Class 4- 33Vdc-57Vdc Input, 12V/2.1A Active Clamp Forward

(ACTIVE) PMP4909

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Description

The PMP4909 reference design uses the TPS23754 PoE controller to control an active clamp forward converter that delivers up to 25W at 12V. This design uses synchronous rectifiers to achieve efficiencies over 92%.

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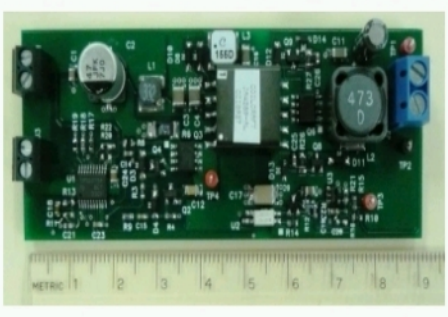

Top view

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

	PMP4909
Vin (Max) (V)	57
Vin (Min) (V)	33
Vout (Nom) (V)	12
Iout (Max) (A)	2.1
Output Power	25.2
Isolated/Non-Isolated	Isolated
Input Type	DC
Topology	Forward- Active Clamp Forward- Synchronous POE

TI Devices (1)

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
TPS23754	High Power/High Efficiency PoE Interface and DC/DC Controller	Power Over Ethernet (PoE)/LAN Solutions	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
TPS23754	HTSSOP (PWP) | 20	Download	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
PMP4909 Test Results		PDF	987	15 Feb 2012	33

Design Files (4)

Title	Abstract	Type	Size (KB)	Date	Views
PMP4909 PCB		PDF	82	15 Feb 2012	16
PMP4909 Gerber		ZIP	125	15 Feb 2012	13
PMP4909 BOM		PDF	30	15 Feb 2012	27
PMP4909 Schematic		PDF	81	15 Feb 2012	59

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