

Products

Applications & designs

Tools & software

Support & community

Sample & buy

About TI

History

Cart

English

TPS92310 - 220VAC, 8W Isolated Flyback LED Driver with PFC

(ACTIVE) PMP8005

Description & Features

Technical Documents

Support & Community

Order Now

View the Important Notice for TI Designs covering authorized use, intellectual property matters and disclaimers.

Description

The main purpose of this reference design is to demonstrate a high performance and compact size offline flyback LED driver with PFC based on TPS92310. This LED driver is designed for converting an AC input to a regulated LED current. The operating conditions and performance of the reference design are as follows: •198VAC to 264VAC, 50Hz Input Voltage •18V to 22V LED Voltage •350mA Regulated LED Current •84% Typical System Efficiency •0.9 Typical Power Factor •Output Short-Circuit and Open-Circuit Protection

TI's Standard Terms and Conditions for Evaluation Modules apply.



Top View

Fully assembled board (shown above) developed for testing and performance validation only, not available for sale.

Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

Parametrics

	PMP8005
Vin (Max) (V)	264
Vin (Min) (V)	198
Vout (Nom) (V)	20
Iout (Max) (A)	.35
Output Power	7
Isolated/Non-Isolated	Non-Isolated
Input Type	AC
Topology	Flyback- PFC

TI Devices (1)

Order samples, get tools and find more information on the TI products in this reference design.

Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
TPS92310	Off-Line Primary Side Sensing LED Driver with PFC	LED Driver	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package Pins	CAD File (.bxl)	STEP Model (.stp)
TPS92310	VSSOP (DGS) 10	Download	Download

Texas Instruments and Accelerated Designs Inc. have collaborated together to provide TI customers with schematic symbols and PCB layout footprints for TI products.

Step 1: Download and install the Ultra Librarian software ZIP: 62MB

Step 2: Download the Symbol and Footprint .bxl file.

- read more -

Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP8005 Test Results		PDF	602	23 Mar 2012	25

Design Files (5)

Title	Abstract	Type	Size (KB)	Date	Views
PMP8005 PCB (Bottom)		PDF	176	23 Mar 2012	15
PMP8005 PCB (Top)		PDF	166	23 Mar 2012	13
PMP8005 Gerber		ZIP	212	23 Mar 2012	13
PMP8005 BOM		PDF	141	23 Mar 2012	23
PMP8005 Schematic		PDF	213	23 Mar 2012	45

Support & Community

TI E2E™ community

TI E2E™ Community

As a member of my.TI you can join the **TI E2E™ Community** where you can ask questions, share ideas and collaborate with fellow engineers and TI experts

Contents are provided "AS IS" by the respective TI and Community contributors and do not constitute TI specifications. See [Terms of use](#).

Engage in the Community

• Amplifiers

• Broadband RF/IF & Digital Radio

• Clocks & Timers

• Data Converters

• DLP® & MEMS

• Interface

• Logic

• Power Management

• Wireless Connectivity

Wikis

Visit the TI Wiki

Videos

Leading source for power reference designs

TI's industry leading PowerLab™ reference design library has now evolved into TI Designs. This video explains how to use the enhanced selection tool within TI Designs to quickly and efficiently search

Posted: 08-Oct-2014
Duration: 1:00
Views: 707
Tags: power management, power reference design, power management solutions, powerlab, power management designs, power design solutions, ti designs-power, ti designs, portable powerline power
★★★★☆
Click here to jump start your design with TI Designs for Power Management

Related Videos

Now Playing

ns

Leading source for power reference designs

Simplifying LED Lamp Design

TI Designs: Power Management AC Line-Sense & Low-Ripple Current

Play

How to simplify your LED Lighting Lamp Designs

Other Support

- TI E2E Community
- Contact Technical Support
- Training

Your History

Products You Recently Viewed

- tps2378evm-105
- tps59650evm-753
- PMP8004
- tps43340evm
- PMP5509