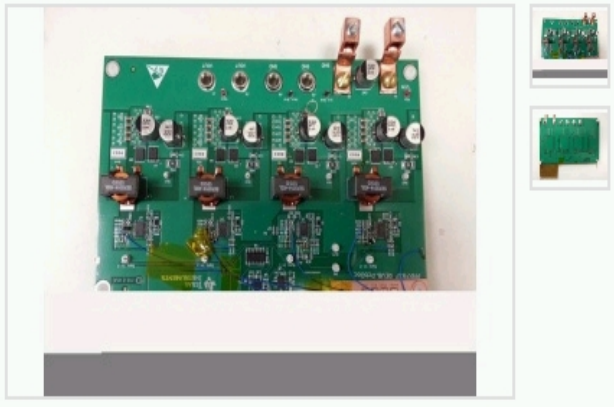
600W Synchronous Multi-Phase Boost Converter for Automotive Power Amplifier

(ACTIVE) PMP7969

Description & Features | Technical Documents | Support & Community

Description

PMP7969 is a 4-Phase Synchronous Boost Converter with the added capability of enabling and disabling each individual phase either manually, via 4-bit DIP switches, or using an MCU or other control circuitry. It is designed to accept an input range of 9VDC-to-16VDC. The output is set to 24VDC and can supply a maximum of 25A of current to the load.



Top of Board | Multi Phase Boost Converter

TI Devices (3)

Get more information on the TI products in this reference design.

Part Number	Name	Product Family
LM5122	Wide Vin Synchronous Boost Controller with Multi-phase Capability	Controller (External Switch)
LMC555	CMOS Timer	Clocks by Function
LP2951	Single Output LDO, 100mA, Adjustable, Wide Vin Range, RESET Flag	Linear Regulator (LDO)

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)
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.

- read more -

Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP7969 Test Results		PDF	1412	14 Aug 2013	72

More Literature (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP7969 BOM		PDF	115	14 Aug 2013	61
PMP7969 Schematic		PDF	239	14 Aug 2013	95

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

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
Views: 94
Tags: power tip, power management, power reference designs, powerlab, power management solutions

Search over 1,000 Power Management Reference Designs

Related Videos

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

Power Tip 56: Estimate PWB interconnect inductance

Other Support

- TI E2E Community
- Contact Technical Support

Your History

Products You Recently Viewed

- PMP7970
- PMP7973
- PMP7979
- PMP7983
- PMP7986