Flyback Converter (57V@0.7A) for PoE Power Sourcing (PSE)

(ACTIVE) PMP5250

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Description

The PMP5250 reference design uses the UCC28610 green-mode flyback controller to generate an isolated 57V/40W output from a universal AC input source. This supply is designed for use as a PoE power source. The maximum load efficiency approaches 90%, while the no load power consumption is less than 1/3W.

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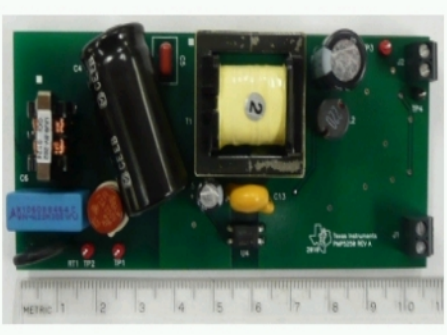

Top of Board | Flyback Controller Reference Design

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

	PMP5250
Vin (Min) (V)	85
Vin (Max) (V)	265
Vout (Nom) (V)	57
Iout (Max) (A)	.7
Output Power	39.9
Isolated/Non-Isolated	Isolated
Input Type	AC
Topology	Flyback- DCM Flyback- Quasi Resonant POE

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
UCC28610	12-65W Green-mode Flyback Power Supply 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)
UCC28610	SOIC (D) | 8	Download	Download
	PDIP (P) | 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

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Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP5250 REVA TEST RESULTS		PDF	1541	16 Dec 2010	17

Design Files (3)

Title	Abstract	Type	Size (KB)	Date	Views
PMP5250 REVA SCHEMATIC		PDF	77	16 Dec 2010	47
PMP5250 Gerber		ZIP	124	16 Dec 2010	12
PMP5250 REVA BILL OF MATERIALS		PDF	23	16 Dec 2010	37

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