Boost Converter (2.5V to 3.6V to 4.1V@2.4A)

(ACTIVE) PMP5719

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Description

This very small 10W sync. Boost converter has an almost flat efficiency through the load (96% full load, 3.6Vin) and showing still 92% efficiency at 20mW load, 3.3Vin.

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Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

Parametrics

	PMP5719
Vin (Max) (V)	3.6
Vin (Min) (V)	2.5
Vout (Nom) (V)	4.1
Iout (Max) (A)	2.4
Output Power	9.84
Isolated/Non-Isolated	Non-Isolated
Input Type	DC
Topology	Boost- Synchronous

TI Devices (2)

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Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
CSD16340Q3	25V, N Channel NexFET™ Power MOSFET	Power MOSFET	Sample & Buy	Not Available
TPS43000	Multi-Topology (buck, boost, sepic) High Frequency DC/DC Controller	Controller (External Switch)	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
CSD16340Q3	VSON-CLIP (DQG)| 8	Download	-
TPS43000	TSSOP (PW) | 16	Download	Download

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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
PMP5719 Test Results		PDF	190	28 Oct 2011	18

Design Files (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP5719 BOM		PDF	28	28 Oct 2011	20
PMP5719 Schematic		PDF	35	28 Oct 2011	34

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