Small Integrated Sync Bucks and an LDO for Low Voltage Outputs for a Solid State Drive

(ACTIVE) PMP8274.2

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Description

Three integrated sync buck switchers provide up to 1A of output current. Output voltages of 1V, 1.35V, 1.8V and 2.5V from a 3.3V/5V input efficiently provide over 4W of output power.

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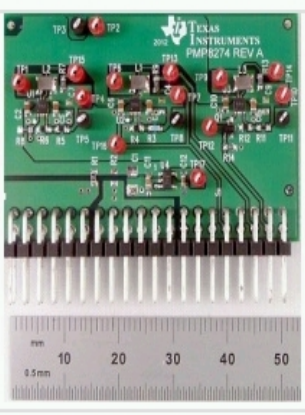

Fully assembled board (shown above) developed for testing and performance validation only, not available for sale.

Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

Parametrics

	PMP8274.2
Vin (Max) (V)	5.5
Vin (Min) (V)	3
Vout (Nom) (V)	1.35
Iout (Max) (A)	1
Output Power	1.35
Isolated/Non-Isolated	Non-Isolated
Input Type	DC
Topology	Buck- Synchronous

TI Devices (2)

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
TLV62080	1.2A High Efficiency Step Down Converter in 2x2mm SON Package	Converter (Integrated Switch)	Sample & Buy	View Design Kits & Evaluation Modules
TLV70025	200mA, Low IQ, Low Dropout Regulator for Portables	Linear Regulator (LDO)	Sample & Buy	Not Available

CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
TLV70025	SOT (DCK) | 5	Download	Download
	SOT (DDC) | 5	Download	-
	WSON (DSE) | 6	Download	-

Texas Instruments and Accelerated Designs Inc. have collaborated together to provide TI customers with schematic symbols and PCB layout footprints for TI products.

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
PMP8274 Test Results		PDF	3090	11 Feb 2013	33

Design Files (4)

Title	Abstract	Type	Size (KB)	Date	Views
PMP8274 PCB		PDF	358	11 Feb 2013	13
PMP8274 Gerber		ZIP	561	11 Feb 2013	11
PMP8274 BOM		PDF	16	11 Feb 2013	35
PMP8274 Schematic		PDF	31	11 Feb 2013	36

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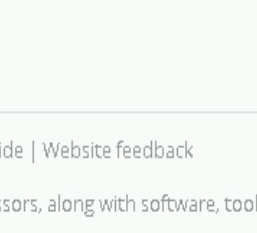

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Power Tip 58: Power supply grounding; which camp are you in?

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