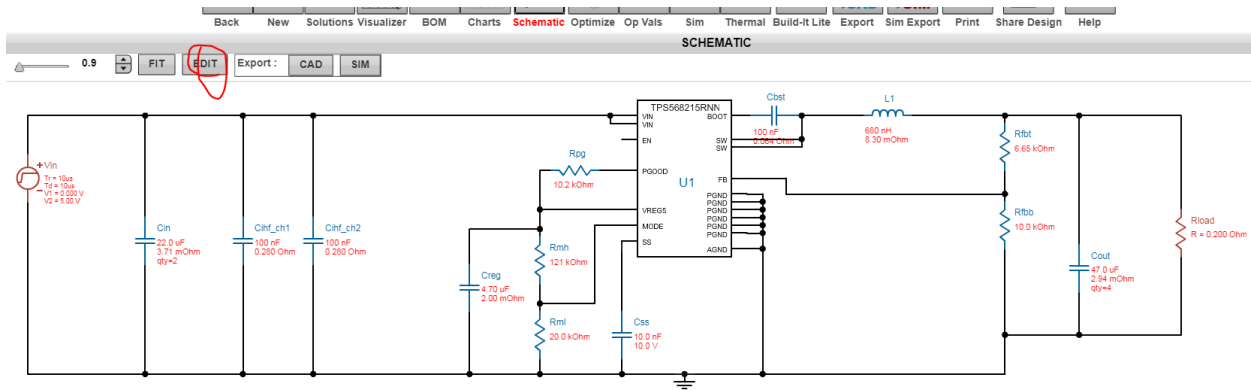


# How to add component on Webench

1, when you open the design circuit, clicks “edit”.



2, click “edit this design”

The screenshot shows the 'Edit Design' dialog box in Webench. The dialog is split into two panels: 'Change Schematic' and 'Change Existing Components'. The 'Change Schematic' panel has a red circle around the 'Edit This Design' button. The 'Change Existing Components' panel has a green button labeled 'Change BOM Components'. The 'Design Name' field contains 'Edited - TPS568215RNNR 5.0V-5.0V to 1.00V @ 5.0A - (#13)'. The 'Design Comment' field contains 'This is a copy of Design #13'. Below the comment field, it says 'It may take up to 30 seconds to copy this design.' The 'Edit This Design' button is circled in red.



6, you can search the value you want. Then click “search” and find what you want and click “select”.

**ALTERNATE PARTS**  
Summary information for selected Component: Summary information for selected Component C8:

Manuf	Part Number	Cap (F)	ESR (Ohm)	VDC (V)	Price	Qty	Qty Avail	Foot Print	Height	Power Diss	Total Cap (F)	Total ESR (Ohm)	Total IRMS (A)	Total Price	Total Foot P	
Enter Your Search Limits											Capacitance (F)	ESR (Ohm)	VDC (V)			
Upperbound											600u	2m	35			
Lowerbound											600u	2m	10			
Target											600u	2m	16			
Select an alternate part for Component C8: <input type="checkbox"/> show More Columns																
Edit	Manuf	Part Number	Cap (F)	ESR (Ohm)	VDC (V)	Price	Qty	Qty Avail	Foot Print	Height	Power Diss	Total Cap (F)	Total ESR (Ohm)	Total IRMS (A)	Total Price	
<b>Select</b>	CUSTOM	CUSTOM	600u	2m	16	NA	1	0	0	0	0	600u	2m	1	NA	

7, you will find the component has been added in the BOM. Then click “sim”

**BILL OF MATERIALS**

Part	Manufacturer	Part Number	Quantity	Price	Attributes	Footprint	Top View	Edit
Cbat	Kemet	C0805C104K5RACU	1	\$0.01	Cap=100nF, ESR=0.064Ohm	7		Select Alternate Part
Cin_ch1	AVX	08053C104KAT2A	1	\$0.01	Cap=100nF, ESR=0.280Ohm	7		Select Alternate Part
Cin_ch2	AVX	08053C104KAT2A	1	\$0.01	Cap=100nF, ESR=0.280Ohm	7		Select Alternate Part
Cin	TDK	C1608X5R1A228M00BAC	2	\$0.12	Cap=22uF, ESR=3.71mOhm	5		Select Alternate Part
Coat	MuRata	GRM31CR61A476KE15L	4	\$0.16	Cap=47uF, ESR=3.70mOhm	11		Select Alternate Part
Cinrg	Murata	GRM31HR61E476MA13L	4	\$0.03	Cap=47uF, ESR=2.90mOhm	7		Select Alternate Part
Ces	Murata	GRM313R61A403KA91D	1	\$0.01	Cap=100uF, ESR=0.00m	2		Select Alternate Part
L1	Coilcraft	XL5015-681ME0	1	\$0.83	L=68uH, DCI=8.3mOhm, EC=U.S.A	57		Select Alternate Part
Rinb	Panasonic	ERJ6ENF1213V	1	\$0.01	Resistance=121kOhm, Tolerance=1%, Power=0.120W	7		Select Alternate Part
Rin	Panasonic	ERJ6ENF2002V	1	\$0.01	Resistance=20kOhm, Tolerance=1%, Power=0.120W	7		Select Alternate Part
Rpg	Vishay Dale	CRCW040210K2FKED	1	\$0.01	Resistance=10.2kOhm, Tolerance=1%, Power=0.120W	3		Select Alternate Part
U1	Texas Instruments	TP5582150NMR	1	\$1.50		20		Select Alternate Part
RBb	Sosame Co Ltd	RR1220P-103-D	1	\$0.01	Resistance=10kOhm, Tolerance=0.5%, Power=0.1W	7		Select Alternate Part
RBd	Vishay Dale	CRCW04020502FKED	1	\$0.01	Resistance=5.0kOhm, Tolerance=1%, Power=0.063W	3		Select Alternate Part
C8	CUSTOM	CUSTOM	1	NA	Cap=600nF, ESR=2mOhm	NA		Select Alternate Part

8, you'll find the component value has been changed. Then you can run simulation.

**ELECTRICAL SIMULATIONS**

Simulation Type: Startup Design : 32  
Design : 32

Start New Simulation **Startup**

Active Design : Current design state for Startup

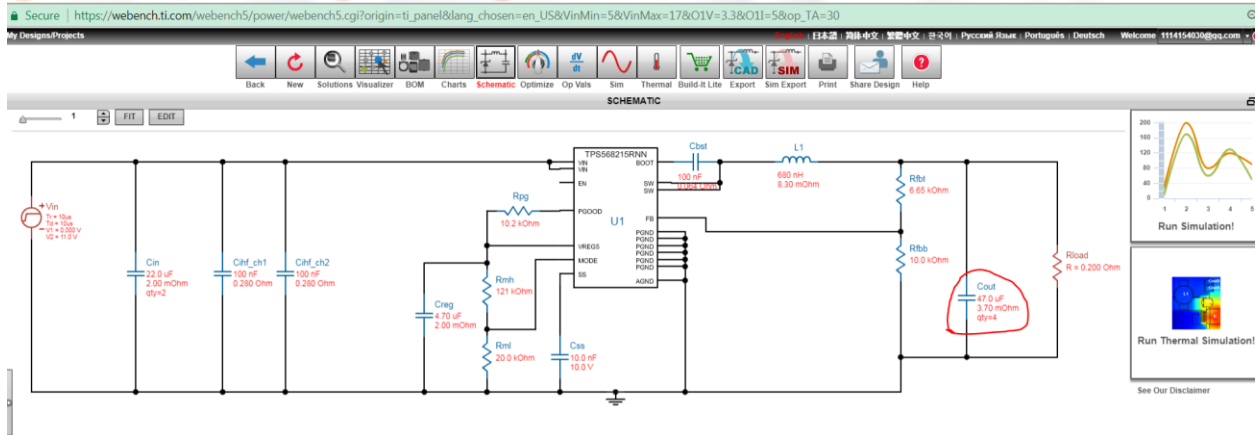
Probes: VV1, VV2, VV3, VV4, VV5, VV6, ICbst, ICin, ICinx, ICout, IL1, IRfb, IRbt, IVin1, IRload

Past Sims

Please note that EDIT schematic option is enabled only for startup simulations.

## How to change component value

1, click “schematic”, then double click the component that you want to change. For example “Cout”



2, search the value, then click “select”.

The screenshot shows the 'ALTERNATE PARTS' table in the webENCH interface. The table is titled 'Summary information for selected Component Cout:'. It contains columns for Manufacturer, Part Number, Cap (F), ESR (Ohm), VDC (V), Price, Qty, Qty Avail, Foot Print, Height, Power Diss, Total Cap (F), Total ESR (Ohm), Total IRMS (A), Total Price, and Total Foot. The table shows search results for component 'Cout' with a 'Select' button highlighted in red.

Manuf	Part Number	Cap (F)	ESR (Ohm)	VDC (V)	Price	Qty	Qty Avail	Foot Print	Height	Power Diss	Total Cap (F)	Total ESR (Ohm)	Total IRMS (A)	Total Price	Total Foot	
Enter Your Search Limits																
Upperbound											600u	2m	0.990k	50		
Lowerbound											600u	2m	0.499	1,429		
Target											600u	2m	0.499	1,429		
Select an alternate part for Component Cout: <input type="checkbox"/> show More Columns																
Edit	Manuf	Part Number	Cap (F)	ESR (Ohm)	VDC (V)	Price	Qty	Qty Avail	Foot Print	Height	Power Diss	Total Cap (F)	Total ESR (Ohm)	Total IRMS (A)	Total Pri	
Select	CUSTOM	CUSTOM	600u	2m	1,429	NA	1	0	0	0	1.652899123720	600u	2m	0.499		

3, in the BOM, you'll see the Cout value. Then click "sim".

The screenshot shows the BOM table with the following data:

Part	Manufacturer	Part Number	Quantity	Price	Attributes	Footprint	Top View	Edit
Cbat	Kemet	C805C104K5RACTU	1	\$0.01	Cap=100nF, ESR=0.064Ohm	7	•	Select Alternate Part
Cin1_ch1	AVX	08053C104KAT2A	1	\$0.01	Cap=100nF, ESR=0.280Ohm	7	•	Select Alternate Part
Cin1_ch2	AVX	08053C104KAT2A	1	\$0.01	Cap=100nF, ESR=0.280Ohm	7	•	Select Alternate Part
Cin	MuRata	GRM32ER81E220KE15L	2	\$0.16	Cap=22uF, ESR=2mOhm	15	•	Select Alternate Part
Cout	CUSTOM	CUSTOM	1	NA	Cap=800uF, ESR=2mOhm	NA	•	Select Alternate Part
Creg	MuRata	GRM21BR81E475MA12L	1	\$0.03	Cap=4.7uF, ESR=2mOhm	7	•	Select Alternate Part
Csa	MuRata	GRM033R61A103KA01D	1	\$0.01	Cap=10nF, ESR=0Ohm	2	•	Select Alternate Part
L1	Coilcraft	XFL5015-681MEB	1	\$0.83	L=680nH, DCR=8.3mOhm, IDC=6.5A	57	•	Select Alternate Part
Rmh	Vishay-Dale	CRCW040214KFKED	1	\$0.01	Resistance=121kOhm, Tolerance=1%, Power=0.063W	3	•	Select Alternate Part
Rml	Panasonic	ERJ6ENF2002V	1	\$0.01	Resistance=20kOhm, Tolerance=1%, Power=0.125W	7	•	Select Alternate Part
Rpp	Vishay-Dale	CRCW040210K2FKED	1	\$0.01	Resistance=10.2kOhm, Tolerance=1%, Power=0.063W	3	•	Select Alternate Part
U1	Texas Instruments	TP568215RNDR	1	\$1.50		20	•	Select Alternate Part
Rbb	Sesame Co Ltd	RR1220P-103-D	1	\$0.01	Resistance=10kOhm, Tolerance=0.5%, Power=0.1W	7	•	Select Alternate Part
Rbst	Vishay-Dale	CRCW040206K5FKED	1	\$0.01	Resistance=6.5kOhm, Tolerance=1%, Power=0.063W	3	•	Select Alternate Part

4, please select simulation type and run it.

The screenshot shows the simulation setup interface with the following details:

- Step 1 Select Simulation Type:** Load Transient
- Step 2 Start New Simulation:** Load Transient
- Active Design:** Current design state for Load Transient
- Probes:** ICout, IIC, IIn, IInductor, IOut, ISwitch, VIn, VOut, VSwitch
- Buttons:** CAD, SIM, Export, Print, Share Design, Help