

Dual Boost with +15V@300mA and -15V@300mA Output Reference Design

(ACTIVE) PMP10091.2

Description & Features

Technical Documents

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Key Document

- PMP10091 Test Results

(PDF 530 KB)

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18 views
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Description

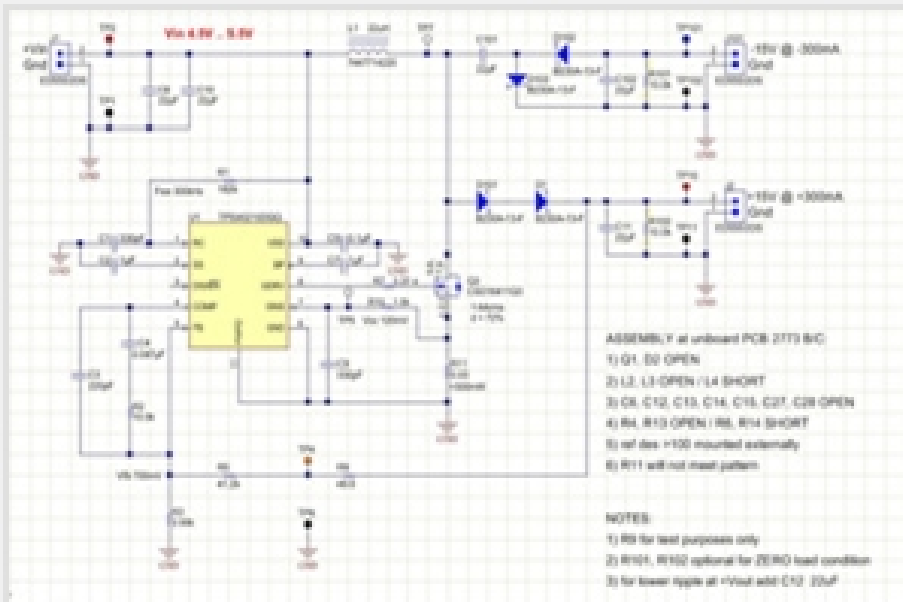
This reference design provides positive and negative output of 15V.

Features

- Dual boost to supply +/- 15V for high speed op amps out of 5V input
 - Low cost solution to provide positive and negative outputs
 - Low parts count
- Fully assembled board (shown above) developed for testing and performance validation only, not available for sale.
- TI's Standard Terms and Conditions for Evaluation Modules apply.

Schematic/Block Diagram

Quickly understand overall system functionality.



Download Schematic

Test Data

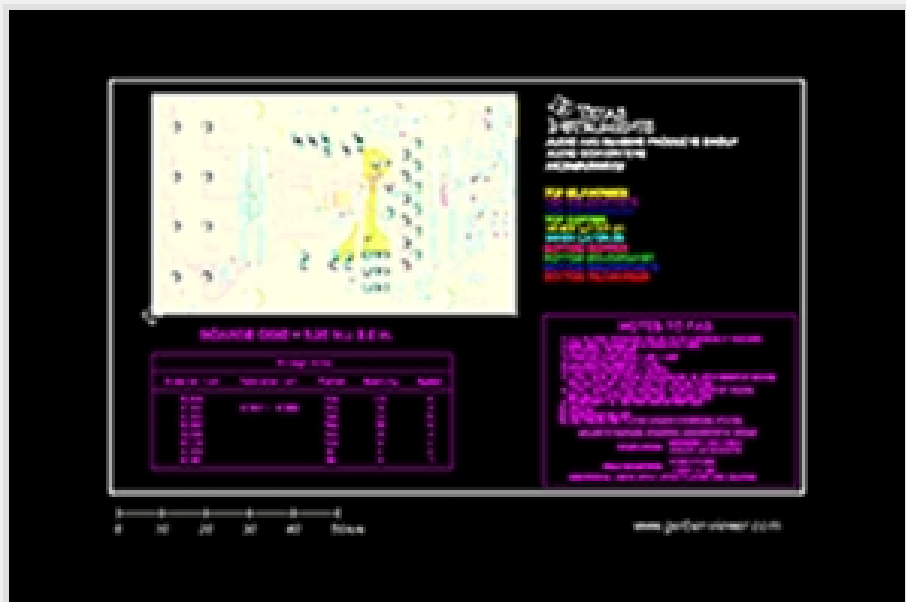
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Design Files

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Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

Parametrics

	PMP10091.2
Vin (Min) (V)	4.5
Vin (Max) (V)	5.5
Vout (Nom) (V)	-15
Iout (Max) (A)	.3
Output Power (W)	4.5
Isolated/Non-Isolated	Non-Isolated
Input Type	DC
Topology	Boost- Non Sync

TI Devices (2)

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
CSD16411Q3	N-Channel NexFET™ Power MOSFET	Power MOSFET	Sample & Buy	View Design Kits & Evaluation Modules
TPS40210	Wide Input Range Current Mode Boost Controller	Controller (External Switch)	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package Pins	CAD File (.bxl)	STEP Model (.stp)
CSD16411Q3	VSON-CLIP (DQG) 8	Download	Download
TPS40210	HVSSOP (DGQ) 10	Download	-
	VSON (DRC) 10	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	TI Recommends
PMP10091 Test Results		PDF	530	23 Sep 2015	18	✓

Design files (6)

Title	Abstract	Type	Size (KB)	Date	Views
PMP10091 Gerber (from PMP2773)		ZIP	59	23 Sep 2015	9
PMP10091 CAD Files		ZIP	91	23 Sep 2015	10
PMP10091 PCB (from PMP2773)		PDF	50	23 Sep 2015	14
PMP10091 Assembly Drawing		PDF	21	23 Sep 2015	7
PMP10091 BOM		PDF	98	23 Sep 2015	22
PMP10091 Schematic		PDF	115	23 Sep 2015	40

Related Tools & Software

Reference Designs (1)

Name	Part Number	Tool Type
Dual Boost with +15V@300mA and -15V@300mA Output Reference Design	PMP10091.1	Reference Designs

Applications

- HMI - Display

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