

*Preliminary Specifications Subject to Change without Notice*

## DESCRIPTION

The JW<sup>®</sup>5305 and JW<sup>®</sup>5305F are monolithic buck switching regulators based on I2 architecture for fast transient response. Operating with an input range of 4.5V~18V, JW5305 and JW5305F deliver 5A of continuous output current with two integrated N-Channel MOSFETs. The internal synchronous power switches provide high efficiency without the use of an external Schottky diode.

JW5305 and JW5305F guarantees robustness with output short protection, thermal protection, current run-away protection, and input under voltage lockout.

JW5305 and JW5305F are available in ESOP8 package, which provide a compact solution with minimal external components.

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## FEATURES

- 4.5V to 18V operating input range
- 5A output current
- 580kHz switching frequency
- 1% feedback voltage accuracy
- Internal soft-start
- Power good indicator
- PFM operation at light load (JW5305)
- FCCM operation at light load (JW5305F)
- Output short protection
- Thermal protection
- Available in ESOP8 package

## APPLICATIONS

- Distributed Power Systems
- Networking Systems
- FPGA, DSP, ASIC Power Supplies
- Green Electronics/ Appliances
- Notebook Computers

## TYPICAL APPLICATION

18V/5A Step Down Regulator

