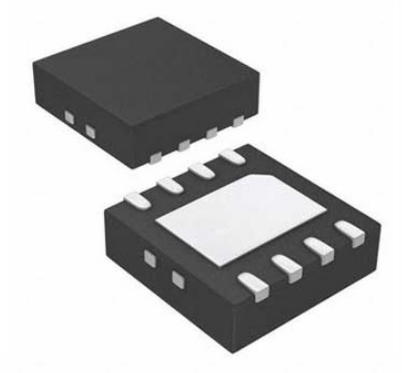


1.1MHz/2.2MHz, 500mA Step-Down Regulators in 2mm x 2mm DFN and MS10; Package: DFN; No of Pins: 8; Temperature Range: -40°C to +125°C

|               |                                     |
|---------------|-------------------------------------|
| Manufacturers | <a href="#">Analog Devices, Inc</a> |
| Package/Case  | QFN-8                               |
| Product Type  | Power Management ICs                |
| RoHS          | Pb-free Halide free                 |
| Lifecycle     |                                     |



Images are for reference only

Please submit RFQ for LT3502AEDC#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  $\times$  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](#)

Analog Devices, Inc  
MSOP10



### [LTC2990IMS#PBF](#)

Analog Devices, Inc  
10MSOP



### [LT4295IUFD#PBF](#)

Analog Devices, Inc  
28-WFQFN