🔉 ovaga

LTM4644MPY#PBF

Data Sheet

Conv DC-DC 4V to 14V Step Down Quad-Out 0.6V to 5.5V 4A/4A/4A uModule

Manufacturers

Analog Devices, Inc

Package/Case

BGA-77

Product Type

Power Management ICs

RoHS

Green

Infages are for reference only

Please submit RFQ for Email to us: sales@ovaga.com We will contact you in 12 hours.

General Description

The LTM4644/LTM4644-1 is a quad DC/DC step-down µModule (micromodule) regulator with 4A per output. Outputs can be paralleled in an array for up to 16A capability. Included in the package are the switching controllers, power FETs, inductors and support components. Operating over an input voltage range of 4V to 14V or 2.375V to 14V with an external bias supply, the LTM4644/LTM4644-1 supports an output voltage range of 0.6V to 5.5V. Its high efficiency design delivers 4A continuous (5A peak) output current per channel. Only bulk input and output capacitors are needed.

Features

Quad Output Step-Down $\mu Module \ensuremath{\mathbb{R}}$ Regulator with 4A per Output

Wide Input Voltage Range: 4V to 14V

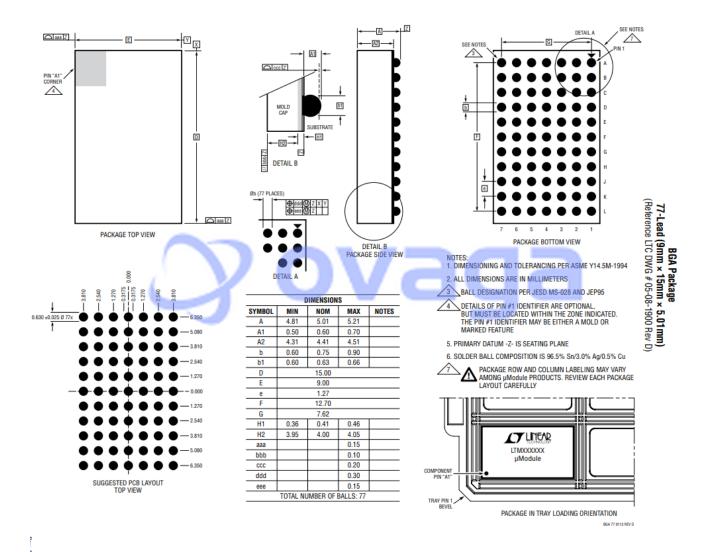
2.375V to 14V with External Bias

- 0.6V to 5.5V Output Voltage
- 4A DC, 5A Peak Output Current Each Channel
- Up to 5.5W Power Dissipation>
- Current Mode Control, Fast Transient Response
- Parallelable for Higher Output Current
- Output Voltage Tracking
- Internal Temperature Sensing Diode Output
- External Frequency Synchronization
- Overvoltage, Current and Temperature Protection
- $9mm \times 15mm \times 5.01mm$ BGA Package

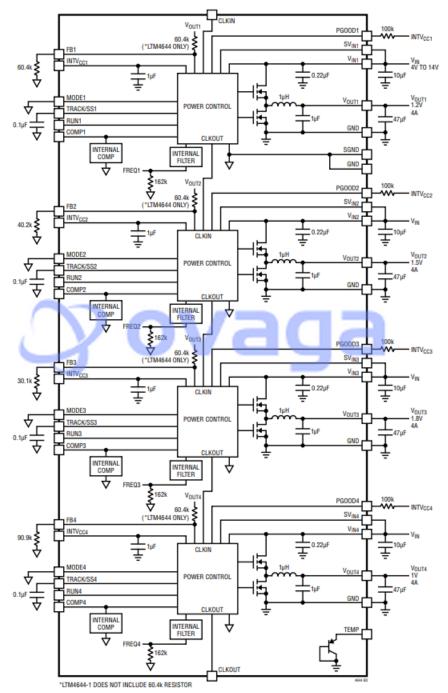
Application

Multirail Point of Load Regulation

FPGAs, DSPs and ASICs Applications



BLOCK DIAGRAM



Related Products



<u>LT3763EFE</u>

Analog Devices, Inc TSSOP28



LTC4417IUF

Analog Devices, Inc QFN-24



LT1038CK

Analog Devices, Inc TO-3

LTC3440EMS

Analog Devices, Inc MSOP10



LTC1966CMS8#PBF

Analog Devices, Inc MSOP-8P



LTM8045EY#PBF

Analog Devices, Inc BGA40



) ovaga

LTC2990IMS#PBF

Analog Devices, Inc 10MSOP



Analog Devices, Inc 28-WFQFN