Uses TPS53114 to generate 1.0V@3A output for Point of Load type applications

(ACTIVE) PMP5591

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Description

Lowest cost buck converter w/ TPS53114 to provide 1V @3A out of 5V/12V bus voltage

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Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

Parametrics

	PMP5591
Vin (Min) (V)	4.5
Vin (Max) (V)	13.2
Vout (Nom) (V)	1
Iout (Max) (A)	3
Output Power	3
Isolated/Non-Isolated	Non-Isolated
Input Type	DC
Topology	Buck- Synchronous

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
TPS53114	4.5V to 24V Input, Synchronous Step-Down Controller for Low Voltage Power Rails	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	-
TPS53114	TSSOP (PW) | 16	Download	Download
	HTSSOP (PWP) | 16	Download	Download

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Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP5591 Test Results		PDF	183	21 Nov 2011	16

Design Files (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP5591 BOM		PDF	29	21 Nov 2011	14
PMP5591 Schematic		PDF	73	21 Nov 2011	19

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