

Ultralow Noise, 150 mA CMOS Linear Regulator; Package: 5 ld TSOT; No of Pins: 5; Temperature Range: Ind

Manufacturers	Analog Devices, Inc
Package/Case	SOT353-1
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for ADP150AUJZ-3.3-R7 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADP150 is an ultralow noise (9 μ V), low dropout, linear regulator that operates from 2.2 V to 5.5 V and provides up to 150 mA of output current. The low 105 mV dropout voltage at 150 mA load improves efficiency and allows operation over a wide input voltage range.

Using an innovative circuit topology, the ADP150 achieves ultralow noise performance without the necessity of an additional noise bypass capacitor, making it ideal for noise sensitive analog and RF applications. The ADP150 also achieves ultralow noise performance without compromising PSRR or line and load transient performance. The ADP150 offers the best combination of ultralow noise and quiescent current consumption to maximize battery life in portable applications. The ADP150 is specifically designed for stable operation with tiny 1 μ F \pm 30% ceramic input and output capacitors to meet the requirements of high performance, space-constrained applications.

The ADP150 is available in 14 fixed output voltage options, ranging from 1.8 V to 3.3 V. Short-circuit and thermal overload protection circuits prevent damage in adverse conditions. The ADP150 is available in tiny 5-lead TSOT and 4-ball, 0.4 mm pitch WLCSP packages for the smallest footprint solution to meet a variety of portable power applications.

Features

Ultra low noise: 9 μ V rms, independent of VOUT

No additional noise bypass capacitor required

Stable with 1 μ F ceramic input and output capacitors

Maximum output current: 150 mA

Input voltage range: 2.2 V to 5.5 V

Low quiescent

Low shutdown current: <1 μ A

Low dropout voltage: 105 mV @ 150 mA load

Initial output voltage accuracy: \pm 1%

See data sheet for additional features

Application

Mobile phones

Digital camera and audio devices

Portable and battery-powered equipment

Post dc-to-dc regulation

Portable medical devices

RF, PLL, VCO and clock power supplies



Related Products



[ADP3336ARMZ-REEL7](#)

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