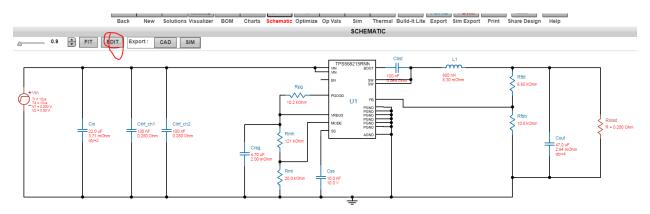
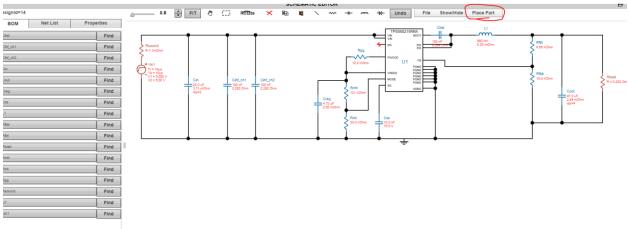
How to add component on Webench

1, when you open the design circuit, clicks "edit".



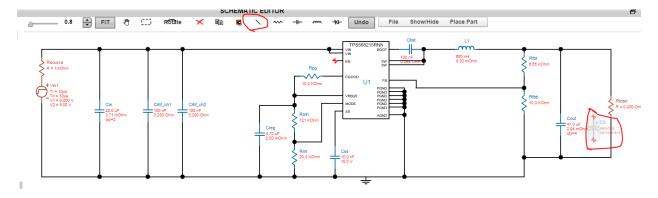
2, click "edit this design"

	Edit De	si	ign	×
	Change Schematic		Change Existing Components	
n1 Shri	Add/Edit wires, components and sources on your schematic and run spice simulations.		Change components and part numbers in your existing design	
	Copy Design #13 To:			- 11
	Design Name:			
	Edited - TP\$568215RNNR 5.0V-5.0V to 1.00V @ 5.0A - (#13)			- 11
_	Design Comment:			H
	This is a copy of Design #13			
	It may take up to 30 seconds to copy this design. Edit This Design Clear Cancel		Change BOM Components Cancel	

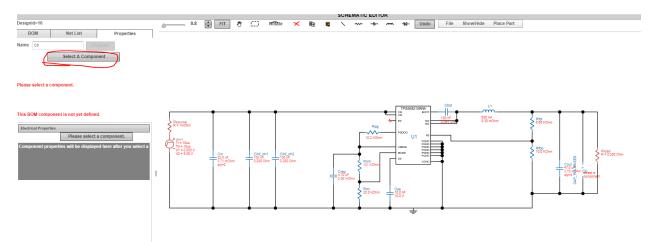


3, choose "place part". You can place cap, resister, diode, switch and so on.

4, choose the connect line button to connect the component.



5, choose the component added, then click "select a component"



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

						AL	LTERNATE PAR	TS								8		
Alternate Parts - Charts						Summary in	formation for sele	cted Component	Summary informat	tion for selected C	Component C8:							
ifacturer: Select All	Manuf	Part Number		ESR	VDC	Pr	rice Qty	Qty Avail	Foot Print	Height	Power Diss				5 Total Pric	Total Foot P		
Axis Update Y Axis			(F)	(Ohm)	(V)							(F)	(Ohm)	(A)				
Footprint (mm2)																		
	Let You Salvch Limits Capacitance (r) ESR (John) VDC (V																	
		earch Limits											Capacitance (F)		VDC (V)			
<u>('</u>	Upperbound												600u 🦯	2m 🥂	35 🧪	Search		
	Lowerbound	lowerbound													10 🦯	Restore Limits		
N N	Target	1											600u 🤌	2m 🧷	16 🥖			
	\searrow											_						
		Select an alternate part for Component C8: 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		
	Select	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"

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			C Z	BOM	Sim Export Sim Export Print Share D	esion Help		
			New Edit	BOM	BILL OF MATERIALS	esign neip		
port to: 🗶 Excel	BOM Cost: \$2.72 *Footprint	is component footprint plus 1mm per sid	le.		DILL OF MATERIALS			
art	Manufacturer	Part Number	Quantity	Price	Attributes	Footprint	Top View	Edit
ted	Kemet	C0805C104K5RACTU	1		Cap=100nF, ESR=0.064Ohm	7	100 100	Select Alternate Part
hf_ch1	AVX	08053C104KAT2A	1	\$0.01	Cap=100nF, ESR=0.280hm	7		Select Alternate Part
hf_ch2	AVX	08053C104KAT2A	1	\$0.01	Cap=100nF, ESR=0.280hm	7		Select Alternate Part
a	TDK	C1608X5R1A226M080AC	2	\$0.12	Cap=22uF, ESR=3.71mOhm	5		Select Alternate Part
out	MuRata	GRM31CR61A476KE15L	4	\$0.16	Cap=47uF, ESR=3.709mOhm	11	-	Select Alternate Part
e0	MuReta	GRM21BR61E475MA12L	1	\$0.03	Cap=4.7uF, ESR=2mOhm	7		Select Alternate Part
15	MuRata	GRM033R61A103KA01D	1	\$0.01	Cap=10nF, ESR=00hm	2	•	Select Alternate Part
	Coilcraft	XFL5015-681MEB	1	\$0.83	L=680nH, DCR=8.3mOhm, IDC=8.6A	67		Select Alternate Part
nh	Panasonic	ERJ-6ENF1213V	1	\$0.01	Resistance=121kOhm, Tolerance=1%, Power=0.125W	7		Select Alternate Part
nl	Panasonic	ERJ-6ENF2002V	1	\$0.01	Resistance-20kOhm, Tolerance-1%, Power-0.125W	7		Select Alternate Part
9	Vishay-Dale	CRCW040210K2FKED	1	\$0.01	Resistance=10.2kOhm, Tolerance=1%,	3		Select Alternate Part
	Texas Instruments	TP\$568215RNNR		\$1.50	Power=0.063W	20	-	
bb	Susumu Co Ltd	RR1220P.103.D			Resistance-10kOhm, Tolerance-0.5%, Power-0.1W	7		Select Alternate Part
bt	Vishay-Dale	CRCW04026K65FKED			Resistance=5.65kOhm, Tolerance=1%,	3		
					Power=0.063W			Select Alternate Part
3	CUSTOM	CUSTOM	1	NA	Cap=600uF, ESR=2mOhm	NA		Select Alternate Part

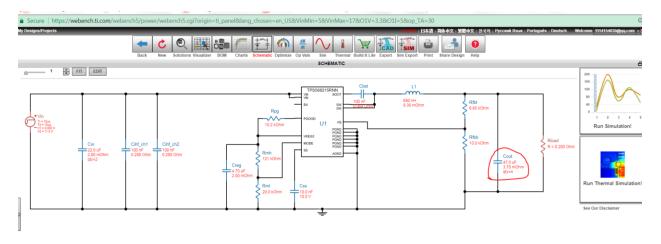
8, you'll find the component value has been changed. Then you can run simulation.

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Simulation Type : Startup Design : 32	Design : 32		
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Active Design : Current design state for Startup	Control Contro	4	
Probes Simulation Parameters			
VV1 VV2 VV3 VV4 VV5 VV6	ICbst ICin ICinx		
ICout IL1 IRfbb IRfbt IVin1 IRload			
	Past	1	

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".

Secure https://webench.ti.com/web	pench5/pow	ver/webench5	5.cgi?origin=	ti_panel⟨	_chosen=en_l	JS&VinMin=	=5&VinMax=1	7&O1V=3.38	kO1I=5&op_T	A=30						Q
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Alternate Parts - Charts							TERNATE PARTS		mmany information	n for selected Comp	onent Cout:					8
Filter by Manufacturer: Select All	Manuf	Part Numbe	r Cap	ESR	VDC		rice Qty	Qty Avail	Foot Print	Height	Power Dise	s Total Cap	Total ESR	Total IRM	S Total Price	Total Foot
Update X Axis Update Y Axis			(F)	(Ohm)	(V)							(F)	(Ohm)	(A)		
Total Cap																
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		Search Limits										C (F)	ESR (Ohm)	Irms (A)	VDC (V)	
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	Select	CUSTOM	CUSTOM	600u	2m	1.429	NA	1	0	0	0	1.6526890123720		2m	0.499	
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0 100 200 300 400 Total Cap (W)																

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

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					BILL	OF MATE	ERIALS									
Optimization Tuning	Export to: K Excel	BOM Cost: N/A "Foot;	rint is component footprint plus	1mm per sid	le.											
	Part	Manufacturer	Part Number	Quantity	Pric	e Attribu	ites			Footprint			T	op View		Edit
	Cbst	Kemet	C0805C104K5RACTU	1	\$0.0	01 Cap=10	00nF, ESR=0.	064Ohm		7						Select Alternate Part
Highest	Cihf_ch1	AVX	08053C104KAT2A	1	\$0.0	01 Cap=10	00nF, ESR=0.	280hm		7						Select Alternate Part
Efficiency	Cihf_ch2	AVX	08053C104KAT2A	1	\$0.0	01 Cap=10	00nF, ESR=0.	280hm		7						Select Alternate Part
	Cin	MuRata	GRM32ER61E226KE15L	2	\$0.1	18 Cap=22	uF. ESR=2m	Ohm		15						Select Alternate Part
BOM Cost Efficiency	Cout	CUSTOM	CUSTOM	-			00uF, ESR=2r			NA				•		Select Alternate Part
N/A 76	Creg	MuRata		1			7uF, ESR=2n			7						
Change Design Inputs			GRM21BR61E475MA12L	1						/				•		Select Alternate Part
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referred Frequency:	L1	Coilcraft	XFL5015-681MEB	1	\$0.1	13 L=680nl	H, DCR=8.3r	nOhm, IDC=8.5	A	57						Select Alternate Part
y:	Rmh	Vishay-Dale	CRCW0402121KFKED	1	\$0.0		ance=121kOt +0.063W	im, Tolerance=	1%,	3				-		Select Alternate Part
iz 🛛 🔻	Rml	Panasonic	ERJ-6ENF2002V	1	\$0.0	1 Resista	ance=20kOhr	n, Tolerance=1	%,	7						Select Alternate Part
Operation:	Rpg	Vishay-Dale	CRCW040210K2FKED	1	\$0.0	Power= 01 Resista		hm, Tolerance-	1%.	3						Select Alternate Part
imit:						Power=	0.063W									select Alternate Part
= 8A 🛛 🔻	U1	Texas Instruments	TPS568215RNNR	1	\$1.5	60				20						
Time (ms):	Rfbb	Susumu Co Ltd	RR1220P-103-D	1	\$0.0	11 Resista Power=		n, Tolerance=0.	.5%,	7						Select Alternate Part
1 ms < 10ms	Rfbt	Vishay-Dale	CRCW04026K65FKED	1	\$0.0	01 Resista Power=		hm, Tolerance-	1%,	3						Select Alternate Part
Update	L.					Powers	0.00344									
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Current Design: #37 IC TPS568215																
VinMin 5 V																
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4, please select simulation type and run it.

