

IC REG BUCK ADJ 4.5A 8SOIC

Manufacturers	<u>Analog Devices, Inc</u>
Package/Case	SOP8
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT1374IS8#TRPBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours. [RFQ](#)

General Description

The LT1374 is a 500kHz monolithic buck mode switching regulator. A 4.5A switch is included on the die along with all the necessary oscillator, control and logic circuitry. High switching frequency allows a considerable reduction in the size of external components. The topology is current mode for fast transient response and good loop stability. Both fixed output voltage and adjustable parts are available.

A special high speed bipolar process and new design techniques achieve high efficiency at high switching frequency. Efficiency is maintained over a wide output current range by using the output to bias the circuitry and by utilizing a supply boost capacitor to saturate the power switch.

The LT1374 is available in standard 7-pin DD, TO-220, fused lead SO-8 and 16-pin exposed pad TSSOP packages. Full cycle-by-cycle short-circuit protection and thermal shutdown are provided. Standard surface mount external parts may be used, including the inductor and capacitors. There is the optional function of shutdown or synchronization. A shutdown signal reduces supply current to 20µA. Synchronization allows an external logic level signal to increase the internal oscillator from 580kHz to 1MHz.

Features

Constant 500kHz Switching Frequency

High Power 16-Pin TSSOP Package Available

Uses All Surface Mount Components

Inductor Size Reduced to 1.8 μ H

Saturating Switch Design: 0.07 Ω

Effective Supply Current: 2.5mA

Shutdown Current: 20 μ A

Cycle-by-Cycle Current Limiting

Easily Synchronizable

Application

Portable Computers

Battery-Powered Systems

Battery Chargers

Distributed Power

CUST PO. : 4200126380

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48A up

CUST PART : 81T24-0920008-01

VENDOR

MANF. PART : LT13741S8#PBF

LTC

QTY : 75 COO : MY

DATE CODE : 1143

TRANS : P8335646

RHC

ROHS COMPLIANT
7463061 - PW - 7433
53 - UPS WORLDEASE
4.5A 500KHZ STEPDOWN SW REG

E 0/0015 4
7522930 17 - 34



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

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