24V@2A, 5V@0.6A PFC Flyback

(ACTIVE) PMP5688.2

Description & Features | Technical Documents | Support & Community | Order Now

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

Description

This Buck converter accepts the 24V input from PMP5688.1 and supplies the digital part of the load in LED digital architectures.

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

	PMP5688.2
Vin (Max) (V)	26
Vin (Min) (V)	22
Vout (Nom) (V)	5
Iout (Max) (A)	.6
Output Power	3
Isolated/Non-Isolated	Non-Isolated
Input Type	DC
Topology	Buck- Integrated Switch

TI Devices (3)

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
TL431A	Adjustable Precision Shunt Regulator	Voltage Reference	Sample & Buy	Not Available
TPS5410	5.5V to 36V Input, 1A, 500kHz Step Down Converter	Converter (Integrated Switch)	Sample & Buy	View Design Kits & Evaluation Modules
UCC28810	LED Lighting Power Controller	LED Driver	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
TL431A	SOT (DBZ) | 3	Download	Download
	TO-92 (LP) | 3	Download	Download
	SIP (PK) | 3	Download	-
	SOT (DBV) | 5	Download	Download
	SOT (DCK) | 6	Download	Download
	SOIC (D) | 8	Download	Download
	PDIP (P) | 8	Download	Download
	SOP (PS) | 8	Download	-
	TSSOP (PW) | 8	Download	-
TPS5410	SOIC (D) | 8	Download	Download
UCC28810	SOIC (D) | 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.

- read more -

Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP5688.2 Test Results		PDF	169	28 Oct 2011	16

Design Files (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP5688.2 BOM		PDF	31	28 Oct 2011	22
PMP5688.2 Schematic		PDF	49	28 Oct 2011	35

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: 728
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

Now Playing

Leading source for power reference designs

Simplifying LED Lamp Design

Play

How to simplify your LED Lighting Lamp Designs

Other Support

- TI E2E Community
- Contact Technical Support

Your History

Products You Recently Viewed

- PMP6570
- PMP5952
- PMP2187.5
- PMP1386.5
- PMP1386.1

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