

Boost 55V@0.48A for LCD TV LED Backlighting

(ACTIVE) PMP5299

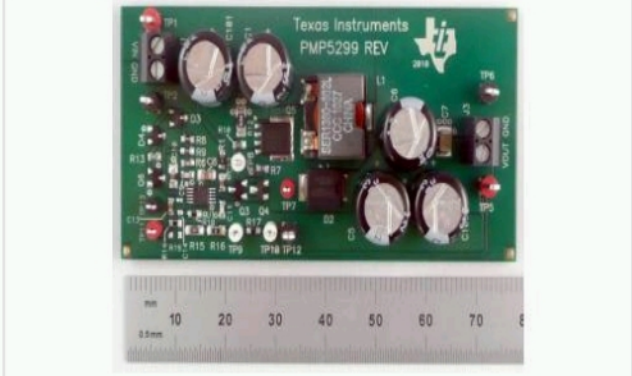
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Description

This 25W discontinuous current-mode boost converter provides a low ripple voltage of less than 1% and efficiency of greater than 94% at 24V input. Aluminum output caps are utilized, ensuring excellent load transient capability. An external control voltage allows the user to adjust the output voltage by +/-10%.

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Top view

Fully assembled board (shown above) developed for testing and performance validation only, not available for sale.

Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

Parametrics

	PMP5299
Vin (Max) (V)	24
Vin (Min) (V)	18
Vout (Nom) (V)	50
Iout (Max) (A)	.5
Output Power	25
Isolated/Non-Isolated	Non-Isolated
Input Type	DC
Topology	Boost- Non Sync Boost- DCM

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
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)
TPS40210	HVSSOP (DGQ) 10	Download	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.

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Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP5299 Test Results		PDF	1470	10 Nov 2010	18

Design Files (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP5299 Schematic		PDF	56	10 Nov 2010	37
PMP5299 REV BOM		PDF	20	10 Nov 2010	15

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