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LM3448 – 220VAC, 8W Dimmable Isolated

(ACTIVE) PMP8001

Description & Features

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Description

This demonstration board highlights the performance of a LM3448 based Flyback LED driver solution that can be used to power a single LED string consisting of 6 / 7 series connected LEDs from an 198 VRMS to 264 VRMS, 50 Hz input power supply. The integrated high-voltage and low Rds(on) MOSFET reduces design complexity while improving LED driver efficiency. This is a two-layer board using the bottom and top layer for component placement. The demonstration board can be modified to adjust the LED forward current, the number of series connected LEDs that are driven and the switching frequency. Refer to the LM3448 datasheet for detailed instructions. A bill of materials is included that describes the parts used on this demonstration board

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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

	PMP8001
Vin (Max) (V)	264
Vin (Min) (V)	198
Vout (Nom) (V)	20
Iout (Max) (A)	.35
Output Power	7
Isolated/Non-Isolated	Isolated
Input Type	AC
Topology	Flyback- Quasi Resonant

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
LM3448	Phase Dimmable Offline LED Driver with Integrated FET	LED Driver	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package Pins	CAD File (.bxl)	STEP Model (.stp)
LM3448	SOIC (D) 16	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.

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Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP8001 Test Results		PDF	373	22 Mar 2012	13

Design Files (5)

Title	Abstract	Type	Size (KB)	Date	Views
PMP8001 PCB (Top)		PDF	187	22 Mar 2012	9
PMP8001 PCB (Bottom)		PDF	187	22 Mar 2012	10
PMP8001 Gerber		ZIP	248	22 Mar 2012	8
PMP8001 Bill of Materials		PDF	141	22 Mar 2012	18
PMP8001 Schematic		PDF	236	22 Mar 2012	26

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