Uses TPS40303, to implement sync buck with VID

(ACTIVE) PMP5672

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Description

Universal buck converter provides up to 25A load current for DSPcores or similar w/ 4-bit VID interface, TPS40303

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Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

Parametrics

	PMP5672
Vin (Max) (V)	13.2
Vin (Min) (V)	10.8
Vout (Nom) (V)	1.2
Iout (Max) (A)	20
Output Power	24
Isolated/Non-Isolated	Non-Isolated
Input Type	DC
Topology	Buck- Synchronous

TI Devices (3)

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Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
CSD16321Q5	N-Channel NexFET™ Power MOSFET	Power MOSFET	Sample & Buy	View Design Kits & Evaluation Modules
CSD16322Q5	N-Channel NexFET™ Power MOSFETs	Power MOSFET	Sample & Buy	View Design Kits & Evaluation Modules
TPS40303	3V to 20V Wide Input Synchronous Buck Controller for High Power Density, High Efficiency, 300kHz	Controller (External Switch)	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
CSD16321Q5	VSON-CLIP (DQH) | 8	Download	-
CSD16322Q5	VSON-CLIP (DQH) | 8	Download	-
TPS40303	VSON (DRC) | 10	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
PMP5672 Test Results		PDF	1279	23 Nov 2011	12

Design Files (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP5672 BOM		PDF	30	23 Nov 2011	13
PMP5672 Schematic		PDF	55	23 Nov 2011	17

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