TPS40055, 15V buck converter

(ACTIVE) PMP7051.1

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Description

Highly efficient 150W OLED driver for midsize panels, 24V input voltage, 15V output voltage powering up to 10 Amps output current: provides max. efficiency 98.5% at 200kHz switching frequency

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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

	PMP7051.1
Vin (Max) (V)	28
Vin (Min) (V)	20
Vout (Nom) (V)	15
Iout (Max) (A)	10
Output Power	150
Isolated/Non-Isolated	Non-Isolated
Input Type	DC
Topology	Buck- Synchronous

TI Devices (1)

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Part Number	Name	Product Family	Sample & Buy	Design Kits & Evaluation Modules
TPS40055	Wide Input (8V-40V) up to 1MHz Frequency Synchronous Buck Controller, source/sink	Controller (External Switch)	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
TPS40055	HTSSOP (PWP) | 16	Download	Download

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Step 1: Download and install the Ultra Librarian software ZIP: 62MB

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Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views
PMP7051.1 Test Results		PDF	325	05 Jan 2012	17

Design Files (2)

Title	Abstract	Type	Size (KB)	Date	Views
PMP7051.1 BOM		PDF	27	05 Jan 2012	21
PMP7051.1 Schematic		PDF	45	05 Jan 2012	22

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