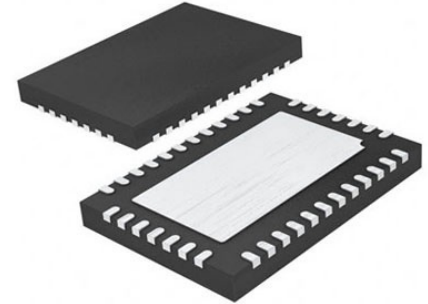


Conv DC-DC 2.5V to 5.5V Synchronous Step Down Single-Out 0.6V to 5.5V 7A 38-Pin QFN EP Tube

Manufacturers	Analog Devices, Inc
Package/Case	QFN-38
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3415EUHF#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3415 is a high efficiency, monolithic synchronous buck regulator using a phase lockable constant frequency, current mode architecture. PolyPhase® operation allows multiple LTC3415s to run out of phase while using minimal input and output capacitance. The operating supply range is from 5.5V down to 2.5V, making it suitable for single Lithium-Ion battery as well as point of load power supply applications. Burst Mode operation provides high efficiency at low load currents. 100% duty cycle provides low dropout operation that extends operating time in battery-operated systems.

The operating frequency is internally set at 1.5MHz, allowing the use of small surface mount inductors. For switching-noise sensitive applications, it can be externally synchronized from 0.75MHz to 2.25MHz. The PHMODE pin allows user control of the phase of the outgoing clock signal. The current sense comparator is factory trimmed for accurate output current sharing. Burst Mode operation is inhibited during synchronization or when the MODE pin is pulled low to reduce noise and RF interference.

Features

High Efficiency: Up to 96%

7A Output Current at >

Adjustable Frequency: 1.5MHz Nominal

PolyPhase Operation (Up to 12 Phases)

Spread Spectrum Frequency Modulation

Output Tracking and Margining

2.5V to 5.5V VIN Range

Phase Lockable from 0.75MHz to 2.25MHz

Selectable Burst Mode® Operation

Low Dropout Operation: 100% Duty Cycle

Low Quiescent Current: 450µA

Current Mode Operation for Excellent Line and Load Transient Response

Shutdown Mode Draws Only 0.2µA Supply Current

Available in 38-Pin (5mm × 7mm) QFN Package

Application

Point of Load Power Supply

Portable Instruments

Distributed Power Systems

Battery-Powered Equipment

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



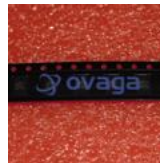
[LTC3440EMS](#)

Analog Devices, Inc
MSOP10



[LTC2990IMS#PBF](#)

Analog Devices, Inc
10MSOP



[LT4295IUFD#PBF](#)

Analog Devices, Inc
28-WFQFN