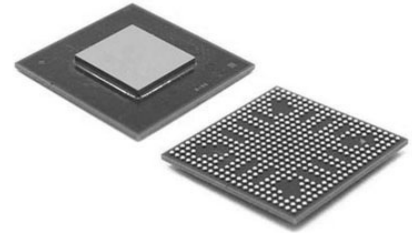


2 A, Low Dropout, CMOS Linear Regulator; 2 A, Low Dropout, CMOS Linear Regulator

Manufacturers	Analog Devices, Inc
Package/Case	LFCSP-16
Product Type	Power Management ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ADP1741ACPZ-R7 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADP1740/ADP1741 are CMOS, low dropout linear regulators that operate from 1.6 V to 3.6 V and provide up to 2 A 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 just a small 4.7 μ F ceramic output capacitor.

The ADP1740 is available in seven fixed output voltage options. The ADP1741 is an adjustable version that allows output voltages ranging from 0.75 V to 3.3 V via an external divider. The ADP1740/ADP1741 allow an external soft start capacitor to be connected to program the startup. A digital power-good output allows power system monitors to check the health of the output voltage.

The ADP1740/ADP1741 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 that require up to 2 A of output current in a small, low profile footprint.

Features

Maximum output current: 2 A

Input voltage range: 1.6 V to 3.6 V

Low shutdown current: 2 μ A

Low dropout voltage: 160 mV @ 2 A load

Initial accuracy: $\pm 1\%$

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

7 fixed output voltage options with soft start (ADP1740): 0.75 V to 2.5 V

Adjustable output voltage options with soft start (ADP1741): 0.75 V to 3.3 V

High PSRR65 dB @ 1 kHz65 dB @ 10 kHz54 dB @ 100 kHz

23 μ V rms at 0.75 V output

Stable with small 4.7 μ F ceramic output capacitor

Excellent load and line transient response

Current-limit and thermal overload protection

See data sheet for additional features

Application

Server computers

Memory components

Telecommunications equipment

Network equipment

DSP/FPGA/microprocessor supplies

Instrumentation equipment/data acquisition systems

Related Products



[ADP3336ARMZ-REEL7](#)

Analog Devices, Inc
MSOP-8



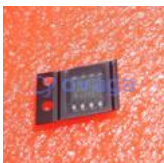
[ADP3367ARZ](#)

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[ADP3330ARTZ3.3-RL7](#)

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SOT-23-6



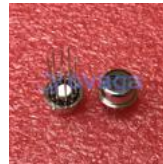
[ADR421ARZ](#)

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[AD737JRZ](#)

Analog Devices, Inc
SOP-8



[AD636JH](#)

Analog Devices, Inc
TO-100-10



[ADR434BRZ](#)

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SOIC-8



[ADR3412ARJZ-R7](#)

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SOT-23-6