Reference Design for Telecom Applications (1.2V @ 2A)

(ACTIVE) PMP4742.4

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Description

For PMP4742.4, A second TPS54620 synchronous buck converter, supplies an FPGA at 1.2V@2A. Also, the output current is measured by INA210 and shunt resistor.

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Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

Parametrics

	PMP4742.4
Vin (Max) (V)	13.2
Vin (Min) (V)	10.8
Vout (Nom) (V)	1.2
Iout (Max) (A)	2
Output Power	2.4
Isolated/Non-Isolated	Non-Isolated
Input Type	DC
Topology	Buck- Integrated Switch

TI Devices (14)

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
CSD16406Q3	N-Channel NexFET™ Power MOSFET	Power MOSFET	Sample & Buy	Not Available
CSD16409Q3	N-Channel NexFET™ Power MOSFET	Power MOSFET	Sample & Buy	Not Available

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CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
CSD16406Q3	VSON-CLIP (DQG)| 8	Download	-
	VSON-CLIP (DQV)| 8	Download	-
CSD16409Q3	VSON-CLIP (DQG)| 8	Download	-
	VSON-CLIP (DQV)| 8	Download	-
INA210	SOT (DCK) | 6	Download	Download
	UQFN (RSW) | 10	Download	-
SN74LVC3G14	SSOP (DCT) | 8	Download	-
	VSSOP (DCU) | 8	Download	-
	DSBGA (YZP) | 8	Download	-
TPS2420	VQFN (RSA) | 16	Download	-
TPS3801-01	SOT (DCK) | 5	Download	Download
TPS40021	HTSSOP (PWP) | 16	Download	Download
TPS40210	HVSSOP (DGQ) | 10	Download	Download
	VSON (DRC) | 10	Download	-
TPS51200	VSON (DRC) | 10	Download	-
TPS54620	VQFN (RGY) | 14	Download	-
	VQFN (RHL) | 14	Download	-
TPS61175	HTSSOP (PWP) | 14	Download	Download
TPS71533	SOT (DCK) | 5	Download	Download
TPS74701	VSON (DRC) | 10	Download	-
TPS79901	SOT (DDC) | 5	Download	-
	DSBGA (YZU) | 5	Download	-
	WSON (DRV) | 6	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
PMP4742 Test Results		PDF	571	12 Nov 2010	75

Design Files (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP4742 Schematic		PDF	384	12 Nov 2010	171
PMP4742 BOM		PDF	33	12 Nov 2010	79

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