LED driver 48V@0.7A

(ACTIVE) PMP4501

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Description

The PMP4501 is a constant current LED driver, delivering 10V to 48V with a constant current of 700mA. The output current is adjustable with a single resistor; the input voltage is the high line.

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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

	PMP4501
Vin (Max) (V)	265
Vin (Min) (V)	180
Vout (Nom) (V)	48
Iout (Max) (A)	.7
Output Power	33.6
Isolated/Non-Isolated	Isolated
Input Type	AC
Topology	PFC- Flyback

TI Devices (3)

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Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
LM158	Dual General-Purpose Operational Amplifier	Operational Amplifier (Op Amp)	Sample & Buy	View Design Kits & Evaluation Modules
TL103W	Dual OpAmp With Internal Reference	Operational Amplifier (Op Amp)	Sample & Buy	View Design Kits & Evaluation Modules
UCC28810	LED Lighting Power Controller	LED Driver	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
LM158	CDIP (JG) | 8	Download	-
	LCCC (FK) | 20	Download	-
TL103W	SOIC (D) | 8	Download	Download
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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
PMP4501 Test Results		PDF	346	15 Aug 2011	35

Design Files (3)

Title	Abstract	Type	Size (KB)	Date	Views
PMP4501 PCB		PDF	263	17 Oct 2011	34
PMP4501 Schematic		PDF	86	17 Oct 2011	67
PMP4501 BOM		PDF	30	01 Aug 2011	43

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