PMP5495 Reference Design for Reduced Board Space

(ACTIVE) PMP5495

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Description

The PMP5495 reference design contains the TPS54620 DC/DC converter with a double-sided layout to reduce board space. The reference design accepts a 4.5V to 17V input and delivers up to 5A at an output voltage of 3.3V while switching at 480 kHz. The reference design takes up less than 185 square millimeters total board area and uses a 3.3µH IHLP2525 inductor with only one 47µF 1206 ceramic output capacitor. The TPS54620 is a 4.5 to 17V, 6-A monolithic synchronous buck DC/DC converter with integrated 26 / 19 milliohm MOSFETS in a small 3.5mm x 3.5mm 14-pin QFN package.

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Part Number	Status
PMP5495: PMP5495 Reference Design	ACTIVE

TI Devices (1)

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Part Number	Name	Product Family
TPS54620	4.5V to 17V Input, 6A Synchronous Step-Down SWIFT™ Converter	Converter (Integrated Switch)

Bill of Materials

Find the complete list of components in this reference design.

Download BOM

CAD/CAE Symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
TPS54620	VQFN (RGY) | 14	Download	-
	VQFN (RHL) | 14	Download	-

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Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP5495 Test Results		PDF	4163	21 Jul 2010	108

More Literature (3)

Title	Abstract	Type	Size (KB)	Date	Views
PMP5495 Gerber		PDF	88	21 Jul 2010	183
PMP5495 Bill of Materials		PDF	19	21 Jul 2010	182
PMP5495 Schematic		PDF	75	21 Jul 2010	198

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