AD5331BRUZ

Data Sheet

2.5V to 5.5V, 115µA Parallel Interface Single Voltage Output 10-Bit DAC; Package: TSSOP; No of Pins: 20; Temperature Range: Industrial

Manufacturers	Analog Devices, Inc
Package/Case	TSSOP-20
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	

Images are for reference only

Please submit RFQ for AD5331BRUZ or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The AD5330/AD5331/AD5340/AD5341 are single 8-/10-/12-bit DACs. They operate from a 2.5 V to 5.5 V supply consuming just 115 µA at 3 V and feature a power-down mode that further reduces the current to 80 nA. The devices incorporate an on-chip output buffer that can drive the output to both supply rails, but the AD5330, AD5340, and AD5341 allow a choice of buffered or unbuffered reference input.

The AD5330/AD5331/AD5340/AD5341 have a parallel interface. CSselects the device and data is loaded into the input registers on the rising edge of WR.

The GAIN pin allows the output range to be set at 0 V to VREF or 0 V to 2 × VREF.

Input data to the DACs is double-buffered, allowing simultaneous update of multiple DACs in a system using the LDAC pin.

An asynchronous CLR input is also provided, which resets the contents of the input register and the DAC register to all zeros. These devices also incorporate a power-on reset circuit that ensures that the DAC output powers on to 0 V and remains there until valid data is written to the device.

The AD5330/AD5331/AD5340/AD5341 are available in thin shrink small outline packages (TSSOP).

Features

Single 10-Bit DAC in 20-Lead TSSOP

Low power operation: 115 µA @ 3 V, 140 µA @ 5 V

Power-down to 80 nA @ 3 V, 200 nA @ 5 V via PD Pin

2.5 V to 5.5 V power supply

Guaranteed monotonic by design over all codes

Double-Buffered Input Logic

Buffered/unbuffered reference input options

See Data Sheet for Additional Information

Application

Portable battery-powered instruments

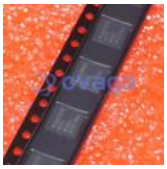
Digital gain and offset adjustment

Programmable voltage and current sources

Programmable attenuators

Industrial process control

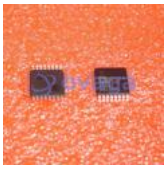
Related Products



ADAS3022BCPZ

Analog Devices, Inc

LFCSP-40



AD7266BSUZ

Analog Devices, Inc

TQPF-32

AD574AJNZ

Analog Devices, Inc

PDIP-28

AD7401YRWZ

Analog Devices, Inc

SOIC-16

AD7938BSUZ

Analog Devices, Inc

TQFP-32

AD7192BRUZ-REEL

Analog Devices, Inc

TSSOP-24

AD7124-8BCPZ-RL7

Analog Devices, Inc

LFCSP-32

AD9680BCPZ-500

Analog Devices, Inc

LFCSP-64