Quasi Resonant Flyback, 80-440V AC, 12V@0.5A using UCC28600 up to 91% efficiency

(ACTIVE) PMP7019

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Description

The PMP7019 reference design is a wide-input Quasi Resonant Flyback designed for industrial applications. It uses the UCC28600 controller to an isolated 48V/1A output from an 80Vac to 440Vac input range. The quasi-resonant switching of the UCC28600 allows this design to achieve a maximum load efficiency up to 91%.

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Bill of Materials (BOM)

Find the complete list of components in this reference design.

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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
TL431A	Adjustable Precision Shunt Regulator	Voltage Reference	Sample & Buy	Not Available
UCC28600	8-Pin Quasi Resonant Flyback Green Mode Controller	Offline and Isolated DC/DC Controllers and Converters	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
TL431A	SOT (DBZ) | 3	Download	Download
	TO-92 (LP) | 3	Download	Download
	SIP (PK) | 3	Download	-
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	PDIP (P) | 8	Download	Download
	SOP (PS) | 8	Download	-
	TSSOP (PW) | 8	Download	Download
UCC28600	SOIC (D) | 8	Download	Download

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Step 1: Download and install the free download.

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

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Technical Documents

User guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP7019 Test Results		PDF	218	30 Aug 2012	0

Design files (3)

Title	Abstract	Type	Size (KB)	Date	Views
PMP7019 Gerber		ZIP	70	30 Aug 2012	0
PMP7019 BOM		PDF	93	30 Aug 2012	1 1
PMP7019 Schematic		PDF	73	30 Aug 2012	2

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