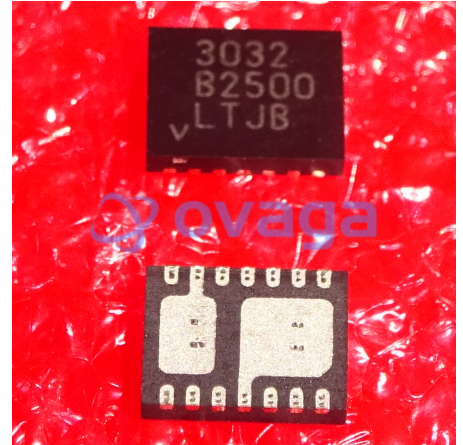


LDO Regulator Neg/Pos  $\pm 1.22V$  to  $\pm 20V \pm 0.15A$  Automotive 14-Pin DFN EP Tube

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	DFN-14P
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT3032EDE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LT3032 is a dual, low noise, positive and negative low dropout voltage linear regulator. Each regulator delivers up to 150mA with a typical 300mV dropout voltage. Each regulator's quiescent current is low (30 $\mu$ A operating and <3 $\mu$ A in shutdown) and well-controlled in dropout, making it an excellent choice for battery-powered circuits.

Another key feature of the LT3032 is low output noise. Adding an external 10nF bypass capacitor to each regulator reduces output noise to 20 $\mu$ V<sub>RMS</sub>/30 $\mu$ V<sub>RMS</sub> over a 10Hz to 100kHz bandwidth. The LT3032 is stable with minimum output capacitors of 2.2 $\mu$ F. The regulators do not require the addition of ESR as is common with other regulators.

The regulators are offered as adjustable output devices with an output voltage down to the  $\pm 1.22V$  reference voltage or in fixed voltages of  $\pm 3.3V$ ,  $\pm 5V$ ,  $\pm 12V$  and  $\pm 15V$ . Internal protection circuitry includes reverse-output protection, current limiting and thermal limiting.

The LT3032 is available in a unique low profile 14-lead 4mm  $\times$  3mm  $\times$  0.75mm DFN package with exposed backside pads for each regulator, allowing optimum thermal performance.

## Features

Low Noise: 20 $\mu$ VRMS (Positive) and 30 $\mu$ VRMS (Negative)

Low Quiescent Current: 30 $\mu$ A/Channel

Wide Input Voltage Range:  $\pm$ 2.3V to  $\pm$ 20V

Output Current:  $\pm$ 150mA

Low Shutdown Current: <3 $\mu$ A Total (Typical)

Low Dropout Voltage: 300mV/Channel

Fixed Output Voltages:  $\pm$ 3.3V,  $\pm$ 5V,  $\pm$ 12V,  $\pm$ 15V

Adjustable Outputs from  $\pm$ 1.22V to  $\pm$ 20V

No Protection Diodes Needed

Stable with 2.2 $\mu$ F Output Capacitors

Stable with Ceramic, Tantalum or Aluminum Capacitors

Starts into Reverse Output Voltage

Current Limit and Thermal Limit

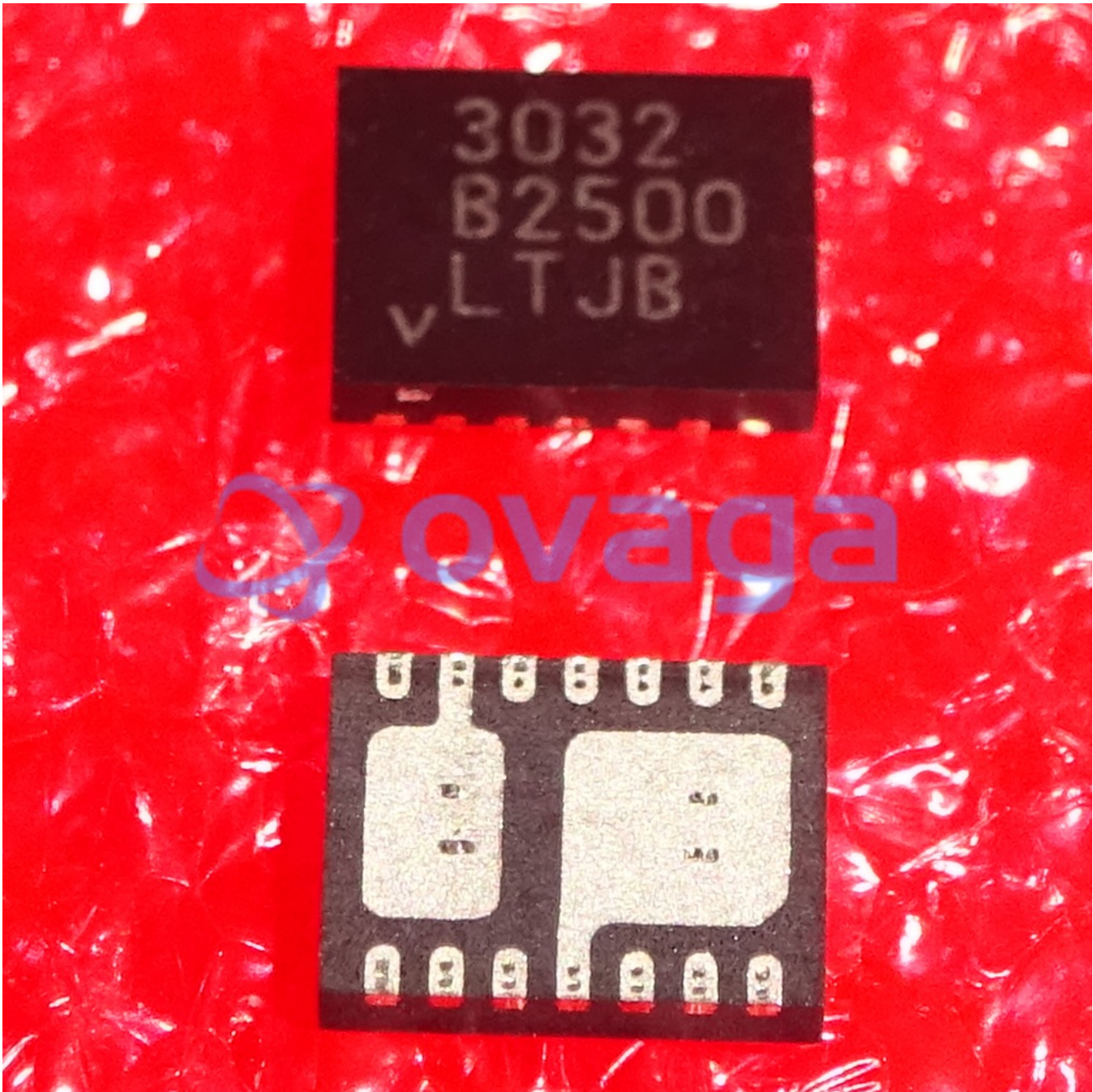
Low Profile 14-Lead 4mm  $\times$  3mm  $\times$  0.75mm DFN Package

## Application

Battery-Powered Instruments

Bipolar Power Supplies

Low Noise Power Supplies



### 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](#)

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28-WFQFN