Fixed 3.3-V High-Efficiency Boost Converter

(ACTIVE) TPS61016REF-157

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Description

The Texas Instruments TPS6101x evaluation modules (EVM) helps designers evaluate the different operating modes and the performance of high-efficiency boost converters. If any other output voltage is to be evaluated, the TPS61010 adjustable version can be set up to provide an output voltage between 1.5 V and 3.3 V. Only the feedback resistor divider has to be adjusted. Also, other fixed output voltage versions of the devices can be easily evaluated using the EVM. The TPS6101x has an input voltage range between 0.9 V and VO. The maximum output current is at least 100 mA depending on the input voltage.

Bill of Materials (BOM)

Find the complete list of components in this reference design.

Download BOM

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Part Number	Status
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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
TPS61016	Low Input Voltage Synchronous Boost Converter with Fixed 3.3V Output	Converter (Integrated Switch)	Sample & Buy	View Design Kits & Evaluation Modules

CAD/CAE symbols

Part #	Package | Pins	CAD File (.bxl)	STEP Model (.stp)
TPS61016	VSSOP (DGS) | 10	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
TPS6101xEVM-157 EVM User's Guide for High-Efficiency, Boost Converters		PDF	118	25 Oct 2000	113

Design Files (2)

Title	Abstract	Type	Size (KB)	Date	Views
TPS6101xEVM-157 Bill of Materials		PDF	23	05 May 2004	28
TPS6101xEVM-157 Schematic		PDF	26	05 May 2004	32

Related Tools & Software

Design Kits & Evaluation Modules (1)

Name	Part Number	Tool Type
Fixed 3.3-V High-Efficiency Boost Converter	TPS61016EVM-157	Evaluation Modules & Boards

Software (1)

Gerber Files for TPS6101xEVM
(ZIP, 17 KB) 14 views, 03 Dec 2003

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