Simple Switcher ® Power Module 42Vin, 1A Eval Board

(ACTIVE) LMZ14201EVAL

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Key Document

- **AN-2024 LMZ1420x / LMZ1200x Evaluation Board (Rev. E)** (PDF 2125 KB)
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Description

The SIMPLE SWITCHER power module evaluation board is optimized for peak performance and increased flexibility. By incorporating additional ceramic and an aluminum filter capacitor, the power module EVAL board demonstrates the low output ripple, fast transient response, and low conducted and radiated EMI performance of the device. Adjusting the output voltage, optimizing the control loop circuitry, and fine-tuning the filter capacitance is ease, with convenient size and placement of the passive components on the board. Finally, the excellent thermal performance of the power modules is enhanced using a 4-layer 1oz copper PCB.

Features

- Integrated shielded inductor (inside module)
- V_{IN} = 6V to 42V
- Precision enable UVLO - 8V
- 3.3V output (output voltage is adjustable by changing 1 or 2 resistors)
- Operates at full load up to 80°C ambient at 12V input
- Efficiency
  - Up to 92% (LMZ14203/LMZ12003)
- Thermal performance
  - θJA = 20°C/W
  - θJC = 1.9°C/W
- Uses 0805 passives on front side for easy modification of values to match requirements
- 1.705 in. x 3.03 in. (5.8 cm x 5.8 cm) 4-layer 1oz copper PCB

Order Now

Part Number	Buy from Texas Instruments or Third Party	Buy from Authorized Distributor	Status	Lead-Free	RoHS
LMZ14201EVAL/NOPB: Simple Switcher ® Power Module 42Vin, 1A Eval Board	**$25.00(USD)** In Stock **Typically Ships in 1 to 3 Business Days** Buy from TI	Pricing may vary. Buy from distributor	ACTIVE	Yes	Yes

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Technical Documents

User Guides (1)

Title	Abstract	Type	Size (KB)	Date	Views	TI Recommends
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Related Products

TI Devices (1)

Part Number	Name	Product Family
LMZ14201	1A SIMPLE SWITCHER® Power Module with 42V Maximum Input Voltage	Non-Isolated Module

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