



# Universal AC Input 7.5W Adapter Reference Design

(ACTIVE) PMP4391



Description & Features



Technical Documents



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## Description

This 5V / 1.5A adapter solution is fully tested and passes EMI and EMC (CE,RE) safety requirements. It implements a low cost primary side Bipolar controller UCC28722. The efficiency of the design is 78% with standby power less than 100mW. The design is very slim; the size is 30mmX35.3mmX8mm and has been thermally characterized.

## Features

- Fully tested to comply with EMC(CE,RE) and safety requirement
- <100mW no load power over input range
- Valley control PSR controller
- Good thermal performance with few component count and low shell temperature
- Small form factor: 30mmX35.3mmX8mm
- Low Cost



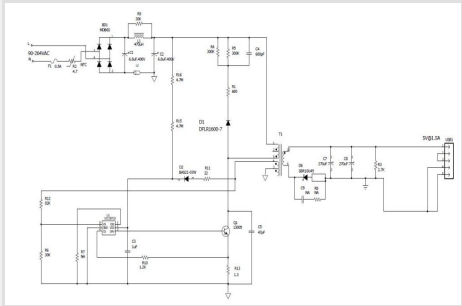
PMP4391: Consumer Electronics, Flyback- Quasi Resonant, Reference Design



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

## Schematic/Block Diagram

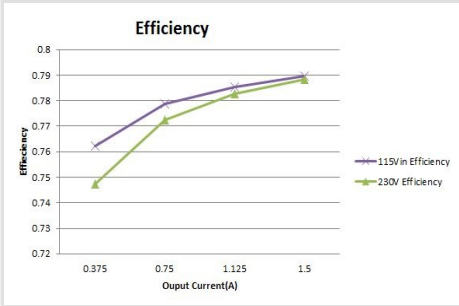
Quickly understand overall system functionality.



Download Schematic

## Test Data

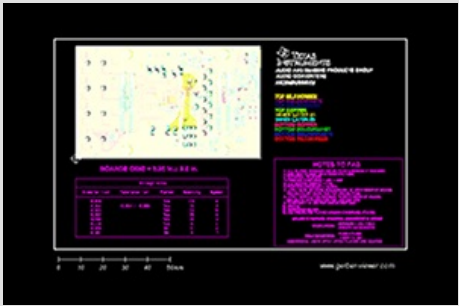
Get results faster with test and simulation data that's been verified.



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## Design Files

Download ready-to-use system files to speed your design process. [Get Viewer.](#)



Download Design File

## Bill of Materials (BOM)

Find the complete list of components in this reference design.



Download BOM

## 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                          |
|-------------|----------------------------------------------------------------------------------------|---------------------------------------|----------------------------------|-----------------------------------------------------------|
| UCC28722    | Low Cost CVCC Flyback Controller with Primary-Side Regulation for Bipolar Power Device | AC/DC and Isolated DC/DC Power Supply | <a href="#">Sample &amp; Buy</a> | <a href="#">View Design Kits &amp; Evaluation Modules</a> |

## Technical Documents

## User Guides (1)

| Title                                | Abstract | Type | Size (KB) | Date        | Views |
|--------------------------------------|----------|------|-----------|-------------|-------|
| <a href="#">PMP4391 Test Results</a> |          | PDF  | 403       | 06 Feb 2014 | 266   |

## Design Files (4)

| Title                             | Abstract | Type | Size (KB) | Date        | Views |
|-----------------------------------|----------|------|-----------|-------------|-------|
| <a href="#">PMP4391 Gerber</a>    |          | ZIP  | 194       | 16 May 2014 | 129   |
| <a href="#">PMP4391 PCB</a>       |          | PDF  | 155       | 06 Feb 2014 | 222   |
| <a href="#">PMP4391 BOM</a>       |          | PDF  | 111       | 06 Feb 2014 | 275   |
| <a href="#">PMP4391 Schematic</a> |          | PDF  | 31        | 06 Feb 2014 | 419   |

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