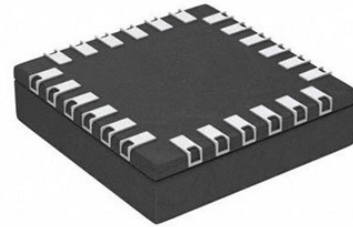


LDO Regulator Pos 0.5V to 1.5V 4A 16-Pin LFCSP EP T/R

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	16-WFQFN, CSP
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for ADP1764ACPZ-R7 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The ADP1764 is a low noise, low dropout (LDO) linear regulator. It is designed to operate from a single input supply with an input voltage as low as 1.10 V without the requirement of an external bias supply to increase efficiency and provide up to 4 A of output current (IOUT).

The low 47 mV typical dropout voltage at a 4 A load allows the ADP1764 to operate with a small headroom while maintaining regulation and providing better efficiency.

The ADP1764 is optimized for stable operation with small 22  $\mu$ F ceramic output capacitors. The ADP1764 delivers optimal transient performance with minimal printed circuit board (PCB) area.

The ADP1764 is available in fixed output voltages ranging from 0.55 V to 1.5 V. The output voltage (VOOUT) of the adjustable output model can be set from 0.5 V to 1.5 V through an external resistor connected between VADJ and ground.

The ADP1764 has an externally programmable soft start time by connecting a capacitor to the SS pin. Short-circuit and thermal overload protection circuits prevent damage in adverse conditions. The ADP1764 is available in a small, 16-lead LFCSP package for the smallest footprint solution to meet a variety of applications.

## Features

## Application

4 A maximum output current	Regulation to noise sensitive applications such as radio frequency (RF) transceivers, analog-to-digital converter (ADC) and digital-to-analog converter (DAC) circuits, phase-locked loops (PLLs), voltage controlled oscillators (VCOs) and clocking integrated circuits
Low input voltage supply >	
Fixed output voltage range (VOOUT_FIXED): 0.55 V to 1.5 V	Field-programmable gate array (FPGA) and digital signal processor (DSP) supplies Medical and healthcare
Adjustable output voltage range (VOOUT_ADJ): 0.5 V to 1.5 V	Industrial and instrumentation

Ultralow noise: 2  $\mu\text{V}$  rms,  
100 Hz to 100 kHz

Noise spectral density: 5  
nV/ $\sqrt{\text{Hz}}$  at 10 kHz; 4  
nV/ $\sqrt{\text{Hz}}$  at 100 kHz

Low dropout voltage: 47 mV  
typical at 4 A load

Operating supply current: 5  
mA typical at no load

Excellent power supply  
rejection ratio (PSRR)  
performance

69 dB typical at 10 kHz at 4  
A load

46 dB typical at 100 kHz at  
4 A load

Excellent load/line transient  
response

Soft start to reduce inrush  
current

Optimized for small 22  $\mu\text{F}$   
ceramic capacitors

Current-limit and thermal  
overload protection

Power-good indicator

Precision enable

16-lead, 3 mm  $\times$  3 mm  
LFCSP package

## Related Products



[ADP3336ARMZ-REEL7](#)

Analog Devices, Inc  
MSOP-8



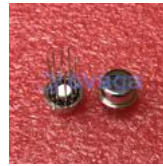
[AD737JRZ](#)

Analog Devices, Inc  
SOP-8



[ADP3367ARZ](#)

Analog Devices, Inc  
SOIC-8



[AD636JH](#)

Analog Devices, Inc  
TO-100-10



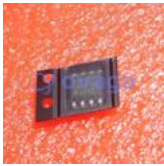
[ADP3330ARTZ3.3-RL7](#)

Analog Devices, Inc  
SOT-23-6



[ADR434BRZ](#)

Analog Devices, Inc  
SOIC-8



[ADR421ARZ](#)

Analog Devices, Inc  
SOP-8



[ADR3412ARJZ-R7](#)

Analog Devices, Inc  
SOT-23-6