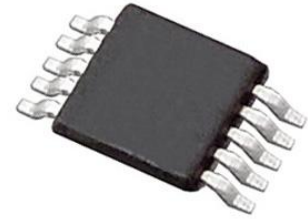


Digital to Analogue Converter, Dual, 10 bit, 143 kSPS, 3 Wire, Serial, 2.5V to 5.5V, SOP, 10 Pins

Manufacturers	Analog Devices, Inc
Package/Case	MSOP-10
Product Type	Data Conversion ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for AD5312BRMZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD5302/AD5312/AD5322 are dual 8-, 10- and 12-bit buffered voltage output DACs in a 10-lead μ SOIC package that operate from a single +2.5 V to +5.5 V supply consuming 230 μ A at 3 V. Their on-chip output amplifiers allow the outputs to swing rail-to-rail with a slew rate of 0.7 V/ μ s. The AD5302/ AD5312/AD5322 utilize a versatile 3-wire serial interface which operates at clock rates up to 30 MHz and is compatible with standard SPI[™], QSPI[™], MICROWIRE[™] and DSP interface standards.

Product Highlights

Available in 10-lead MicroSOIC packages

Low power, single supply operation from 2.5 V to 5.5 V supply

Consumes 0.7mW at 3 V and 1.5 mW at 5 V

Rail-to-Rail output with a slew rate of 0.7 V/ μ s

Utilizes a versatile 3-wire serial interface with clock rates up to 30 MHz

Pin and Software Compatible with the AD5302 (8-Bit) and the AD5322 (12-bit)

Features

Two 10-Bit DACS in One Package

Micropower: 300 μ A @ 5 V (including Reference Current)

Power-Down to 200 nA @ 5 V, 50nA @ 3 V

Guaranteed Monotonic by Design

Power-On-Reset to Zero Volts

Buffered/Unbuffered Reference Input Options

O-VREF Output Voltage

Low Power, SPI™, QSPI™, MICROWIRE™ and DSP-Compatible 3-Wire Serial Interface

Output Buffer Amplifiers w/ Rail-to-Rail Operation

Simultaneous Update of DAC Outputs via LDAC Pin (Active Low)

Temperature Range: -40°C to 105°C

Three Power-Down Functions

Application

Available in 10-lead MicroSOIC packages

Low power, single supply operation from 2.5 V to 5.5 V supply

Consumes 0.7mW at 3 V and 1.5 mW at 5 V

Rail-to-Rail output with a slew rate of 0.7 V/ μ s

Utilizes a versatile 3-wire serial interface with clock rates up to 30 MHz

Pin and Software Compatible with the AD5302 (8-Bit) and the AD5322 (12-bit)

Related Products



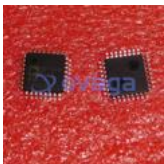
[ADAS3022BCPZ](#)

Analog Devices, Inc
LFCSP-40



[AD574AJNZ](#)

Analog Devices, Inc
PDIP-28



[AD7938BSUZ](#)

Analog Devices, Inc
TQFP-32



[AD7124-8BCPZ-RL7](#)

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[AD7266BSUZ](#)

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TQFP-32



[AD7401YRWZ](#)

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SOIC-16



[AD7192BRUZ-REEL](#)

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[AD9680BCPZ-500](#)

Analog Devices, Inc
LFCSP-64