Isolated discontinuous mode isolated flyback 3.3V @ 1.5A

(ACTIVE) PMP6516

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Description

This compact and low-cost (5W) isolated flyback regulator produces a 3.3V output from a 48V input, such as Telecom. A full-load efficiency of 82% was achieved from a 48V nominal input.

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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

	PMP6516
Vin (Max) (V)	60
Vin (Min) (V)	40
Vout (Nom) (V)	3.3
Iout (Max) (A)	1.5
Output Power	4.95
Isolated/Non-Isolated	Isolated
Input Type	DC
Topology	Flyback- Non Sync 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
TLV431A	Low Voltage Adjustable Precision Shunt Regulator	Voltage Reference	Sample & Buy	Not Available
TPS40210	Wide Input Range Current Mode Boost Controller	Controller (External Switch)	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
TLV431A	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
TPS40210	HVSSOP (DGQ) | 10	Download	Download
	VSON (DRC) | 10	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
PMP6516 Test Results		PDF	1062	16 Aug 2011	16

Design Files (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP6516 BOM		PDF	63	04 Aug 2011	18
PMP6516 Schematic		PDF	58	04 Aug 2011	26

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