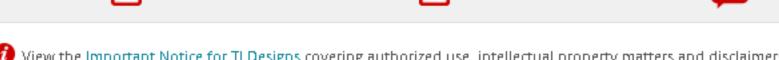


TI Home > TI Designs > Power Management > Class 4 PoE Flyback Converter (12V@2.125A) Reference Design

Class 4 PoE Flyback Converter (12V@2.125A) Reference Design

Technical Documents

(ACTIVE) PMP11254



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Key Document

Description & Features

09 May 2016 65 views PMP11254 Test Results (PDF 1220 KB)

>> View All Technical Documents (4)

Description The flyback topology with diode rectification provides a low cost solution for Class 4 PoE applications. The TPS23751 is a combination PoE PD controller and PWM controller, saving cost and space. This converter is well suited for PoE

applications such as security cameras and wireless access points.

Features

Very good efficiency (88% at max load)

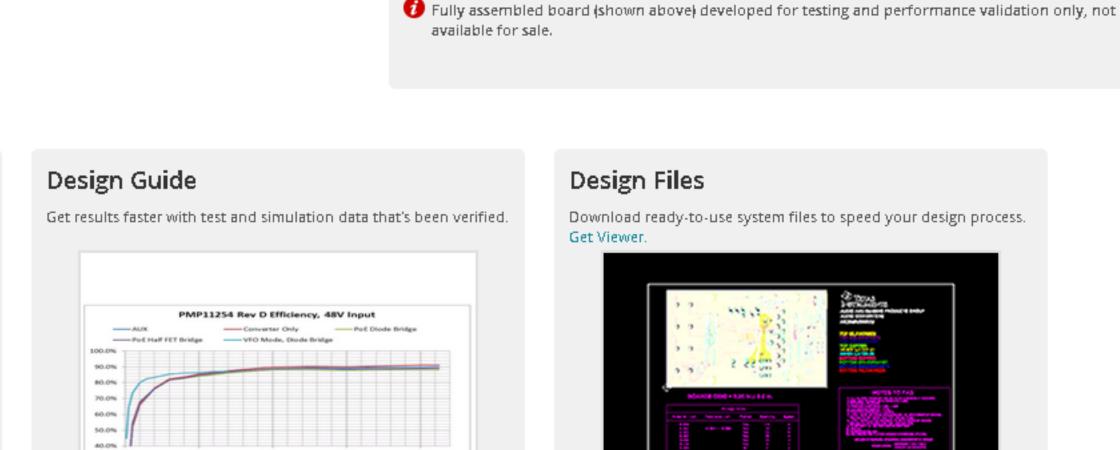
* Isolated non-synchronous flyback-low cost

Schematic/Block Diagram

Quickly understand overall system functionality.

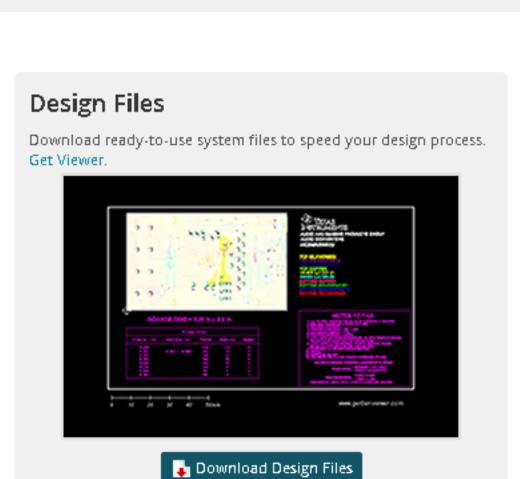
. Optional VFO mode for improved light load efficiency

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PMP11254 Class 4 PoE Flyback Converter (12V@2.125A) Reference Design Top of Board Image

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Bill of Materials (BOM)

Find the complete list of components in this reference design.

🛴 Download Schematic

🝌 Download BOM

Parametrics

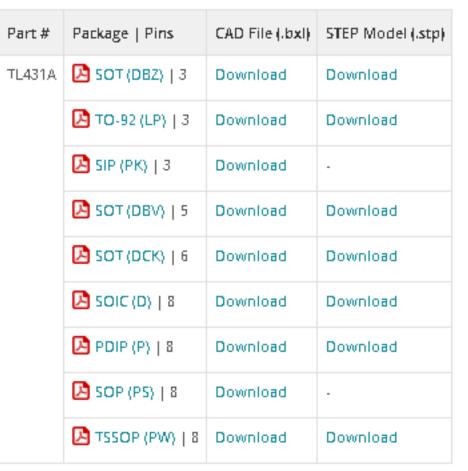
	PMP11254.1 (Output Voltage 1)
Vin (Min) (V)	42.5
Vin (Max) (V)	57
Vout (Nom) (V)	12
lout (Max) (A)	2.125
Output Power (W)	25.5
Isolated/Non-Isolated	Isolated
Input Type	DC
Topology	Flyback- Non Sync POE

TI Devices (2)

Order samples, get tools and find more information on the TI products in this reference design.

Part Number 💠 N	Name \$	Product Family \$	Sample & Buy	Design Kits & Evaluation Modules
TL431A A	Adjustable Precision Shunt Regulator	Voltage Reference	Sample & Buy	Not Available
TP523751 IE	IEEE 802.3at PoE Interface and Green-mode DC/DC Controller	Power Over Ethernet (PoE)/LAN Solutions	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols



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 free download.

Step 2: Download the Symbol and Footprint from the CAD.bxl file table. - read more -

Technical Documents

User guides (1)

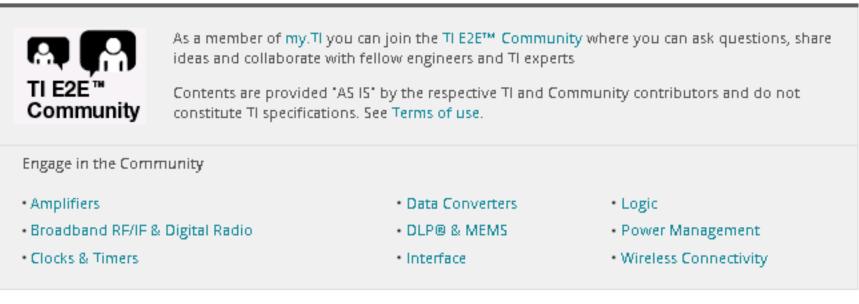
oser galdes (1)						
Title	Abstract	Туре	Size (KB)	Date	Views	TI Recommends
DMP11254 Test Results		PDE	1220	09 May 2016	65	,

Design files (3)

Title \$	Abstract ♦	Туре ♦	Size (KB) ♦	Date ▼	Views ♦
PMP11254 Gerber		ZIP	424	09 May 2016	22
▶ PMP11254 BOM		PDF	117	09 May 2016	31
🔼 PMP11254 Schematic		PDF	497	09 May 2016	74

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