

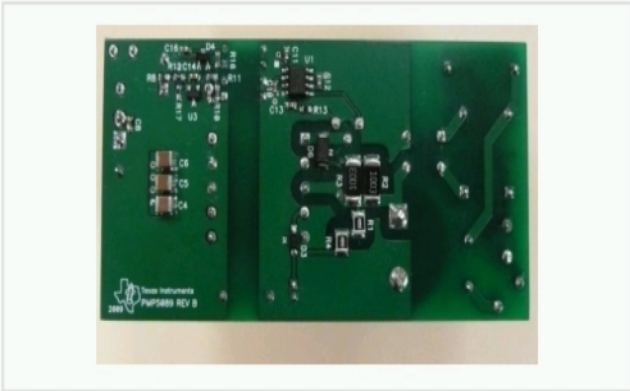
(ACTIVE) PMP5089

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Description

The PMP5089 reference design uses the UCC28600 green-mode controller to generate a 12V/40W regulated output. The quasi-resonant switching of the UCC28600 allows this low-cost design to achieve a maximum load efficiency is over 87%, while the no load losses are less than 250mW.

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



7 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.

Parametrics

	PMP5089
V _{in} (Min) (V)	85
V _{in} (Max) (V)	265
V _{out} (Nom) (V)	12
I _{out} (Max) (A)	3.3
Output Power	39.6
Isolated/Non-Isolated	Isolated
Input Type	AC
Topology	Flyback- Quasi Resonant Flyback- DCM

TI Devices (2)

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
TL431	Adjustable Precision Shunt Regulator	Voltage Reference	Sample & Buy	Not Available
UCC28600	8-Pin Quasi Resonant Flyback Green Mode Controller	AC/DC and Isolated DC/DC Power Supply	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package Pins	CAD File (.bxl)	STEP Model (.stp)
TL431	 SOT (DBZ) 3	Download	Download
	 TO-92 (LP) 3	Download	Download
	 SIP (PK) 3	Download	-
	 SOT (DBV) 5	Download	Download
	 SOT (DCK) 6	Download	Download
	 SOIC (D) 8	Download	Download
	 PDIP (P) 8	Download	Download
	 SOP (PS) 8	Download	-
	 TSSOP (PW) 8	Download	-
UCC28600	 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.

[- read more -](#)

Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
 PMP5089 Test Results		PDF	1800	15 Aug 2011	17

Design Files (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP5089 BOM		PDF	64	02 Aug 2011	17
PMP5089 Schematic		PDF	65	02 Aug 2011	24

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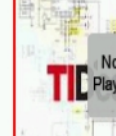
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Tags: power management, power reference design, power management solutions, powerlab, power management designs, power design solutions, ti designs-power, ti designs, portable powerline power

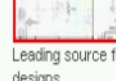
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Power Tip 58: Power supply grounding, which camp are you in?

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Your History

BM4594

- PMP9204
- PMP10001.2
- PMP4304
- PMP10001.1