TPS54418 Reference Design Optimized for Small Size

(ACTIVE) PMP4856

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Description

The PMP4856 reference design uses the TPS54418 DC/DC converter and features a double-sided, small form factor layout requiring only 65 square millimeters of board space. The design is optimized for a 3.3 V input and 1.8 V output, and contains all necessary external components, including a 47µF ceramic output capacitor, a 4.7µF ceramic input capacitor, and a 1µH IHLP-1616 inductor. The TPS54418 is a 2.95 to 6 V, 4 A synchronous buck DC/DC converter with integrated 30 milliohm MOSFETS in a small 3mm x 3mm 16 pin QFN package

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Part Number	Status
PMP4856: TPS54418 Reference Design Optimized for Small Size	ACTIVE

TI Devices (1)

Get more information on the TI products in this reference design.

Part Number	Name	Product Family
TPS54418	2.95V to 6V Input, 4A 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)
TPS54418	WQFN (RTE) | 16	Download	-

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Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP4856 Test Results		PDF	969	15 Nov 2013	40

More Literature (3)

Title	Abstract	Type	Size (KB)	Date	Views
PMP4856 Schematic		PDF	44	19 Nov 2009	271
PMP4856 PCB		PDF	43	19 Nov 2009	220
PMP4856 Bill of Materials		ZIP	2	19 Nov 2009	226

Related Tools & Software

Software (1)

PMP4856 Gerbers
(ZIP, 97 KB) 139 views, 19 Nov 2009

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