Non Synchronous Buck Generating 5V @ 1A

(ACTIVE) PMP4504

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Description

small non synchronous buck with TPS54140 for 5V output voltage at 1A load out of 20V to 28V at Fsw 1MHz

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Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

Parametrics

	PMP4504
Vin (Max) (V)	28
Vin (Min) (V)	20
Vout (Nom) (V)	5
Iout (Max) (A)	1
Output Power	5
Isolated/Non-Isolated	Non-Isolated
Input Type	DC
Topology	Buck- Integrated Switch

TI Devices (1)

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Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
TPS54140	3.5V to 42V Input, 1.5A Step-Down Converter with Eco-Mode	Converter (Integrated Switch)	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
TPS54140	HVSSOP (DGQ) | 10	Download	Download

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Step 1: Download and install the Ultra Librarian software ZIP: 62MB

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Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP4504 Test Result		PDF	1091	16 Nov 2011	14

Design Files (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP4504 BOM		PDF	29	16 Nov 2011	12
PMP4504 Schematic		PDF	58	16 Nov 2011	16

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