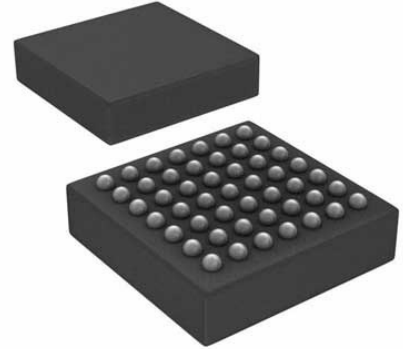


36V, 1.5A Buck-Boost  $\mu$ Module Regulator

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 LTM8083IY#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTM8083 is a 36VIN, Buck-Boost  $\mu$ Module<sup>®</sup> Regulator. Included in the package are the switching controller, power switches, inductor, and support components. All that is needed to complete the design is resistors for setting the output voltage and operating frequency, and input and output capacitors. Operating over an input voltage range from 3V to 36V, the LTM8083 can regulate output voltages between 1V and 36V with seamless low-noise transitions between operation regions, as well as controlling both input and output average currents through external sense resistors.

The low profile package enables utilization of unused space on the bottom of PC boards for high density point of load regulation. The LTM8083 is packaged in thermally enhanced, compact over-molded Ball Grid Array (BGA) packages suitable for automated assembly by standard surface mount equipment. The LTM8083 is RoHS compliant.

## APPLICATIONS

## Features

Complete Buck-Boost Switch Mode Power Supply

Wide Input Voltage Range: 3V to 36V

Wide Output Voltage Range: 1V to 36V

12V/0.8A Output at 6VIN

12V/1.5A Output at 12VIN

12V/1.5A Output at 36VIN

Integrated Three-Terminal Capacitors and Spread Spectrum for Excellent EMI Performance

Compliant with CISPR25 Class 5 Limits (Refer to Figure 25 in the data sheet)

300kHz to 2MHz Fixed Switching Frequency with External Frequency Synchronization

Adjustable Output Current Limit

Output Current Monitoring

RoHS Compliant Package

6.25mm × 6.25mm × 2.22mm BGA Package

## Application

Battery-Operated Devices

Test and Measurement Equipment

Industrial Control

Solar Powered Voltage Regulator

Solar Powered Battery Charging

## 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