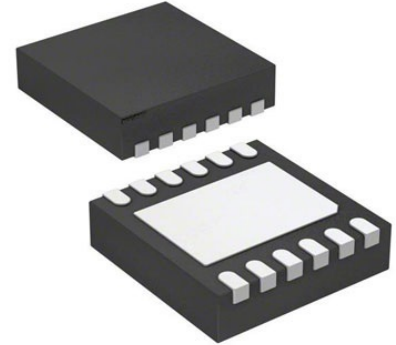


Conv DC-DC 3.6V to 25V Step Down Dual-Out 0.8V to 23.25V 1.6A/1.6A Automotive
16-Pin DFN EP Tube



Images are for reference only

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

Please submit RFQ for LT3506IDHD#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT3506 is a dual current mode PWM step-down DC/DC converter with internal 2A power switches. Both converters are synchronized to a single oscillator and run with opposite phases, reducing input ripple current. The output voltages are set with external resistor dividers, and each regulator has independent shutdown and soft-start circuits. Each regulator generates a power-good signal when its output is in regulation, easing power supply sequencing and interfacing with microcontrollers and DSPs.

The LT3506 switching frequency is 575kHz and the LT3506A is 1.1MHz. These high switching frequencies allow the use of tiny inductors and capacitors, resulting in a very small dual 1.6A output solution. Constant frequency and ceramic capacitors combine to produce low, predictable output ripple voltage. With its wide input range of 3.6V to 25V, the LT3506 regulates a wide variety of power sources, from 4-cell batteries and 5V logic rails to unregulated wall transformers, lead acid batteries and distributed-power supplies. Current mode PWM architecture provides fast transient response with simple compensation components and cycle-by-cycle current limiting. Frequency foldback and thermal shutdown provide additional protection.

Features

Wide Input Voltage Range, 3.6V to 25V

Two 1.6A Output Switching Regulators with Internal Power Switches

Constant Switching Frequency

LT3506: 575kHz

LT3506A: 1.1MHz

Anti-Phase Switching Reduces Ripple

Accurate 0.8V Reference, $\pm 1\%$

Independent Shutdown/Soft-Start Pins

Independent Power Good Indicators Ease Supply Sequencing

Uses Small Inductors and Ceramic Capacitors

Small 16-Lead Thermally Enhanced 5mm \times 4mm DFN and TSSOP Surface Mount Packages

Application

Disk Drives

DSP Power Supplies

Wall Transformer Regulation

Distributed Power Regulation

DSL Modems

Cable Modems

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