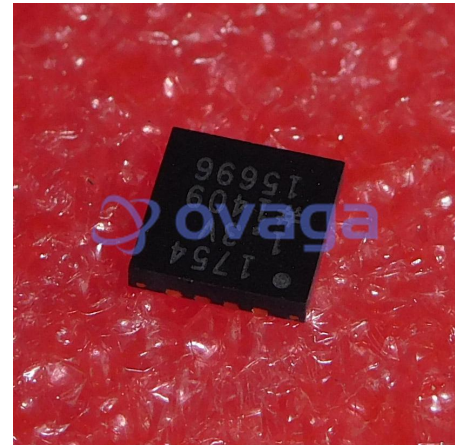


## 1.2 A, Low VIN, Low Dropout Linear Regulator

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	LFCSP16
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ADP1754ACPZ-1.3-R7 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The ADP1754/ADP1755 are CMOS, low dropout linear regulators that operate from 1.6 V to 3.6 V and provide up to 1.2A of output current. These Low Vin / Vout LDOs are ideal for regulation of nanometer FPGA geometries operating from 2.5V down to 1.8V I/O rails, and powering core voltages down to 0.75V. Using an advanced proprietary architecture, they provide high power supply rejection, low noise, and achieve excellent line and load transient response with a small 4.7  $\mu$ F ceramic output capacitor. The ADP1754 is available in 7 fixed output voltage options. The ADP1755 is available in an adjustable version, which allows output voltages that range from 0.75 V to 3.0 V via an external divider. The ADP1754/ADP1755 allows an external soft start capacitor to be connected to program the start-up. A power good output allows power system monitors to digitally check the health of the output power rail voltage.

The ADP1754/ADP1755 are available in a 16-lead, 4 mm  $\times$  4 mm LFCSP, making them not only very compact solutions, but also providing excellent thermal performance for applications requiring up to 1.2A of output current in a small, low profile footprint.

## Features

Maximum output current: 1.2 A

Input voltage range: 1.6 V to 3.6 V

Low shutdown current:  $<2 \mu\text{A}$

Very low dropout voltage: 105 mV @ 1.2 A load

Initial accuracy:  $\pm 1\%$

Accuracy over line, load, and temperature:  $\pm 2\%$

7 fixed output voltage options with soft start 0.75 V to 2.5 V (ADP1754)

Adjustable output voltage option with soft start 0.75 V to 3.0 V ()

High PSRR(See data sheet for details)

23  $\mu\text{V}$  rms at 0.75 V output

Stable with small 4.7  $\mu\text{F}$  ceramic output capacitor

Excellent load and line transient response

## Application

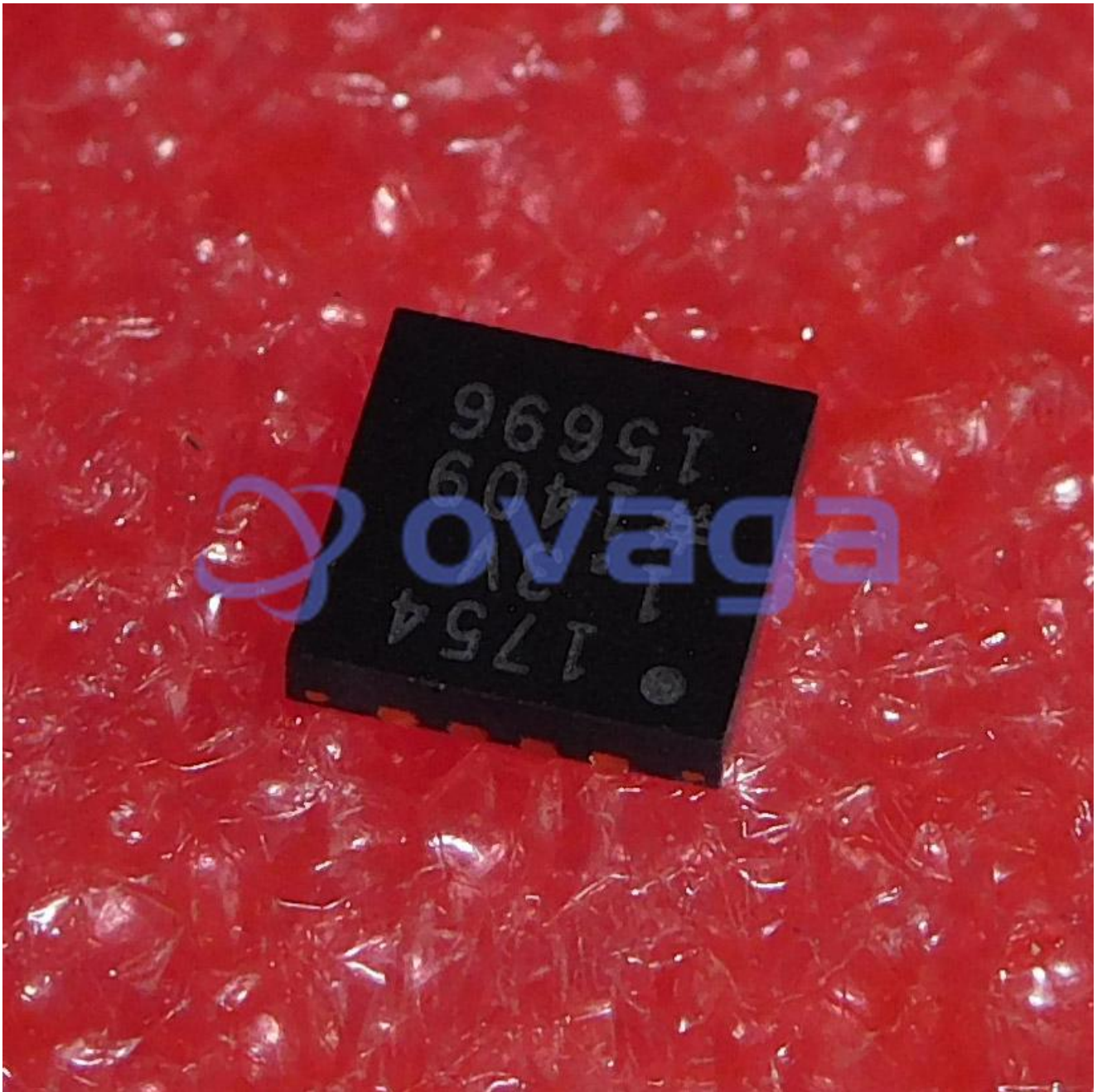
Server computers

Memory components

Telecommunications equipment

DSP/FPGA/microprocessor supplies

Instrumentation equipment/data acquisition systems



## Related Products



### [ADP3336ARMZ-REEL7](#)

Analog Devices, Inc  
MSOP-8



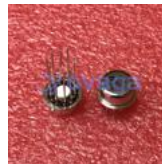
### [AD737JRZ](#)

Analog Devices, Inc  
SOP-8



### [ADP3367ARZ](#)

Analog Devices, Inc  
SOIC-8



### [AD636JH](#)

Analog Devices, Inc  
TO-100-10



[ADP3330ARTZ.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