

500KHz, 18V, 3.0A Synchronous Step-Down Converter

FEATURES

- High Efficiency: Up to 95%
- 500KHz Frequency Operation
- 3.0A Output Current
- No Schottky Diode Required
- 4.5V to 18V Input Voltage Range
- 0.6V Reference
- Slope Compensated Current Mode Control for Excellent Line and Load Transient Response
- Integrated internal compensation
- Stable with Low ESR Ceramic Output Capacitors
- Over Current Protection with Hiccup-Mode
- Input overvoltage protection(OVP)
- Thermal Shutdown
- Inrush Current Limit and Soft Start
- Available in SOT23-6 Package
- -40°C to +85°C Temperature Range

GENERAL DESCRIPTION

The STI3471 is a fully integrated, high-efficiency 3.0A synchronous rectified step-down converter. The STI3471 operates at high efficiency over a wide output current load range.

This device offers two operation modes, PWM control and PFM Mode switching control, which allows a high efficiency over the wider range of the load.

The STI3471 requires a minimum number of readily available standard external components and is available in a 6-pin SOT23 ROHS compliant package.

APPLICATIONS

- Distributed Power Systems
- Digital Set Top Boxes
- Flat Panel Television and Monitors
- Notebook computer
- Wireless and DSL Modems

APPLICATIONS

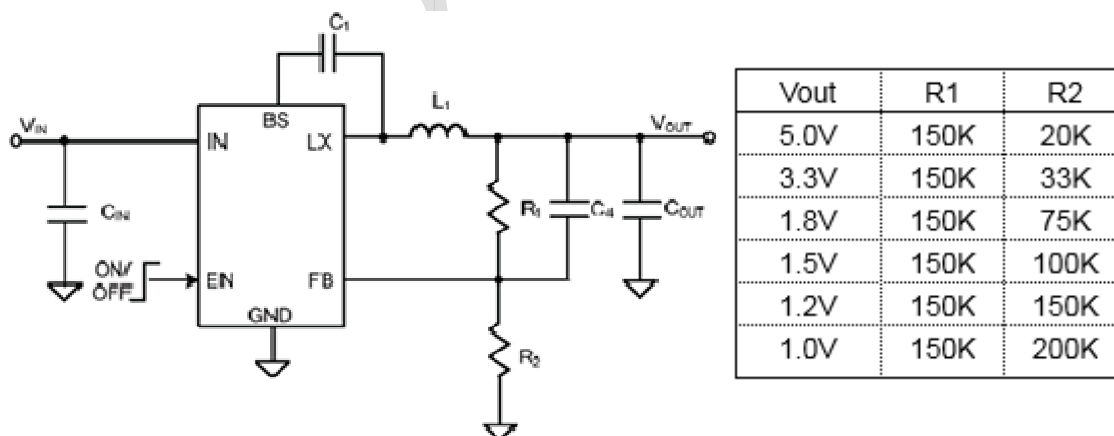


Figure 1. Basic Application Circuit