Multi-Output Flyback Converter (-58V@.7A)

(ACTIVE) PMP7848.2

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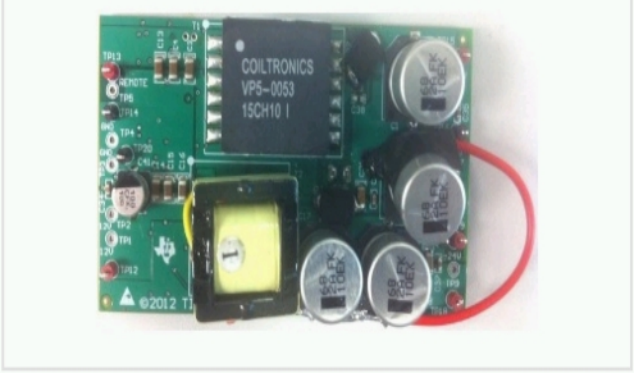

Description

This is a flyback converter with an input voltage range of 10.8V-to-14.4Vin and three outputs: 80Vout @ 0.4A, -58Vout @ 0.7A, and -24Vout @ 0.7A

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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

	PMP7848.2
Vin (Max) (V)	14.4
Vin (Min) (V)	10.8
Vout (Nom) (V)	-58
Iout (Max) (A)	.7
Output Power	40.6
Isolated/Non-Isolated	Non-Isolated
Input Type	DC
Topology	Flyback- Non Sync

TI Devices (6)

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
CSD18531Q5A	60V N-Channel NexFET Power MOSFETs, CSD18531Q5A	Power MOSFET	Sample & Buy	View Design Kits & Evaluation Modules
LM5022	6-60V Wide Vin, Current Mode Boost and SEPIC Controller	Controller (External Switch)	Sample & Buy	View Design Kits & Evaluation Modules
LMV331	Single General Purpose Low Voltage Comparator	Amplifiers and Linear	Sample & Buy	Not Available

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CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
LM5022	VSSOP (DGS) | 10	Download	Download
LMV331	SOT (DBV) | 5	Download	Download
	SOT (DCK) | 5	Download	Download
LMV393	SOIC (D) | 8	Download	Download
	VSSOP (DDU) | 8	Download	-
	VSSOP (DGK) | 8	Download	Download
	TSSOP (PW) | 8	Download	-
LMV431	TO-92 (LP) | 3	Download	Download
	SOT (DBV) | 5	Download	Download
LMV822	SOIC (D) | 8	Download	Download
	VSSOP (DGK) | 8	Download	Download
	TSSOP (PW) | 8	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
PMP7848 Test Results		PDF	1608	31 Mar 2013	22

Design Files (3)

Title	Abstract	Type	Size (KB)	Date	Views
PMP7848 Gerber		ZIP	220	31 Mar 2013	8
PMP7848 BOM		PDF	21	31 Mar 2013	44
PMP7848 Schematic		PDF	146	31 Mar 2013	75

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