Mid Input Voltage Synchronous Buck Converter (28Vin to 5V@8A) Reference Design

(ACTIVE) PMP5832.1

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Description

The PMP5832 reference design provides a number of outputs that were designed to complete an entire system. These parts can be used together or individually for a number of different applications. These could be Automotive, Industrial, Consumer, etc. The schematic, test report and associated board files contain information for all 7 of the outputs.

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Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

Parametrics

	PMP5832.1
Vin (Max) (V)	32
Vin (Min) (V)	24
Vout (Nom) (V)	5
Iout (Max) (A)	8
Output Power	40
Isolated/Non-Isolated	Non-isolated
Input Type	DC
Topology	Buck- Synchronous

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
TPS40055	Wide Input (8V-40V) up to 1MHz Frequency Synchronous Buck Controller, source/sink	Controller (External Switch)	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
TPS40055	HTSSOP (PWP) | 16	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
PMP5832 Test Results		PDF	11037	16 Aug 2011	21

Design Files (4)

Title	Abstract	Type	Size (KB)	Date	Views
PMP5832 Gerber		ZIP	251	18 Aug 2011	11
PMP5832 PCB		PDF	368	18 Aug 2011	15
PMP5832 BOM		PDF	67	02 Aug 2011	31
PMP5832 Schematic		PDF	224	02 Aug 2011	44

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