

Conv DC-DC 3V to 40V Step Down Single-Out 0.5A Automotive 8-Pin DFN EP T/R

Manufacturers	Analog Devices, Inc
Package/Case	DFN8
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT3502AIDC#TRPBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT3502/LT3502A are current mode PWM step-down DC/DC converters with an internal 500mA power switch, in tiny 8-lead 2mm × 2mm DFN and 10-lead MS10 packages. The wide input voltage range of 3V to 40V makes the LT3502/LT3502A suitable for regulating power from a wide variety of sources, including 24V industrial supplies and automotive batteries. Its high operating frequency allows the use of tiny, low cost inductors and capacitors, resulting in a very small solution. Constant frequency above the AM band avoids interfering with radio reception, making the LT3502A particularly suitable for automotive applications.

Cycle-by-cycle current limit and frequency foldback provide protection against shorted outputs. Soft-start and frequency foldback eliminates input current surge during start-up. DA current sense provides further protection in fault conditions. An internal boost diode reduces component count.

Features

3V to 40V Input Voltage Range

500mA Output Current

Switching Frequency: 2.2MHz (LT3502A), 1.1MHz (LT3502)

800mV Feedback Voltage

Short-Circuit Robust

Soft-Start

Low Shutdown Current: $<2\mu\text{A}$

Internally Compensated

Internal Boost Diode

Thermally Enhanced 2mm × 2mm 8-Lead DFN and 10-Lead MS10 Package

Application

Automotive Systems

Battery-Powered Equipment

Wall Transformer Regulation

Distributed Supply Regulation

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](#)

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MSOP10



[LTC2990IMS#PBF](#)

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10MSOP



[LT4295IUFD#PBF](#)

Analog Devices, Inc
28-WFQFN