

LTM4638EY#PBF

Data Sheet

20VIN, 15A Step-Down DC/DC µModule Regulator

Manufacturers	Analog Devices, Inc	
Package/Case	49-Lead BGA (6.25mm x 6.25mm x 5.02mm)	
Product Type	Power Management ICs	
RoHS		
Lifecycle		Images are for reference only

Please submit RFQ for LTM4638EY#PBF or Email to us: sales@ovaga.com We will contact you in 12 hours.

RFO

General Description

The LTM4638 is a complete 15A step-down switching mode μ Module (power module) regulator in a tiny 6.25mm × 6.25mm × 5.02mm BGA package. Included in the package are the switching controller, power FETs, inductor and support components. Operating over an input voltage range of 3.1V to 20V, the LTM4638 supports an output voltage range of 0.6V to 5.5V, set by a single external resistor. Its high efficiency design delivers up to 15A continuous output current. Only bulk input and output capacitors are needed.

The LTM4638 supports selectable discontinuous mode operation and output voltage tracking for supply rail sequencing. Its high switching frequency and current mode control enable a very fast transient response to line and load changes without sacrificing stability.

Fault protection features include overvoltage, overcurrent and overtemperature protection.

The LTM4638 is available with SnPb or RoHS compliant terminal finish.

Features

Application

Complete Solution in <1 cm2 (Single-Sided PCB) or 0.5 cm2 (Dual-Sided PCB)

 $6.25 \text{mm} \times 6.25 \text{mm} \times 5.02 \text{mm} \, \text{BGA Package}$

Wide Input Voltage Range: 3.1V to 20V

0.6V to 5.5V Output Voltage

15A DC Output Current

- Differential Remote Sensing Amp
- Current Mode Control, Fast Transient Response
- External Frequency Synchronization

Multiphase Parallel Current Sharing with Multiple LTM4638s

Output Voltage Tracking

Selectable Discontinuous Mode

Power Good Indicator

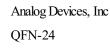
Overvoltage, Overcurrent and Overtemperature Protection

Related Products



LT3763EFE Analog Devices, Inc TSSOP28





LTC4417IUF



LTC1966CMS8#PBF Analog Devices, Inc MSOP-8P



LTM8045EY#PBF Analog Devices, Inc BGA40







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LT1038CK Analog Devices, Inc

TO-3

LTC3440EMS

Analog Devices, Inc MSOP10

LTC2990IMS#PBF

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LT4295IUFD#PBF

Analog Devices, Inc 28-WFQFN

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