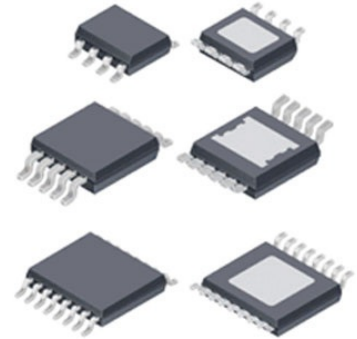


LDO VOLTAGE REGULATOR ADJUSTABLE, 200mV TO 9.5V, 1A, MSOP-16

| | |
|---------------|-------------------------------------|
| Manufacturers | Analog Devices, Inc |
| Package/Case | MSOP-16 |
| Product Type | Power Management ICs |
| RoHS | Pb-free Halide free |
| Lifecycle | |



Images are for reference only

Please submit RFQ for LT3022EMSE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT3022 is a very low dropout voltage (VLDO™) linear regulator that operates from single input supplies down to 0.9V. The device supplies 1A output current with 145mV typical dropout voltage. The LT3022 is ideal for low input voltage to low output voltage applications, providing comparable electrical efficiency to a switching regulator. The regulator optimizes stability and transient response with low ESR ceramic output capacitors as small as 10µF. Other LT3022 features include 0.05% typical line regulation and 0.05% typical load regulation. In shutdown, quiescent current typically drops to 7.5µA. Internal protection circuitry includes reverse-battery protection, current limiting, thermal limiting with hysteresis and reverse-current protection.

The LT3022 is available as an adjustable device with an output voltage range down to the 200mV reference. Three fixed output voltages, 1.2V, 1.5V and 1.8V are also offered. The LT3022 regulator is available in the thermally enhanced low profile (0.75mm) 16-lead (5mm × 3mm) DFN and MSOP packages.

Features

VIN Range: 0.9V to 10V

Dropout Voltage: 145mV Typical

Output Current: 1A

Adjustable Output = 200mV)

Fixed Output Voltages: 1.2V, 1.5V, 1.8V

Stable with Low ESR, Ceramic Output Capacitors (10 μ F Minimum)

0.05% Typical Load Regulation from 1mA to 1A

Quiescent Current: 400 μ A Typical

7.5 μ A Typical Quiescent Current in Shutdown

Current Limit Protection

Reverse-Battery Protection with No Reverse Current

Thermal Limiting with Hysteresis

16-Lead (5mm \times 3mm) DFN and MSOP Packages

Application

High Efficiency Linear Regulators

Battery-Powered Systems

Logic Supplies

Post Regulator for Switching Supplies

Wireless Modems

FPGA Core Supplies

Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LT1038CK](#)

Analog Devices, Inc
TO-3



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC3440EMS](#)

Analog Devices, Inc
MSOP10



[LTC1966CMS8#PBF](#)

Analog Devices, Inc
MSOP-8P



[LTC2990IMS#PBF](#)

Analog Devices, Inc
10MSOP



[LTM8045EY#PBF](#)

Analog Devices, Inc
BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc
28-WFQFN