

Step Down DC-DC Converter, Adjustable, 0.8 5 V 10-Pin, DFN

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	DFN-10P
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3568EDD#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC3568 is a constant frequency, synchronous step- down DC/DC converter. Intended for medium power applications, it operates from a 2.5V to 5.5V input voltage range and has a user configurable operating frequency up to 4MHz, allowing the use of tiny, low cost capacitors and inductors 2mm or less in height. The output voltage is adjustable from 0.8V to 5V. Internal synchronous 0.11 $\Omega$  power switches with 2.4A peak current ratings provide high efficiency. The LTC3568's current mode architecture and external compensation allow the transient response to be optimized over a wide range of loads and output capacitors.

The LTC3568 can be configured for automatic power saving Burst Mode operation to reduce gate charge losses when the load current drops below the level required for continuous operation. For reduced noise and RF interference, the SYNC/MODE pin can be configured to skip pulses or provide forced continuous operation.

To further maximize battery life, the P-channel MOSFET is turned on continuously in dropout (100% duty cycle) with a low quiescent current of 60 $\mu$ A. In shutdown, the device draws <1 $\mu$ A.

## Features

Uses Tiny Capacitors and Inductor

High Frequency Operation: Up to 4MHz

Low RDS(ON) Internal Switches: 0.110Ω

High Efficiency: Up to 96%

Stable with Ceramic Capacitors

Current Mode Operation for Excellent Line and Load Transient Response

Short-Circuit Protected

Low Dropout Operation: 100% Duty Cycle

Low Shutdown Current:  $I_Q \leq 1\mu\text{A}$

Low Quiescent Current: 60μA

Output Voltages from 0.8V to 5V

Selectable Burst Mode® Operation

Synchronizable to External Clock

Small 3mm × 3mm, 10-Lead DFN Package

## Application

Notebook Computers

Digital Cameras

Cellular Phones

Handheld Instruments

Board Mounted Power Supplies

## Related Products



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TSSOP28



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Analog Devices, Inc  
TO-3



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