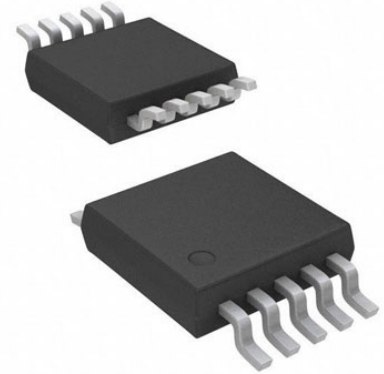


LTC3603 - 2.5A, 15V, Monolithic Synchronous Step-Down Regulator; Package: MSOP;
Number of Pins: 16; Temperature Range: -40°C to 85°C



Images are for reference only

Manufacturers	Analog Devices, Inc
Package/Case	16-TFSOP (0.118, 3.00mm Width)
Product Type	Power Management ICs
RoHS	
Lifecycle	

Please submit RFQ for LTC3603IMSE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3603 is a high efficiency, monolithic synchronous step-down DC/DC converter utilizing a constant-frequency, current mode architecture. It operates from an input voltage range of 4.5V to 15V and provides an adjustable regulated output voltage from 0.6V to 14.5V while delivering up to 2.5A of output current. The internal synchronous power switch with 45mΩ on-resistance increases efficiency and eliminates the need for an external Schottky diode. The switching frequency can either be set by an external resistor or synchronized to an external clock. OPTI-LOOP® compensation allows the transient response to be optimized over a wide range of loads and output capacitors.

The LTC3603 can be configured for either Burst Mode operation or forced continuous operation. Forced continuous operation reduces noise and RF interference, while Burst Mode operation provides the highest efficiency at light loads. In Burst Mode operation, external control of the burst clamp level allows the output voltage ripple to be adjusted according to the requirements of the application.

Features

Wide Input Voltage Range: 4.5V to 15V

2.5A Output Current

Low RDS(ON) Internal Switches: 45mΩ and 85mΩ

Programmable Frequency: 300kHz to 3MHz

Low Quiescent Current: 75μA

0.6V ±1% Reference Allows Precise,

Low Output Voltage

99% Maximum Duty Cycle

Adjustable Burst Mode® Clamp

Synchronizable to External Clock

Power Good Output Voltage Monitor

Overtemperature Protection

Overvoltage Protection

Available in 16-Lead Thermally Enhanced MSOP and 4mm × 4mm QFN Packages

Application

Point-of-Load Supplies

Portable Instruments

Communications Infrastructure

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



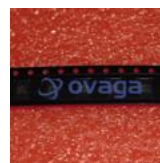
[LTC3440EMS](#)

Analog Devices, Inc
MSOP10



[LTC2990IMS#PBF](#)

Analog Devices, Inc
10MSOP



[LT4295IUFD#PBF](#)

Analog Devices, Inc
28-WFQFN