3V-6V Input, 5V/0.5A 1MHz Isolated Flyback

(ACTIVE) PMP4190

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Description

This reference design uses the TPS61175 boost converter to drive a flyback power stage. With its integrated MOSFET, the TPS61175 reduces the circuit complexity and footprint. In addition, operating at 1MHz reduces the size of the passive components.

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Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

Parametrics

	PMP4190
Vin (Max) (V)	6
Vin (Min) (V)	3
Vout (Nom) (V)	5
Iout (Max) (A)	.5
Output Power	2.5
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
TPS61175	3-A High Voltage Boost Converter with Soft-start and Programmable Switching Frequency	Converter (Integrated Switch)	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
TPS61175	HTSSOP (PWP) | 14	Download	Download

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Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP4190 Test Results		PDF	535	14 May 2012	32

Design Files (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP4190 BOM		PDF	27	14 May 2012	34
PMP4190 Schematic		PDF	56	14 May 2012	64

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