Buck Converter with 5V Input to -5V@500mA Output

(ACTIVE) PMP4748

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Description

The buck converter here is used to work in buck-boost configuration and convert a 4.75V to 5.25V to a -5V @ 500mA.

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Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

Parametrics

	PMP4748
Vin (Max) (V)	5.25
Vin (Min) (V)	4.75
Vout (Nom) (V)	-5
Iout (Max) (A)	.5
Output Power	2.5
Isolated/Non-Isolated	Non-Isolated
Input Type	DC
Topology	Buck Boost- Inverting

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
TPS54232	3.5V to 28V Input, 2A, 1MHz Step-Down Converter with Eco-mode	Converter (Integrated Switch)	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
TPS54232	SOIC (D) | 8	Download	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
PMP4748 Test Results		PDF	343	24 Oct 2011	27

Design Files (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP4748 Schematic		PDF	50	24 Oct 2011	28
PMP4748 BOM		PDF	28	24 Oct 2011	24

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