# Automotive buck-boost converter providing 5.7V @ 1.2A

(ACTIVE) PMP8637.1

Description & Features | Technical Documents | Support & Community

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## Description

This design is a buck-boost converter for automotive applications covering an input voltage range of 3.5 .. 35V. It provides an output voltage of 5.7V @ 1.2A.

Automotive Buck-Boost Converter

## TI Devices (1)

Get more information on the TI products in this reference design.

| Part Number | Name | Product Family |
|---|---|---|
| LM25118 | 42V Wide Vin Buck-Boost Controller | Controller (External Switch) |

## Bill of Materials

Find the complete list of components in this reference design.

Download BOM

## CAD/CAE Symbols

| Part # | Package \| Pins | CAD File (.bxl) | STEP Model (.stp) |
|---|---|---|---|
| LM25118 | HTSSOP (PWP) \| 20 | Download | Download |

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 Ultra Librarian software ZIP: 62MB

**Step 2**: Download the Symbol and Footprint .bxl file.

- read more -

## Technical Documents

### User Guides (1)

| Title | Abstract | Type | Size (KB) | Date | Views |
|---|---|---|---|---|---|
| PMP8637.1 Test Results | | PDF | 797 | 19 Sep 2013 | 32 |

### More Literature (2)

| Title | Abstract | Type | Size (KB) | Date | Views |
|---|---|---|---|---|---|
| PMP8637.1 BOM | | PDF | 19 | 19 Sep 2013 | 31 |
| PMP8637.1 Schematic | | PDF | 97 | 19 Sep 2013 | 31 |

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## Wikis

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## Videos

**Power Tip 58: Power supply grounding; which camp are you in?**

In this power tip video senior applications engineer, Robert Kollman, discusses different methods for grounding power supply.

**Posted:** 27-Oct-2013
**Duration:** 3:30
**Views:** 94
**Tags:** power tip, power management, power reference designs, powerlab, power management solutions

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Power Tip 56: Estimate PWB interconnect inductance

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