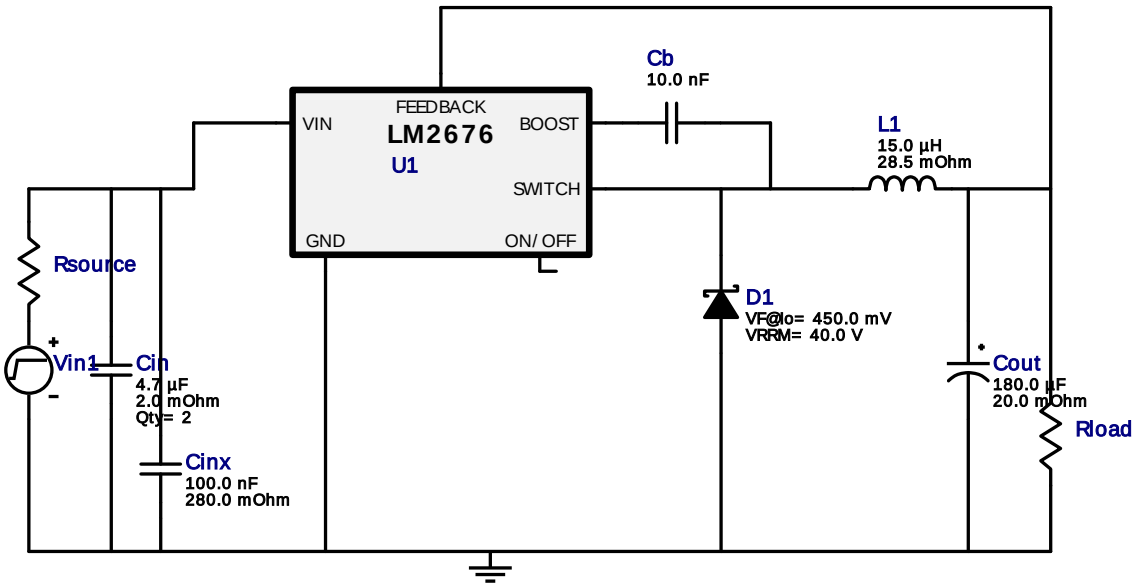
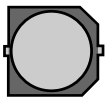
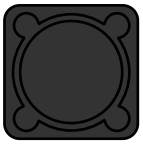
WEBENCH® Design Report

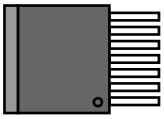
Device = LM2676SX-5.0/NOPB
Topology = Buck
Created = Sat May 30 15:01:52 GMT +0200 2015
BOM Cost = $2.72
Footprint = 586.8 mm²
BOM Count = 7

Design : 4385517/7 LM2676SX-5.0/NOPB
Edited - LM2676SX-5.0/NOPB 12.0V-14.0V to 5.00V @ 3.0A - (#6)



Electrical BOM

#	Name	Manufacturer	Part Number	Properties	Qty	Price	Footprint
1.	Cb	MuRata	GRM216R71H103KA01D Series= X7R	Cap= 10.0 nF VDC= 50.0 V IRMS= 0.0 A	1	$0.01	 0805 7 mm²
2.	Cin	MuRata	GRM21BR61E475MA12L Series= X5R	Cap= 4.7 uF ESR= 2.0 mOhm VDC= 25.0 V IRMS= 7.29 A	2	$0.06	 0805 7 mm²
3.	Cinx	AVX	08053C104KAT2A Series= X7R	Cap= 100.0 nF ESR= 280.0 mOhm VDC= 25.0 V IRMS= 0.0 A	1	$0.01	 0805 7 mm²
4.	Cout	Panasonic	16SVP180M Series= 261	Cap= 180.0 uF ESR= 20.0 mOhm VDC= 16.0 V IRMS= 3.64 A	1	$0.29	 SM_RADIAL_8MM 113 mm²
5.	D1	Diodes Inc.	B340LB-13-F	VF@Io= 450.0 mV VRRM= 40.0 V	1	$0.14	 SMB 44 mm²
6.	L1	Bourns	SRR1280-150M	L= 15.0 µH DCR= 28.5 mOhm	1	$0.41	 SRR1280 210 mm²

#	Name	Manufacturer	Part Number	Properties	Qty	Price	Footprint
7.	U1	Texas Instruments	LM2676SX-5.0/NOPB	Switcher	1	$1.80	 TS7B 199 mm^2

Design Assistance

1. **LM2676** Product Folder : http://www.ti.com/product/LM2676 : contains the data sheet and other resources.