50W PFC LED Drive Transition Mode Flyback

(ACTIVE) PMP2698

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Description

This active power factor correction, transition mode, isolated flyback generates a constant current of 3.5A on an LED string from high line (180 to 264Vac). The output accepts a voltage range of 8 to 28V. The open LED protection (overvoltage) is set to 27V maximum.

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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

	PMP2698
Vin (Max) (V)	265
Vin (Min) (V)	180
Vout (Nom) (V)	24
Iout (Max) (A)	3.5
Output Power	84
Isolated/Non-Isolated	Isolated
Input Type	AC
Topology	Flyback- PFC

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
UCC28810	SOIC (D) | 8	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
PMP2698 Test Results		PDF	356	17 Oct 2011	41

Design Files (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP2698 BOM		PDF	30	17 Oct 2011	34
PMP2698 Schematic		PDF	85	17 Oct 2011	68

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