

WEBENCH 设计软件的 myTI 注册流程

(针对邀请用户)

1. 邮箱收到WEBENCH邀请后，使用该邮箱注册TI账户，然后设计WEBENCH作品

The screenshot shows the Sina Mailbox interface. At the top right, the email address 'tingzi_003@sina.com' is displayed in a dropdown menu. Below the navigation bar, the email list shows a message from 'WEBENCH Team' received 1 minute ago, with a subject line 'Shared LMZ14202EXT Design#3 from 2792808284'. This email is highlighted with a red box. To the right of the screenshot, there is a red arrow pointing to the email address and the text '使用此邮箱注册TI账户'. Below this, there is a diagram titled '分栏阅读关闭' (Close Column Reading) showing a '设置' (Settings) dropdown menu with a '关闭分栏模式' (Close Column Mode) option circled in red. Below the diagram is the text '列表右上角的“设置”中可轻松切换阅读模式' (The 'Settings' in the top right corner of the list can easily switch the reading mode).

使用此邮箱注册TI账户

分栏阅读关闭



列表右上角的“设置”中可轻松切换阅读模式

2. 点击邮件中WEBENCH Designer 或者访问网址
(http://www.ti.com.cn/lstds/ti_zh/analog/webench/overview.page) 进入WEBENCH设计中心

收件夹 3
星标邮件
草稿夹 1
已发送
订阅邮件
垃圾邮件
更多分类
代收邮箱

Shared LMZ14202EXT Design#3 from 2792808284@qq.com
WEBENCH Team 于2015年5月22日(星期五) 下午14:19 发送给 tingzi_003...

Texas Instruments WEBENCH[®] Designer



xiaoyang zhang from HUBKE ELECTRONIC HAS created an LMZ14202EXT Design #3 for you using the Texas Instruments WEBENCH[®] Designer.

Hi tingzi_003@sina.com,

Click on the button below to access your LMZ14202EXT Design #3, LMZ14202EXTTZNOPB 14.0V-22.0V to 3.3V @ 2.0A, from xiaoyang.

[Receive Your Design](#)

Or you can access the following link to access your design:

3. 点击登录/注册，进入注册页面

TEXAS INSTRUMENTS 全部 搜索

产品 应用与设计 工具与软件 支持与社区 样片与购买 关于 TI

历史记录 购物车 简体中文 myTI

我的产品 您的历史记录中没有产品

我的技术文档 您的历史记录中没有文档

我的搜索 您的历史记录中没有搜索

TI 主页 > WEBENCH® 设计中心

WEBENCH® 设计中心

WEBENCH Design Environments 是独特而强大的软件工具，能在短短几秒内提供定制电源、照明、滤波、时钟和传感设计。这些易用的工具能帮助您创建、优化并模拟符合您独特规格的设计。同时，这些工具能让您在将设计投入生产之前在设计、系统和供应链层面进行基于价值的权衡。

设计和仿真工具

电源设计

- 电源设计器 (单电源)
- 电源架构 (多电源)
- 车用电源设计器
- 系统电源架构

WEBENCH® 设计器

My Designs

Filters	传感器	Interface	Reference
电源	FPGA/PLD	LED	Clocks

输入您的供电要求：

直流 交流

输入电压 最小 14.0 V 最大 22.0 V

输出电压 3.3 V 2.0 A

环境温度 30 °C

多负载 单输出

Power Architect **开始设计**

WEBENCH 使用说明

4. 填写注册信息，这里值得注意的是注册邮箱需是之前收到WEBENCH设计分享的邮箱



The image shows a registration form with several fields and annotations. A red box highlights the email address fields, and another red box highlights the company, surname, and name fields. A red arrow points to these fields with a note.

小杨

您的电子邮件地址
[Redacted]

确认电子邮件地址
[Redacted]

创建一个密码
[Redacted]

确认密码
[Redacted]

请用英文填写此信息

公司
Huake Electronic9

姓氏
zhang

名字
xiaoyang

请及时通过 myTI 邮件通知我有关 TI 产品与解决方案的信息。随时取消订阅。

注册并继续

通过创建一个帐户，即表明您同意TI 的网站使用条款 和隐私权政策。

此处填写之前收到 WEBENCH 分享的邮箱

这三项要填写英文或拼音

5. 注册提交后，邮箱会收到一封注册邮件，进入邮箱查看

我的产品 您的历史记录中没有产品

我的个人文档 您的历史记录中没有文档

我的收藏 您的历史记录中没有搜索

主页 > myTI 帐户

myTI 帐户

谢谢注册

请完成您的帐户设置：

- 验证电子邮件已发送至 [redacted]
- 如果几分钟后您仍然看不到此邮件，请检查您的垃圾邮件文件夹

看不到电子邮件？

重新发送确认电子邮件至

也可将确认电子邮件发送至下方列出的其他地址。
(该地址将成为您的登录电子邮件地址)

电子邮件地址



6. 邮箱中找到注册邮件，点击“现在验证您的电子邮件并登录”

发件人：myTI <myTI@list.ti.com> 
时 间：2015年5月21日(星期四) 下午5:06
收件人：<[redacted]>



张小杨,

您已成功注册 myTI 账户。您需要使用本电子邮件地址登录：<[redacted]>

若要完成激活您的账户，请点击下列链接验证您的电子邮件地址。

[>现在验证您的电子邮件并登录。](#)

谢谢！
德州仪器公司

欢迎来到 myTI，感谢您注册本网站。我们热切期待对您有更深入的了解。我们拥有大量您可资利用的设计资源，并在提供协助方面独具优势。



[请向我们介绍您自己 - 填写个人信息](#)



[采用 TI 参考设计库立即启动您的系统设计](#)



[选择并订阅新闻报](#)



[在移动设备上与我们保持](#)

7. 在左侧登陆栏输入注册邮箱和密码，登录刚才注册的TI账户，至此，TI账户已激活

myTI 帐户

myTI 用户?

您的电子邮件地址

您的 myTI 密码

记住密码 ⓘ

登录

[忘记密码?](#)

新用户? 免费注册:

国家

China (简体中文) ▼

邮政编码

公司

姓氏

名字

您的电子邮件地址

确认电子邮件地址



- 购买 IC、工具和软件
- 申请样片
- 获得在线技术支持
- 模拟WEBENCH 设计
- 设定产品及应用软件更新提醒
- 个性化您的网络体验

8. 在WEBENCH设计中心，选择自己要设计的作品类型，进入WEBENCH软件



TI 主页 > WEBENCH® 设计中心

WEBENCH® 设计中心



WEBENCH Design Environments 是独特而强大的软件工具，能在短短几秒内提供定制电源、照明、滤波、时钟和传感设计。这些易用的工具能帮助您创建、优化并模拟符合您独特规格的设计。同时，这些工具能让您在将设计投入生产之前在设计、系统和供应链层面进行基于价值的权衡。

设计和仿真工具

电源设计

[电源设计器 \(单电源\)](#)

[车用电源设计器](#)

[电源架构 \(多电源\)](#)

[系统电源架构](#)

WEBENCH® 设计器 My Designs

Filters	传感器	Interface	Reference
电源	FPGA/μP	LED	Clocks

输入您的供电要求：

直流 交流

输入电压 最小 V 最大 V

输出电压 V 输出电流 A

环境温度 °C

多负载 单输出

[? WEBENCH 使用说明](#)

9. 初次使用WEBENCH, 需要登陆TI账户, 如图, 点击右上角sign in.


The screenshot shows the TI WEBENCH Visualizer interface. In the top right corner, there is a notification that says "You are not logged in!" with a "Sign In" button circled in red and an arrow pointing to it. The interface is divided into several sections:

- WEBENCH 优化工具 (WEBENCH Optimization Tools):** A central knob for adjusting trade-offs between efficiency, footprint, and BOM cost. The current values are 296 for footprint, \$10.62 for BOM cost, and 90% for efficiency.
- 更改输入 (Change Inputs):** Settings for input voltage (14V), output voltage (3.3V), and current (2A).
- 功能特色筛选 (Feature Selection):** Checkboxes for various features like "Light Load" and "Automotive".
- 筛选结果 (Filter Results):** Summary statistics including efficiency (91%), BOM cost (\$20), and footprint (296mm²).
- 高阶图表 (Advanced Charts):** A scatter plot showing Efficiency vs. Footprint vs. BOM Cost. The plot highlights the optimal solution (smallest footprint and highest efficiency).
- 解决方案 (Solutions):** A table listing various power modules with their respective characteristics.

零件 (Part)	拓扑 (Topology)	WEBENCH 工具 (Tool)	原理图 (Schematic)	DCM 面积 (DCM Area)	设计考虑 (Design Considerations)	DCM 面积 (mm²)	DCM 成本 (Cost)	效率 (%) (Efficiency)	DCM 计算 (DCM Calc)	效率 (效率) (Efficiency)	Vout r-p (mV)	Lower Freq (Hz)	相位裕度 (deg) (Phase Margin)
LMX14203	开环设计 (Open Loop Design)			296mm²	3A SIMPLE SWITCHER Power Module	296	\$10.62	90%	12	444	17.32	NA	NA
LMX14203EIT	开环设计 (Open Loop Design)			296mm²	3A SIMPLE SWITCHER Power Module	296	\$19.14	90%	12	444	17.32	NA	NA
LMX14202	开环设计 (Open Loop Design)			296mm²	2A SIMPLE SWITCHER Power Module	296	\$8.60	88%	12	430	11.91	NA	NA
LMX14202EIT	开环设计 (Open Loop Design)			296mm²	2A SIMPLE SWITCHER Power Module	296	\$16.14	88%	12	430	11.91	NA	NA
LMX23603	开环设计 (Open Loop Design)			146mm²	36V, 3A SIMPLE SWITCHER	346	\$8.67	82%	5	800	1.18	53	50

10. 这时候会跳转如下一个页面，提示需要完善用户信息，点击[HERE](#)跳转至完善页面

The screenshot shows the Texas Instruments website's 'my.TI Account' page. At the top, there is a navigation bar with links for 'Products', 'Applications', 'Design Support', and 'Sample & Buy'. Below this, the page title 'my.TI Account' is displayed. A message titled 'WEBENCH® Login Error' states: 'WEBENCH® requires you to complete your profile to assure the security of your account, click [HERE](#) to proceed.' The word 'HERE' is circled in red, and a red arrow points from it towards the 'Benefits of my.TI' section. This section lists several benefits, including ordering free samples, joining the TI E2E Community, and managing newsletter subscriptions. To the right, there is a 'Cookies and privacy' section with links for 'How do I set my browser to accept cookies?' and 'What's your privacy policy?'. At the bottom of the page, there is a footer with navigation links and an RSS icon.

Products | Applications | Design Support | Sample & Buy 

11. 完善信息后，点击Save and continue，如图：

电话号码

办公室电话

+86



0439

5377214

Extension

办公室传真

(可选)

Country



Area

Phone number

Extension

移动电话

(optional)

Country



Area

Phone number

收件地址

地址栏 1

吉林省白山市华科电子科技有限公司

地址栏 2

可选

城市

白山市

州或省

吉林省

邮政编码

134600

国家或地区

China (简体中文)



Save and continue



12. 上一步点击提交按钮后，系统会自动跳转到WEBENCH设计页面，这时候提示已登录TI账户，如图：

The screenshot displays the WEBENCH Visualizer interface. At the top, there are navigation icons for 'New Design', 'Solutions', 'Visualizer', and 'Help'. The user is logged in as '192008204@qq.com'. The interface is divided into several sections:

- WEBENCH® 优化工具 (WEBENCH® Optimization Tools):** A gauge showing trade-offs between footprint, cost, and efficiency. Current values: 296 (Footprint), \$10.62 (Cost), 90% (Efficiency).
- 更改输入 (Change Inputs):** Input parameters for the design, including input voltage (3.3V), output voltage (2V), and current (2A).
- 功能特色筛选 (Feature Selection):** Checkboxes for various features like 'On/Off Switch', 'Adjustable Output Voltage', etc.
- 筛选结果 (Filter Results):** Summary statistics for the filtered results, including efficiency (91%), footprint (176mm²), and cost (\$20).
- 高阶图表 (Advanced Charts):** A scatter plot of Efficiency vs. Footprint vs. DCM Cost. A green circle highlights the optimal design point.
- 解决方案 (Solutions):** A table listing 11 design solutions with their respective parameters.

器件 (Part)	状态 (Status)	WEBENCH 工具 (Tool)	原理图 (Schematic)	DCM 面积 (DCM Area)	设计考虑 (Design Considerations)	DCM 最小面积 (mm²) (Min DCM Area)	DCM 成本 (Cost) (元) (Cost)	效率 (%) (Efficiency)	DCM 计算 (DCM Calc)	频率 (kHz) (Freq)	Vout p-p (mV) (Vout p-p)	纹波 (mV) (Ripple)	相位裕度 (deg) (Phase Margin)
LMZ14203	开始设计 (Start Design)			296mm²	3A SIMPLE SWITCHER Power Module	296	\$10.62	90%	12	444	17.32	NA	NA
LMZ14203KIT	开始设计 (Start Design)			296mm²	3A SIMPLE SWITCHER Power Module	296	\$19.74	90%	12	444	17.32	NA	NA
LMZ14202	开始设计 (Start Design)			296mm²	2A SIMPLE SWITCHER Power Module	296	\$8.40	88%	12	450	11.91	NA	NA
LMZ14202KIT	开始设计 (Start Design)			296mm²	2A SIMPLE SWITCHER Power Module	296	\$16.14	88%	12	450	11.91	NA	NA
LMZ23603	开始设计 (Start Design)			346mm²	36V, 3A SIMPLE SWITCHER	346	\$8.67	82%	5	800	1.18	53	50

13. 设计完作品后，可以通过Export导出为CAD/PCB文件，也可通过Design Documentation生成pdf文件，如图：

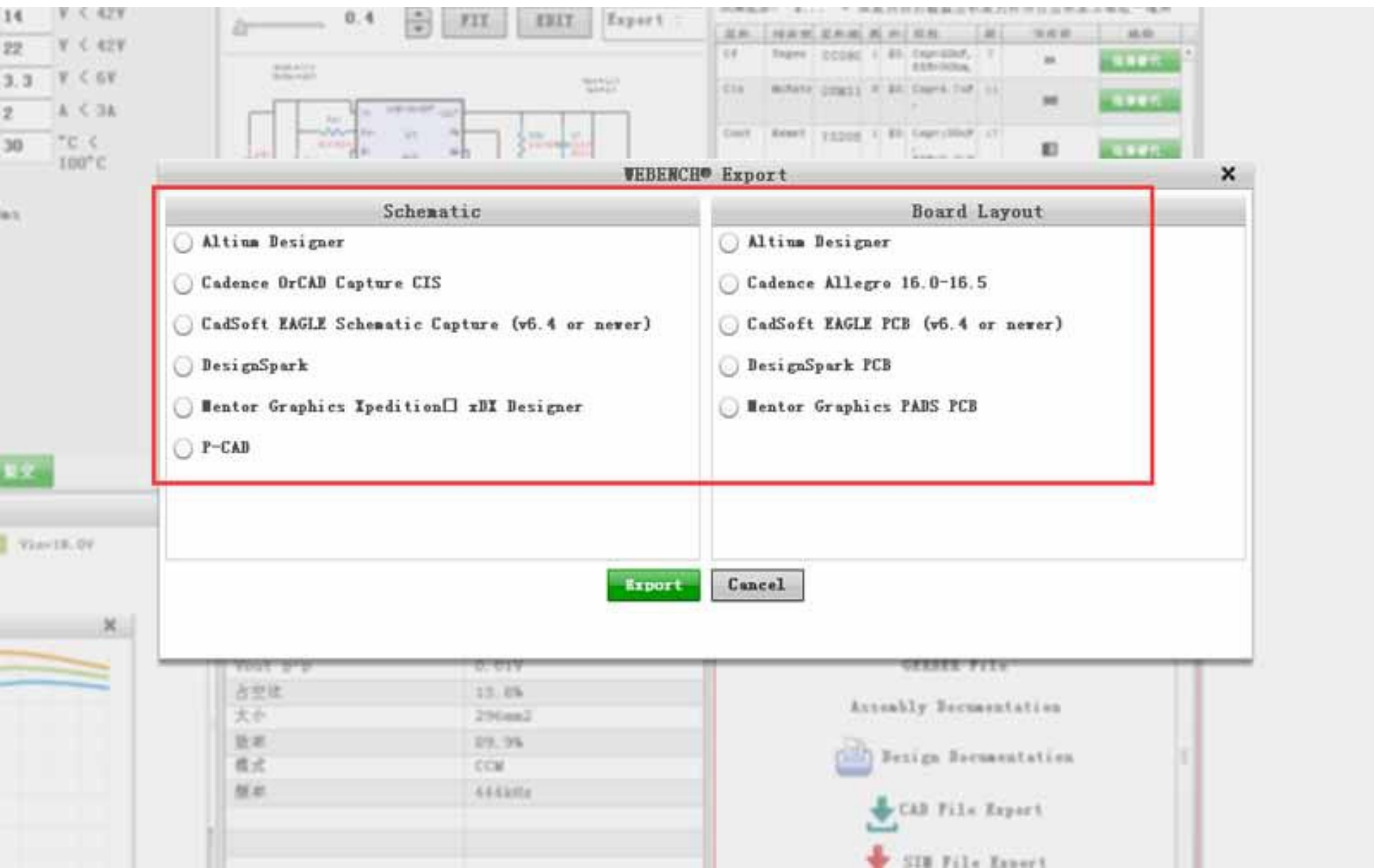
The screenshot displays the WEBENCH software interface with several key sections:

- Top Bar:** Includes navigation icons (Back, New Design, Solution, Visualize) and a central toolbar with icons for BOM, Tables, Schematic, Operating Values, Simulation, Thermal Simulation, Purchase, Edit, **Export** (circled in red), Sim Export, Print, Share Design, and Help.
- Left Panel (Change Input):** Lists input parameters such as Vin_min (6V), Vin_max (6V), Output Voltage (0.8V), Output Current (0A), and ambient temperature (-40°C).
- Center Panel (Schematic):** Shows a circuit diagram with a transformer, a power MOSFET, and a diode.
- Right Panel (Material List):** A table listing components like capacitors and resistors with their values and units.
- Bottom Left (Table):** Displays operating values for the design, including IC temperature, junction temperature, output current, and efficiency.
- Bottom Right (Design Summary):** A red header section titled "您的整个设计" (Your entire design) listing options like "Design Documentation" (circled in blue), "CAD File Export", and "SIM File Export".

Annotations on the right side of the image provide instructions:

- A red arrow points to the **Export** button in the top toolbar, with the text: "点击Export可以生成CAD压缩文件" (Clicking Export can generate CAD compressed files).
- A blue arrow points to the **Design Documentation** option in the bottom right panel, with the text: "点击Design Documentation可以生成pdf文件" (Clicking Design Documentation can generate pdf files).

13-1. 上一步点击Export按钮后，跳转至此页面，可以生成多种CAD文件和PCB文件



13-2. 上一步点击Design Documentation按钮后，跳转至此页面，如图所示保存为pdf文件



WEBENCH® Design Report

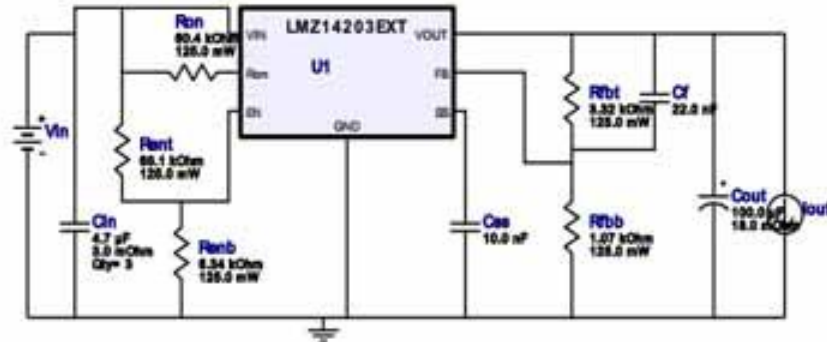
Design : 4377555/1 LMZ14203EXTT2/NOPB
LMZ14203EXTT2/NOPB 14.0V-22.0V to 3.30V @ 2.0A

VinMin = 14.0V
VinMax = 22.0V

VinMin = 14.0V
VinMax = 22.0V
Vout = 3.3V
Iout = 2.0A

Device = LMZ14203EXTT2/NOPB
Topology = Buck
Created = 5/21/15 2:16:12 AM
BOM Cost = \$19.14
Footprint = 296.0 mm²
BOM Count = 12
Total Pd = 0.74W

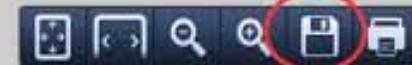
Vout = 3.3V
Iout = 2.0A



Electrical BOM

#	Name	Manufacturer	Part Number	Properties	Qty	Price	Footprint
1.	Cf	Yageo America	CC0805KRX7R9BB223 Series= X7R	Cap= 22.0 nF VDC= 50.0 V IRMS= 0.0 A	1	\$0.01	0805 7 mm ²
2.	Cin	MuRata	GRM31CR71H475KA12L Series= X7R	Cap= 4.7 uF ESR= 3.0 mOhm VDC= 50.0 V IRMS= 4.98 A	3	\$0.07	1206 11 mm ²
3.	Cout	Kemet	T520B107M006ATE018 Series= 249	Cap= 100.0 uF ESR= 18.0 mOhm VDC= 6.3 V IRMS= 2.7 A	1	\$0.56	3528-21 17 mm ²
4.	Css	MuRata	GRM216R71H103KA01D Series= X7R	Cap= 10.0 nF VDC= 50.0 V	1	\$0.01	0805 7 mm ²

点击此处保存为pdf文件



14. 点击分享设计，可以将本设计通过Email形式分享给自己的好友

The screenshot displays the WEBENCH software interface with several key sections:

- Top Menu Bar:** Includes navigation icons (Back, New Design, Solution, Visualizer) and analysis tools (BOM, Graphs, Schematic, Work Values, Tools, Thermal, Procurement, Edit, Report, Sim Report, Print, **Share Design**, Help). The "Share Design" icon is circled in red.
- Summary (总结):** A central panel showing a schematic diagram of a power converter circuit.
- Material List (材料清单):** A table listing components such as capacitors, resistors, and diodes with their values and quantities.
- Operating Values (Operating Values):** A table providing key performance metrics:

Item	Value
IC Tj	44.3degC
ICThetaJA	19.3degC/W
IOU7_OP	2A
VIN_OP	22V
Vout p-p	0.01V
占空比	15.8%
大小	29mm2
效率	89.9%
模式	CCM
频率	44kHz
- Efficiency Graph (图表):** A line graph showing efficiency (%) versus load current (A) for three different input voltages (14.0V, 18.0V, 22.0V).
- Design Summary (您的整个设计):** A sidebar on the right containing links for downloading files and sharing the design. The "Share this Design" link is circled in red.

Red arrows point from the "Share Design" icon in the top menu to the "Share this Design" link in the sidebar, with the text: "点击这两处任意一个都可以将设计分享给朋友".