7.5Vin to 10Vin; 11.5Vout @ 65A; 4-Phase Synchronous Boost Converter

(ACTIVE) PMP7937

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Description

A 4-phase synchronous boost converter that accepts an input voltage of 7.5Vin to 10Vin and provides an output of 11.5Vout capable of delivering 65A.

Synchonous Boost Converter Reference Design

TI Devices (5)

Get more information on the TI products in this reference design.

Part Number	Name	Product Family
CD4017B	CMOS Decade Counter with 10 Decoded Outputs	Specialty Logic
CSD18501Q5A	40V N-Channel NexFET Power MOSFETs, CSD18501Q5A	Power MOSFET
LM5122	Wide Vin Synchronous Boost Controller with Multi-phase Capability	Controller (External Switch)

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Bill of Materials

Find the complete list of components in this reference design.

Download BOM

CAD/CAE Symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
CD4017B	SOIC (D) | 16	Download	Download
	CDIP (J) | 16	Download	-
	PDIP (N) | 16	Download	-
	SOP (NS) | 16	Download	-
	TSSOP (PW) | 16	Download	Download
LP2951	SOIC (D) | 8	Download	Download
	VSSOP (DGK) | 8	Download	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.

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Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP7937 Test Results		PDF	1270	10 Sep 2013	48

More Literature (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP7937 BOM		PDF	111	10 Sep 2013	43
PMP7937 Schematic		PDF	223	10 Sep 2013	55

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Videos

Power Tip 58: Power supply grounding; which camp are you in?

In this power tip video senior applications engineer, Robert Kollman, discusses different methods for grounding power supply.

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