

10.8Vin to 13.2Vin; 48Vout @ 7.3A; 4-Phase Synchronous Boost Converter

(ACTIVE) PMP7944

Description & FeaturesTechnical DocumentsSupport & Community

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Description

A 4-phase synchronous boost converter that accepts an input voltage of 10.8Vin to 13.2Vin providing an output of 48Vout capable of delivering 7.3A.



Top of Board | Synchronous Boost Converter

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
CSD18531Q5A	60V N-Channel NexFET Power MOSFETs, CSD18531Q5A	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
PMP7944 Test Results		PDF	842	10 Sep 2013	59

More Literature (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP7944 BOM		PDF	111	10 Sep 2013	70
PMP7944 Schematic		PDF	222	10 Sep 2013	103

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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.

Posted: 27-Oct-2013

Duration: 3:30

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