9.5V @ 1.5A Automotive Boost Converter

(ACTIVE) PMP8515

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Description

This design is a boost converter for automotive applications to boost the battery voltage to 9.5V @ 1.5A during cranking. It can withstand input peaks up to 40V.

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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

	PMP8515
Vin (Min) (V)	4
Vin (Max) (V)	10
Vout (Nom) (V)	9.5
Iout (Max) (A)	1.5
Output Power	14.25
Isolated/Non-Isolated	Non-Isolated
Input Type	DC
Topology	Boost- 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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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
PMP8515 Test Results		PDF	897	11 Jan 2013	14

Design Files (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP8515 BOM		PDF	16	11 Jan 2013	10
PMP8515 Schematic		PDF	80	11 Jan 2013	12

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