

36VIN, 5.4A Buck-Boost μ Module Regulator

Manufacturers	Analog Devices, Inc
Package/Case	88-Lead BGA (15mm x 11.25mm x 3.42mm)
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTM8054MPY#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTM8054 is a 36VIN, buck-boost μ Module[®](micromodule) regulator. Included in the package are the switching controller, power switches, inductor and support components. A resistor to set the switching frequency, a resistor divider to set the output voltage, and input and output capacitors are all that are needed to complete the design. Other features such as input and output average current regulation may be implemented with just a few components. The LTM8054 operates over an input voltage range of 5V to 36V, and can regulate output voltages between 1.2V and 36V. The SYNC input and CLKOUT output allow easy synchronization.

The LTM8054 is housed in a compact overmolded ball grid array (BGA) package suitable for automated assembly by standard surface mount equipment. The LTM8054 is RoHS compliant.

Buck Boost Selection Table

LTM8054 LTM8055 LTM8056 VIN (Operation) 36V 36V 36V Abs Max 40V 40V 40V VOUT Abs Max 40V 40V 40V IOUT (Peak) 24VIN, 12VOUT 5.48.55.5 Package 15 x 11.25mm x 3.42mm BGA 15 x 15mm x 4.92mm BGA 15 x 15mm x 4.92mm BGA

Features

Complete Buck-Boost Switch Mode Power Supply

Wide Input Voltage Range: 5V to 36V

Wide Output Voltage Range: 1.2V to 36V

VIN May Be Greater than, Equal to or Less than VOUT

12V/1.8A Output from 6VIN

12V/3.4A Output from 12VIN

12V/5.4A Output from 24VIN

Up to 94% Efficient

Adjustable Input and Output Average Current Limits

Input and Output Current Monitors

Parallelable for Increased Output Current

Selectable Switching Frequency: 100kHz to 800kHz

Synchronization from 200kHz to 700kHz

11.25mm × 15mm × 3.42mm BGA Package

Application

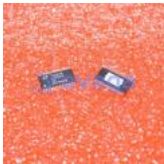
High Power Battery-Operated Devices

Industrial Control

Solar Powered Voltage Regulator

Solar Powered Battery Charging

Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LT1038CK](#)

Analog Devices, Inc
TO-3



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC3440EMS](#)

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MSOP10



[LTC1966CMS8#PBF](#)

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MSOP-8P



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[LTM8045EY#PBF](#)

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BGA40



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Analog Devices, Inc
28-WFQFN