90 minutes:	Duration
Overview of WEBENCH tools & new features	0:15
Amplifier Designer + Hands-on	0:10 + 0:05
Capacitive Sensing Designer	0:10 + 0:10
Filter Designer + Hands-on	0:05 + 0:10
Clock Architect + Hands-on	0:10 + 0:10
Coil Designer + Hands-on	0:10 + 0:10
Wrap Up	0:05
Optional Review Topics	
Interface Designer , Inductive Sensing Designer , Sensor AFE	

TEXAS INSTRUMENTS

Interactive Product Folder With Compare

1) Click Interactive Design

New! Interactive Design
Click to instantly view a schematic, charts, Bill of Materials, and Operating Values.

WEBENCH® Designer LM43603

	Min	Max	Range
Vin	10.00	25.00 V	3.5 to 36.0V
Vout		5.00 V	1.01 to 28.0V
Iout		3 A	≤ 3A
Ambient Temp		30 °C	-40 to 125°C

Lowest BOM Cost — Highest Efficiency
Smallest Footprint   1   5

Footprint	BOM Cost	Efficiency
238.0mm²	$3.85	89.0%

Open Design   Simulate Now

Enter Your Design Inputs

	Min	Max	Range
Vin	10.0	25.0 V	3.5 – 36.0 V
Vout		5.0 V	1.01 – 28.0 V
Iout		3.0 A	≤ 3.0 A
Amb. Temp		30.0 °C	-40.0 - 125.0 °C

Lowest BOM Cost — Highest Efficiency
Smallest Footprint   1   5

Footprint	BOM Cost	Efficiency
208 mm²	$3.73	88.9%

Update Interactive Design   Open Design   Simulate Now

Click the knob or **"Update Interactive Design"** to instantly view changes to your inputs.
To open this design in WEBENCH® Designer, click **"Open Design"** or click **"Simulate Now"** to go straight to simulations.
Click **"Compare Solution"** to interactively compare LM43603 with similar WEBENCH® solutions.
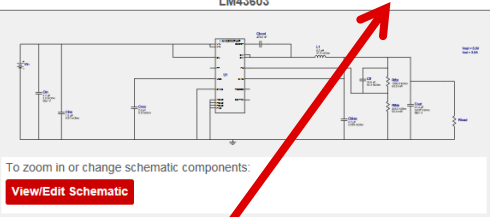
Compare Solution

View

Schematic
Charts
BOM
dV/dt Op Val
PCB

LM43603

To zoom in or change schematic components:
View/Edit Schematic

2) Click Compare Solution

3) Side by side comparison

WEBENCH® LM43603 Interactive Design

Enter Your Design Inputs

	Min	Max	Range
Vin	10.0	25.0 V	3.5 – 36.0 V
Vout		5.0 V	1.01 – 28.0 V
Iout		3.0 A	≤ 3.0 A
Amb. Temp		30 °C	-40 - 125 °C

	Footprint	BOM Cost	Efficiency
LM43603	208 mm²	$3.73	88.9%
TPS54331	274 mm²	$2.49	86.5%

Update Interactive Design

Click the knob or **"Update Interactive Design"** to instantly view changes to your inputs.
To open one or both of these designs in WEBENCH® Designer, click a red button below the part number you would like to open in WEBENCH® Designer.

View   LM43603   TPS54331   Compare a Different Device

Efficiency   Duty Cycle   Efficiency   Duty Cycle

Vin=25.0V Vin=17.5V Vin=10.0V

To view all charts:
Open Charts   Open Charts

TEXAS INSTRUMENTS

New tools/features

- **Amplifier Designer (Stealth)**

- **Coil Designer w/ support for LDC0805 stacked coil topology**

- **Enhanced Filter Designer improved frequency response and AC simulation results + 12 how to videos**

- **Enhanced Clock Architect with Spurs and lock time + video**

- **TINA-TI updated (no restriction for education) + 9 new how to videos**

- **WEBENCH Help documentation w/search (webench.ti.com/help)**

- **Unencrypted models on ti.com (ti.com/spicerack)**

- **Public share for designs/projects (Power/LED Arch, Clock Arch)**

- **Simulate Now**

TEXAS INSTRUMENTS

WEBENCH® Product Resources

Power Designer Parts Listing
Listing of all parts in Power WEBENCH. Now shows/filters more features.

SpiceRack search/filter to product list and download models

WEBENCH Visualizer search

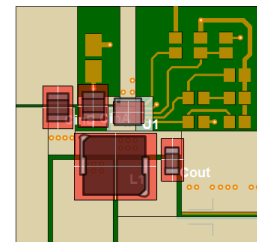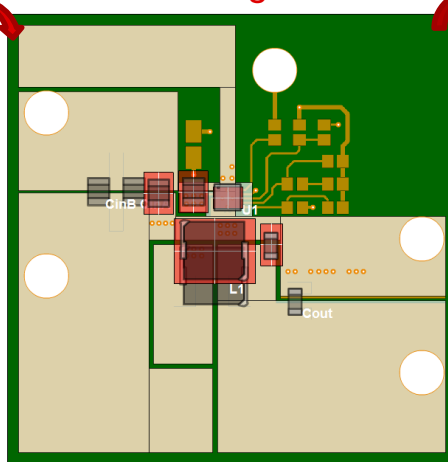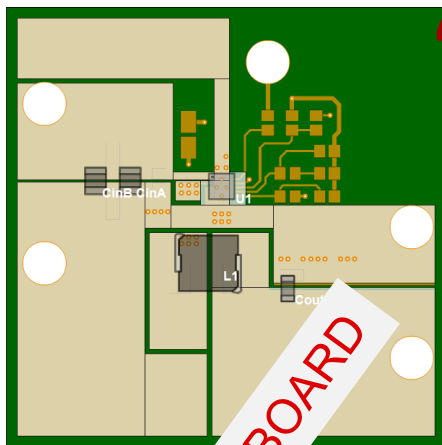**Unencrypted Models**
- Some available on web
- Others require CIP

The WebTHERM PCB Model

Move components closer together

Shrink Board
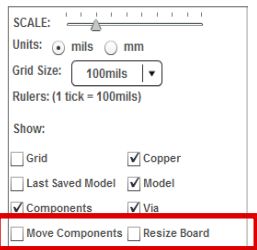
New buttons available

DEFAULT BOARD

Analyze thermal results

TOP   BOTTOM

TOP   BOTTOM

TEXAS INSTRUMENTS