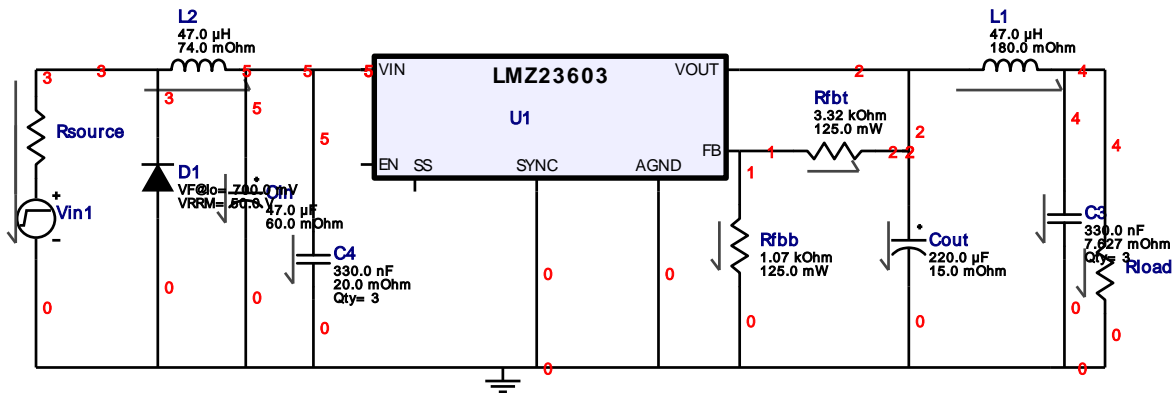
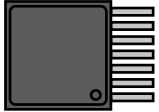


WEBENCH® Electrical Simulation Report

Electrical BOM

#	Name	Manufacturer	Part Number	Properties	Qty	Price	Footprint
1.	C3	TDK	C2012X8R1E334M Series= X8R	Cap= 330.0 nF ESR= 7.627 mOhm VDC= 25.0 V IRMS= 0.0 A	3	\$0.06	 0805 7 mm ²
2.	C4	AVX	08053D334KAT2A Series= X5R	Cap= 330.0 nF ESR= 20.0 mOhm VDC= 25.0 V IRMS= 0.0 A	3	\$0.13	 0805 7 mm ²
3.	Cin	Panasonic	EEHZA1V470P Series= 1267	Cap= 47.0 uF ESR= 60.0 mOhm VDC= 35.0 V IRMS= 1.3 A	1	\$0.56	 SM_RADIAL_6.3AMM 80 mm ²
4.	Cout	Panasonic	6SVPE220MW Series= 259	Cap= 220.0 uF ESR= 15.0 mOhm VDC= 6.3 V IRMS= 3.15 A	1	\$0.14	 CAPSMT_62_E61 53 mm ²
5.	D1	Diodes Inc.	B250A-13-F	VF@Io= 700.0 mV VRRM= 50.0 V	1	\$0.14	 SMA 37 mm ²
6.	L1	Bourns	SRU8028-470Y	L= 47.0 uH DCR= 180.0 mOhm	1	\$0.33	 SRU8028 100 mm ²
7.	L2	Coiltronics	DR125-470-R	L= 47.0 uH DCR= 74.0 mOhm	1	\$0.62	 DR125 210 mm ²
8.	Rfbb	Panasonic	ERJ-6ENF1071V Series= 225	Res= 1.07 kOhm Power= 125.0 mW Tolerance= 1.0%	1	\$0.01	 0805 7 mm ²
9.	Rfbt	Panasonic	ERJ-6ENF3321V Series= 225	Res= 3.32 kOhm Power= 125.0 mW Tolerance= 1.0%	1	\$0.01	 0805 7 mm ²

#	Name	Manufacturer	Part Number	Properties	Qty	Price	Footprint
10.	U1	Texas Instruments	LMZ23603TZ/NOPB	Switcher	1	\$7.95	 TZA07A 199 mm ²

Simulation Parameters

#	Name	Parameter Name	Description	Values
1.	U1	F	no description	800000.0
2.	Rsource	R	Source Resistance	1m Ohm
3.	Vin1	signal_type V1 V2 Td Tr	Signal Type Initial Voltage Peak Voltage Initial Time Delay Rise Time	PULSE 0 V 18.0 V 40u Sec 10u Sec
4.	Rload	R	Load Resistance	1.65 Ohm

Operating Values

#	Name	Value	Category	Description
1.	BOM Count	10	General	Total Design BOM count
2.	FootPrint	706.6788 mm ²	General	Total Foot Print Area of BOM components
3.	Total BOM	\$9.95	General	Total BOM Cost

Design Inputs

#	Name	Value	Description
1.	Iout	2.0 A	Maximum Output Current
2.	Iout1	2.0 Amps	Output Current #1
3.	VinMax	22.0 V	Maximum input voltage
4.	VinMin	14.0 V	Minimum input voltage
5.	Vout	3.3 V	Output Voltage
6.	Vout1	3.3 Volt	Output Voltage #1
7.	base_pn	LMZ23603	Texas Instruments Base Part Number
8.	source	DC	Input Source Type
9.	ta	30.0 degC	Ambient temperature

Design Assistance

- LMZ23603 Product Folder : <http://www.ti.com/product/LMZ23603> : contains the data sheet and other resources.

Texas Instruments' WEBENCH simulation tools attempt to recreate the performance of a substantially equivalent physical implementation of the design. Simulations are created using Texas Instruments' published specifications as well as the published specifications of other device manufacturers. While Texas Instruments does update this information periodically, this information may not be current at the time the simulation is built. Texas Instruments does not warrant the accuracy or completeness of the specifications or any information contained therein. Texas Instruments does not warrant that any designs or recommended parts will meet the specifications you entered, will be suitable for your application or fit for any particular purpose, or will operate as shown in the simulation in a physical implementation. Texas Instruments does not warrant that the designs are production worthy.

You should completely validate and test your design implementation to confirm the system functionality for your application prior to production.

Use of Texas Instruments' WEBENCH simulation tools is subject to [Texas Instruments' Site Terms and Conditions of Use](#). Prototype boards based on WEBENCH created designs are provided AS IS without warranty of any kind for evaluation and testing purposes and are subject to the terms of the [Evaluation License Agreement](#).