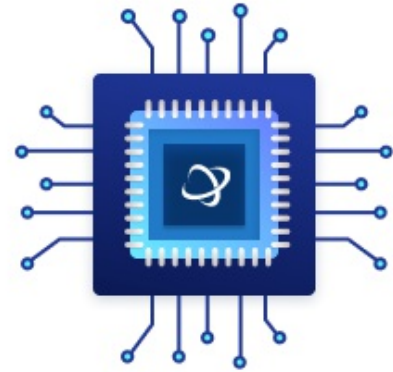


Aerospace 14-Bit 150 MSPS, 1.8V Analog-to-Digital Converter

Manufacturers	Analog Devices, Inc
Package/Case	CERAMIC QUAD FLAT PACK
Product Type	Data Conversion ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for AD9254R703F or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD9254 is a monolithic, single 1.8 V supply, 14-bit, 150 MSPS analog-to-digital converter (ADC), featuring a high performance sample-and-hold amplifier (SHA) and on-chip voltage reference. The product uses a multistage differential pipeline architecture with output error correction logic to provide 14-bit accuracy at 150 MSPS data rates and guarantees no missing codes over the full operating temperature range.

The wide bandwidth, truly differential SHA allows a variety of user-selectable input ranges and offsets, including single-ended applications. It is suitable for multiplexed systems that switch full-scale voltage levels in successive channels and for sampling single-channel inputs at frequencies well beyond the Nyquist rate. Combined with power and cost savings over previously available ADCs, the AD9254 is suitable for applications in communications, imaging, and medical ultrasound.

A differential clock input controls all internal conversion cycles. A duty cycle stabilizer (DCS) compensates for wide variations in the clock duty cycle while maintaining excellent overall ADC performance.

The digital output data is presented in offset binary, Gray code, or twos complement formats. A data output clock (DCO) is provided to ensure proper latch timing with receiving logic.

Features

1.8 V analog supply operation

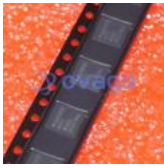
1.8 V to 3.3 V output supply

Low power: 430 mW @ 150 MSPS

Differential input with 650 MHz bandwidth

On-chip voltage reference and sample-and-hold amplifier

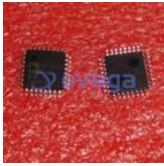
Related Products



[ADAS3022BCPZ](#)
Analog Devices, Inc
LFCSP-40



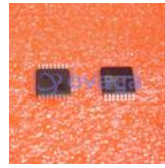
[AD574AJNZ](#)
Analog Devices, Inc
PDIP-28



[AD7938BSUZ](#)
Analog Devices, Inc
TQFP-32



[AD7124-8BCPZ-RL7](#)
Analog Devices, Inc
LFCSP-32



[AD7266BSUZ](#)
Analog Devices, Inc
TQFP-32



[AD7401YRWZ](#)
Analog Devices, Inc
SOIC-16



[AD7192BRUZ-REEL](#)
Analog Devices, Inc
TSSOP-24



[AD9680BCPZ-500](#)
Analog Devices, Inc
LFCSP-64