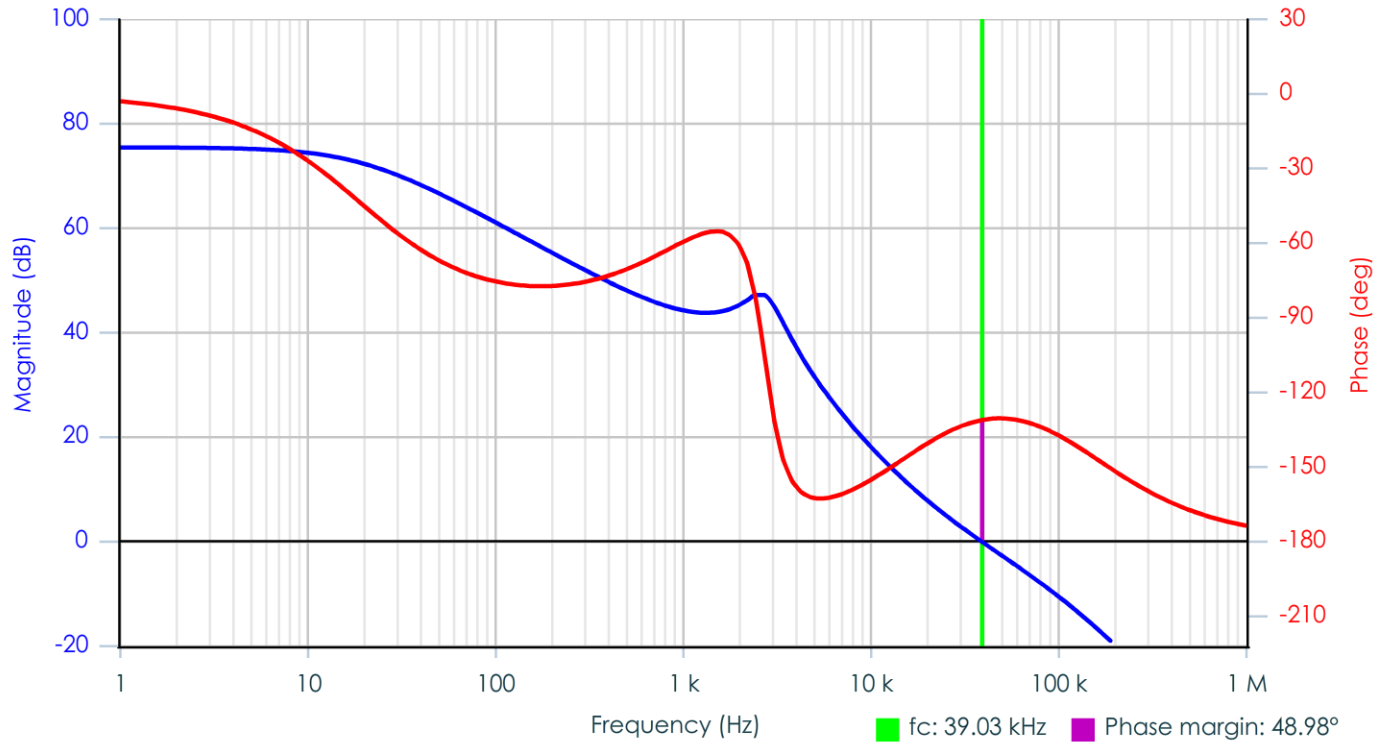


Pin: 12.21 W Pout: 10 W

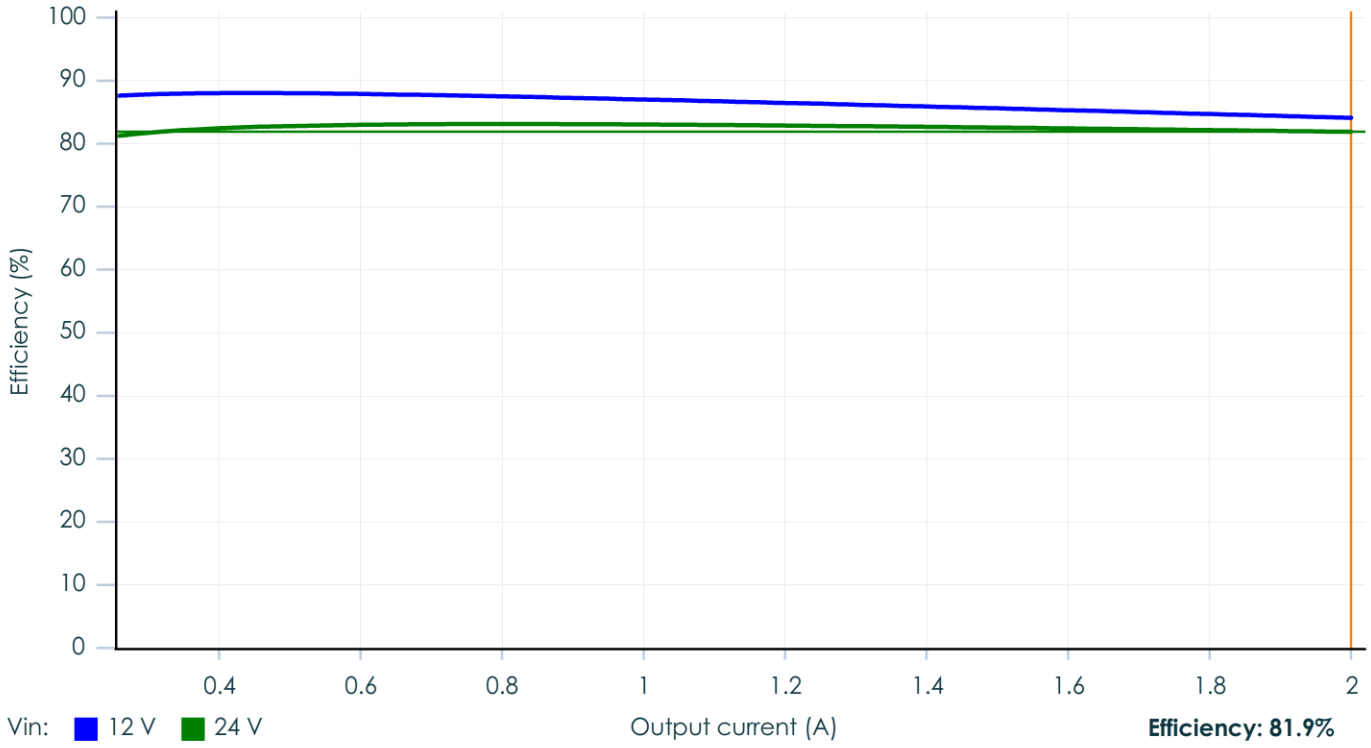
Plosses: 2.21 W - 18.1%

Efficiency: 81.9% ΔTj: 52 °C

Bode



Efficiency



Simulation