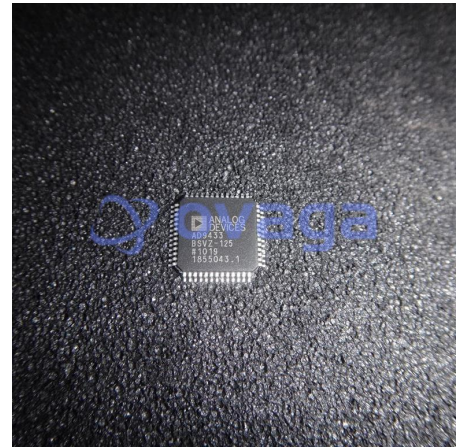


1-Channel Single ADC Pipelined 125Msps 12-bit Parallel 52-Pin TQFP EP Tray

Manufacturers	Analog Devices, Inc
Package/Case	TQFP-48
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD9433BSVZ-125 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD9433 is a 12-bit monolithic sampling analog-to-digital converter with an on-chip track-and-hold circuit and is designed for ease of use. The product operates up to 125 Msps conversion rate and is optimized for outstanding dynamic performance in wideband and high IF carrier systems.

The ADC requires a +5V analog power supply and a differential encode clock for full performance operation. No external reference or driver components are required for many applications. The digital outputs are TTL/CMOS compatible and a separate output power supply pin supports interfacing with 3.3V or 2.5V logic.

A user-selectable, on-chip proprietary circuit optimizes spurious-free dynamic range (SFDR) versus signal-to-noise-and-distortion (SINAD) ratio performance for different input signal frequencies, providing as much as 83 dBc SFDR performance over the dc to 70 MHz band.

The encode clock supports either differential or single-ended input and is PECL-compatible. The output format is user-selectable for binary or two's complement and provides an overrange (OR) signal.

Fabricated on an advanced BiCMOS process, the AD9433 is available in a 52-lead thin quad flat package (TQFP_EP) that is specified over the industrial temperature range of -40°C to +85°C. The AD9433 is pin-compatible with the AD9432.

Features

IF Sampling up to 350 MHz

SNR: 67.5 dB, f

in

SFDR: 83 dBc,>>>

2 V

P-P

On-chip clock duty cycle stabilization

On-chip reference and track-and-hold

SFDR Optimization Circuit

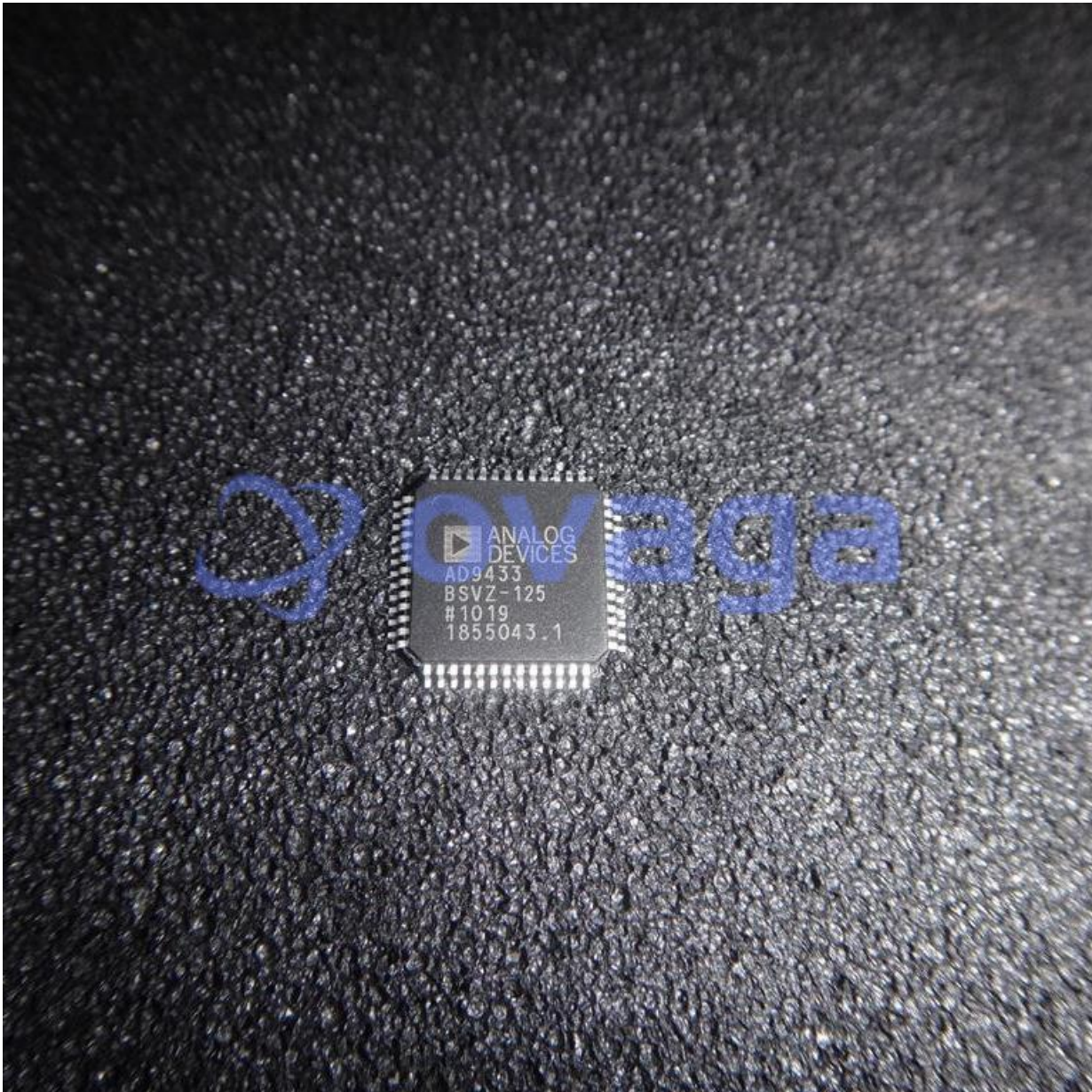
Excellent Linearity

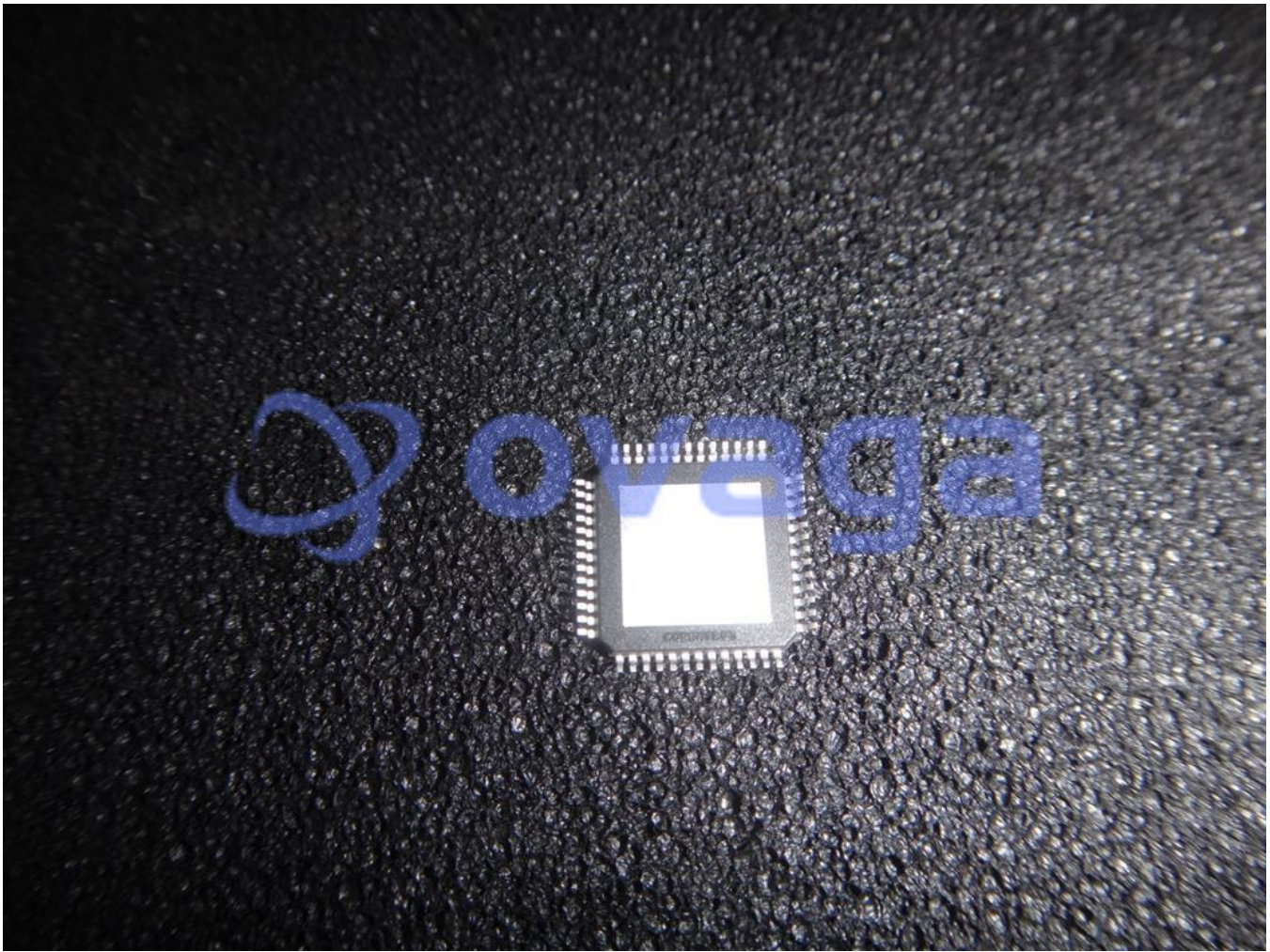
750 MHz full power analog bandwidth

Power>

Twos complement or offset binary data format

See data sheet for additional features





Related Products



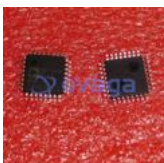
[ADAS3022BCPZ](#)

Analog Devices, Inc
LFCSP-40



[AD574AJNZ](#)

Analog Devices, Inc
PDIP-28



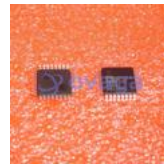
[AD7938BSUZ](#)

Analog Devices, Inc
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Analog Devices, Inc
LFCSP-32



[AD7266BSUZ](#)

Analog Devices, Inc
TQPF-32



[AD7401YRWZ](#)

Analog Devices, Inc
SOIC-16



[AD7192BRUZ-REEL](#)

Analog Devices, Inc
TSSOP-24



[AD9680BCPZ-500](#)

Analog Devices, Inc
LFCSP-64