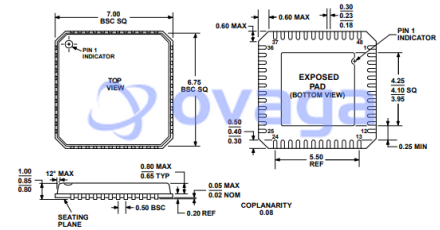


Analogue to Digital Converter, 12 bit, 125 MSPS, Differential, Single Ended, Parallel, Single

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	LFCSP-48
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD9233BCPZ-125 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The AD9233 is a monolithic, single 1.8 V supply, 12-bit, 80 MSPS/ 105 MSPS/125 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 12-bit accuracy at 125 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 AD9233 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.

The AD9233 is available in a 48-lead LFCSP and is specified over the industrial temperature range (-40°C to +85°C).

## Product Highlights

### Applications

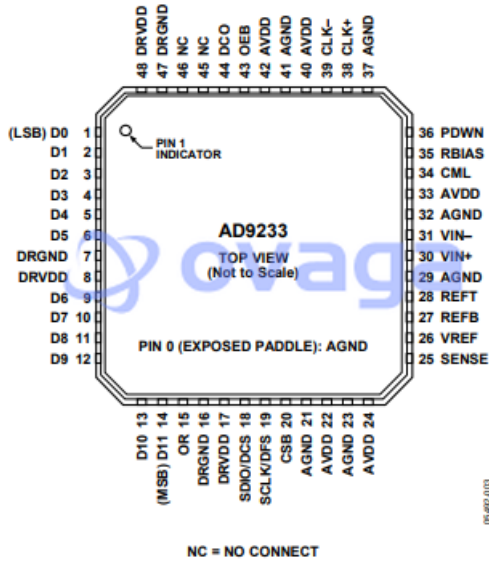
The AD9233 operates from a single 1.8 V power supply and features a separate digital output driver supply to accommodate 1.8 V to 3.3 V logic families.

The patented SHA input maintains excellent performance for input frequencies up to 225 MHz.

The clock DCS maintains overall ADC performance over a wide range of clock pulse widths.

A standard serial port interface supports various product features and functions, such as data formatting (offset binary, twos complement, or





## Related Products



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



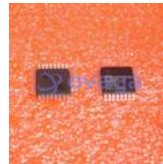
[AD574AJNZ](#)  
Analog Devices, Inc  
PDIP-28



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



[AD7124-8BCPZ-RL7](#)  
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LFCSP-64