



## CJ6216 Series Low-dropout Regulators

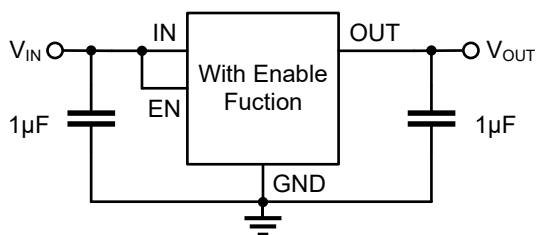
### 1 Introduction

The CJ6216 Series is a linear regulator capable of supplying 500mA output current. Designed to meet the requirements of RF and analog circuits, the CJ6216 Series provides low noise, high PSRR, low quiescent current and very good load / line transients. Using innovative design techniques, the CJ6216 series offers an ultra-low noise performance without the addition of a noise bypass capacitor. The CJ6216 Series can work with a 1 $\mu$ F input and 1 $\mu$ F output ceramic capacitor.

The CJ6216 Series is available in DFNWB1 $\times$ 1-4L, SOT-23-5L, and CSPC0606-4 packages.

### 2 Applications

- Smartphones/tablets
- Digital cameras
- Image sensors
- Instrumentation
- VCO and RF modules



Typical Application Circuits

### 3 Features

- Low output voltage noise: 4.5 $\mu$ VRMS
- Power Supply Rejection Ratio:
  - 98dB@1kHz (Typ.)
  - 91dB@10kHz (Typ.)
  - 73dB@100kHz (Typ.)
- Input Voltage Range: 1.8V ~ 5.5V
- Fixed Output Voltage:
  - Available from 1.2V to 5.0V
- Output Voltage Tolerance:  $\pm$ 1%
- Output Current: up to 500mA
- Low Quiescent Current: 10 $\mu$ A (Typ.)
- Shutdown Current: 0.005 $\mu$ A (Typ.)
- Dropout Voltage:
  - 200mV@500mA
  - ( $V_{OUT} = 2.8V, SOT-23-5L$ )
- Excellent Transient Response
- Integrated Fault Protection:
  - Inrush Current Limit
  - Output Current Limit
  - Thermal Shutdown
  - Short-Circuit Protection

### 4 Available Packages

PART NUMBER	PACKAGE
CJ6216 Series	SOT-23-5L
	DFNWB1 $\times$ 1-4L
	CSPC0606-4