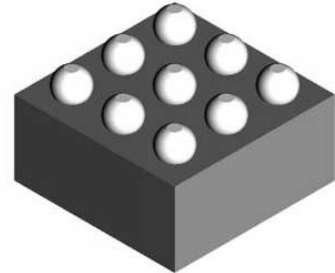


30A DC/DC Step-Down μ Module Regulator

Manufacturers	Analog Devices, Inc
Package/Case	77-Lead BGA (15mm x 9mm x 5.01mm)
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTM4647IY#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTM4647 is a complete 30A output switching mode step-down DC/DC μ Module® (power module) regulator. Included in the package are the switching controller, power FETs, inductor and all supporting components. Operating over an input voltage range of 4.7V to 15V, the LTM4647 supports an output voltage range of 0.6V to 1.8V, set by a single external resistor. Only a few input and output capacitors are needed.

Its high efficiency design delivers 87% efficiency from 12V input to 1.0V output with 30A continuous load current. High switching frequency and a current-mode architecture enable a very fast transient response to line and load changes without sacrificing stability. The device supports frequency synchronization, programmable multiphase operation, N+1 phase redundancy, and output voltage tracking for supply rail sequencing.

Fault protection features include overvoltage and overcurrent protection. The power module is offered in a space saving 9mm \times 15mm \times 5.01mm BGA package. The LTM4647 is available with SnPb (BGA) or RoHS compliant terminal finish.

Features

4.7V to 15V Input Voltage Range

0.6V to 1.8V Output Voltage Range

30A DC Output Current

High Reliability N + 1 Phase Redundancy Supported

Internal or External Control Loop Compensation

Differential Remote Sense Amplifier for Precision Regulation

Current Mode Control/Fast Transient Response

Multiphase Current Sharing Up to 180A

Built-In Temperature Monitoring

Selectable Pulse-Skipping, Burst Mode® Operation

Soft-Start/Voltage Tracking

Frequency Synchronization

Output Overvoltage Protection

Output Overcurrent Foldback Protection

9mm × 15mm × 5.01mm BGA Package

Application

Telecom, Networking and Industrial Equipment

Point of Load Regulation

Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC1966CMS8#PBF](#)

Analog Devices, Inc
MSOP-8P



[LTM8045EY#PBF](#)

Analog Devices, Inc
BGA40



[LT1038CK](#)

Analog Devices, Inc
TO-3



[LTC3440EMS](#)

Analog Devices, Inc
MSOP10



[LTC2990IMS#PBF](#)

Analog Devices, Inc
10MSOP



[LT4295IUFD#PBF](#)

Analog Devices, Inc
28-WFQFN