6.5V/2A Boost Converter Reference Design

(ACTIVE) PMP10026

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Key Document

- PMP10026 Test Results (PDF 608 KB)
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6.5V /2A Boost Converter Reference Design Top of Board

Description

This reference design provides an output voltage of 6.5V from an input voltage range of 3V to 6.5V.

Features

- For Automove Applications
- Low Parts Count
- Excellent Load and Line Regulation
- Hold up PSU for Dashboard

Fully assembled board (shown above) developed for testing and performance validation only, not available for sale.

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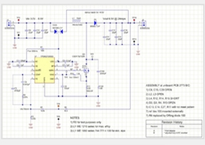
Schematic/Block Diagram

Quickly understand overall system functionality.



Download Schematic

Test Data

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Design Files

Download ready-to-use system files to speed your design process. Get Viewer.

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Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

Parametrics

	PMP10026
Vin (Min) (V)	3
Vin (Max) (V)	6.5
Vout (Nom) (V)	6.5
Iout (Max) (A)	2
Output Power (W)	13
Isolated/Non-Isolated	Non-Isolated
Input Type	DC
Topology	Boost- Non Sync

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
CSD17527Q5A	30V, N-Channel NexFET™ Power MOSFETs	Power MOSFET	Sample & Buy	View 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)
CSD17527Q5A	VSONP (DQJ) | 8	Download	-
TPS40210	HVSSOP (DGQ) | 10	Download	-
	VSON (DRC) | 10	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	TI Recommends
PMP10026 Test Results		PDF	608	23 Sep 2015	10	✓

Design files (5)

Title	Abstract	Type	Size (KB)	Date	Views
PMP10026 Gerber (from PMP2773)		ZIP	66	23 Sep 2015	6
PMP10026 CAD Files		ZIP	77	23 Sep 2015	4
PMP10026 PCB (from PMP2773)		PDF	49	23 Sep 2015	10
PMP10026 BOM		PDF	79	23 Sep 2015	22
PMP10026 Schematic		PDF	237	23 Sep 2015	21

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