Mid Input Voltage Synchronous Buck Converter (28Vin to 3.3V@10A) Reference Design

(ACTIVE) PMP5832.2

View the Important Notice for TI Designs covering authorized use, intellectual property matters and disclaimers.

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.

TI's Standard Terms and Conditions for Evaluation Modules apply.

Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

Parametrics

	PMP5832.2
Vin (Max) (V)	32
Vin (Min) (V)	24
Vout (Nom) (V)	3.3
Iout (Max) (A)	10
Output Power	33
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.

- read more -

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

Support & Community

TI E2E™ community

TI E2E™ Community

As a member of my.TI you can join the TI E2E™ Community where you can ask questions, share ideas and collaborate with fellow engineers and TI experts

Contents are provided "AS IS" by the respective TI and Community contributors and do not constitute TI specifications. See Terms of use.

Engage in the Community

- Amplifiers
- Broadband RF/IF & Digital Radio
- Clocks & Timers
- Data Converters
- DLP® & MEMS
- Interface
- Logic
- Power Management
- Wireless Connectivity

Wikis

Visit the TI Wiki

Videos

Leading source for power reference designs

TI's industry leading PowerLab™ reference design library has now evolved into TI Designs. This video explains how to use the enhanced selection tool within TI Designs to quickly and efficiently search

Posted: 08-Oct-2014
Duration: 1:00
Views: 707
Tags: power management, power reference design, power management solutions, powerlab, power management designs, power design solutions, ti designs-power, ti designs, portable powerline power

Click here to jump start your design with TI Designs for Power Management

Related Videos

Leading source for power reference designs

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

Other Support

- TI E2E Community
- Contact Technical Support

Your History

Products You Recently Viewed

- PMP5832.1
- PMP7263.2
- PMP5922.2
- PMP5922.1
- PMP5124

TI is a global semiconductor design and manufacturing company. Innovate with 100,000+ analog ICs and embedded processors, along with software, tools and the industry's largest sales/support staff.

© Copyright 1995-2014 Texas Instruments Incorporated. All rights reserved.
Trademarks | Privacy policy | Terms of use | Terms of sale