36-75VDC Input, 32V/3A output with Flyback configuration

(ACTIVE) PMP4992

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Description

The PMP4992 reference design provides an isolated 32V at 96W (3A) from a standard 48V telecom bus with 91% efficiency. This design uses the TPS40210 to control a diode rectified flyback converter for a low cost and efficient design.

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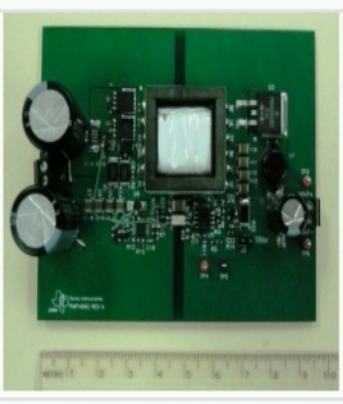

Top view

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

	PMP4992
Vin (Max) (V)	75
Vin (Min) (V)	36
Vout (Nom) (V)	32
Iout (Max) (A)	3
Output Power	96
Isolated/Non-Isolated	Isolated
Input Type	DC
Topology	Flyback- Non Sync

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
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)
TPS40210	HVSSOP (DGQ) | 10	Download	Download
	VSON (DRC) | 10	Download	-

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Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP4992 Test Results		PDF	2487	11 Jan 2012	23

Design Files (4)

Title	Abstract	Type	Size (KB)	Date	Views
PMP4992 Gerber		ZIP	118	11 Jan 2012	13
PMP4992 PCB		PDF	79	11 Jan 2012	16
PMP4992 BOM		PDF	30	11 Jan 2012	23
PMP4992 Schematic		PDF	80	11 Jan 2012	32

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