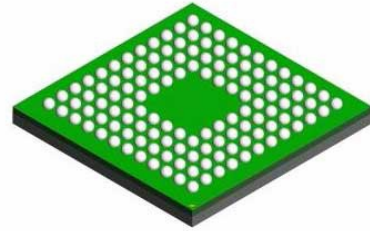


IC REG BUCK ADJUSTABLE 20A 42BGA

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	42-LFBGA
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC7150SIY#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC7150S is a high efficiency monolithic synchronous buck regulator capable of delivering 20A to the load. It uses a phase lockable controlled on-time constant frequency, current mode architecture. PolyPhase operation allows multiple LTC7150S regulators to run out-of-phase, which reduces the amount of input and output capacitors required. The operating supply voltage range is from 3.1V to 20V.

The operating frequency is programmable from 400kHz to 3MHz with an external resistor. The high frequency capability allows the use of physically smaller inductor and capacitor sizes. For switching noise sensitive applications, the LTC7150S can be externally synchronized from 400kHz to 3MHz. The PHMODE pin allows the user control of the phase of the outgoing clock signal. The unique constant frequency/controlled on-time architecture is ideal for high step-down ratio applications that operate at high frequencies while demanding fast transient response. The LTC7150S uses second generation Silent Switcher technology including integrated bypass capacitors to deliver a highly efficient solution at high frequencies with excellent EMI performance.

## Features

AEC-Q100 Qualified for Automotive Applications

Silent Switcher®2 Architecture for Low EMI

VIN Range: 3.1V to 20V

VOUT Range: 0.6V to 5.5V

Differential VOUT Remote Sense

Adjustable Frequency: 400kHz to 3MHz

PolyPhase® Operation: Up to 12 Phases

Output Tracking and Soft-Start

Reference Accuracy: 0.6V ±1% Over Temperature

Current Mode Operation for Excellent Line and Load Transient Response

Accurate 1.2V Run Pin Threshold

Supports Forced Continuous/Discontinuous Modes

42-Lead 6mm × 5mm × 1.3mm BGA Package

## Application

Server Power Applications

Distributed Power Systems

Point of Load Supply for ASIC, FPGA, DSP, µP, etc.

## Related Products



### [LT3763EFE](#)

Analog Devices, Inc  
TSSOP28



### [LT1038CK](#)

Analog Devices, Inc  
TO-3



### [LTC4417IUF](#)

Analog Devices, Inc  
QFN-24



### [LTC3440EMS](#)

Analog Devices, Inc  
MSOP10



### [LTC1966CMS8#PBF](#)

Analog Devices, Inc  
MSOP-8P



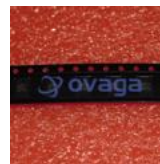
### [LTC2990IMS#PBF](#)

Analog Devices, Inc  
10MSOP



### [LTM8045EY#PBF](#)

Analog Devices, Inc  
BGA40



### [LT4295IUFD#PBF](#)

Analog Devices, Inc  
28-WFQFN