

Part Number: MAX668

Design Name: 9V Boost Converter

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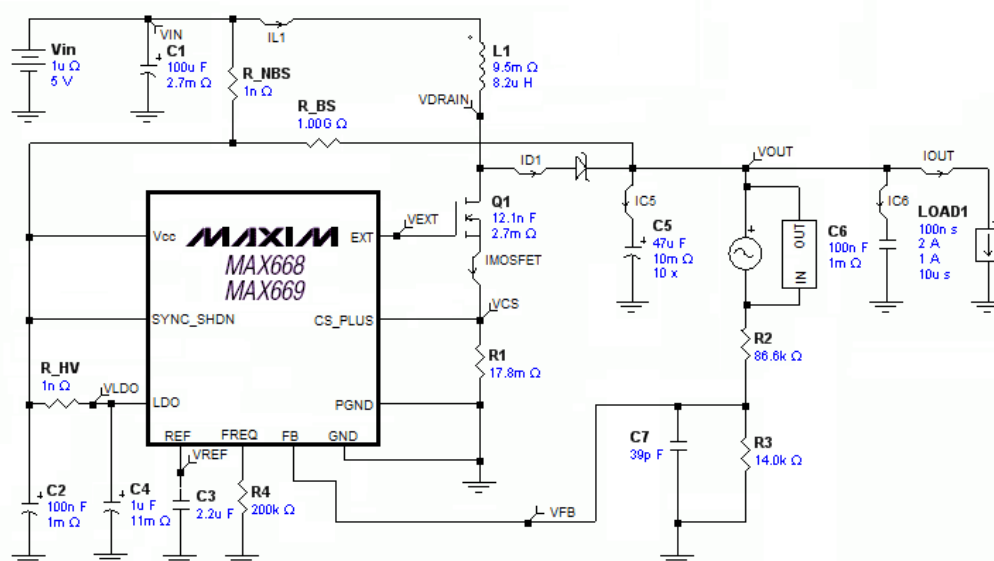
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8/13/2011

MAX668 Information
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Design Requirements

Application Circuit	Boost
Vin, min	5 V
Vin, max	5 V
Input Ripple, max	0.02 V
Vout	9 V
Output Ripple, max	0.01 V
Iout	2 A
Ripple/Total I	0.3
Oscillator Frequency	250 kHz
Optimization	Efficiency
Capacitor Type	Ceramic

Schematic

Components representing open circuits: 1GΩ Resistors, 1fF Capacitors
 Components representing short circuits: 1mΩ Resistors

Bill Of Materials

Supplier Part Number	Manufacturer	Qty	Value	Type	Ref
MAX668	MAXIM	1		IC	U1
	MAXIM	1		IC	U2
C3225X5R0J107M	TDK	1	100uF	Capacitor	C1
Generic		1	100nF	Capacitor	C2
C3225X7R1H225K	TDK	1	2.2uF	Capacitor	C3
C3225X7R1H105K	TDK	1	1uF	Capacitor	C4
C5750X7R1C476M	TDK	10	47uF	Capacitor	C5
Generic		1	100nF	Capacitor	C6
Generic		1	39pF	Capacitor	C7
CEP125-8R2	SUMIDA	1	8.2uH	Inductor	L1
Generic		1	17.8mΩ	Resistor	R1
Generic		1	86.6kΩ	Resistor	R2
Generic		1	14.0kΩ	Resistor	R3
Generic		1	200kΩ	Resistor	R4

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Simulation Results

Results will be shown here after a simulation has been run.

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Design Name

9V Boost Converter

Design Description

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