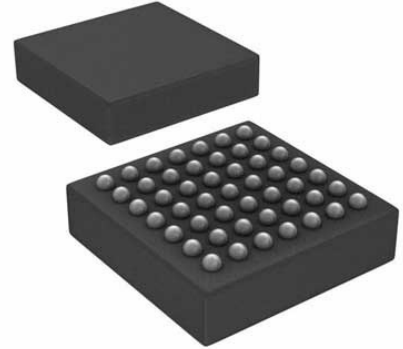


40VIN, 2.5A Silent Switcher  $\mu$ Module Regulator

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	49-Lead BGA (6.25mm x 6.25mm x 2.22mm)
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTM8002HY or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTM8002 is a 40VIN, 2.5A step-down  $\mu$ Module<sup>®</sup> (power module) regulator. Included in the package are the switching controller, power switches, inductor, and all support components. Operating over an input voltage range of 3.4V to 40V, the LTM8002 supports an output voltage range of 0.97V to 18V and a switching frequency range of 200kHz to 3MHz, each set by a single resistor. Only the input and output filter capacitors are needed to finish the design.

The low profile package enables utilization of unused space on the bottom of PC boards for high density point of load regulation. The LTM8002 is packaged in a thermally enhanced, compact over-molded ball grid array (BGA) package suitable for automated assembly by standard surface mount equipment. The LTM8002 is available with SnPb or RoHS compliant terminal finish.

## Features

Complete Step-Down Switch Mode Power Supply

Low Noise Silent Switcher<sup>®</sup> Architecture

Wide Temperature Range: -40°C to 150°C (H-Grade)

2.8A Continuous for 5VOUT, 12VIN, 2MHz at 105°C (H-Grade)

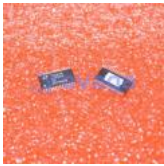
Selectable Switching Frequency: 200kHz to 3MHz

External Synchronization

Low Quiescent Current: 25 $\mu$ A (5VOUT)

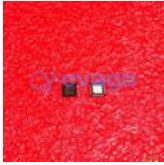
Tiny, Low Profile 6.25mm  $\times$  6.25mm  $\times$  2.22mm BGA Package

## Related Products



### [LT3763EFE](#)

Analog Devices, Inc  
TSSOP28



### [LTC4417IUF](#)

Analog Devices, Inc  
QFN-24



### [LTC1966CMS8#PBF](#)

Analog Devices, Inc  
MSOP-8P



### [LTM8045EX#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